Appendix 6

Attribute scores provided by landowners. Twenty owners of large, forested properties (at least 20 ha in total area with at least 4 ha of forest) in Macon County, North Carolina, participated in a structured decision making (SDM) process consisting of two series of workshops (a = Series 1, b = Series 2) with ten landowners each. In each series, landowners assigned scores reflecting their satisfaction were the attribute level to occur. Each landowner completed an attribute score elicitation worksheet, and the number of attribute score combinations in a series depended on the number of worksheets with logically-consistent responses. A combination was made for each logically-consistent worksheet. Otherwise, logically-consistent responses were averaged across worksheets to create a mean combination.

Table A6.1

a)

Objective	Attribute level	Combinations			
		Mean	1	2	3
Exotic species abundance	Low	100	100	90	100
	Medium	57.5	50	37.5	70
	High	13.33	0	0	40
Water quality	High	100	100	100	100
	Medium	52	72.5	37.5	70
	Low	15	0	0	50
Native species diversity	Very high	100	90	100	100
	Moderately high	69	80	75	80
	Moderately low	40	70	25	60
	Very low	20	40	10	20
Human safety	High	100	100	100	100
	Moderate	67.5	90	0	70
	Low	28.75	75	0	50
Property damage	None	100	100	100	100
	Low	50	75	60	50
	High	19	50	25	20

Future development	None	100	100	100	100
	Up to two divisions	55	75	50	70
	More than two divisions	23.6	50	25	50
Percent of property in the family	100-67% of property	95	100	80	100
	66-34% of property	53.75	75	40	80
	33-0% of property	38.75	25	0	20
Percent of income from the property	100-67% of income	97.5	100	75	100
	66-34% of income	78.75	90	50	80
	33-0% of income	55	80	25	60
Rural landscape	Maintain	100	100	75	100
	Lose a little	65	75	50	80
	Lose a lot	24	25	25	50
Net income	Positive	100	100	100	100
	Even	63	90	50	70
	Negative	18	80	25	60

b)

			Combinations				
Objective	Attribute level	Mean	1	2	3	4	5
Exotic species abundance	Low	60	100	80	100	100	100
	High	20	0	20	0	0	0
Water quality	High	93	100	80	100	100	100
	Low	7	0	10	0	0	0
Native species diversity	High	97	50	90	100	100	100
	Low	3	0	20	0	0	0
Human safety	High	100	20	100	100	100	90
	Moderate	14	10	50	10	5	10
	Low	7	0	0	0	0	0
Property damage	None	97	100	90	100	100	95
	Low	12	80	40	80	20	5
	High	0	75	10	10	0	0
Future development	None	97	90	50	100	100	100
	At least one division	30	2	20	10	10	0
Proportion of property in the family	100-51% of property	97	30	80	90	80	50
	50-0% of property	28	30	50	10	20	50
Proportion of income from the property	100-51% of income	50	10	50	70	60	70
	50-0% of income	50	10	50	50	10	30
Rural landscape	Maintain	92	100	60	100	100	100
	Lose	0	0	0	0	0	0
Net income	Positive	100	10	50	100	60	80
	Even	85	0	30	100	50	20
	Negative	25	0	10	50	40	0
Aesthetics	Good	83	100	90	100	100	100
	Bad	3	0	20	0	0	0