

CARBON DIOXIDE ABSORPTION CHART

Photosynthesis Efficiency & Atmospheric Exchange



Mature Broadleaf Tree	22.0	100.0	Woody Biomass
Coniferous Tree	15.0	70.0	Needles/Trunk
Mangrove Forest (per m ²)	1.5	4.2	Sediment/Roots
Grassland (per m ²)	0.5	1.8	Soil Organic Matter
Phytoplankton (per m ³)	0.8	2.5	Deep Ocean Carbon

Key Variables

Light Intensity (Lux) Ambient Temperature (C) Stomatal Conductance Soil Nutrient Levels

Field Observations & Data Notes:

Theoretical reference values only. Actual absorption varies by species and climate zone.