Index of Relative Biodiversity

P. LeBel, 2002

IRB = $(1/(S/ha))(1 - \bar{g}/\bar{x})$, where:

S/ha = the number of species per hectare

$\bar{g}$ = the geometric mean of biomass across species

$\bar{x}$ = the arithmetic mean of biomass across species

Table 1

Multi-Species Logistic Growth Example

	S-1	S-2	S-3	S-4	S-5
r=	0.100	0.070	0.060	0.055	0.048
h=	200,000	230,000	100,000	140,000	120,000
a=	399.00	459.00	199.00	279.00	239.00
t(msy)=	11.56	16.90	17.02	19.76	22.02
P(t,msy))	1621.92	1668.30	1408.79	1508.87	1462.26
MSY(t)	160.88	115.93	83.34	82.09	69.33

Figure 3

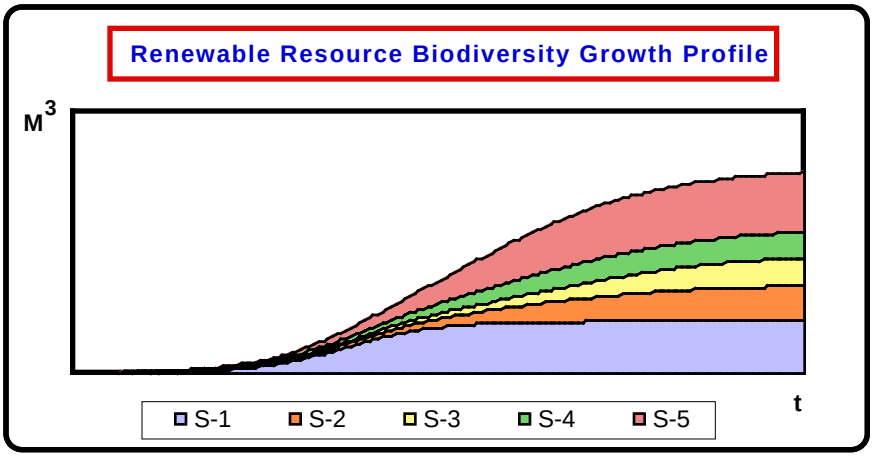

Figure 4