

TABLE 10.1 Primary productivity of major terrestrial and marine biome types. (Modified from: Whittaker, R.H. 1975. *Communities and Ecosystems*. Second Edition. MacMillan Publishing Company, Inc., New York and other sources.).

Biome Type	Area 10 ⁸ km ²	Net Primary Productivity per Unit Area g / m ² / yr		Global Net Primary Production 10 ⁹ Metric Tons / yr
		Usual Range	Mean	
Tropical and Subtropical Moist Broadleaf Forests	17.0	1000-3500	2200	37.4
Tropical and Subtropical Dry Broadleaf Forests	7.5	1000-2500	1600	12.0
Tropical and Subtropical Grasslands, Savannas and Shrublands	15.0	200-2000	900	13.5
Mediterranean Forests, Woodland and Scrub	8.5	250-1200	700	6.0
Deserts and Xeric Shrublands	18.0	10-250	90	1.6
Temperate Coniferous Forests	5.0	600-2500	1300	6.5
Temperate Broadleaf and Mixed Forests	7.0	600-2500	1200	8.4
Temperate Grasslands, Savannas, and Shrublands	9.0	200-1500	600	5.4
Boreal Forests/Taiga	12.0	400-2000	800	9.6
Tundra	8.0	10-400	140	1.1
Swamps, Marshes, and Mangroves	2.0	800-3500	2000	4.0
Lakes and Streams	2.0	100-1500	250	0.5
Ice Caps and Glaciers	38.0	0	0	0
<i>TOTAL CONTINENTAL</i>	<i>111.0</i>	<i>0-3500</i>	<i>955</i>	<i>106.0</i>
Open Ocean	332.0	2-400	125	41.5
Upwelling Ocean Zones	0.4	400-1000	500	0.2
Continental Shelf	26.6	200-600	360	9.6
Algal Beds and Coral Reefs	0.6	500-4000	2500	1.6
Estuaries	1.4	200-3500	1500	2.1
<i>TOTAL MARINE</i>	<i>361.0</i>	<i>2-4000</i>	<i>145</i>	<i>52.9</i>
TOTAL WORLD	500.0	0-4000	320	158.9