

Appendix F

Estimates of the Biosphere's Heterotrophic Biomass

	Biomass estimates (Mt C)		Biomass estimates (Mt C)
Organisms		Organisms	
Prokaryotes		Land (continued)	
Soils	15,000–26,000	Elephants	0.1
Waters	1,500–13,700	Domesticated vertebrates	100–120
Subterranean	22,000–215,000	Humans	40
Subsea	~303,000	Ocean	
Land		Invertebrates	300–500
Fungi	3,000–6,000	Fish	< 40
Invertebrates	400–1,000	Whales	5–15
Wild vertebrates	< 5		

Sources: Bowen (1966); Bogorov (1969); Whittaker and Likens (1973); Hinga (1979); Romankevich (1988); Smil (1991); Whitman et al. (1998); Wilhelm and Suttle (1999); and my new calculations based on the latest population estimates for elephants and whales collated, respectively, by the IUCN (2001) and by the IWC (2001).