

## Emissions of Greenhouse Gases in the United States 2004

Report #: DOE/EIA-0573(2004)  
 Released Date: December 2005  
 Next Release Date: December 2006

### Characteristics of Forest Systems and Cultivated Systems Worldwide

System and Subsystem	Area (Million Square Kilometers)	Share of Terrestrial Surface of Earth (Percent)	Mean Net Primary Production <sup>a</sup> (Kilograms Carbon per Square Meter per Year)	Share of System Covered by Protected Areas <sup>b</sup> (Percent)	Share of Area Transformed <sup>c</sup> (Percent)
Forest/Woodland . . . . .	41.9	28.4	0.68	10	42
Tropical/Subtropical . . . . .	23.3	15.8	0.95	11	34
Temperate . . . . .	6.2	4.2	0.45	16	67
Boreal . . . . .	12.4	8.4	0.29	4	25
Cultivated . . . . .	35.3	23.9	0.52	6	47
Pasture . . . . .	0.1	0.1	0.64	4	11
Cropland . . . . .	8.3	5.7	0.49	4	62
Mixed (Crop and Other) . . . . .	26.9	18.2	0.60	6	43

<sup>a</sup>Net primary productivity (NPP) measures the rate at which carbon is fixed by plants, minus carbon lost through plant respiration.

<sup>b</sup>Protected areas in the International Union for the Conservation of Nature (IUCN) categories I through VI.

<sup>c</sup>For forest/woodland systems, the share of area transformed is the percentage difference between the forest types that could exist on the lands (forested biomes of the World Wildlife Fund's ecoregions land classification) and those that actually exist, as indicated by the Global Land Cover land classification system of the European Commission's Joint Research Center. For cultivated systems, the share of area transformed is the area indicated as such in the Global Land Cover land classification system.

Source: Millennium Ecosystem Assessment, *Ecosystems and Human Well-being: Synthesis* (Washington, DC: Island Press, 2005), web site [www.millenniumassessment.org/en/Products.Synthesis.aspx](http://www.millenniumassessment.org/en/Products.Synthesis.aspx).