

Discount factor =  $1/(1+DR)^N$  DR – discount  
 Present value = DR\*B B – benefit  
 N – number of

**SCENARIO 1**

Year	1	2	3	4	20% increase
Benefit	\$30,625.00	\$36,750.00	\$44,100.00	\$52,920.00	
Discount rate in %	10%	10%	10%	10%	
Discount factor	1.000	0.909	0.826	0.751	
Present value	\$3,062.50	\$3,675.00	\$4,410.00	\$5,292.00	

Total costs: \$300.00  
 Total benefits: \$164,395.00  
 Net present value: \$164,095.00

**Scenario 1**

Assuming 175 he  
 Agricultural National Park Carbon Storage

**Benefit**

Wild animals  
 (moose, wild  
 horses, etc.)

Quantity N/A 30625 t C

Costs N/A N/A \$1/ton  
 \$30,625.00

**Variable Costs**

Quantity N/A N/A 100/year  
 Costs \$0.00 \$0.00 \$3/seedling

Variable Costs  
 Fixed Costs \$0.00 \$0.00 \$300.00

**SCENARIO 2**

Year	1	2	3	4
Benefit	\$28,050.00	\$33,660.00	\$40,392.00	\$48,470.40
Discount rate in %	10%	10%	10%	10%
Discount factor	1.000	0.909	0.826	0.751
Present value	\$2,805.00	\$3,366.00	\$4,039.20	\$4,847.04

Total costs: \$5,300.00  
 Total benefits: \$150,572.40  
 Net present value: \$145,272.40

**Scenario 2**

Assuming 150 hectare  
 Agricultural National Park Carbon Storage

**Benefit**

1 acre of vegetable  
 gardens, 2 acres of  
 grazing land 100  
 persons/month 26250 t C

Costs Garden: \$1000/year  
 Grazing land: No cost \$3/per \$1/ton  
 \$1,800.00 \$26,250.00

**Variable Costs**

Quantity of fertilizer,  
 water, seeds, animal  
 feed, fuel, machinery,  
 labour) Number of  
 employees 100 trees/year  
 Costs \$1,000.00 10 \$3/tree  
 \$10/hour 40 hr/w

Variable Costs \$1,000.00  
 Fixed Costs \$4,000.00 \$300.00