

**Black Pulaski / Flat Tire Complex Fires**  
**BURNED AREA REHABILITATION PLAN**

**UNIT:** Charles M. Russell NWR

**LOCATION:** Garfield County, Valley County, Petroleum and Phillips Counties of Montana

**DATE:** July 26, 2006

**PREPARED BY:** Paul Pallas, CMR Assistant Fire Management Officer, Team Leader

Submitted By: \_\_\_\_\_ Date: \_\_\_\_\_  
Paul Pallas, AFMO CMR NWR

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## EXECUTIVE SUMMARY

### Introduction

This Burned Area Rehabilitation Plan has been prepared in accordance with Department of the Interior and USFWS policy. This plan provides rehabilitation recommendations for all lands burned within the Black Pulaski and Flat Tire Fire perimeter and downstream impact areas including: public lands administered by the Charles M. Russell NWR (CMR) and other jurisdictions if necessary. The primary objectives of the Fire Burned Area Rehabilitation Plan are:

- To repair or improve lands unlikely to recover naturally from severe wildland fire damage by emulating historic or pre-fire ecosystem structure, function, diversity, and dynamics according to approved land management plans.
- Restore or establish healthy, stable ecosystems, even if these ecosystems cannot fully emulate historic or pre-fire conditions as specified in approved land management plans.
- Repair or replace fire damaged minor operating facilities (e.g., campgrounds, interpretive signs and exhibits, shade shelters, fences, wildlife guzzlers, etc.)

This plan addresses rehabilitation treatments. The burned area was surveyed for resource damage by team members. Natural regeneration should adequately reclaim the affected areas if damaged fences are replaced and/or repaired. This will allow resting of the burned areas from grazing which will promote nature regeneration. All damaged fences have been identified. Specifics are found in the attached document (Inventory of fire damaged fences on the CMR NWR with in the Black Pulaski and Flat Tire Complex Fires).

The burned area rehabilitation assessment and planning team consisted of Paul Pallas- AFMO and Team Leader, Tim Miller, John Takala and Jody Jones – Refuge Operations Specialists, Joann Dullum- GIS Specialist/Wildlife Biologist, and Bob Skinner – Vegetation Specialist. The areas burned included riparian areas, grass-savanna ridges, ponderosa pine-juniper forest and sagebrush-grass zones. The team found extensive damage to the ponderosa-juniper areas. Approximately 90% of the pine appeared to be dead. Other zones had quick moving short duration fires of moderate intensity. Recovery should be excellent in these areas and natural regeneration will likely occur.

A summary of the costs by jurisdictions is located in Part E. Appendix II contains the National Environmental Policy Act (NEPA) compliance documentation summary. Appendix III contains the Burned Area Rehabilitation Plan maps. Appendix IV contains supporting documentation.

### Fire Background

The Black Pulaski Complex was a series of natural lightning caused fires within Garfield, Petroleum and Fergus Counties. The Black Pulaski Complex consisted of the following fires: Black Pulaski, Soda Creek, Lost Creek, Hill Coulee and the Lodge Pole fires, which burn approximately 124,901 acres of CMR, BLM, State and private lands. The fire started on the evening of July 15, 2006 and was pushed by strong erratic winds throughout the night. Most of the acreage was a result of several erratic wind shifts over three days. A Type 3 Incident Management Team (IMT) was deployed to suppress the fire, Complex transition from Type 3 to Type 2 then a type 1 IMT managed the fire through July 25; at which

time it was controlled and turned over to a Type 3 IC and put into patrol status.

The Flat Tire Complex consisted of three fires on the north side of the Missouri River in Valley and Phillips Counties. The fires in the Complex were Middle Eighth Ridge, Flat Tire and UL Bend. Combined, they burned close to 21,265 acres. All fires were lightning caused starting on July 17, 2006. The fires transitioned from a ICT 3 organization to a ICT 2 team on the 19th of July. The Incident Management Team turned the fires back to the local unit on July 26, 2006 as controlled/contained, and in patrol status.

### **Fire Damages - Threats to Human Safety - Natural and Cultural Resources**

One structure on private land and one historical structure within CMR NWR were destroyed by the fires, these structures cannot be replaced. The 59.57 miles of fencing destroyed must be replaced to prevent livestock from trespassing onto CMR, and to prevent moving between pastures which adversely impact the burned area.

### **Charles M. Russell NWR Management Requirements**

The area lies within the CMR National Wildlife Refuge and is adjacent to important recreational areas (Hell Creek Bay, Devils Creek, Crooked Creek and Bone Trail boat ramp and campgrounds). The sites are popular for boating and are used by visitors and local residents alike. Much of the burn was in Proposed Wilderness Areas.

### **Rehabilitation**

The following statements in approved Charles M. Russell National Wildlife Refuge management plans, justify the proposed burned area rehabilitation treatments funded with Burned Area Rehabilitation funds. *“Habitat analysis indicates deciduous shrub communities are in short supply on the refuge, and historical accounts indicate shrubs were once more abundant than they are today. A combination of actions would be taken to improve the present situation”*

*”Management actions would probably be adjustment in grazing, burning, and planting, in that order. Shrubs would be planted to reestablish a seed source for natural revegetation. (Charles M. Russell Final Environmental Impact Statement; Galen Buterbaugh, Regional Director, Region 6; August 1985.)”*

**PART A - FIRE LOCATION AND BACKGROUND INFORMATION**

Fire Name	Black Pulaski/ Flat Tire complex
Fire Number	CY3X/CY3T
Agency Unit	61520
Region	6
State	MT
County(s)	Garfield, Petroleum, Valley, Phillips, Fergus
Ignition Date/Cause	7-15-2006 natural
Zone	
Date Fully Contained	7-26-2006
Jurisdiction Acres	
USFWS	80,352
<i>BLM</i>	30,792
<i>Private</i>	28,106
State	6,155
Total Acres	145,405
Date Contained	7-26-2006

**PART B - NATURE OF PLAN**

Type of Action (check one box below)

<input checked="" type="checkbox"/>	Initial Submission
<input type="checkbox"/>	Amendment to the Initial Submission

**PART C - REHABILITATION ASSESSMENT**

Rehabilitation Objectives

- Prevent the establishment of non-native invasive plants such as leafy spurge and Russian knapweed.
- Prevent degradation of unburned areas within the fire perimeter from livestock by repair and/or replace fencing infrastructure damaged and/or destroyed by fire.
- Re-establish native shrubs and trees to prevent excess erosion and site degradation.

**PART D - TEAM ORGANIZATION, MEMBERS, AND RESOURCE ADVISORS**

I. Burned Area Rehabilitation Team Members:

<b>Position</b>	<b>Team Member (Agency)</b>
Team Leader	Paul Pallas (FWS)
Operations	Tim Miller/John Takala, Jody Jones (FWS)
NEPA Compliance & Planning	Mike Granger (FWS)
Vegetation Specialist	Bob Skinner (FWS)
Wildlife Biologist	Joann Dullum (FWS)
GIS Specialist	John Takala (FWS)

II. Resource Advisors:

<b>Name</b>	<b>Affiliation</b>
Tim Miller	Charles M. Russell NWR, Jordan Station Manager
Matt deRosier	Charles M. Russell NWR, Sand Creek Station Manager

**PART E - SUMMARY OF ACTIVITIES AND COSTS**

The summary of activities and cost table below identifies rehabilitation costs charged or proposed for rehabilitation funding from sub-activity 9262.

**REHABILITATION ACTIVITIES COST SUMMARY TABLE – Black Pulaski/Flat Tire Complex Fires**

Spec #	Title	Unit	Unit Cost	# of Units	Work Agent	Cost
1	Fence Replacement/Repair	Mile	Appendix IV	59.57	FA, SC	\$443,910
	Aerial delivery of supplies	Mile	Appendix IV		SC	\$30,000
	Government Oversight and fuel cost	Mile	Appendix IV		FA	\$7,900
2	Re-seed mechanical control lines and invasive weed control	mile	2600	4	FA	\$10,400
<b>TOTAL COST</b>						<b>\$ 492,210.00</b>
<p><b>Work Agent:</b> CA=Coop Agreement, FA=Force Account, G=Grantee, P=Permitee, SC=Service Contract, TSP=Timber Sales Purchaser, V=Volunteer</p>						

**PART F - INDIVIDUAL SPECIFICATION**

<b>TREATMENT/ACTIVITY NAME</b>	Replace Fence	<b>PART E SPECIFICATION #</b>	1
<b>NFPORS TREATMENT CATEGORY*</b>		<b>FISCAL YEAR(S) (list each year):</b>	FY2007, FY 2008, FY 2009
<b>NFPORS TREATMENT TYPE *</b>		<b>WUI? Y / N</b>	N
<b>IMPACTED COMMUNITIES AT RISK</b>	None	<b>IMPACTED T&amp;E SPECIES</b>	None

\* See NFPORS Restoration & Rehabilitation module - Edit Treatment screen for applicable entries.

<b>TREATMENT/ACTIVITY NAME</b>	Reseed mechanical lines and invasive weed control	<b>PART E SPECIFICATION #</b>	2
<b>NFPORS TREATMENT CATEGORY*</b>		<b>FISCAL YEAR(S) (list each year):</b>	FY2007
<b>NFPORS TREATMENT TYPE *</b>		<b>WUI? Y / N</b>	N
<b>IMPACTED COMMUNITIES AT RISK</b>	None	<b>IMPACTED T&amp;E SPECIES</b>	None

**WORK TO BE DONE** (describe or attach exact specifications of work to be done):

<p>Number and Describe Each Task:</p> <p>A. General Description: 1) Replace CMR boundary fence destroyed by the Black Pulaski / Flat Tire Complex fires.</p> <p>2) Monitor invasive weeds and control by hand pulling and chemicals where necessary. Monitoring will be via helicopter or fixed wing aircraft.</p> <p>B. Location/(Suitable) Sites: Black Pulaski / Flat Tire Complex Fires on CMR NWR</p> <p>C. Design/Construction Specifications: Fence design and standards are per FWS specifications. Weed inventory and control will be per attached document.</p> <p>D. Purpose of Treatment Specifications: To prevent trespass cattle from entering the Refuge and negatively impacting the burn area. Prevent invasion of</p>
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noxious weeds.  
 E. Treatment Effectiveness Monitoring Proposed: No monitoring will be required if fencing is completed prior to cattle being released on adjacent lands.  
 Weeds will be monitored for two years.

**LABOR, MATERIALS AND OTHER COST:**

<b>PERSONNEL SERVICES: (Grade @ Cost/Hours X # Hours X # Fiscal Years = Cost/Item):</b> Do not include contract personnel costs here (see contractor services below).	<b>COST / ITEM</b>
GS-11 at \$32/hour x 200hours x 1 years = 5,000	\$6,400
<b>TOTAL PERSONNEL SERVICE COST</b>	<b>\$6,400</b>
<b>EQUIPMENT PURCHASE, LEASE AND/OR RENT (Item @ Cost/Hour X # of Hours X #Fiscal Years = Cost/Item): Note:</b> Purchases require written justification that demonstrates cost benefits over leasing or renting.	<b>COST / ITEM</b>
<b>TOTAL EQUIPMENT PURCHASE, LEASE OR RENTAL COST</b>	<b>\$0</b>
<b>MATERIALS AND SUPPLIES (Item @ Cost/Each X Quantity X #Fiscal Years = Cost/Item):</b>	<b>COST / ITEM</b>
200 pounds of native seed x \$32.00 per pound for reseeding control lines Plateau Herbicide \$200/gallon x 10 gallon x 2 years Fencing materials: 59.57 miles x \$1,747.54 per mile	\$6,400.00 \$4000.00 \$104,101.00
<b>TOTAL MATERIALS AND SUPPLIES</b>	<b>\$114,501.00</b>
<b>TRAVEL COST (Personnel or Equipment @ Rate X Round Trips X #Fiscal Years = Cost/Item):</b>	<b>COST / ITEM</b>
Diesel fuel \$1500 for contract inspection	\$1500.00
<b>TOTAL TRAVEL COST</b>	<b>\$1500.00</b>
<b>CONTRACT COST (Labor or Equipment @ Cost/Hour X #Hours X #Fiscal Years = Cost/Item):</b>	<b>COST / ITEM</b>
Contract crew to repair and rebuild fences. Standard fencing contract is \$2.10 per linear foot	\$339,809.00
Helicopter time to sling materials along the boundary will be \$4,000 per mile x 7.5 miles.	\$30,000
<b>TOTAL CONTRACT COST</b>	<b>\$369,809</b>

**SPECIFICATION COST SUMMARY**

FISCAL YEAR	PLANNED INITIATION DATE (M/D/YYYY)	PLANNED COMPLETION DATE (M/D/YYYY)	WORK AGENT	UNITS	UNIT COST	PLANNED ACCOMPLISHMENTS	PLANNED COST
FY_07_	4-1-2007	9-1-2009	S	Mile	\$7452	59.57 miles	\$443,910
FY_07_	4-1-2007	9-1-2009	F	Year	\$3466.00	Reseeding & weed control	\$10,400
FY_07_	4-1-2007	9-1-2009	F	Year	\$2633	Inspection	\$7,900.00
FY_07_	4-1-2007	9-1-2007	S	Mile	\$4000	Helicopter	\$30,000.00
<b>TOTAL</b>							<b>\$492,210.00</b>

**Work Agent:** C=Coop Agreement, F=Force Account, G=Grantee, P=Permittees, S=Service Contract, T=Timber Sales Purchaser, V=Volunteer

**SOURCE OF COST ESTIMATE**

1.	Estimate obtained from 2-3 independent contractual sources.	
2.	Documented cost figures from similar project work obtained from local agency sources.	X
3.	Estimate supported by cost guides from independent sources or other federal agencies	X
4.	Estimates based upon government wage rates and material cost.	
5.	No cost estimate required - cost charged to Fire Suppression Account	

P = Personnel Services, E = Equipment M = Materials/Supplies, T = Travel, C = Contract, F = Suppression

**RELEVANT DETAILS, MAPS AND DOCUMENTATION INCLUDED IN THIS REPORT:**

Black Pulaski Complex Map, Flat Tire Complex map, Refuge Map with fire location.

**TOTAL COST BY JURSDICTION**

JURISDICTION	UNITS TREATED	COST
Charles M. Russell NWR	59.57 miles of fence	\$481810.00
Charles M. Russell NWR	Seed/Herbicide	\$10,400.00

	<b>TOTAL COST</b>	<b>\$492,210.00</b>
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**PART G - POST-BURNED AREA REHABILITATION REQUIREMENT**

The following are post-burned area rehabilitation, implementation, operation, maintenance, monitoring, and evaluation actions after three years from the control of the fire to ensure the effectiveness of initial investments. Estimated annual cost and funding source is indicated.

Burned areas will be monitored by Habitat Biologists and Technicians during routine refuge operations and charged to Refuge Operations accounts.

**PART H - CONSULTATIONS**

Charles M. Russell NWR staff.

## **APPENDIX I – BURNED AREA ASSESSMENT REPORT**

### **BLACK PULASKI/FLAT TIRE COMPLEX FIRES RESOURCE DAMAGE ASSESSMENT**

#### **I. Objectives**

To assess the damage to CMR resources burned during the Black Pulaski / Flat Tire Complex fires. It was found that the fences were damaged or destroyed during these fires. Some fences were not damage/destroyed by suppression activities.

#### **II. Observations**

##### **A. Background Information**

Boundary and division fences are a key element for the burned area to regenerate by allowing CMR to rest the burned area for two to three growing seasons. This will promote natural regeneration of native grass, shrubs and forbs.

##### **B. Reconnaissance Method**

Helicopter flight was used to map and survey the fences within the Complexes. On site evaluation were also performed.

##### **C. Findings**

The area will regenerate with a rest period, the fences destroyed need to be rebuilt as soon as possible to allow plant regeneration. Control lines constructed by heavy equipment need to be reseeded to help stabilize soils.

#### **III. Recommendations**

Rebuild the fences which will allow the burn area to remain undisturbed by cattle grazing. Seed the control lines this fall or winter.

Monitor and control invasive weed species where necessary; along existing road ways within the fires' parameter.

#### **IV. Consultations**

CMR Staff

#### **V. References**

Charles M. Russell NWR Environmental Impact Statement, 1985.

## **APPENDIX II - ENVIRONMENTAL COMPLIANCE**

### **Federal, State, and Private Lands Environmental Compliance Responsibilities**

All projects proposed in the Black Pulaski / Flat Tire Complex Fires Burned Area Rehabilitation Plan that are prescribed, funded, or implemented by Federal agencies on Federal, State, or private lands are subject to compliance with the National Environmental Policy Act (NEPA) in accordance with the guidelines provided by the Council on Environmental Quality (CEQ) Regulations (40 CFR 1500-1508); Department of the Interior and U.S. Fish and Wildlife Service Fire Management Handbook (Release 7/17/00) and 095 FW3, 3.9 B,C. This Appendix documents the Burned area emergency response team considerations of NEPA compliance requirements for prescribed rehabilitation and monitoring actions described in this plan for all jurisdictions affected by the Black Pulaski / Flat Tire Complex Fires.

### **Related Plans and Cumulative Impact Analysis**

Charles M. Russell National Wildlife Refuge Environmental Impact Statement (1985) was reviewed, and it was determined that actions proposed in the Black Pulaski / Flat Tire Complex Fires Rehabilitation Plan within the boundary of the Charles M. Russell National Wildlife Refuge are consistent with the management objectives established in the FEIS.

### **Cumulative Impact Analysis**

Cumulative effects are the environmental impacts resulting from the incremental impacts of a proposed action when added to other past, present, and reasonably foreseeable future actions, both Federal and non-Federal. Cumulative impacts can result from individually minor, but collectively significant actions taking place over a period of time. The rehabilitation treatments for areas affected by the Black Pulaski / Flat Tire Complex Fires, as proposed in the Black Pulaski / Flat Tire Complex Fires Burned Area Rehabilitation Plan; do not result in an intensity of impact (i.e. major ground disturbance, etc.) that would cumulatively constitute a significant impact on the quality of the environment. The treatments are consistent with the above jurisdictional management plans, associated environmental compliance documents and categorical exclusions listed below.

### **Applicable and Relevant Categorical Exclusions**

The individual actions proposed in this plan for Black Pulaski / Flat Tire Complex Fires are Categorically Excluded from further environmental analysis as provided for in DM 516, DM 6, Appendix 1, 1.4 (4), (5), (6), (9), and (11).

### **Statement of Compliance for the Fire Burned Area Rehabilitation Plan.**

This section documents consideration given to the requirements of specific environmental laws in the development of the Black Pulaski / Flat Tire Complex Fires Burned Area Rehabilitation Plan. Specific consultations initiated or completed during development and implementation of this plan are also documented. The following executive orders and legislative acts have been reviewed as they apply to the Black Pulaski / Flat Tire Complex Fires Burned Area Rehabilitation Plan:

- National Historic Preservation Act (NAPA).

- Executive Order 11988. Flood plain Management.
- Executive Order 11990. Protection of Wetlands.
- Executive Order 12372. Intergovernmental Review.
- Executive Order 12892. Federal Actions to Address Environmental Justice in Minority and Low-income Populations.
- Endangered Species Act.
- Secretarial Order 3127. Federal Contaminated
- Clean Water Act.
- Clean Air Act.

## CONSULTATIONS

- Charles M. Russell NWR staff

**NEPA Checklist:** If any of the following exception applies, the Burned Area Rehabilitation Plan cannot be Categorically Excluded and an Environmental Assessment (EA) is required.

(Yes) (No)

- (x) Adversely affect Public Health and Safety
- (x) Adversely affect historic or cultural resources, wilderness, wild and scenic rivers aquifers, prime farmlands, wetlands, floodplains, ecologically critical areas, or Natural Landmarks.
- (x) Have highly controversial environmental effects.
- (x) Have highly uncertain environmental effects or involve unique or unknown environmental risks.
- (x) Establish a precedent resulting in significant environmental effects.
- (x) Relates to other actions with individually insignificant but cumulatively significant environmental effects.
- (x) Adversely effects properties listed or eligible for listing in the National Register of Historic Places
- (x) Adversely affect a species listed or proposed to be listed as Threatened or Endangered.
- (x) Threaten to violate any laws or requirements imposed for the "protection of the environment" such as Executive Order 11988 (Floodplain Management) or Executive Order 11990 (Protection of Wetlands).

## National Historic Preservation Act

Ground Disturbance:

- None
- Ground disturbance did occur and an archeologist survey, required under section 110 of the NHPA will be prepared. A report will be prepared under contract as specified by the Burned Area Rehabilitation Plan.

A NHPA Clearance Form:

- Is required because the project may have affected a site that is eligible or on the national register. The clearance form is attached. SHPO has been consulted under Section 106 (see Cultural Resource Assessment, Appendix I).
- Is not required because the Burned Area Rehabilitation Plan has no potential to affect cultural resources (initial of cultural resource specialist).

**Other Requirements**

(Yes) (No)

- Does the Burned Area Rehabilitation Plan have potential to affect any Native American uses? If so, consultation with affiliated tribes is needed.
- Are any toxic chemicals, including pesticides or treated wood, proposed for use? If so local agency integrated pest management specialists must be consulted. (Treated brace posts will be used to replace same).

I have reviewed the proposals in the Black Pulaski / Flat Tire Complex Fires Burned Area Rehabilitation Plan in accordance with the criteria above and have determined that the proposed actions would not involve any significant environmental effect. Therefore it is categorically excluded from further environmental (NEPA) review and documentation. Burned area emergency response team technical specialists have completed necessary coordination and consultation to insure compliance with the National Historic Preservation Act, Endangered Species Act, Clean Water Act and other Federal, State and local environment review requirements.

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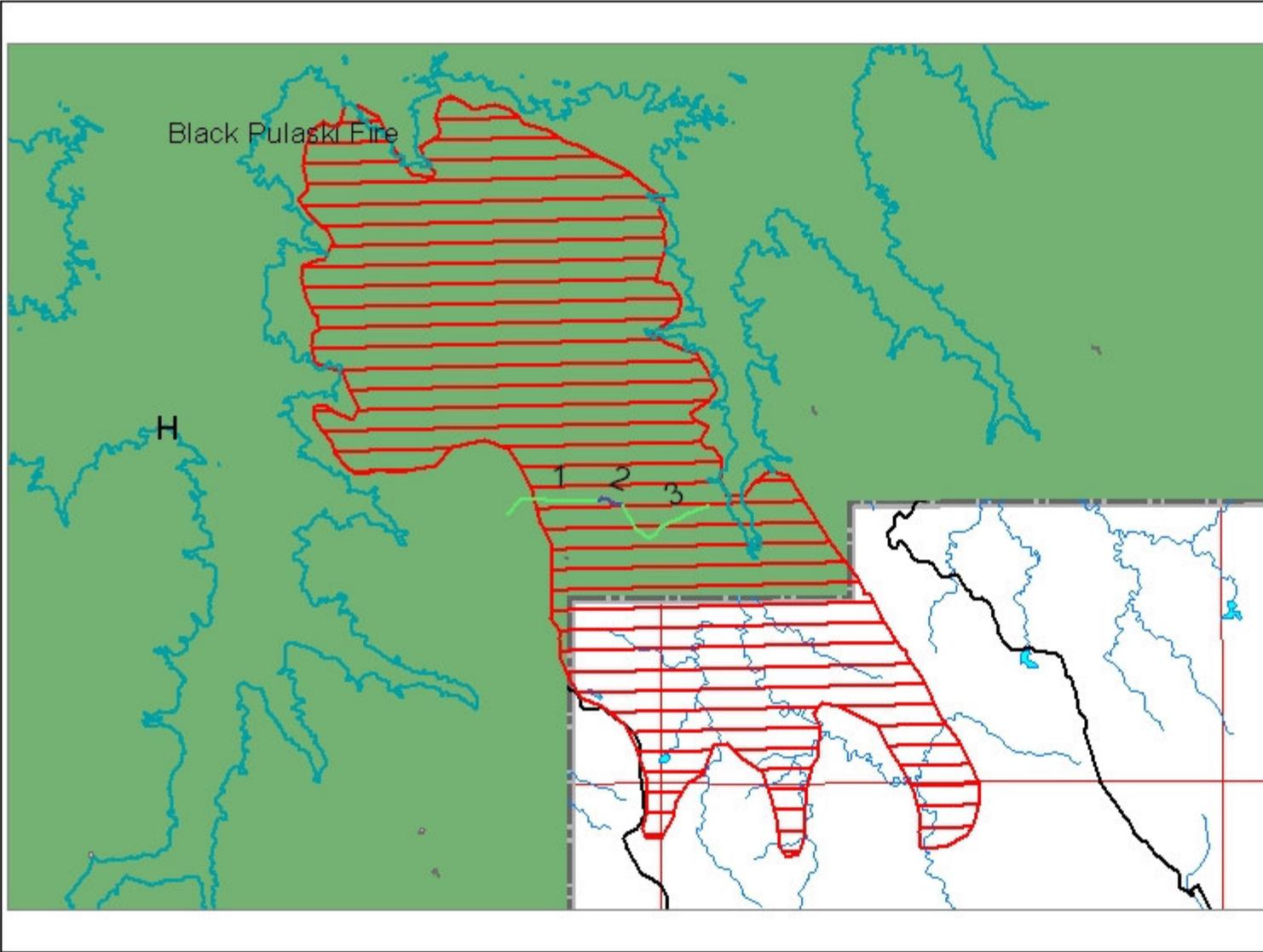
Burned Area Emergency Response Team Environmental Protection Specialist Date

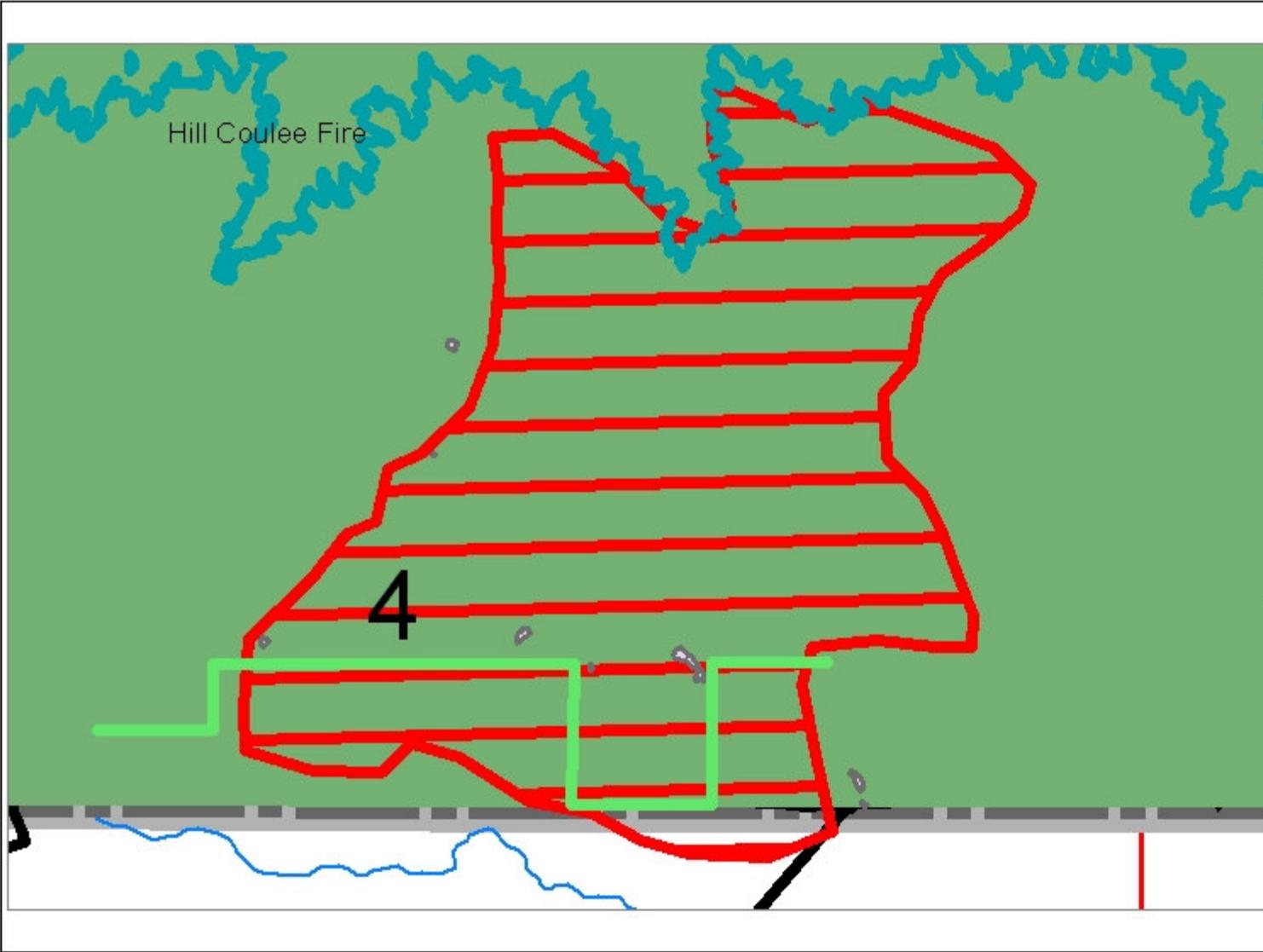
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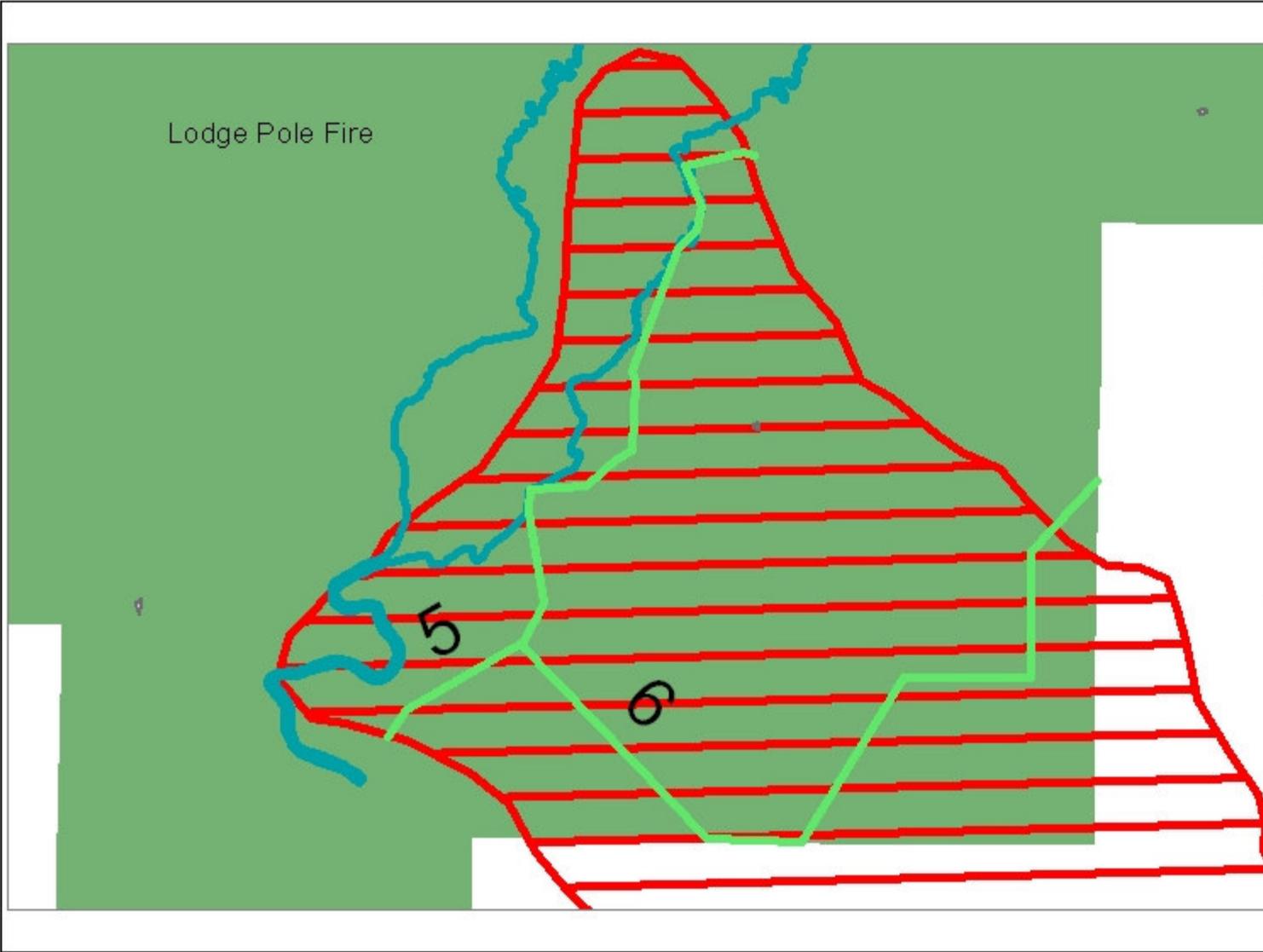
Project Leader, Charles M. Russell NWR Date

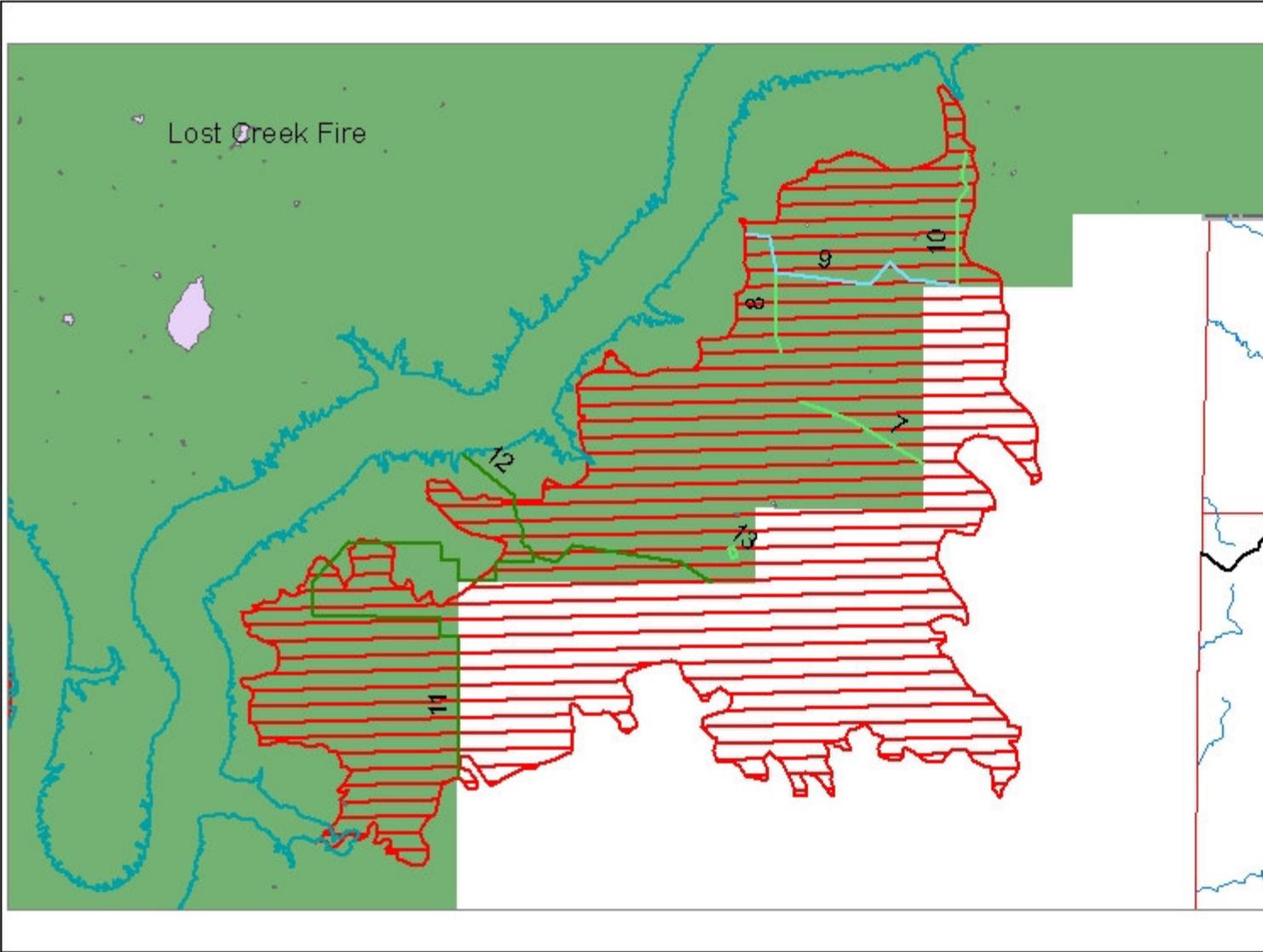
**APPENDIX III - MAPS**

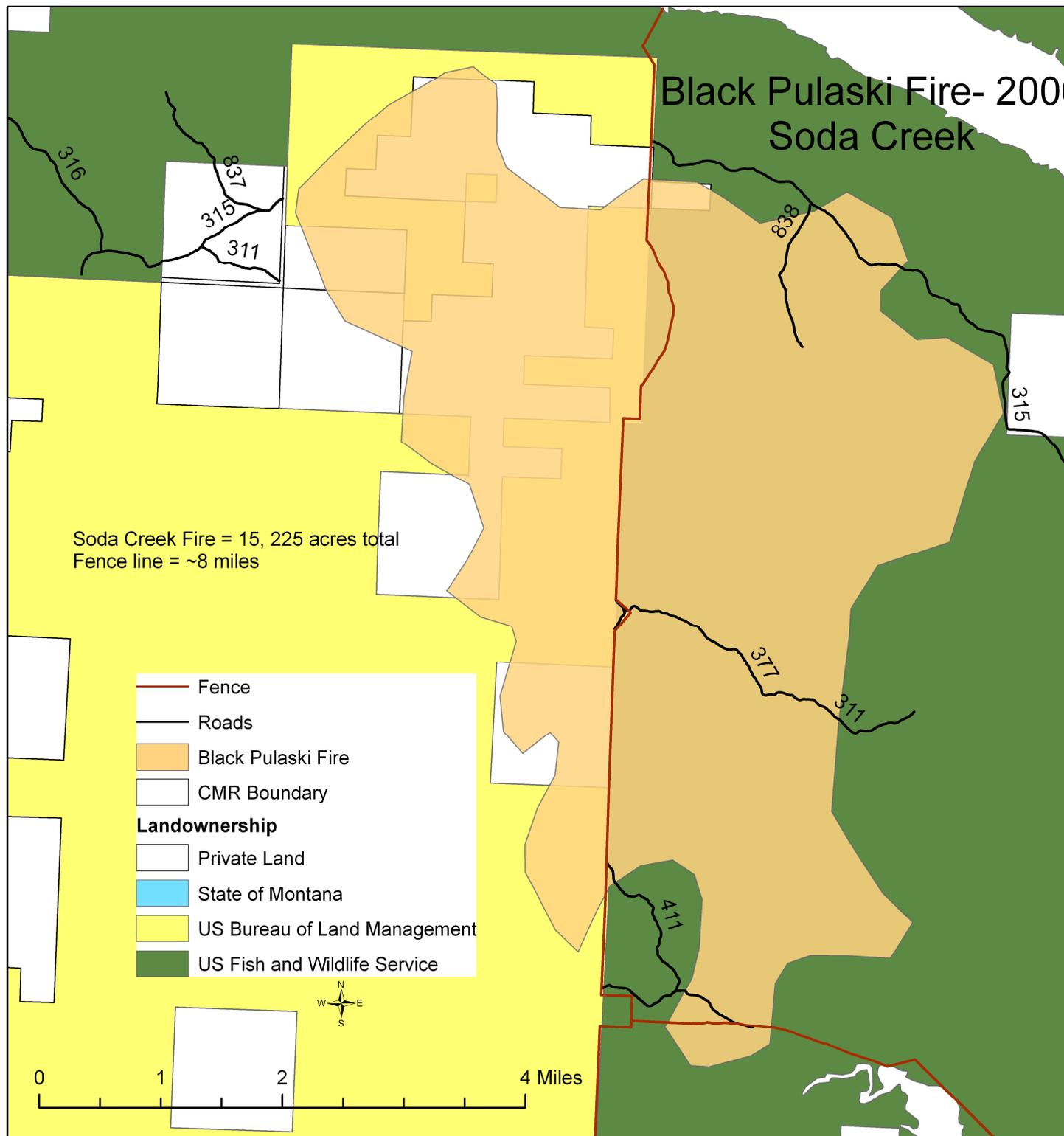
map #					
ID #	Length(ft)	Length(mi)	Extent	Structures	Fire_Name
1	5625	1.07	Wood	8	Black Pulaski
2	1582	0.30	Wood, Wire	7	Black Pulaski
3	6464	1.22	Wood	10	Black Pulaski
4	20269	3.84	Wood	24	Hill Coulee
5	20971	3.97	Wood	16	Lodge Pole
6	23049	4.37	Wood	0	Lodge Pole
7	9954	1.89	Wood	0	Lost Creek
8	5702	1.08	Wood	0	Lost Creek
9	18596	3.52	All	0	Lost Creek
10	9941	1.88	Wood	0	Lost Creek
11	59486	11.27	Don't Know	93	Lost Creek
12	9744	1.85	Don't Know	0	Lost Creek
13	2237	0.42	Wood	5	Lost Creek
14	43824	8.30	wood	73	Soda creek
	237444	45			
<p>Number of structures burned on the Lost Creek and Lodgepole Fires are not broken down by section of fence. These are total number of structures needing rehab for the entire fire as viewed from the air.</p> <p>Wire condition was assessed only on the Black Pulaski Fire, and sections of the Lost Creek Fire. All wire in heavy timber will probably need to be replaced. As a rough estimate, half of the wire on these fences will need to be replaced.</p>					

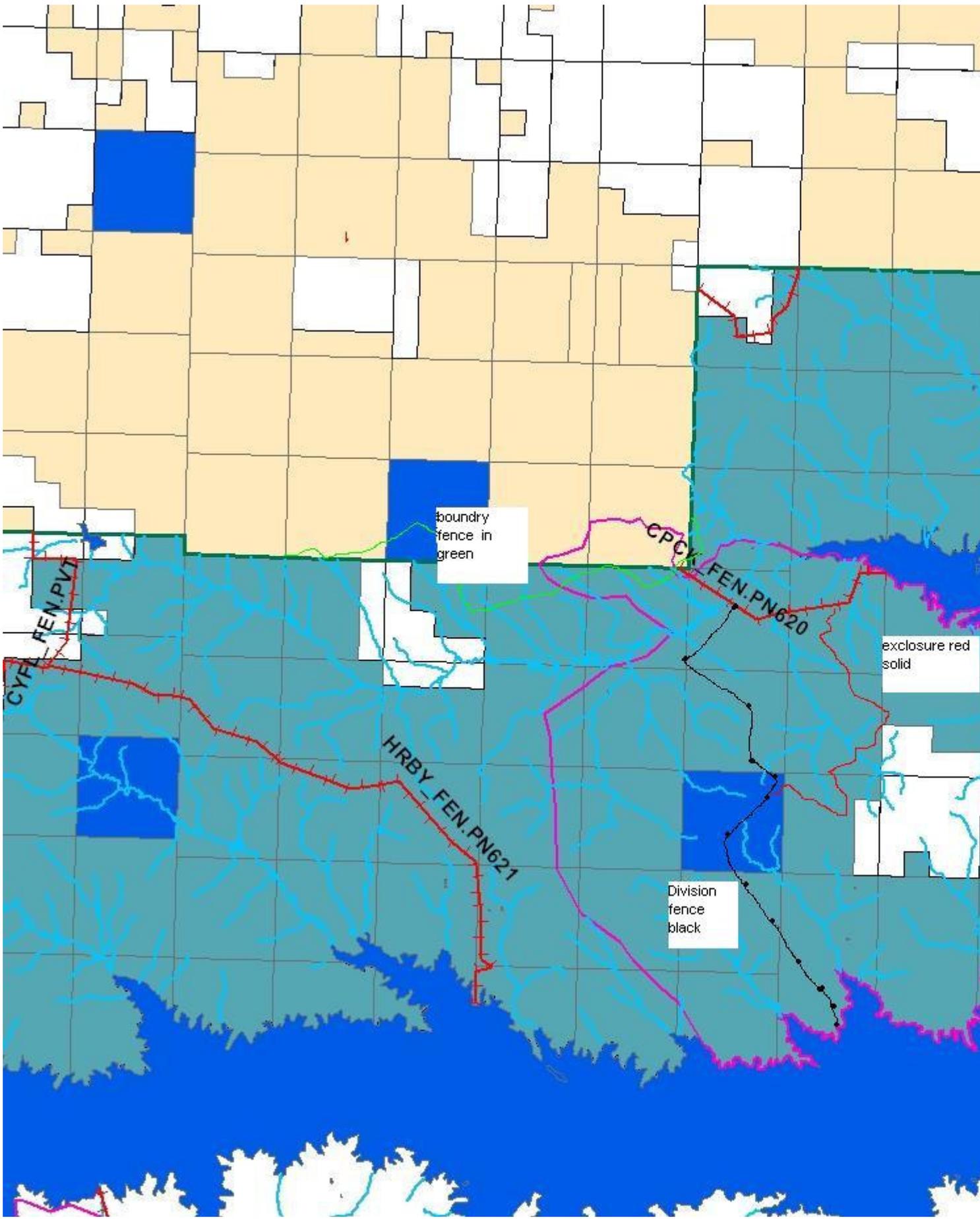












boundary  
fence in  
green

exclosure red  
solid

Division  
fence  
black

CYFL\_FEN.PVT

HRBY\_FEN.PN621

CPCY\_FEN.PN620

## APPENDIX IV –Supporting Documentation

### Black Pulaski Fences damaged and/or destroyed by fire.

Priority rank	Fire	Comments
1	Black Pulaski	<p>Fence Section 3 - Replace 21 set posts and 15 braces.</p> <p>Fence Section 1 - Replace 23 set posts and 14 braces.</p> <p>Fence section 2 – Replace 27 set posts and 18 braces. Fire through this section was extremely hot, wire to be replaced- 0.3 miles x 4 wires=1.2 miles=approximately 5 rolls wire.</p>
2	Lost Creek	<p>Fence section 10 –Replace 10 set posts and 5 braces.</p> <p>Section 7 &amp; 8 - Replace 24 set posts and 14 braces.</p> <p>Section 9 - Completely rebuild 3.5 miles of fence. Estimated need: 8-3 post corners and a minimum of 14 H braces (52 set posts and 30 brace posts), 28 rolls of barbed wire, 14 rolls of smooth wire.</p> <p>Section 11- Replace 32 set posts, and 19 braces. May need to replace some sections of wire.</p> <p>Section 12-Replace approximately 2 miles of fence. The fire burned hot through much of this section. Estimates are 29 wood set posts, and 18 braces.</p>
3	Lodgepole	<p>Fence section 5-Riparian enclosure - short pieces of wire on several sections may have to be replaced, (13 structures, 1 gate, 1 ladder burned), 35 set posts, 22 brace posts, 2 treated 2x12x14' for ladder, 1 gate post and wire.</p> <p>Fence section 6- Most of the fence is still up but some structures require repair/replacement. (15 set posts, 10 braces, 1 gate post and wire)</p>
4	Hill Coulee	Fence section 4 – Replace 41 set posts and 24 braces.
5	Lost Creek	Fence section 13 - Lost Creek enclosure needs repair to four corners and two H braces (16 set posts, 10 brace posts). Wire should survive a few years.
6	Soda Creek	Boundary Fence running North to South – Replace sections of wire as needed, approximately 8 rolls of barb and 4 rolls of smooth wire. Replace 160 set posts and 108 braces.

**Harper's Ridge fence replacement as a result of the "Flat Tire Fire"**

	<b>Miles</b>	<b>Gates</b>	<b>3-post ends</b>	<b>5-post corners</b>	<b>Stress panels</b>	<b>Single woods</b>	<b>4-post corners</b>	<b>Water gaps</b>
<b>Carpenter Creek Fence</b>	3.2	-	4	10	3	-	1	7: 1 type 4 6 type 1
<b>Harper's Ridge Boundary Fence</b>	3.0	1	1	15	5	-	-	2: 2 type 1
<b>Harper's Ridge Division Fence</b>	5.4	2	3	34	4	2	3	3: 1 type 4 2 type 1
<b>Harper's Ridge Exclosure E. Fence</b>	3.3	1	1	18	1	2	1	2: 2 type 1