

Responses to the prompts on this work plan should be typed directly into this template

1. Describe the manner in which the proposal will be implemented to achieve ecological and community economic benefit, including capacity building to accomplish restoration.

Over the next ten years the Missouri Pine-Oak Woodland Restoration (MoPWR) project within the Mark Twain National forest will implement a variety of integrated management activities designed to restore over 88,000 acres of National Forest System lands within the pine and pine/oak-bluestem woodlands of the Current River and Cane Ridge Pinery (management area 1.1). Restoration activities primarily will be thinning to restore stand structure (reduction in basal area, trees per acre and canopy cover) and prescribed fire on a 2 to 5 year return interval.

A five year vegetation management strategy has been developed based on existing NEPA approved activities. Additional NEPA decision are planned over the next 2 to 5 years to authorize another 65,000 acres of restoration treatments within in the MoPWR project area. Integrated activities include cutting and/or removal of small diameter trees.

The Forest will implement the MoPWR project through a combination of Stewardship agreements, IRTC, 6T, IDIQ contracts.

Contracts – through 2016	Acres Treated	Est. Volume	Service work Items
National Wild Turkey Federation SPA Cain Ridge Restoration Project On-going	273	3,518 ccf sawtimber and small round wood	Involves restoration thinning, Road reconstruction and maintenance restoration and decommissioning of old wildlife food plots.
Six Integrated Resource Timber Contracts (Handy Stewardship Project)	2,510	5,271 ccf sawtimber and biomass	Involves 2,000 acres of Understory control, site preparation for natural regeneration and pre-commercial thinning.
Timber Contracts (6T) On-going	8,869	Estimated 14,000 ccf sawtimber	
IDIQ Contract	Potentially up 3,000 acres/year		Acres identified for IDIQ contract thinning will be subject to Stewardship service work completed and small diameter round wood market.
Freemont Stewardship Proposal for SPA	Est 12,000 acres	Est 23,000 ccf sawtimber and est 24,000 tons of biomass removed	Involves restoration thinning of pine and some pine/oak on approximately 12,000 acres.

Planning and NEPA analysis will be completed for the remaining landscape as follows:

Project Area	Expected Decision Date
Fremont	FY 13
NE Corner/Bartlett	FY 16
Possum Trot/Pineknot (Additional)	FY 17

Community benefits will be derived from work contracts and development of a small wood market. The MoPWR Collaborative is seeking businesses that can utilize this wood, or is willing to invest in infrastructure for near-future utilization. This will result in more efficient and effective restoration treatments

2. Anticipated unit treatment cost reduction over ten years:

Performance Measure Code	Average Historic Unit Cost	Cost Reduction per Unit	Assumptions
<p>WTRSHD-RSTR-ANN Acres treated annually to sustain or restore watershed function and resilience. TIMBER-SALES-TRT-AC (Unified), FOR-VEG-IMP (core/partnership), FOR-VEG-EST, S&W-RSRC-IMP, INVPLT-NXWD-FED-AC (core/partnership), HBT-ENH-TERR, HBT-ENH-LAK, RG-VEG-IMP (RBRB only), and FP-FUELS-NON-WUI.</p>	\$130/ac	\$45	
<p>FOR-VEG-EST Acres of forest vegetation established. Activities planned within MoPWR 4431 Full planting without concurrent site prep 4432 Fill-in planting without concurrent site prep 4492 Chemical site preparation for natural regeneration 4493 Other site preparation for natural regeneration 4494 Mechanical site preparation for natural regeneration</p>	Contract cost: Planting \$54/acre	\$5/acre	Assumes that more acres will be accomplished through IRTC, Stewardship Agreements.
<p>FOR-VEG-IMP Acres of forestland vegetation improved. Activities planned within MoPWR 4511 Individual tree release and weeding 4512 Area release and weeding 4521 Precommercial thinning - individual or selected trees 4522 Precommercial thinning - strip 4511 Individual tree release and weeding 4512 Area release and weeding 4521 Precommercial thinning - individual or selected trees</p>	Contract Cost: \$130/acre	\$45/acre	<ul style="list-style-type: none"> • Direct unit cost to agency will be reduced as more acres are included in Stewardship contracts and agreements as service work. • Reliable supply of work leading to increased competition; increased capacity for utilization. • Reduced hazard over the landscape reduces costs and risks associated with prescribed fire.
<p>INVPLT-NXWD-FED-AC Activities planned within MoPWR 2510 Invasive Species Treatment - Pesticide Application 2530 Invasive Species Treatment Mechanical/Physical/Cultural</p>	\$300/acre	\$100/acre	<ul style="list-style-type: none"> • Increased use of volunteers • Increase in amount of invasive treatments as service work completed under stewardship contracts.
INVSPE-TERR-FED-AC	Not Proposed	Not Proposed	
<p>S&W-RSRC-IMP 5100 Watershed Resource Activities 5217 Soil Productivity Improvement 5510 Watershed Resource Non-Structural Improvements Erosion Cont 5520 Watershed Resource Non-Structural Improvements Riparian 5540 Watershed Resource Non-Structural Improvements Maintenance 5550 Watershed Resource Non-Structural Improvements Soil Productivity 5621 Watershed Resource Road Obliteration - Area 5631 Watershed Resource Road Closure - Area</p>	\$750/acre	\$200/acre	<ul style="list-style-type: none"> • Increase use of service work completed under stewardship contracts. • Increase use of challenge cost share agreements
HBT-ENH-STRM	Not Proposed	Not Proposed	
HBT-ENH-TERR	\$130/ac	\$45/ac	Restoration Thinning and Prescribed Fire Activities in MA 1.1 and 1.2 will be counted will be reported
RG-VEG-IMP	Not Proposed	Not Proposed	
RD-HC-MAIN	1,100/yr/mi	165.00	Assumes that maintenance will be accomplished through IRTC, Stewardship Agreements, and 6T contracts for high clearance roads.
RD-PC-MAINT	3,850/yr/mi	575.00	Assumes that maintenance will be accomplished through IRTC, Stewardship Agreements and 6T contracts for passenger cars.
RD-DECOM	1,000/mi	150.00	Assumes that decommissioning will be accomplished through IRTC, Stewardship Agreements, and 6T contracts for high clearance roads.
RD-PC-IMP	Not Proposed	Not Proposed	
RD-HC-IMP	10,000/mi	1,500	Assumes that maintenance will be accomplished through IRTC, Stewardship Agreements, and 6T

			contracts for high clearance roads.
STRM-CROS-MTG-STD	Not Proposed	Not Proposed	
TL-MAINT-STD	Not Proposed	Not Proposed	
TL-IMP-STD	Not Proposed	Not Proposed	
LND-BL-MRK-MAINT	4,500/mi	No Change	Forest may include as a service item in future Stewardship contracts.
TMBR-SALES-TRT-AC			
TMBR-VOL-SLD			
BIO-NRG			
FP-FUELS-NON-WUI	35/acre	\$12/acre	<ul style="list-style-type: none"> • Unit cost estimates for prescribed fire only. • Assumes that large landscapes burn will be completed. • Cost saving is anticipated with private lands included under Wyden Amendment.
FP-FUELS-WUI	35/acre	\$12/acre	<ul style="list-style-type: none"> • Unit cost estimates for prescribed fire only. Anticipate utilizing WFHF for additional mechanical fuel treatments. • Assumes that large landscapes burn will be completed. • Cost saving is anticipated with private lands included under Wyden Amendment.
SP-INV-SPE-FED-AC	100/acre	No Change	
SP- NATIVE –FED-AC	Not Proposed	Not Proposed	

3. Anticipated costs for infrastructure needed to implement project:

Type of Infrastructure	Anticipated Cost	Funding Source (federal, private, etc)
Road Maintenance	1,100/mile	CMRD, Stewardship
Monitoring equipment		
Small industry (manufacture)		
Small industry (transportation)		
Large Industry (manufacture)		
Large Industry (transportation)		

4. Projected sustainability of the supply of woody biomass and small diameter trees removed in ecological restoration treatments:

Fiscal Year	Number of acres to be treated	Projected Green Tons Removed per Acre	Total Green Tons Available
2012	2,065	6	12,390
2013	3,973	6	23,838
2014	12,090	9	108,810
2015	10,718	9	96,462
2016	10,040	9	90,360
2017	9,516	9	85,644
2018	3,508	9	31,572
2019	3,508	9	21,048
2020	7,983	9	71,847
2021	4,475	9	40,275
2022	4,475	9	40,275

Projected 2014 - 2016 Fremont implementation, 2017 – 2019 Northeast Corner and Bartlett implementation; 2020 – 2022 Possum trot and Pineknot implementation.

5. Projected local economic benefits:

Type of projects	Total direct jobs	Total indirect jobs	Total Direct Labor Income	Total Indirect Labor Income
Commercial Forest Products	1.3	2.6	\$63,957	\$123,562
Other Project Activities	8.2	11.6	\$245,532	\$363,199
TOTALS:	9.5	14.2	\$309,489	\$486,761

6. Document the non-Federal investment in the priority landscape:

Source of Investment	Amount of Investment	Description of Use
National Wild Turkey Federation	42,000	Contributions under SPA #10-SA-11090504-022
Central Hardwood Joint Ventures Bird Monitoring	500,000	Ongoing monitoring with partners and volunteers within MoPWR area.

7. Plans to decommission any temporary roads established to carry out the proposal:

Projected accomplishment year (fiscal)	Number of Miles to be Decommissioned
2012	9
2013	9
2014	9
2015	9
2016	9
2017	9
2018	9
2019	9
2020	9
2021	9
2022	9

Any temporary roads established to implement a timber sale are closed by the contractors before the TS are closed. All existing non-system roads identified have the potential of use to carry out the proposal (Prescribed fire and vegetation management). Generally all non-system road are closed and decommissioned unless identified in project level analysis as needed as a system road. There are approximately 167 miles of non-system roads within the project area. It is estimated the approximately 80% will be decommissioned. The Forest is working on a complete inventory and assessment for the project area.