

# Palm Oil and Tropical Deforestation

An Infographic from the Union of Concerned Scientists

## Data Sources

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The [Palm Oil and Tropical Deforestation infographic](#) is largely based on information and analysis in the UCS fact sheet, [Palm Oil and Global Warming](#). Data sources are detailed below.

### **Total carbon storage by tropical forests**

Saatchi, S.S., N.L. Harris, S. Brown, M. Lefsky, E.T.A. Mitchard, W. Salas, B.R. Zutta, W. Buermann, S.L. Lewis, S. Hagen, S. Petrova, L. White, M. Silman, M., and A. Morel. 2011. [Benchmark map of forest carbon stocks in tropical regions across three continents](#). *PNAS* 108(24):9899-9904.

### **Percentage of terrestrial biodiversity in tropical forests**

Gardner T.A., J. Barlow, R. Chazdon, R.M. Ewers, C.A. Harvey, C.A. Peres, and N.S. Sodhi. 2009. [Prospects for tropical forest biodiversity in a human-modified world](#). *Ecology Letters* 12:1-21.

### **Land-use carbon emissions in Indonesia 2001-2010**

Carlson, K.M., and L.M. Curran. 2013. [Refined carbon accounting for oil palm agriculture: Disentangling potential contributions of indirect emissions and smallholder farmers](#). *Carbon Management* 4(4):347-349.

### **Percentage of tropical forest species found in palm oil plantations**

Fitzherbert, E.B., M.J. Struebig, A. Morel, F. Danielsen, C.A. Brühl, P.F. Donald, and B. Phalan. 2008. [How will oil palm expansion affect biodiversity?](#) *Trends in Ecology and Evolution* 23(10):538-545.

### **Palm oil acreage 1990-2011**

#### **Growth in palm oil production 1990-2010**

Food and Agriculture Organization of the United Nations (FAO). 2013. [FAOSTAT](#). Rome, Italy. Accessed on October 17, 2013.

### **Projected palm oil production 2020**

Food and Agricultural Policy Research Institute (FAPRI). 2012. [FAPRI-ISU 2012 World Agricultural Outlook](#)