

# Appendix C

## TABLES

**Table C - 1. Crosswalk of Forest Type\* Groups for the DBNF Plan**

Group Name	Source of Grouping		
	Old-Growth Analysis	Viability Analysis	SPECTRUM Analysis
Conifer/N. Hdwd.	3,4,5,8,9,10	8,9,10,42	
W. Pine/Hemlock		3,4,5	3,4,5,8,9,10
Mixed Mesophytic	41,50,56,81	41,50,56,81	
Mixed Mesophytic/Floodplain			41,50,56,58,61,71,72,74,75,81,82,88
River Flood plain Hdwd.	46,58,71,72,75	Riparian Assoc.	
Eastern River Front	74,82	Riparian Assoc.	
Dry-Mesic Oak	42,51,52,53,54,55	51,53,54,55	
Xeric-Mesic Oak			42,43,51,52,53,54,55,59,60
Dry-Xeric Oak	43,52,59,60	52,59,60	
Dry-Xeric Redcedar Oak		11,35,43	
Mixed Oak/Yellow Pine			44,45,46,47,48
Dry-Mesic Oak-Pine	31,44,45,47,48		
Dry-Xeric Mixed Pine & Oak		16,45	
Dry-Mesic Mixed Pine & Oak		12,13,15,44,46,47,48	
(Xeric) Pine & Pine-Oak	12,13,15,16,20,32,33,38		11,12,13,15,16,17,31,32,33,35,38
Yellow Pine		31,32,33,38	

\* See Silvicultural Examination and Prescription Field Book (USDA Forest Service 1992) for Forest Type codes.

Activities displayed in Table C - 2.a. and Table C - 2.b. reflect budget allocations expected for the natural resource management program areas, based upon a constrained budget of no more than 10% increase over the planning period (2000-2001 base years). Additional activities can occur if a budget greater than the constrained budget is provided.

**Table C – 2.a. Estimated Timber Program and Allowable Sale Quantity, DBNF**

Item	Unit	Amount, (1st Decade)
Total Timber Sales (Program Quantity)	MMCF <sup>1</sup>	22.9
Allowable Sale Quantity (ASQ)	MMCF	21.9
Harvest Area (Suitable Timberland)	Acres	18,750

<sup>1</sup> Million Cubic Feet

Table C - 2.b. Planned Annual Schedule of Activities and Improvements<sup>1</sup>

Activities	Units	10-Year										LT Objective	LT Source	
		2004	2005	2006	2007	2008	2009	2010	2011	2012	2013			Objective
<b>VEGETATION MANAGEMENT</b>														
Total Timber Sales (Program Quantity)	MMCF	2,29	2,29	2,29	2,29	2,29	2,29	2,29	2,29	2,29	2,29	2,29	n/a	Spectrum est.
Timber Harvest Area <sup>2</sup>	Acres	1,553	1,553	1,553	1,553	1,553	1,553	1,553	1,553	1,553	1,553	1,553	18,750	1.K.1.A., 3.H.1.A.
Reforestation-Yellow Pine (all)	Acres	822	822	822	822	822	822	822	822	822	822	822	8,200	1.K.2.E.
Total Reforestation	Acres	2,353	2,353	2,353	2,353	2,353	2,353	2,353	2,353	2,353	2,353	2,353	42,000	1.K.2 & 1.1.F.
Wooded Grassland Established-Pine	Acres	100	0	0	0	0	0	0	0	0	0	0	100	1.K.2.C.
Wooded Grassland Established-Hdwd.	Acres	60	60	60	60	60	60	60	60	60	60	60	600	1.K.2.I.
Woodland Established-Pine	Acres	50	50	50	50	50	50	50	50	50	50	50	500	1.K.2.E.
Woodland Established-Hardwood	Acres	610	610	610	610	610	610	610	610	610	610	610	6,100	1.K.2.K.
Thinning-Forest (60BA) <sup>3</sup>	Acres	900	900	900	900	900	900	900	900	900	900	900	5%	1.K.1.D.
Thinning Overstocked Forest	Acres	*	*	*	*	*	*	*	*	*	*	*	*	All >80% stock
Pitch Pine Restoration	Acres	300	300	300	300	300	300	300	300	300	300	300	3,000	2.1.A.
Upland White Pine Plantations-Conversion	Acres	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	1.1.D.
Total Prescribed Burn Acres	Acres	15,000	19,000	23,000	27,000	31,000	35,000	39,000	43,000	47,000	50,000	50,000	50,000	EIS, Table 3-15
Maintain Openings (1600 ac./3years)	Acres	533	533	533	533	533	533	533	533	533	533	533	1,600	1.K.1.B
<b>WATER SOURCES</b>														
Significant Indiana Bat Cave Areas	structures	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	1/5 mi.	1.2.B.
<b>SPECIAL COMMUNITIES</b>														
Open Canopy Developed (uneven-aged)	Acres	107	107	107	107	107	107	107	107	107	107	107	107	1075[1%]
Fixed Shrub Openings	Acres	107	107	107	107	107	107	107	107	107	107	107	107	1075[1%]
Canebrakes Developed	Acres	107	107	107	107	107	107	107	107	107	107	107	107	1075[1%]
Canebrakes Maintenance	Acres	107	107	214	321	428	535	642	749	856	963	963	963	963
<b>WATERSHEDS</b>														
Watershed Improvement	Acres	120	120	120	120	120	120	120	120	120	120	120	760	1.E.3.A.,3.B.
<b>RECREATION</b>														
Non Motorized Trails Established	Miles	6	2	2	2	2	2	2	2	2	2	2	0	0
Trails Maintained (BMPs) <sup>4</sup>	Miles	126	130	132	134	137	137	137	137	137	137	137	685	12.1.B
Inventory & address user developed trails	Miles	20%	20%	20%	20%	20%	20%	0	0	0	0	0	100%	12.1.C
OHV trails (constructed)	Miles	15	15	6	6	6	6	6	6	6	6	6	60	EIS, Table 3-4
<b>ROADS (SYSTEM)</b>														
Construct (Redbird District)	Miles	2	2	2	2	2	2	2	2	2	2	2	20	Estimate
Repair or decommission	Miles	15	15	15	15	15	15	15	15	15	15	15	150	12.0.A.
<b>INTEGRATED INVENTORY</b>														
Forest Inventory	Acres	66,400	66,400	66,400	66,400	66,400	66,400	66,400	66,400	66,400	66,400	66,400	663,682	1.G.2.A & ch.5.#2
Assess Rare Communities	Acres	120	120	120	120	120	120	120	120	120	120	120	~1200	1.G.2.A.
Assess Designated O.G. Areas	Acres	1,533	1,533	1,533	1,533	1,533	1,533	1,533	1,533	1,533	1,533	1,533	15,331	EIS, Table 3-6
Assess Possible O.G. Areas	Acres	1,800	1,800	1,800	1,800	1,800	1,800	1,800	1,800	1,800	1,800	1,800	18,033	Preliminary Inv.
Heritage Inventory	Acres	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	5,000	50,000	6.3.A
Heritage Site Evaluation	Sites	10	10	10	10	10	10	10	10	10	10	10	100	6.4.A.
<b>LAND ACQUISITION</b>														
Acquisition (10 yr. historic mean)	Acres	~2900	~2900	~2900	~2900	~2900	~2900	~2900	~2900	~2900	~2900	~2900	~2900	13.2.A.

<sup>1</sup> Based upon Constrained EIS Budget, 1st Period.

<sup>2</sup> Includes 1K Harvest (cliff/bat/rip/0-10 bug removed) and grouse areas (3H = 8744 ac., with cliff/bat/riparian removed).

<sup>3</sup> 5% of area thinned to 60BA [cliff/bat/rip/0-10 bug removed].

<sup>4</sup> Estimates of annual thinning as a result of this objective could range from 0 to 1000 acres, based on future inventories, site-specific needs, and other factors.

**Table C - 3. Summary of Allocations in Acres**

<b>Semi-primitive Non-motorized</b>	20,811
<b>Semi-primitive Motorized</b>	13,875
<b>Roaded Natural</b>	617,331
<b>Rural</b>	41,623
<b>Urban</b>	88
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<b>Scenic Integrity Objective</b>	
<b>Very High</b>	22,876
<b>High</b>	236,740
<b>Medium</b>	24,752
<b>Low</b>	395,375
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<b>1.A. Research Natural Area</b>	658
<b>1.C Cliffline Community Area Total/Without</b>	111,205/ 102,029
<b>1.E. Riparian Aquatic Area Total/Without</b>	155,379/ 141,326
<b>1.G. Rare Community</b>	1,200
<b>1.I Old-growth (Total/Without riparian &amp; cliff)</b>	15,300/ 10,420
<b>1.J. Significant Bat Caves</b>	6,115
<b>1.K. Habitat Diversity Area</b>	375,891
<b>2.A. Clifty Wilderness</b>	12,646
<b>2.B. Beaver Creek Wilderness</b>	4,791
<b>3.A. Developed Recreation Area (existing)</b>	3,700
<b>3.B. Large Reservoirs</b>	30,673
<b>3.C.1 Red River Wild Segment Nat'l W&amp;S River</b>	683
<b>3.C.2 Proposed W&amp;S River: Marsh Creek Wild</b>	1,244
<b>3.C.3. Red River Recreational W&amp;S River</b>	1,440
<b>3.C.4. Proposed W&amp;S River: Cumberland River, War Fork Creek, Rockcastle River, Rock Creek- Scenic and Recreational Rivers</b>	5,622
<b>3.C.5. Proposed Wild and Scenic River: Rock Creek and Marsh Creek Recreational Rivers</b>	6,184
<b>3.E. Red River Gorge Geological Area (Prescription w/o Wilderness/Total Area Acres)</b>	16,042 / 29,298
<b>3.F. Natural Arch Scenic Area</b>	1,065
<b>3.H.2. Ruffed Grouse Management Area</b>	10,535
<b>5.A. Communication Sites</b>	20
<b>5.C. Source Water Protection Area Zone1/Zone2</b>	34,015

**Table C - 4. Timberland Suitability<sup>1</sup> Classification, Daniel Boone National Forest**

Priority <sup>2</sup>	Land Use / Prescription	Land Class Code <sup>3</sup>	Acres	Total Acres
1	Water	100-199	17,916	
2	Roads	230	8,704	
3	Railroads	230	66	
4	Admin/Recreation Sites & Other Non-forest	200-219, 260	2,081	
5	W/L Openings	250-259	1,922	
6	Utilities	220	1,231	
	<b>Total Stage 1 - Non-forest land</b>			<b>31,920 (4.6%)</b>
7	*Wilderness (Clifty & Beaver Creek)	350	16,692	
8	*RNA (Rock Creek)	330	189	
9	*Wild & Scenic River (Wild)	310	76	
10	Wild & Scenic River (except Wild)	310	1,181	
11	Scenic Area (Natural Arch)	310	1,052	
12	Geological Area (Red River Gorge)	340	15,725	
13	Forest land not Capable of Adequate Growth	900	275	
14	Forest land where Technology is Lacking	700	1,246	
	<b>Total Stage 1 – Unsuitable forest</b>			<b>36,465 (5.3%)</b>
15	*RNA Proposed (Elisha Cr. <sup>4</sup> )	430	161	
16	*Wild & Scenic River – Proposed (Wild)	410	1,194	
17	Wild & Scenic River – Proposed (ex. Wild)	410	11,042	
18	Rare Communities (1G)	820	858	
19	Significant Bat Cave Zone (1J)	803	5,260	
20	Cliffline (1C),	803	95,538	
21	Water Protection (300' of 5B, all in above Rx's)	820	0	
22	Designated Old-growth (1I)	820	12,141	
23	Forest around Rec.& Admin. Areas (3A)	850	2,091	
24	300' Lake Management Zone (3B)	851	10,319	
25	Riparian Area (1E) (ex. # 28 below)	820	93,269	
26	Wooded grassland (long-term objective)	820	18,375	
27	Economically unsuitable lands	821-827	7,010	
28	Grassy openings to create	(250)	278	
	<b>Total Stage 3 - Unsuitable forest</b>			<b>257,536 (37.1%)</b>
27	Water Protection (5B – except Zone 1 buffer)	660	15,020	
28	Riparian Uneven-aged (2% of Rx)	660	2,757	
29	Grouse Management Area (3.H.2)	630	8,156	
30	Habitat Diversity Area (1K)	650	341,872	
	<b>Total Suitable forest</b>			<b>367,805 (53.0%)</b>
	<b>Total National Forest System, DBNF 1998</b>			<b>693,726 (100 %)</b>

<sup>1</sup> Lands considered suitable are those where scheduled timber harvest is an objective. Harvesting of trees may occur on any NFS lands except those marked with an asterisk (\*).

<sup>2</sup> Where overlap of classification occurs, lower numbers have priority, e.g., water is removed from Wilderness.

<sup>3</sup> Codes in Silvicultural Examination and Prescription Handbook - 2409.26d

<sup>4</sup> Proposed Tight Hollow RNA included in Red River Gorge acres.

**Table C - 5. Scenic Integrity Objectives (SIO) By Prescription Area**

<b>Prescription Area</b>	<b>SIO*</b>	<b>Acres<sup>1</sup></b>
<b>1.A. Research Natural Area<sup>2</sup></b>	H	658
<b>1.C. Cliffline Community</b>	H	100,994
<b>1.E. Riparian Aquatic</b>	H	135,408
<b>1.G. Rare Community<sup>3</sup></b>	H	1,200
<b>1.I. Old-growth</b>	H	253
	M	7,182
	L	7,856
<b>1J. Significant Bat Caves</b>	H	294
	M	1,478
	L	3,777
<b>1.K. Habitat Diversity</b>	H	38
	M	10,678
	L	380,382
<b>2.A. Clifty Wilderness</b>	VH	11,985
<b>2.B. Beaver Creek Wilderness</b>	VH	4,816
<b>3.A. Developed Recreation Area (existing)<sup>4</sup></b>	M	3,700
<b>3.B. Large Reservoirs</b>	H	30,673
<b>3.C.1 &amp; 3.C.3 Red River Nat'l W&amp;S River</b>	VH	2,123
<b>3.C.2 Proposed W&amp;S Rivers: Wild segments</b>	VH	1,244
<b>3.C.4. Proposed W&amp;S River: Scenic segments</b>	H	5,622
<b>3.C.5. Proposed W&amp;S River: Recreation segments</b>	H	6,184
<b>3.E. Red River Gorge Geological Area</b>	VH	15,751
<b>3.F. Natural Arch Scenic Area</b>	VH	1,065
<b>3.H.2. Ruffed Grouse Management Area</b>	M	31
	L	10,504
<b>5.A. Electronic Sites<sup>5</sup></b>	M	20
<b>5.B. Source Water Protection Area Zone 1 / Zone 2</b>	M	6,343
	L	13,130
<b>Total Scenic Integrity Objective Acres</b>	VH	22,876
	H	236,740
	M	24,752
	L	395,375

\*The Scenery Management System inventory may need refining and updating as conditions warrant. This normally will be done during project design and field analysis. Conditions that could typically warrant a change in the inventoried scenic class, which could result in an adjustment to the scenic integrity objective, are:

- Changes in "scenic attractiveness" classification
- Changes in "viewer location" and "concern level"
- Changes in "seen area" mapping"

<sup>1</sup> Total National Forest System land in GIS system, except as noted. Acres may not sum because prescription areas overlap.

<sup>2</sup> Total existing and proposed acres/ Rock Creek RNA existing acres

<sup>3</sup> Of the 1,200 acre estimate for Rare Community, about 1,100 acres have been mapped as of 2002.

<sup>4</sup> Obtained from inventory table.

<sup>5</sup> Obtained from inventory table.

**Table C - 6. Desired Habitat Components in the Habitat Diversity Prescription Area (acres)**

Habitat Condition	Licking Mgt. Area (MA)	Middle Kentucky Mgt. Area	Upper Cumberland Mgt. Area	Upper Kentucky Mgt. Area	Total <sup>1</sup>	Decade to Reach total <sup>2</sup>
Early-age forest (0-10 years old)	5% of each 5 <sup>th</sup> level HUC <sup>3</sup>	5% of each 5 <sup>th</sup> level HUC	5% of each 5 <sup>th</sup> level HUC	5% of each 5 <sup>th</sup> level HUC	18800	1st
Permanent grassy (or shrubby) openings	0.07% of MA	0.05% of MA	0.2% of MA	0.08% of MA	1600	1st
≥70 yr old forest with vertical structure	30% of each 5 <sup>th</sup> level HUC	30% of each 5 <sup>th</sup> level HUC	30% of each 5 <sup>th</sup> level HUC	30% of each 5 <sup>th</sup> level HUC	112800	1st
60-70 BA forest	5% of each 5 <sup>th</sup> level HUC	5% of each 5 <sup>th</sup> level HUC	5% of each 5 <sup>th</sup> level HUC	5% of each 5 <sup>th</sup> level HUC	18800	1st
≥60 year old forest with dense shrub/sapling layer, no midstory	10% of each 5 <sup>th</sup> level HUC	10% of each 5 <sup>th</sup> level HUC	10% of each 5 <sup>th</sup> level HUC	10% of each 5 <sup>th</sup> level HUC	36000	1st
Hemlock-white pine forest	unknown <sup>4</sup>	unknown	unknown	unknown	2900-3100	1st
Conifer-northern hardwood forest	unknown	unknown	unknown	unknown	2600-2800	1st
Beech forest	unknown	unknown	unknown	unknown	3300-3600	1st
Dry-mesic oak forest	unknown	unknown	unknown	unknown	120000-160000	1st
Dry-xeric oak forest	unknown	unknown	unknown	unknown	18000-22000	1st
Yellow pine restoration/maintenance	4000	6000	31600	400	36000-48000	5th
Yellow pine dominated wooded grassland/shrubland	370	1100	0	5880	6300-8400	10th
Yellow pine dominated woodland	740	2200	0	11760	12600-16800	10th
Yellow pine dominated forest >20 years old	unknown	unknown	0	unknown	17100-22800	6th
Oak dominated wooded grassland/shrubland	1680	1680	2800	5040	8700-13650	5th
Oak dominated woodland	6600	6000	11000	19800	37800-50400	3rd
Oak dominated forest, open midstory, well-developed herbaceous, low shrub layer; fire maintained	unknown	unknown	unknown	unknown	31500-42000	1st
Ponds <sup>5</sup>	unknown	unknown	unknown	unknown	unknown	unknown

<sup>1</sup>This is the total of acres to be reached by the specified decade, and thereafter maintained across the Forest in this Prescription Area. Acres may occur in more than one category and totals are not additives.

<sup>2</sup>A specified decade is the decade in which the total is first reached; thereafter, the total is maintained decade to decade.

<sup>3</sup>Percentages indicate the means by which the total acres are allocated. Percentages indicated are of either 1) the total I.K. Prescription Area within each 5<sup>th</sup> level HUC (watershed) or 2) the total I.K. Prescription Area within the Management Area.

<sup>4</sup>[unknown] indicates the habitat condition is not specifically allocated by Management Area. The total figure on the Forest is the desired condition. Distribution is based on ecological capability across the Forest.

<sup>5</sup>The distribution of ponds is based on ecological capability and site-specific habitat needs, and the total needed for the Forest is unknown.