Economic Analysis

Cherokee National Forest
Compartment Prescription/Position Statement
Summary Of Activities

Compartments: 66,67,68,71,72,73

I. Sale Activities

Stand Number	Alternative	Forest Type	Rx[1]	Acres	SAW CCF	PULP CCF	Total CCF	Total Stumpage Value/Stand[2]
68/12	C	53	SWR	23	18	7	575	$33,637
66/40	B	53	SWR	39	4	4	312	12,675
67/2	B,C	53	SWR	30	9	2	330	21,937
67/7	B,C	41	SWR	10	9	2	110	5,850
67/18	B,C	53	SWR	40	12	5	680	39,000
68/5	B	60	SWR	40	8	3	440	20,320
68/30	B	60	SWR	39	4	3	273	9,906
69/11	C	60	SWR	40	7	4	440	17,780
69/35	C	53	SWR	35	18	7	875	51,187
71/1	B,C	53	SWR	37	7	2	333	21,044
71/8	B,C	53	SWR	36	11	3	504	32,175
72/15	B,C	55	SWR	40	8	3	440	41,600
73/17	B,C	60	SWR	40	6	1	280	15,240
68/13	C	60	Thin	8	9	4	104	4,572
69/12	C	53	Thin	48	9	4	624	35,100
69/14	C	60	Thin	48	9	4	624	27,432
69/15	C	53	Thin	27	9	4	351	19,743
69/17	C	53	Thin	40	9	4	520	29,250
69/37	C	60	Thin	33	9	4	429	18,859
Total Alt B				**351**			**3702**	**$219,747**
Total Alt C				**535**			**7219**	**$414,406**

[1] SWR- Shelterwood with Reserve
[2] Stumpage Values by Forest type
41 = $65.00/CCF
53 = $81.25/CCF
55 = $130.00/CCF
60 = $63.50/CCF

Metric	Alt B	Alt C
Average Stumpage ($/acre)	$626	$774
Average Value ($/ccf)	$59	$57

II. Roading Activities

Pre-haul maintance	Road #	FDR 316	Pre-haul maintance		Miles Cost$	$3,155
Pre-haul maintance	Road #	FDR 316A	Pre-haul maintance		Miles Cost$	$2,591
Pre-haul maintance	Road #	FDR 5081	Pre-haul Maintance		Miles Cost$	$11,390
Pre-haul maintance	Road #	FDR 60682	Pre-haul Maintance		Miles Cost$	$1,268
Pre-haul maintance	Road #	Temp road Comp 69 Thin stands-Alt C	Construction Cost	$11000	Miles Cost$	$11,000

Total ALT B: $18,404.00
Total ALT C: $29,404.00

III. Required Post Harvest Regeneration Treatments

Comp/stand#	Treatment	Acres	Regeneration Inspection/Funding/Cost per acre	Site Preparation for Natural Regenation/Funding/Cost per acre
66/40	SWR	39	KV - $7.00	KV - $122.00
67/2	SWR	30	KV - $7.00	KV - $122.00
67/7	SWR	10	KV - $7.00	KV - $122.00
67/18	SWR	40	KV - $7.00	KV - $122.00
68/5	SWR	40	KV - $7.00	KV - $122.00
68/30	SWR	39	KV - $7.00	KV - $122.00
71/1	SWR	37	KV - $7.00	KV - $122.00
71/8	SWR	36	KV - $7.00	KV - $122.00
68/12	SWR	32	KV - $7.00	KV - $122.00
72/15	SWR	40	KV - $7.00	KV - $122.00
73/17	SWR	40	KV - $7.00	KV - $122.00
69/11	SWR	40	KV - $7.00	KV - $122.00
69/35	SWR	40	KV - $7.00	KV - $122.00

IV. Economic Evaluation

Economic Comparison[1]	Alternatives		
	A	B	C
Timber Volume, Total (CCF)	0	3702	7219
Volume, Per Acre (CCF)	0	10.5	13.5
Stumpage Value, Per Acre	$0.00	$59	$57
Stumpage Value, Total	$0.00	$219,747	$414,406
Road Activity Costs - Total	$0.00	$18,404	$29,404
Post Harvest Regeneration Inspection - Total	$0.00	$2,457	$2,317
Post Harvest Site Preparation for Natural - Total	$0.00	$42,822	$40,382
Sale Preparation/Marking Costs - Total	$0.00	$92,550	$180,475
Sale Administration Costs - Total	$0.00	$37,020	$72,190
Economic Efficiency Timber Sale Value	$0.00	$26,494	$89,638

[1] Use the following figures to calculate Net $$$ (used 0.55 conversion for MBF to CCF):

Road Activity Costs = road pre-haul maintance actual estimate plus design & admin. per mile
Post Harvest Reneneration Inspection = $7.00 per acre
Post Harvest Site Preparation for Natural Regeneration = $122.00 per acre
Sale Prep/Marking = $25.00 per CCF
Sale Admin = $10.00 per CCF

Economic Efficiency Assumptions: The above economic efficiency table presents the costs and benefits associated with the alternatives. The values presented are estimates based on the most recent stumpage and unit cost estimates of activies on the forest. The numbers given do not represent exact numbers that will be utilized during actual project implementation, but rather show the relative change between alternatives for comparison purposes.