

附录I 黑熊生境阻力因子、分值和权重

Appendix I Resistance factors, values and weights of habitat for *Ursus thibetanus*

准则层1 Rule layer 1	权重 Weight	准则层2 Rule layer 2	权重 Weight	准则层3 Rule layer 3	对总目标的权重 Weights for the target	相对阻力 Relative resistance
物理环境因子 Physical environment factors	0.2120	坡度阻力因子 Resistance factor of slope (R_s) (°)	0.4241	>50	0.0899	400
				40–50		300
				30–40		200
				21–30		100
				<21		50
	坡向阻力因子 Resistance factor of aspect (R_a)	0.2214	阳坡 Sunny slope	0.0469	50	
					半阳半阴坡 Semi-sunny slope	100
					阴坡 Cloudy slope	200
	海拔阻力因子 Resistance factor of elevation (R_e) (m)	0.1640		0.0348	>2,200	400
					1,600–2,200	300
					1,150–1,600	200
					600–1,150	100
					<600	50
到水体距离阻力因子 Resistance factor of distance to water (R_w) (m)	0.1905		0.0404	>800	400	
				600–800	300	
				400–600	200	
				200–400	100	
				<200	50	
生物环境因子 Biological environment factors	0.3162	土地利用类型阻力因子 Resistance factor of land use (R_l)	0.3162	阔叶林 Broad-leaf forest	0.3162	0
				混交林 Mixed forest		20
				针叶林 Coniferous forest		50
				灌丛 Brushwood		100
				草甸 Meadow		150
				荒草地 Grassland		200
				耕地 Cultivated land		300
				水体 Water		400
				居民地 Residential areas		500
				人为干扰因子 Human disturbance factors		0.4718
1,000–600	100					
600–300	200					
100–300	300					
<100	400					
居民点密度阻力因子 Resistance factor of residential density (R_j)	0.5627		0.2655		>2.5	500
					1.0–2.5	400
					0.4–1.0	200
					0.08–0.4	100
					<0.08	50
到耕地距离阻力因子 Resistance factor of distance to cultivated land (R_c) (m)	0.2889		0.1363		>1,200	50
					1,200–800	100
					800–500	200
				500–100	300	
				<100	400	

黑熊生境综合阻力 Comprehensive habitat resistance of *Ursus thibetanus* (R)

$$R=0.0899 \times R_s + 0.0469 \times R_a + 0.0348 \times R_e + 0.0404 \times R_w + 0.3162 \times R_l + 0.0700 \times R_r + 0.2655 \times R_j + 0.1363 \times R_c$$