

Yokum School Conservation Area

Ten-Year Area Management Plan FY 2016-2025



Lisa B. Allen
Forestry Division Chief

2-11-16
Date

Yokum School Conservation Area Management Plan Approval Page

PLANNING TEAM

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SOUTHEAST REGION

RCT Chair


Signature

1/21/2016
Date

FORESTRY DIVISION

Forestry Management Chief


Signature

2/16/16
Date

OVERVIEW

- **Official Area Name:** Yokum School Conservation Area, # 6530
- **Year of Initial Acquisition:** 1965
- **Acreage:** 160 acres
- **County:** Wayne
- **Division with Administrative Responsibility:** Forestry
- **Division with Maintenance Responsibility:** Forestry
- **Statements of Purpose:**
 - A. Strategic Direction**

Manage, protect, restore and conserve the area's plants animals and forested communities, while providing compatible public use opportunities.
 - B. Desired Future Condition**

The desired future condition of Yokum School Conservation Area (CA) is a healthy oak-hickory forest that invites public use.
 - C. Federal Aid Statement**

This area, or a portion thereof, was acquired with Pittman-Robertson Wildlife Restoration funds to restore and manage wildlife, conserve and restore suitable wildlife habitat and provide public access for hunting or other wildlife-oriented recreation.

GENERAL INFORMATION AND CONDITIONS

I. Special Considerations

- A. Priority Areas:** Priority Forest Landscape
- B. Natural Areas:** None

II. Important Natural Features and Resources

- A. Species of Conservation Concern:** Species of conservation concern are known from this area. Area Managers should consult the Natural Heritage Database annually and review all management activities with the Natural History Biologist.
- B. Caves:** None
- C. Springs:** None
- D. Other:** Occurs in the Wappapello Oak-Pine Woodland/Forest Hills Landtype Association. This landtype association consists of broad, moderately dissected uplands that give way to steep slopes and ample valleys. Most of the uplands are underlain by the Roubidoux Formation, and the valleys are cut into the Gasconade Formation, leaving highly leached soils that supported extensive pine and pine-oak woodlands, with oak woodlands on protected slopes (Nigh & Schroeder, 2002).

III. Existing Infrastructure

- 1 graveled parking lot
- 1,320 feet of non-elevated woods trail
- 1 fishless pond (0.13 acres)
- 1 primitive camping area

IV. Area Restrictions or Limitations

A. Deed Restrictions or Ownership Considerations: None

B. Federal Interest: Uses of land acquired with federal funds may not interfere with the purpose for which it was acquired. Federal funds may also be used in the management of this land. Fish and wildlife agencies may not allow recreational activities and related facilities that would interfere with the purpose for which the State is managing the land. Other uses may be acceptable and must be assessed in each specific situation.

C. Easements: None

D. Cultural Resources Findings: No known cultural resources.

E. Hazards and Hazardous Materials: None observed.

F. Endangered Species: None observed.

G. Boundary Issues: None

MANAGEMENT CONSIDERATIONS

V. Terrestrial Resource Management Considerations

Yokum School CA contains approximately 160 acres of forested woodland. Woodland management will be directed at maintaining a healthy forested natural community for the plants and animals associated with the area's ecosystem.

The forested Yokum School CA is divided into 17 management units known as "stands." Stand boundaries are assigned based on their topographic position and associated vegetative community.

The forested condition of the Yokum School CA is described in 2006 area forest inventory in Appendix A.

Challenges and Opportunities:

- 1) Manage woodland/forest community

Management Objective 1: Maintain a healthy forest ecosystem by creating a diversity of forest conditions, characteristic of the Wappapello Oak-Pine Woodland Forested Hills.

Strategy 1: Continue to monitor and maintain forest ecosystem health with the Missouri Department of Conservation (Department) Southeast Region's forest inventory cycle in 2021. Complete subsequent management activities as prescribed in the completed forest inventory. In general, uneven age harvests may be used in stands with heavy red oak decline. (Forestry)

Strategy 2: Maintain the 0.5-acre field at the southeast end of stand eight in its present condition of native grass and forb coverage as a unique wildlife habitat type. Use a mix of conservation techniques such as mowing, edge feathering, chemical control, or prescribed fire to control woody vegetation, as needed, to maintain this opening. (Wildlife/Forestry)

Strategy 3: Install erosion prevention best management practices to prevent erosion after management activities according to the *Missouri Watershed Protection Practice 2014 Management Guidelines for Maintaining Forested Watersheds to Protect Streams*. (Forestry)

VI. Public Use Management Considerations

Challenges and Opportunities:

- 1) Provide the public with opportunities to enjoy quality time in the outdoors through hunting, nature viewing and other forest ecosystem related activities.

Management Objective 1: Provide public hunting and viewing opportunities.

Strategy 1: Maintain the existing parking lot/infrastructure, and maintain painted boundary lines, to inform and invite public use. (Forestry)

VII. Administrative Considerations

Challenges and Opportunities:

- 2) Maintain area infrastructure at current levels.

Management Objective 1: Maintain area infrastructure at current levels.

Strategy 1: Maintain area infrastructure in accordance with Department guidelines. (Forestry)

MANAGEMENT TIMETABLE

Strategies are considered ongoing unless listed in the following table:

	FY16	FY17	FY18	FY19	FY20	FY21	FY22	FY23	FY24	FY25
Terrestrial Resource Management										
<i>Objective 1</i>										
Strategy 1						X				

APPENDICES

Background:

The Yokum School CA was purchased by the Department in 1965 as part of a large land acquisition from the University of Missouri.

The area is open to the public and can be accessed from State Highway D in Wayne County. A Department maintained parking lot is located near the south end of the property.

Current Land and Water Types:

Land/Water Type	Acres	% of Area
Forest-Woodland	160	100

Public Input Summary:

The Yokum School Conservation Area Management Plan was available for a public comment period October 1-31, 2015. The Missouri Department of Conservation received no comments during this time period.

References:

Nigh, T. A., & Schroeder, W. A. (2002). *Atlas of Missouri ecoregions*. Jefferson City, Missouri: Missouri Department of Conservation.

Missouri Department of Conservation. (2014). *Missouri Watershed Protection Practice 2014 Management Guidelines for Maintaining Forested Watersheds to Protect Streams*. Jefferson City, Missouri: Missouri Department of Conservation.

Maps:

Figure 1: Area Map

Figure 2: Topographic Forest Stand Map

Figure 3: Soils Map

Additional Appendices:

Appendix A: 2006 Forest Inventory Tables

Figure 1: Area Map

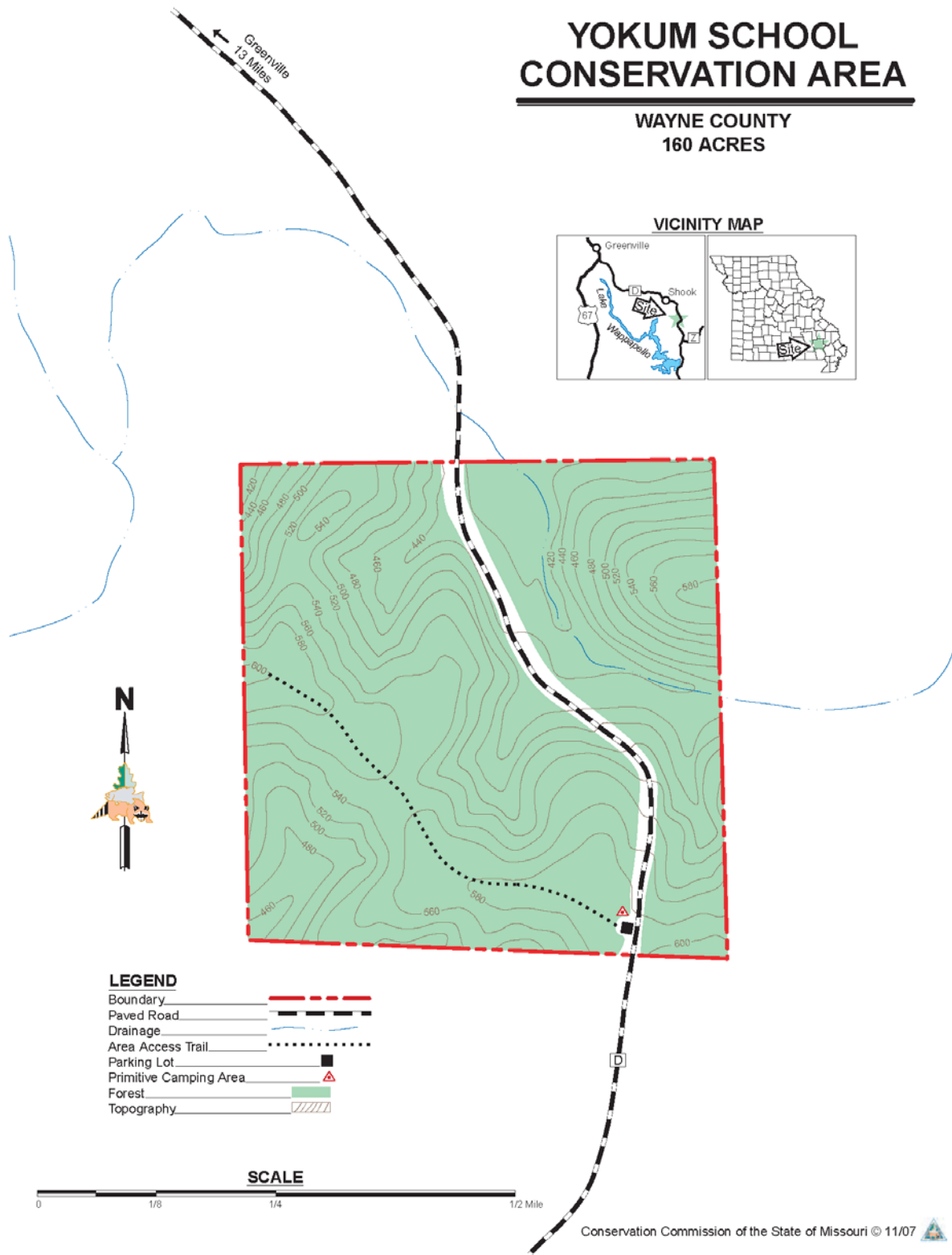


Figure 2: Topographic Forest Stand Map

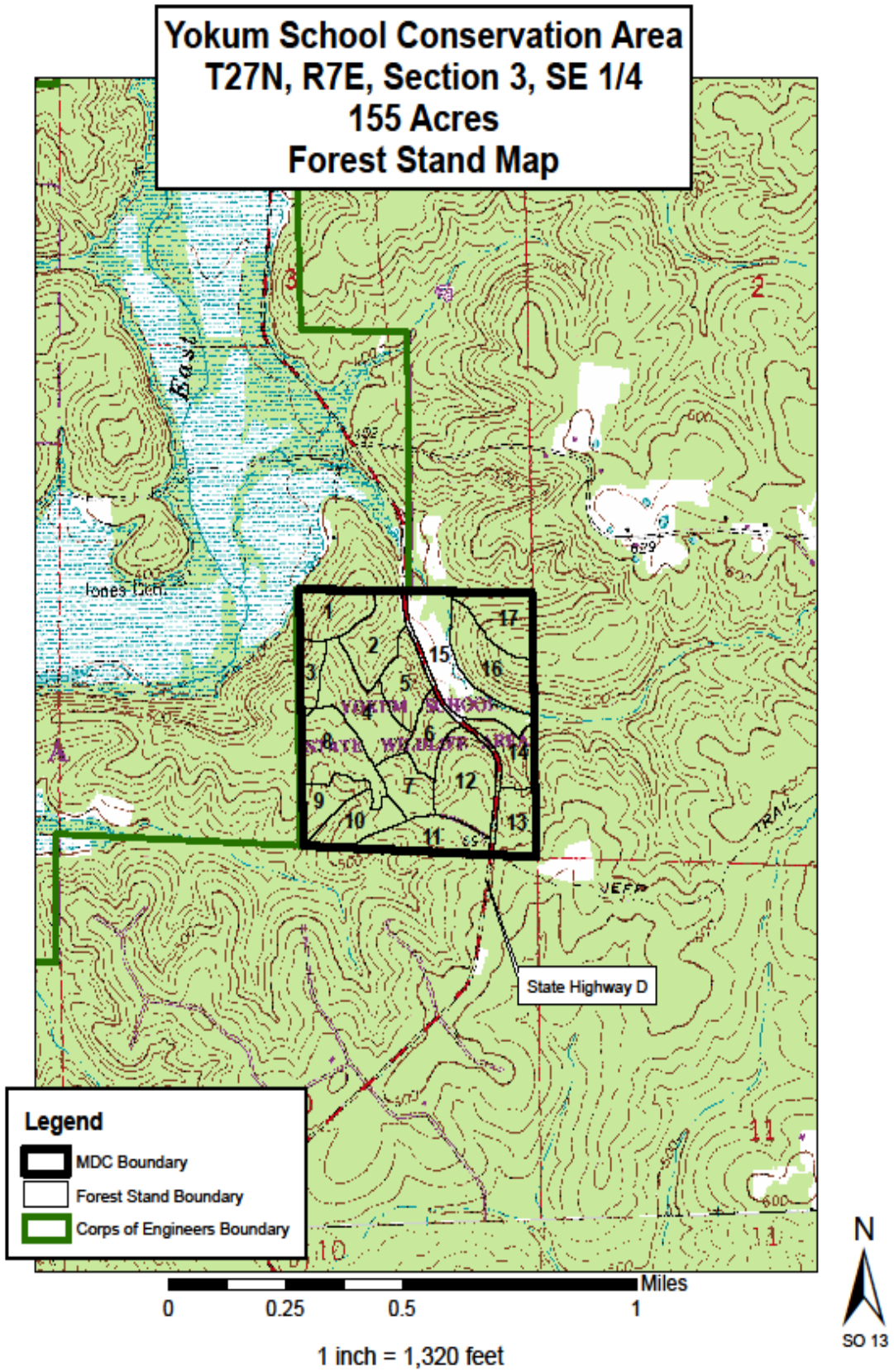
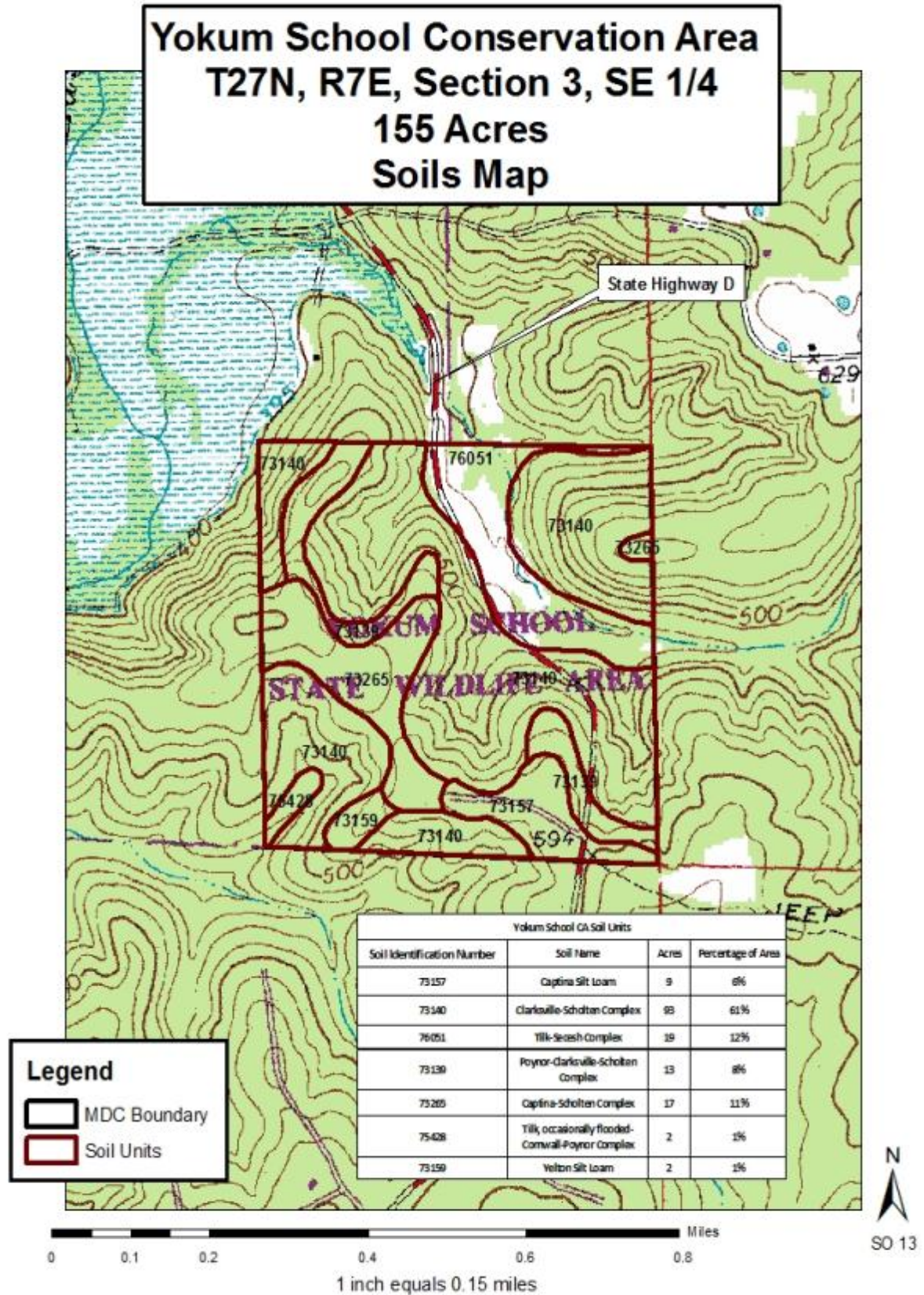


Figure 3: Soils Map



Appendix A: 2006 Forest Inventory Tables

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STAND INFORMATION SUMMARY

STAND	# PLOTS	TOTAL BA	TOTAL MBRCH BA	TOTAL AGS BA	B LVL	C LVL	BA TO REMV	% STOCK	MBF ACRES	AVG DIA	T2/AC	< 9" CAV	10-18" CAV	19"+ CAV	< 9" SNAGS	10-18" SNAGS	19"+ SNAGS	SP1	SP2	SP3	SP4	SP5	COVER TYPE
1	3	133.3	90.0	103.3	64	50	69	121.0	9.4	9.1	292	0	0	0	0	14	0	837	400	835	824	602	BSD
2	4	87.5	60.0	70.0	66	51	22	77.0	6.3	9.9	163	0	0	0	36	12	0	802	837	400	694	318	WBO
3	2	110.0	75.0	90.0	63	49	47	101.0	7.3	8.7	268	0	0	0	0	9	0	400	837	318	521	544	OAH
4	5	90.0	46.0	70.0	64	49	26	82.0	4.9	9.0	204	0	0	0	0	7	0	837	400	802	544	318	BSD
5	3	96.7	56.7	86.7	63	49	34	89.0	5.8	8.7	231	0	0	0	0	3	0	400	837	802	694		OAH
6	2	120.0	60.0	100.0	57	44	63	121.0	6.3	6.7	497	0	0	0	0	0	0	802	400	812	837	621	WBO
7	2	120.0	85.0	110.0	64	50	56	100.0	9.2	9.3	256	0	0	0	0	8	0	400	802	837	806	812	WBR
8	2	85.0	0.0	45.0	34	26	51	147.0	8.0	2.1	3379	0	0	0	0	0	0	837	400	762	835	317	BSD
9	2	95.0	70.0	85.0	65	51	30	84.0	6.8	9.7	184	0	0	0	26	11	0	802	400	835			WBO
10	2	120.0	45.0	90.0	56	44	64	124.0	4.5	6.3	553	0	0	0	229	0	0	802	400	837			WBO
11	3	136.7	66.7	136.7	67	52	70	118.0	8.4	10.6	222	0	0	0	0	0	1	110					SLP
12	4	142.5	82.5	117.5	58	45	85	143.0	8.5	6.9	556	0	0	0	0	2	0	400	802	835	837	833	WBR
13	2	120.0	45.0	70.0	51	40	69	136.0	4.8	4.9	906	0	0	0	0	0	3	400	802	837	970	835	WBR
14	3	103.3	63.3	76.7	61	47	42	98.0	6.3	8.0	298	0	0	2	0	3	0	400	802	833	544	694	WBR
15	4	90.0	45.0	47.5	62	48	28	85.0	3.4	8.2	246	0	0	0	13	0	0	318	611	602	970	802	WAB
16	4	107.5	65.0	60.0	63	49	45	99.0	6.0	8.7	261	0	5	1	20	0	0	837	400	833	806	835	BSD
17	3	140.0	93.3	96.7	66	51	74	124.0	9.9	9.8	267	0	0	0	0	0	0	837	806	400	802	833	BSD

*** Total ***

50

Date: 06/21/06
File: YKMS.DBF

MISSOURI DEPARTMENT OF CONSERVATION
STAND PRESCRIPTION SUMMARY

STAND	DFC	CULT WORK	PREP SIZE	FUT SIZE	SITE CLASS	I STOCK	ACRES	LTA ELT	COV TYPE	COV OBJ	NOTES
1	U	L	S	S	4	121	8	09	BSO	BSO	slightly overstocked with good mix of oak; leave for now
2	U	L	S	S	3	77	10	09	WHO	WHO	good stand of mostly white oak small sawtimber
3	U	L	SS	SS	3	101	4	09	OAH	OAH	thinned in 1993. Mostly hickory SS.
4	U	L	SS	SS	3	42	14	09	BSO	BSO	thinned 1993. Black oak, hickory, white oak SS and LP
5	U	L	S	S	3	89	8	09	OAH	OAH	thinned 1993. Hickory and oak SS and LP
6	U	L	S	S	3	121	6	09	WHO	WHO	good quality white oak SS; maple dense in understory
7	U	L	S	S	3	108	6	09	WBR	WBR	good white oak, black oak SS
8	U	L	R	R	3	147	12	09	BSO	BSO	clearcut 1993. hickory, 762, and some oak ST
9	U	L	SS	SS	3	44	6	09	WHO	WHO	good white oak SS
10	U	L	S	S	3	124	8	09	WHO	WHO	good white oak sawtimber
11	U	L	LP	LP	3	118	9	09	SLP	SLP	pine plantation, thinned 2003
12	U	L	S	S	3	143	13	09	WBR	WBR	good white oak and red oak mixture sawtimber and LP
13	U	L	S	S	3	136	7	09	WBR	WBR	mixed oak and hickory poles with scattered sawtimber
14	U	L	S	S	3	98	7	09	WBR	WBR	oak and hickory pole and sawtimber
15	U	L	LP	LP	3	85	15	09	MAB	MAB	small bottom with maple, sycamore, black walnut SP
16	U	UAMC	SS	SS	3	99	13	09	BSO	BSO	UAMC to remove red oak declining or at risk of decline
17	U	UAMC	S	S	3	124	9	09	BSO	BSO	UAMC to remove mature and declining red oak sp.

Total number of stands = 17 Total acres = 155