Strategy Worksheet ***Cove Forest*** *102,977 acres* 100000

Enter percentages from "Final Conditions" as a whole number

Vegetation Class (describe) *type x in left box if high-risk*	**NRV**	**Current Condtion**	**No mgmt 20 yrs high fire suppression**	**Max ecological mgmt**	**Fire only mgmt (n/a)**	**Mechanical only mgmt**	**ROI mgmt**	**-**
A - Early	4%	1%	3%	5%		5%	4%	
B - Mid Closed	30%	75%	60%	60%		60%	59%	
C - Late Open	7%	1%	2%	4%		4%	5%	
D - Late Closed	21%	15%	23%	21%		21%	21%	
G - Old Growth Closed	38%	6%	10%	10%		10%	10%	
U- White Pine		2%	2%	0%		0%	2%	
Ecological Departure		**47**	**34**	**31**	**-**	**31**	**30**	**-**
Total Cost			$ -	$ 1,080,000	$ -	$ 1,080,000	$ 240,000	$ -
ROI (vs. Min. Mgmt)				0.3	-	0.3	1.7	-

	Enter Notes	**Enter Management Strategies, Number of Acres/Year, Costs & Number of Years**					
Scenarios (enter name below)	**Notes**	Gap Harvest + Thinning (comm)	Regen Harvest (comm)	Harvest-Restore + Plant (comm)			
No mgmt 20 yrs high fire su							
Max ecological mgmt		**200**		**200**			
Fire only mgmt (n/a)							
Mechanical only mgmt		**200**		**200**			
ROI mgmt		**200**					
Cost of Strategy (per acre)		$ 60	$ 50	$ 210			
Number of Years		20	20	20			

Strategy Worksheet | ***Dry Oak Forest*** | *65,881 acres*

Enter percentages from "Final Conditions" as a whole number

Vegetation Class (describe) *type x in left box if high-risk*	NRV	Current Condtion	No mgmt 20 yrs high fire suppression	Max ecological mgmt	Fire only mgmt	Mechanical only mgmt	ROI mgmt	-
A - Early	10%	3%	3%	9%	8%	5%	6%	
B - Mid Closed	15%	13%	11%	22%	8%	28%	14%	
C - Mid Open	31%	0%	2%	5%	5%	2%	3%	
D - Late Open	15%	1%	3%	14%	14%	5%	8%	
E - Late Closed	8%	61%	33%	20%	24%	27%	27%	
F- Old Growth Open	7%	0%	0%	4%	6%	0%	2%	
G- Old Growth Closed	14%	14%	40%	26%	28%	32%	32%	
U- White Pine		3%	3%	0%	3%	0%	3%	
U- Yellow Poplar		1%	2%	0%	2%	0%	2%	
U- Pine-Dominated		3%	3%	0%	3%	0%	3%	
Ecological Departure		**61**	**59**	**31**	**37**	**51**	**45**	**-**
Total Cost			$ -	$ 3,420,000	$ 2,400,000	$ 1,920,000	$ 1,250,000	$ -
ROI (vs. Min. Mgmt)				0.8	0.9	0.4	1.1	-

	Enter Notes	Enter Management Strategies, Number of Acres/Year, Costs & Number of Years						
Scenarios (enter name below)		RxFire	RxFire-Maintenance	Regen Harvest (comm)	Woodland Restoration	Harvest-Restore - no oak ovrstry (comm)	Harvest-Restore w oak ovrstry (comm)	Harvest-Restore + Plant (comm)
No mgmt 20 yrs high fire su								
Max ecological mgmt		**1600**		**300**	**600**		**80**	**200**
Fire only mgmt		**2400**						
Mechanical only mgmt				**400**	**600**		**80**	**200**
ROI mgmt		**800**		**150**	**300**			
Cost of Strategy (per acre)		$ 50	$ 50	$ 50	$ 50	$ 50	$ 50	$ 210
Number of Years		20	20	20	20	20	20	20

Strategy Worksheet ***Dry-Mesic Oak Forest*** *40,766 acres* 100000

Enter percentages from "Final Conditions" as a whole number

Vegetation Class (describe) *type x in left box if high-risk*	NRV	Current Condtion	No mgmt 20 yrs high fire suppression	Max ecological Mgmt	Fire only mgmt	Mechanical only mgmt	ROI mgmt	-
A - Early	7%	3%	2%	6%	7%	4%	3%	
B - Mid Closed	15%	17%	13%	19%	11%	27%	16%	
C - Mid Open	25%	0%	3%	6%	6%	3%	4%	
D - Late Open	23%	9%	12%	23%	23%	20%	16%	
E - Late Closed	13%	59%	45%	32%	31%	32%	40%	
F- Old Growth Open	11%	1%	2%	2%	4%	2%	2%	
G- Old Growth Closed	6%	5%	17%	13%	13%	13%	15%	
U- White Pine		3%	4%	0%	3%	0%	3%	
U- Pine-Dominated		3%	3%	0%	3%	0%	2%	
Ecological Departure		**54**	**49**	**29**	**30**	**37**	**41**	**-**
Total Cost			$ -	$ 1,628,000	$ 1,250,000	$ 1,378,000	$ 365,000	$ -
ROI (vs. Min. Mgmt)				1.2	1.5	0.9	2.2	-

	Enter Notes	**Enter Management Strategies, Number of Acres/Year, Costs & Number of Years**						
Scenarios (enter name below)		RxFire	RxFire-Maintenance	Thinning (comm)	Regen Harvest (comm)	Harvest-Restore - no oak ovrstry (comm)	Harvest-Restore w oak ovrstry (comm)	Harvest-Restore + Plant (comm)
No mgmt 20 yrs high fire su								
Max ecological Mgmt		**650**		**250**	**100**		**40**	**140**
Fire only mgmt		**1250**						
Mechanical only mgmt				**550**	**200**		**40**	**140**
ROI mgmt		**200**		**100**	**25**		**40**	
Cost of Strategy (per acre)		$ 50	$ 50	$ 50	$ 50	$ 50	$ 50	$ 210
Number of Years		20	20	20	20	20	20	20

Strategy Worksheet ***Low-Elevation Pine Forest*** *23,812 acres* 100000

Enter percentages from "Final Conditions" as a whole number

Vegetation Class (describe) *type x in left box if high-risk*	NRV	Current Condtion	No mgmt 20 yrs high fire suppression	Max ecological mgmt	Fire only mgmt	Mechanical only mgmt	ROI mgmt	-
A - Early	32%	2%	12%	24%	34%	20%	24%	
B - Mid Closed	2%	5%	19%	34%	10%	34%	20%	
C - Mid Open	32%	0%	4%	13%	12%	10%	12%	
D - Late Open	33%	5%	4%	27%	9%	27%	12%	
E - Late Closed	1%	56%	28%	2%	3%	9%	16%	
U- Oak Dominated		32%	33%	0%	33%	0%	17%	
Ecological Departure		90	77	33	44	40	49	-
Total Cost			$ -	$10,525,000	$ 1,000,000	$ 7,575,000	$ 625,000	$ -
ROI (vs. Min. Mgmt)				0.4	3.3	0.5	4.5	-

	Enter Notes	**Enter Management Strategies, Number of Acres/Year, Costs & Number of Years**							
Scenarios (enter name below)	**Notes**	RxFire - Years 1-5 & 16-20	RxFire - Maintenance (off yrs)	Thinning	Restoration Treatment No Seed Source (50% of OD)	Restoration Treatmt w Seed Source (50% of OD)	Restoration Harvest + Pine Planting (no seed source)	Woodland Restoration (50% seed source)	Fire Breaks
No mgmt 20 yrs high fire suppre									
Max ecological mgmt		**500**		**225**			**225**	**225**	**250**
Fire only mgmt		**2000**							
Mechanical only mgmt				**250**			**225**	**225**	**125**
ROI mgmt		**800**						**225**	
Cost of Strategy (per acre)		$ 50	$ 50	$ 600	$ 200	$ 200	$ 300	$ 50	$ 1,200
Number of Years		10	10	20	20	20	20	20	20

Strategy Worksheet — *Montane Pine Forest* — *21,837 acres*

Vegetation Class (describe) *type x in left box if high-risk*	NRV	Current Condtion	No mgmt 20 yrs high fire suppression	Max ecological mgmt	Fire only mgmt	Mechanical only mgmt	ROI mgmt	-
A - Early	12%	6%	3%	34%	51%	5%	10%	
B - Mid Closed	3%	13%	12%	24%	16%	31%	30%	
C - Mid Open	25%	1%	3%	13%	14%	4%	10%	
D - Late Open	55%	3%	6%	22%	14%	22%	12%	
E - Late Closed	5%	57%	53%	8%	4%	37%	17%	
U- Oak Dominated		20%	23%	0%	1%	1%	21%	
Ecological Departure		**82**	**80**	**45**	**53**	**61**	**60**	**-**
Total Cost			$ -	$ 7,060,000	$ 2,450,000	$ 9,100,000	$ 600,000	$ -
ROI (vs. Min. Mgmt)				0.5	1.1	0.2	3.3	-

	Enter Notes	Enter Management Strategies, Number of Acres/Year, Costs & Number of Years							
Scenarios (enter name below)	**Notes**	RxFire - Years 1-5 & 16-20	RxFire - 5 Years	Maintenance Fire (10 "off" years)	Thinning - 5 Years	Restoration Treatment No Seed Source (70% of OD)	Restoration Treatmt w Seed Source (30% of OD)	Restoration Harvest + Pine Planting	RxFire-Oak (3 times)
No mgmt 20 yrs high fire suppre									
Max ecological mgmt		**2200**		**220**	**1400**			**275**	
Fire only mgmt		**2500**		**300**					**350**
Mechanical only mgmt	Thin last 5 years				**2500**		**100**	**200**	
ROI mgmt			**2400**						
Cost of Strategy (per acre)		$ 50	$ 50	$ 50	$ 600	$ 200	$ 200	$ 300	$ 150
Number of Years		10	5	10	5	20	20	20	20

Strategy Worksheet | ***Montane Red-Chestnut Oak Forest*** | *71,847 acres* | 100000

Enter percentages from "Final Conditions" as a whole number

Vegetation Class (describe) *type x in left box if high-risk*	**NRV**	**Current Condtion**	**No mgmt 20 yrs - fire suppression**	**Max ecological mgmt**	**Fire only mgmt**	**Mechanical only mgmt**	**ROI mgmt**	**-**
A - Early	7%	3%	5%	8%	7%	6%	6%	
B - Mid Closed	26%	21%	17%	20%	15%	29%	19%	
C - Mid Open	20%	0%	4%	7%	6%	4%	5%	
D - Late Open	12%	3%	8%	12%	11%	10%	10%	
E - Late Closed	18%	61%	38%	33%	35%	32%	35%	
F- Old Growth Open	2%	0%	1%	2%	2%	1%	2%	
G- Old Growth Closed	14%	8%	23%	18%	20%	18%	21%	
U- White Pine		1%	2%	0%	2%	0%	1%	
U- Yellow Poplar		2%	2%	0%	2%	0%	1%	
U- Pine-Dominated		1%	1%	0%	1%	0%	0%	
Ecological Departure		**47**	**33**	**20**	**27**	**21**	**26**	**-**
Total Cost			$ -	$2,665,000	$ 1,300,000	$ 2,450,000	$1,102,500	$ -
ROI (vs. Min. Mgmt)				0.5	0.5	0.5	0.6	-

Enter Notes | **Enter Management Strategies, Number of Acres/Year, Costs & Number of Years**

Scenarios (enter name below)	**Notes**	RxFire	Thinning - Late Closed (commercial)	Thinning- Mid Closed Older (commercial)	Gap Harvest + Thin (small commercial)	Regen Harvest (commerical)	Restoration Harvest w No Oak Overstory (75%) (comm)	Restoration Harvest w Oak Overstory (25%) (comm)	Restoration Harvest + Plant (comm)
No mgmt 20 yrs - fire suppressi									
Max ecological mgmt	Thin Mid Closed in last 5 yrs	**1300**	**100**	**100**	**100**	**100**		**75**	**225**
Fire only mgmt		**1300**							
Mechanical only mgmt	Thin Mid Closed in last 5 yrs		**400**	**600**	**400**	**400**		**75**	**225**
ROI mgmt	Thin Mid Closed in last 5 yrs	**800**	**75**	**50**	**75**	**50**		**75**	
Cost of Strategy (per acre)		$ 50	$ 50	$ 50	$ 60	$ 50	$ 50	$ 50	$ 210
Number of Years		20	20	5	20	20	20	20	20

Strategy Worksheet ***Northern Hardwood Forest*** *11,639 acres* 100000

Enter percentages from "Final Conditions" as a whole number

Vegetation Class (describe) *type x in left box if high-risk*	**NRV**	**Current Condtion**	**No Mgmt 20 Yrs - fire suppression**	-	-	-	-	-
A - Early	9%	2%	6%					
B - Mid Closed	18%	13%	9%					
C - Late Closed	69%	81%	82%					
D - Late Open	4%	4%	2%					

Ecological Departure	12	14	-	-	-	-	-
Total Cost		$ -	$ -	$ -	$ -	$ -	$ -
ROI (vs. Min. Mgmt)			-	-	-	-	-

	Enter Notes	**Enter Management Strategies, Number of Acres/Year, Costs & Number of Years**						
Scenarios (enter name below)								
No Mgmt 20 Yrs - fire suppr								
Cost of Strategy (per acre)								
Number of Years								

Strategy Worksheet ***Riparian & Floodplain Systems*** *2,548 acres* 100000

Enter percentages from "Final Conditions" as a whole number

Vegetation Class (describe) *type x in left box if high-risk*	NRV	Current Condtion	No mgmt 20 yrs high fire suppression	Max ecological mgmt	Fire only mgmt	Mechanical only mgmt	ROI mgmt	-
A - Early	15%	4%	15%	16%	19%		17%	
B - Mid Closed	23%	14%	9%	8%	8%		9%	
C - Mid Open	13%	2%	3%	4%	5%		4%	
D - Late Open	40%	17%	26%	30%	31%		28%	
E - Late Closed	9%	60%	45%	39%	36%		41%	
U- White Pine		2%	2%	2%	2%		2%	

Ecological Departure	54	38	34	32	-	35	-
Total Cost		$ -	$ 33,000	$ 50,000	$ -	$ 25,000	$ -
ROI (vs. Min. Mgmt)			12.1	12.0	-	12.0	-

	Enter Notes	Enter Management Strategies, Number of Acres/Year, Costs & Number of Years					
Scenarios (enter name below)		RxFire					
No mgmt 20 yrs high fire su							
Max ecological mgmt	33 acres/yr carryover from other systems	**33**					
Fire only mgmt	50 acres/yr carryover from other systems	**50**					
Mechanical only mgmt							
ROI mgmt	25 acres/yr carryover from other systems	**25**					
Cost of Strategy (per acre)		$ 50					
Number of Years		20					

Strategy Worksheet ***Spruce-Fir Forest*** *2,236 acres* 100000

Enter percentages from "Final Conditions" as a whole number

Vegetation Class (describe) *type x in left box if high-risk*	NRV	Current Condtion	No mgmt 20 yrs high fire suppression	Max ecological mgmt	Fire only mgmt	Mechanical only mgmt	ROI mgmt	-
A - Early	18%	1%	7%	8%			8%	
B - Mid Closed	13%	5%	2%	2%			2%	
C - Mid Open	11%	0%	6%	8%			7%	
D - Late Closed	58%	54%	45%	69%			55%	
U- Brush-Shrub		12%	12%	12%			12%	
U- NOT Spruce or Fir		27%	27%	0%			16%	
Ecological Departure		**40**	**40**	**24**	**-**	**-**	**28**	**-**
Total Cost			$ -	$ 240,000	$ -	$ -	$ 90,000	$ -
ROI (vs. Min. Mgmt)				6.7	-	-	13.3	-

	Enter Notes	**Enter Management Strategies, Number of Acres/Year, Costs & Number of Years**					
Scenarios (enter name below)		Spruce Restoration					
No mgmt 20 yrs high fire su							
Max ecological mgmt		**40**					
Fire only mgmt							
Mechanical only mgmt							
ROI mgmt		**15**					
Cost of Strategy (per acre)		$ 300					
Number of Years		20					