



# Charcoal production and use: world country statistics and global trends

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&  
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Symposium:  
**The role of charcoal in climate change and poverty alleviation initiatives.**  
**15th June 2011**  
*Arusha, Tanzania*

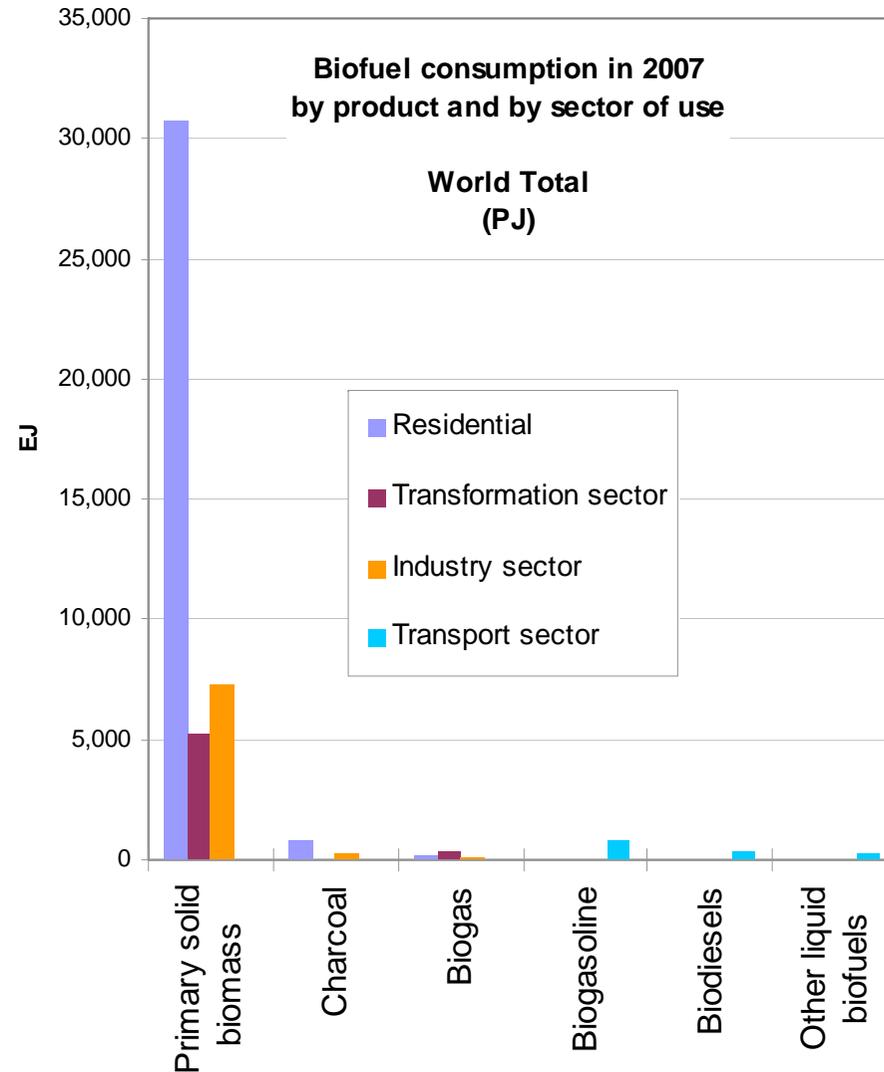
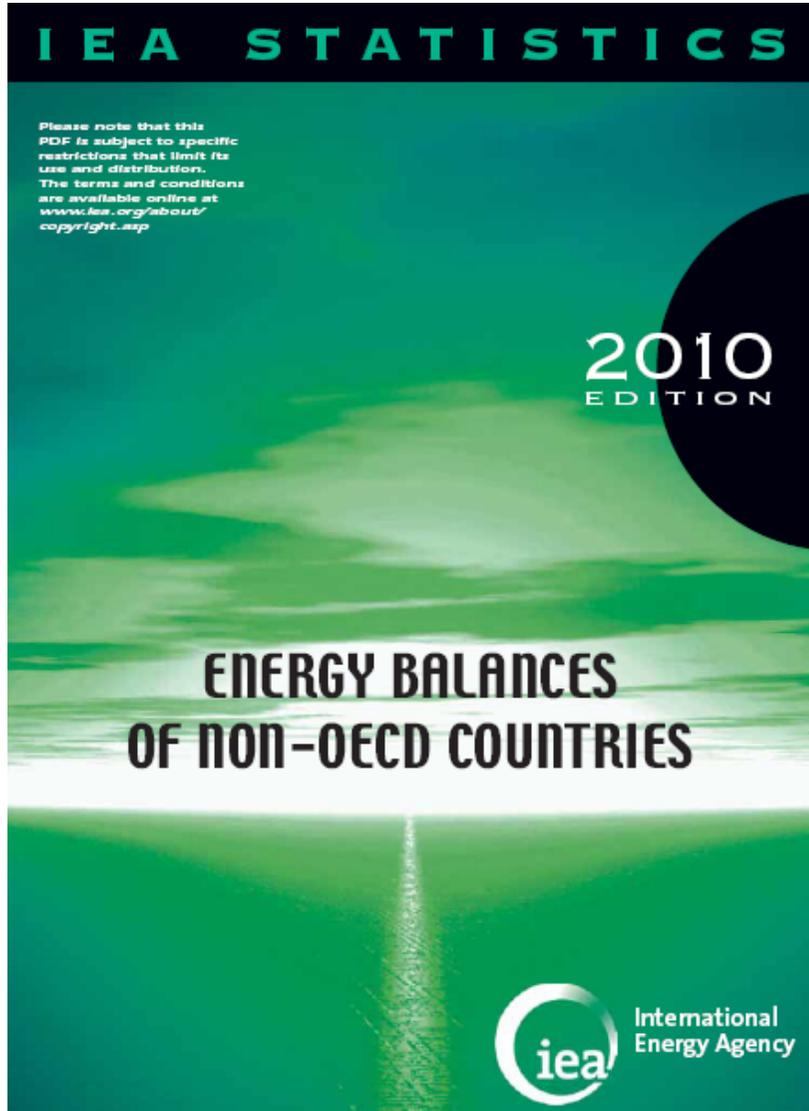
# Structure of presentation

1. The importance of a *trustworthy* worldwide database on charcoal production and use.
2. Available global and country-based figures from FAO.
3. Examples of some flaws and gaps in FAO wood energy data.
4. The way ahead.

# Why a trustworthy database?

- Wrong data leads to misleading actions (i.e. essential ingredient for policy making)
- Challenge:
  - Disperse nature of traditional woodfuels in general (i.e. difficulties in primary data gathering)
  - Methodologies
- How much vs. where (where is it used and where the wood comes from)

# Available global figures



FAOSTAT - Windows Internet Explorer  
 http://faostat.fao.org/default.aspx

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FAOSTAT

FOOD AND AGRICULTURE ORGANIZATION OF THE UNITED NATIONS  
*For a World without Hunger*

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logon want to register? FAOSTAT videos CountrySTAT

FAOSTAT provides time-series and cross sectional data relating to food and agriculture for some 200 countries.

The national version of FAOSTAT, **CountrySTAT**, is being developed and implemented in a number of target countries, primarily in sub-saharan Africa. It will offer a two-way data exchange facility between countries and FAO as well as a facility to store data at the national and sub-national levels.

**FAOSTAT User Dialogue 2010**

One of the priorities of the Statistics Division is to involve the producers and custodians of statistics at FAO in a stronger communication with our users, and to gain a better understanding of their needs. Since July 2010 the free FAO data access policy has been implemented. The number of registered users has boomed since then from 400 to over 9100 as of today.

We are seeking contact with registered users of FAOSTAT to open a qualitative feedback channel. We are looking for your views and experiences in using FAO's statistics as well as specific, technical suggestions. We would very much appreciate receiving your advice. To see the issues please click [here](#).

**Latest news**

The following subject domains have been updated:

- ProdSTAT (May 2011)
- ResourceSTAT-Pesticides Consumption (March 2011)
- TradeSTAT-Detailed Trade Matrix (February 2011)
- ForesSTAT (January 2011)
- ResourceSTAT-Machinery (December 2010)
- TradeSTAT-Detailed trade data (November 2010)
- Forestry Trade Flows (September 2010)
- ResourceSTAT-Land (September 2010)
- ResourceSTAT-Fertilizers Trade Values (September 2010)
- PriceSTAT (September 2010)
- Production Indices (September 2010)

**Featured link**

**NEW: TOP 20 COMMODITIES AND PRODUCERS**

**FAO Statistical Databases & Data-sets**

- ▶▶ FAOSTAT FAMILY
- ▶▶ Other Databases in FAO
- ▶▶ Other Data Sets in FAO

**Compliance**

FAOSTAT is fully compliant with the principles of good practice governing international statistics.

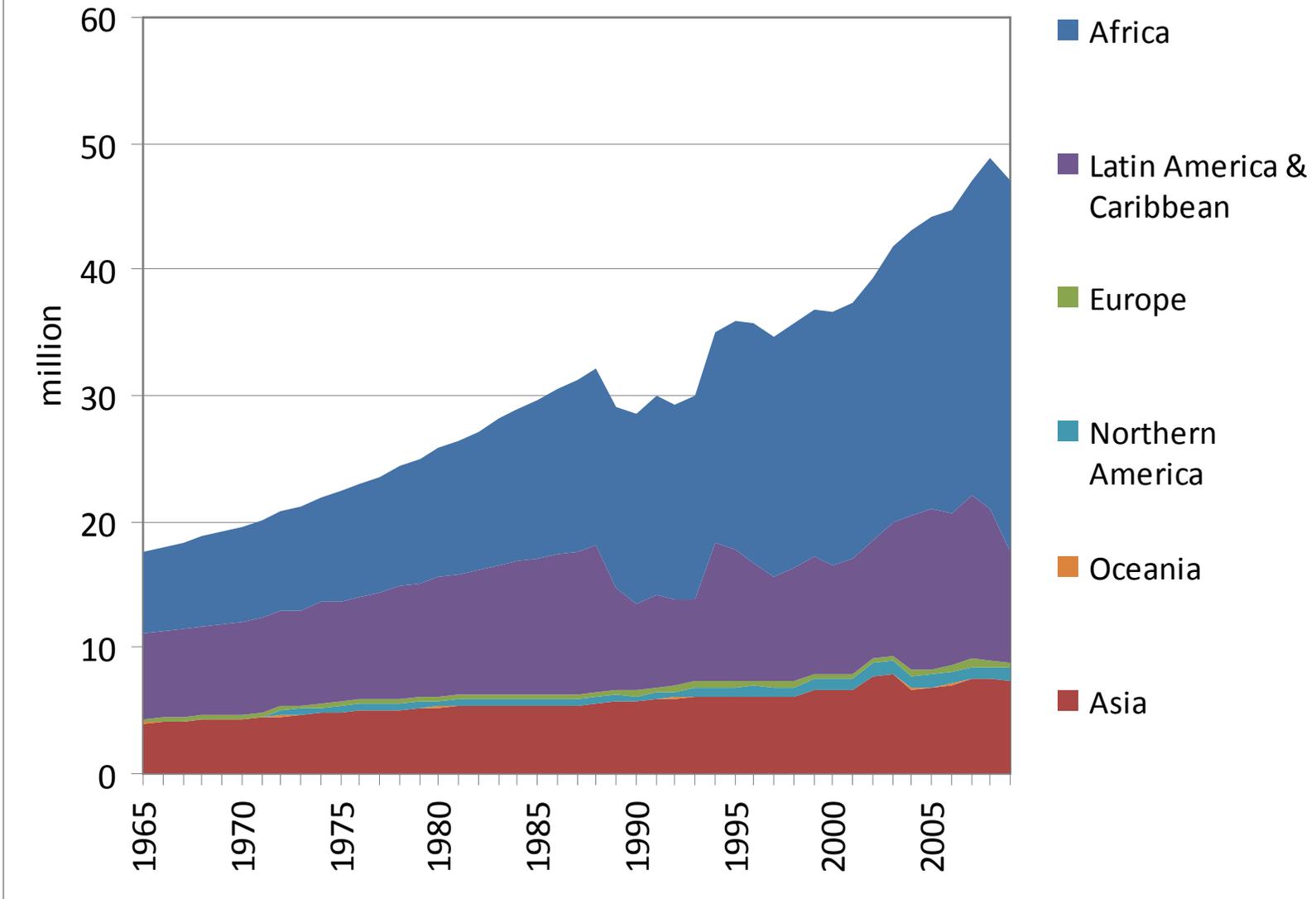
**Registered Users**

Internet | Modo protegido: activado

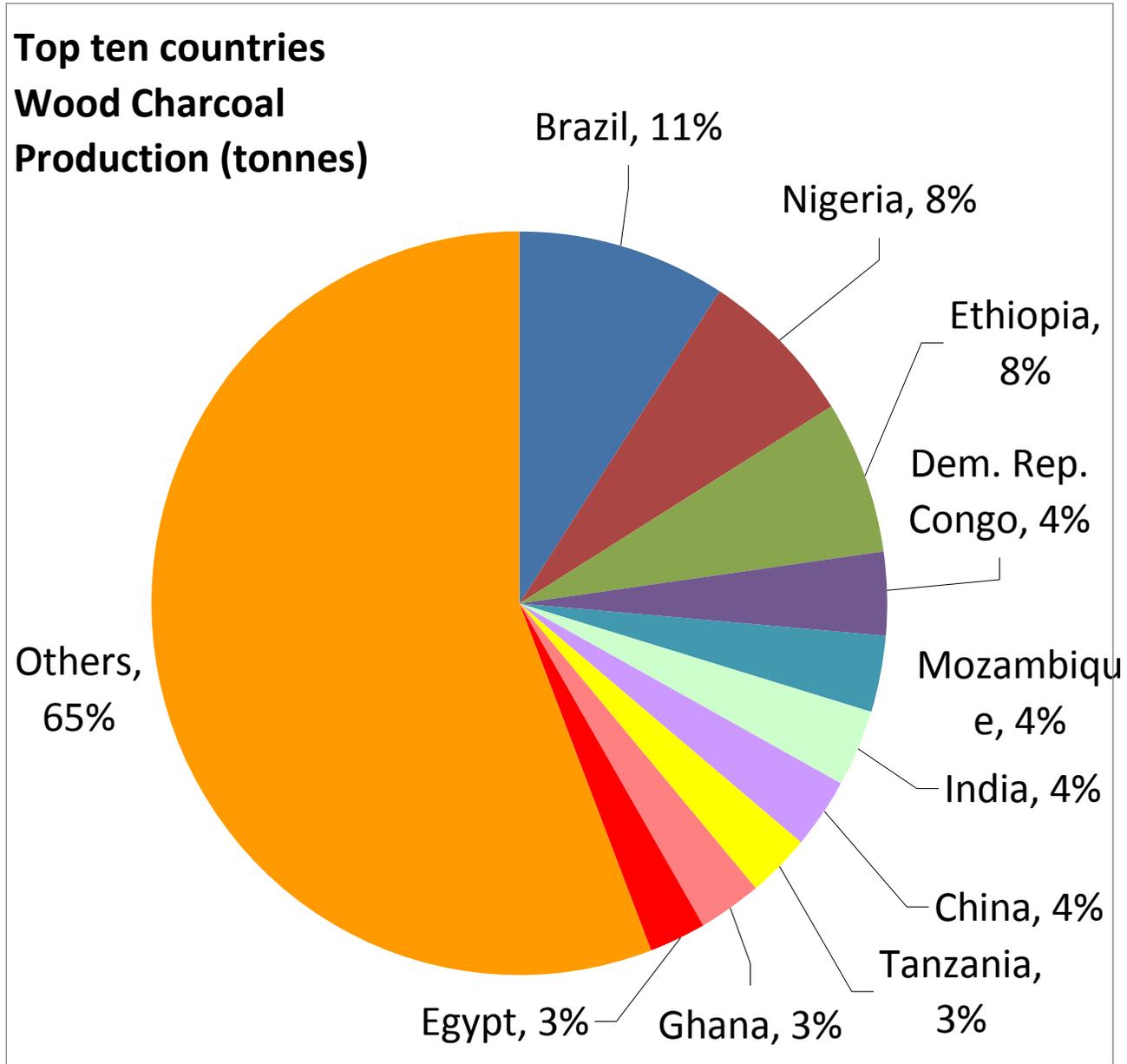
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Trend by regions  
Wood Charcoal Production (tonnes)

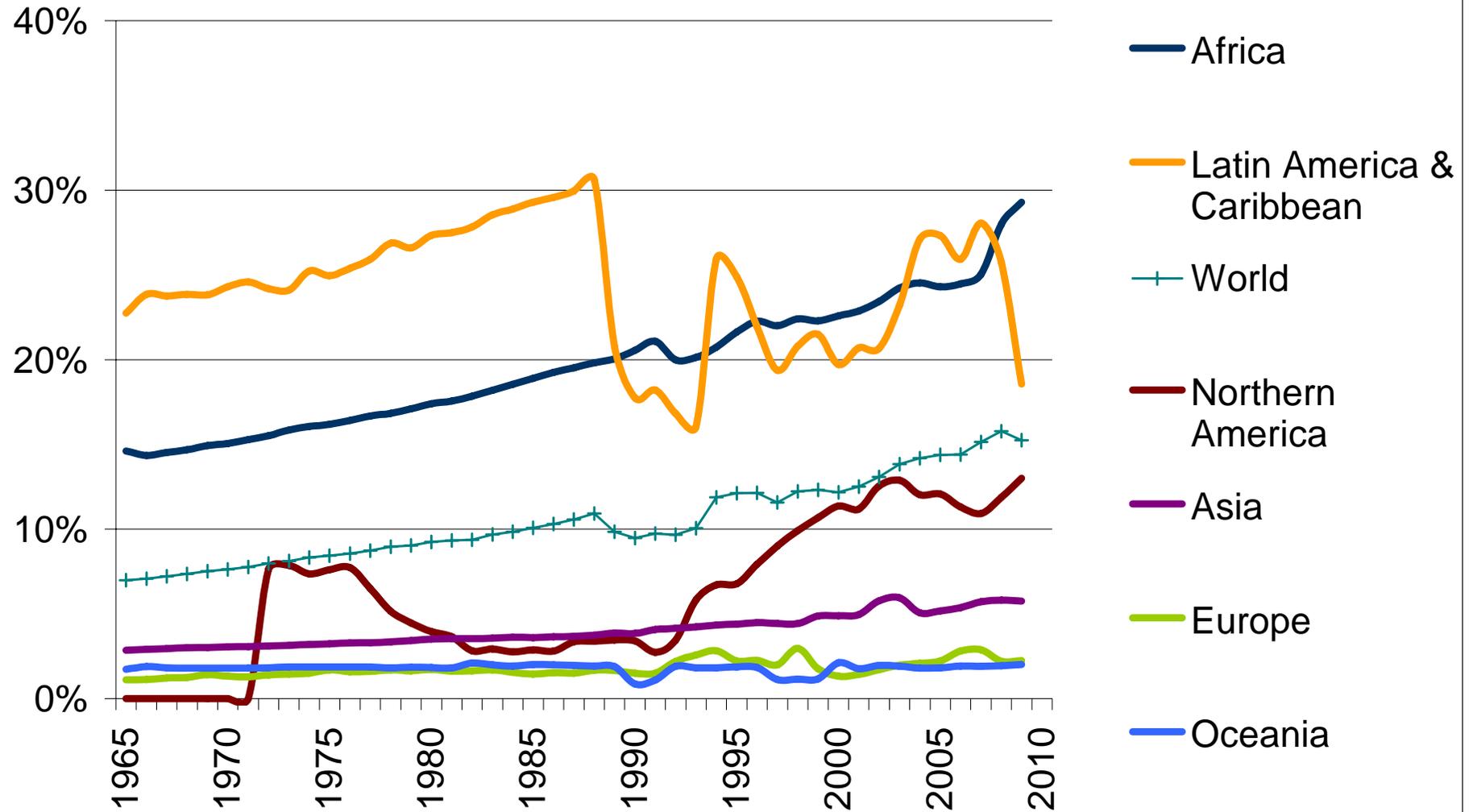


Source FAOstat



Source FAOstat

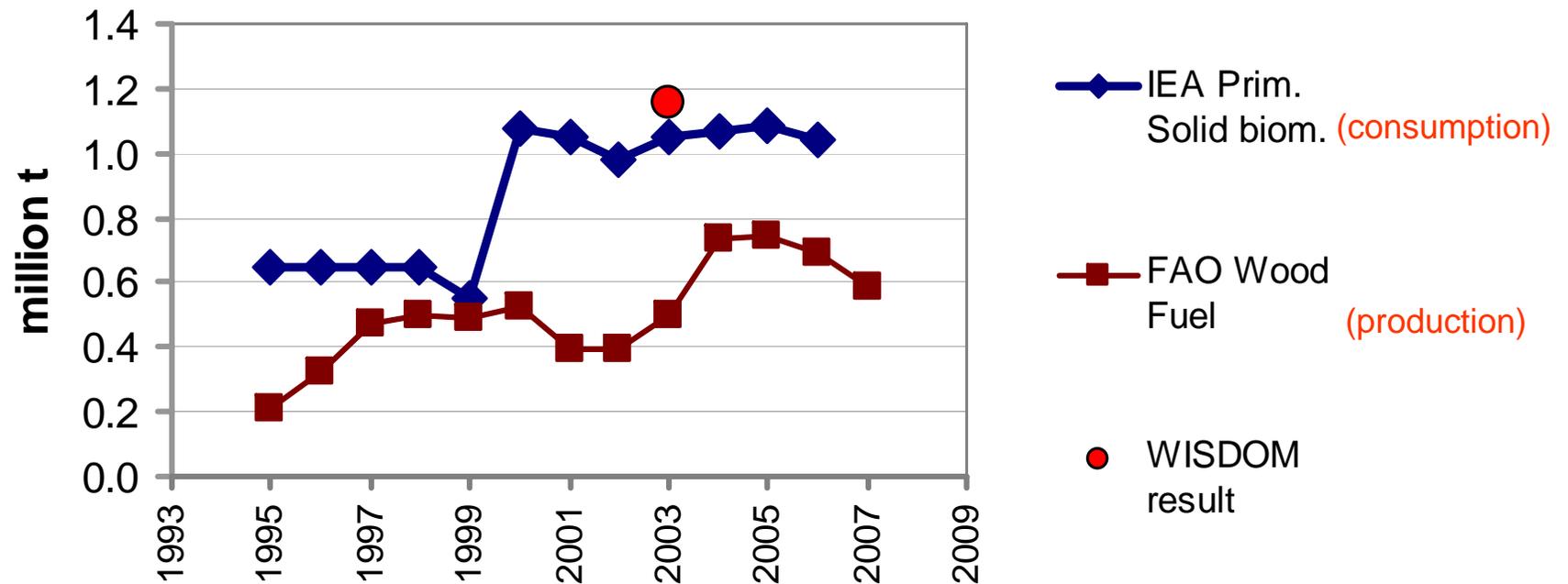
## Share of wood fuel converted to charcoal



Source FAOstat

# Some mismatches between data sources

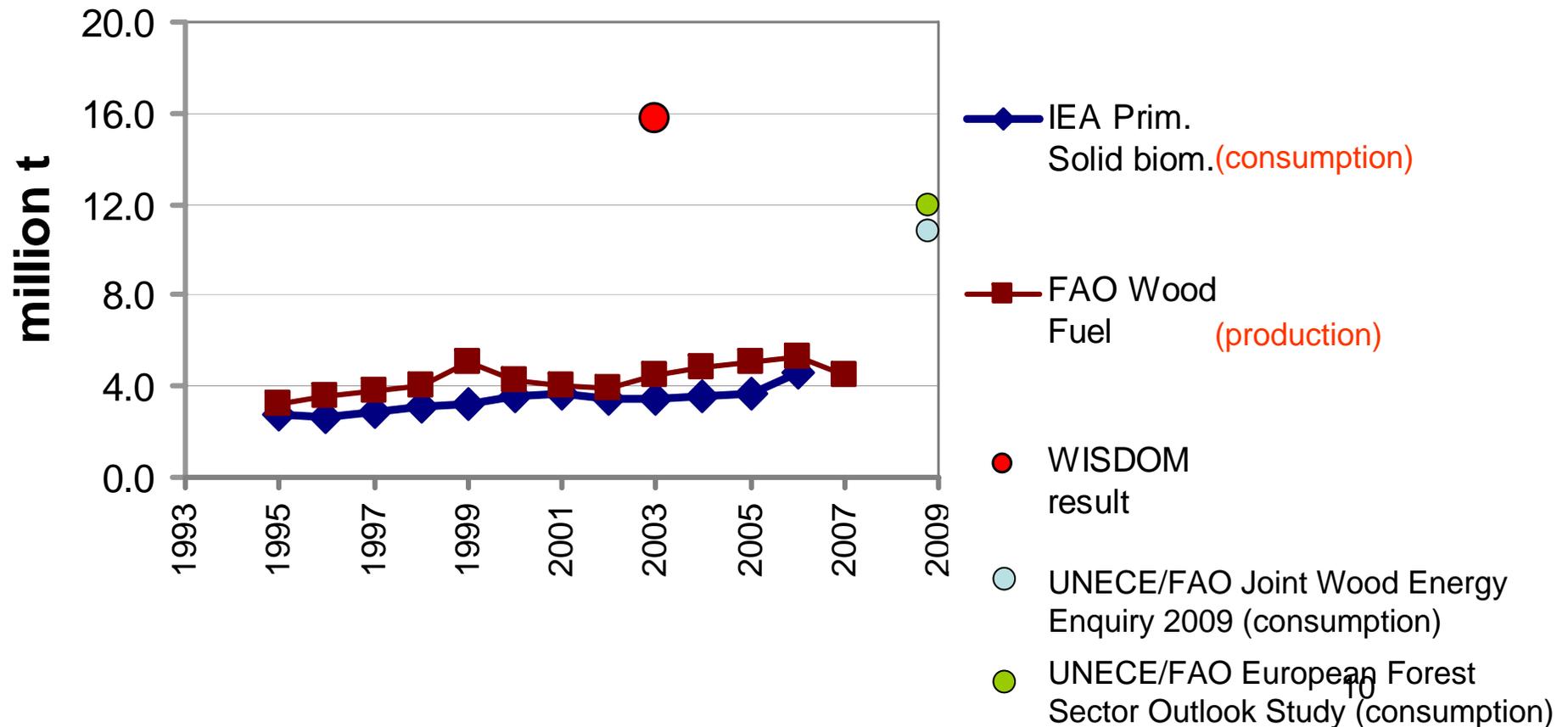
**Slovenia** woodfuel statistics – Production of woodfuels (ref. FAO) and consumption of Primary Solid Biomass (ref. IEA)



**Now not talking about charcoal**

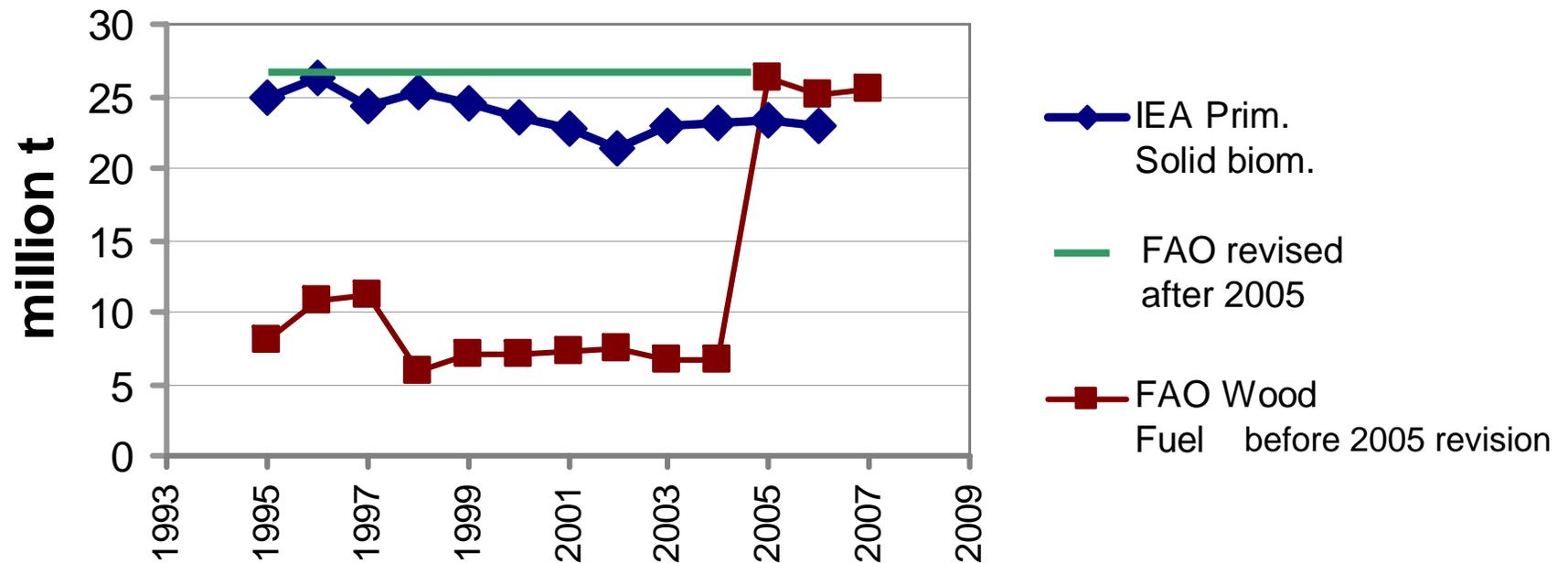
# Some mismatches between data sources

**Italy** woodfuel statistics – Production of woodfuels (ref. FAO)  
and consumption of Primary Solid Biomass (ref. IEA)



# Some mismatches between data sources

**France** woodfuel statistics – Production of woodfuels (ref. FAO) and consumption of Primary Solid Biomass (ref. IEA)



# Some mismatches between data sources: Brazil

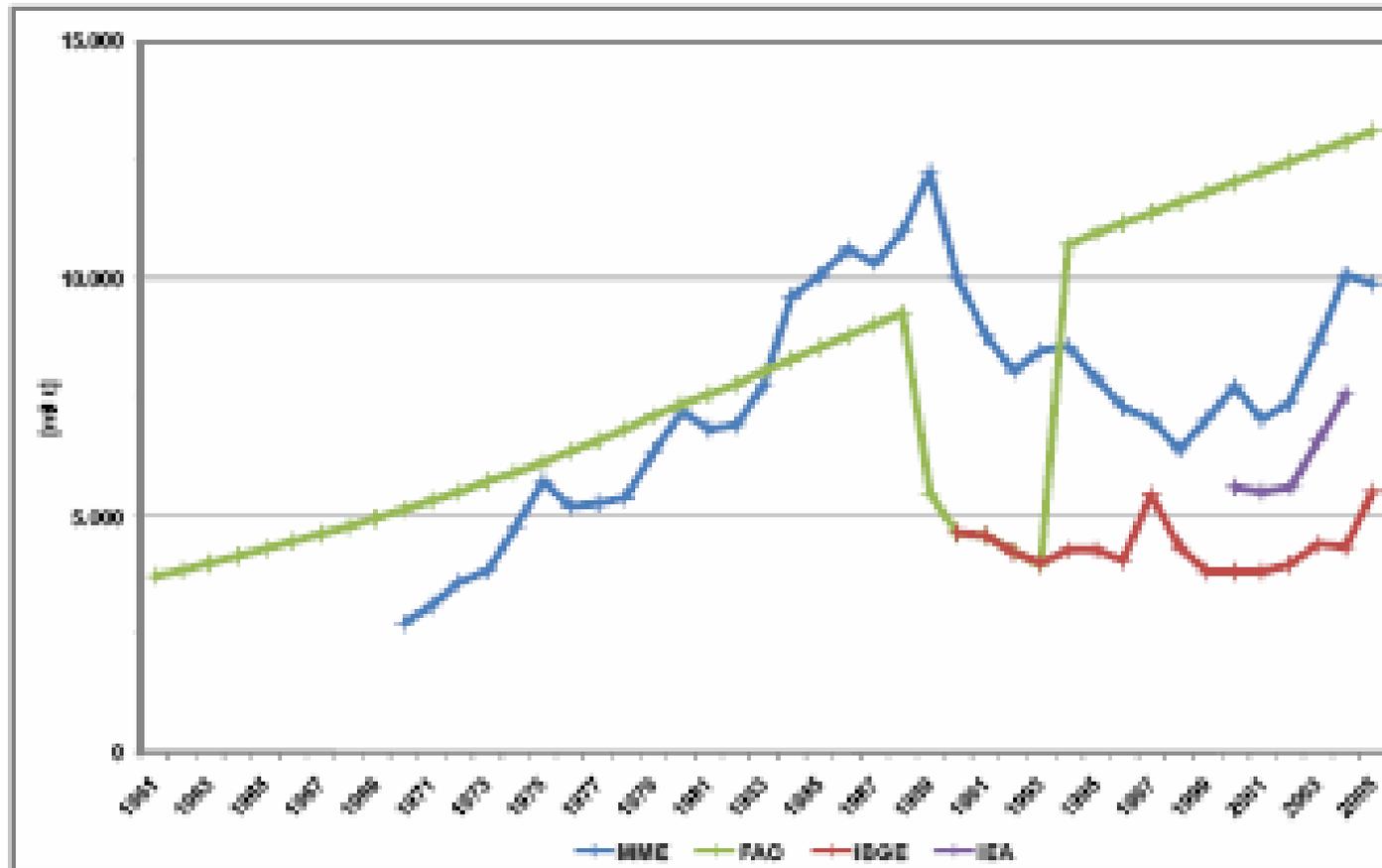
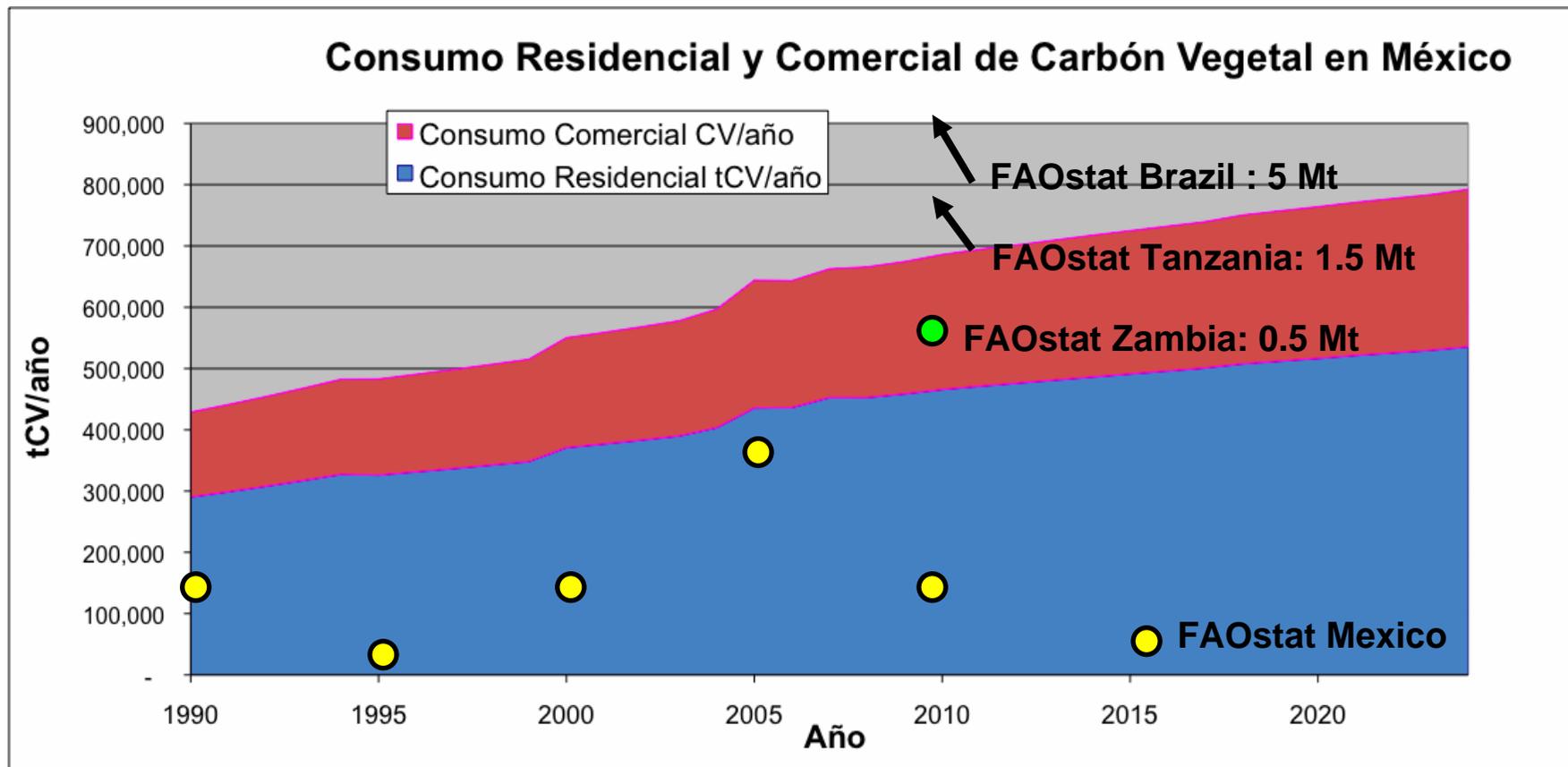


Figura 1.2 Consumo de carvão vegetal no Brasil, diferentes fontes, em milhares de toneladas

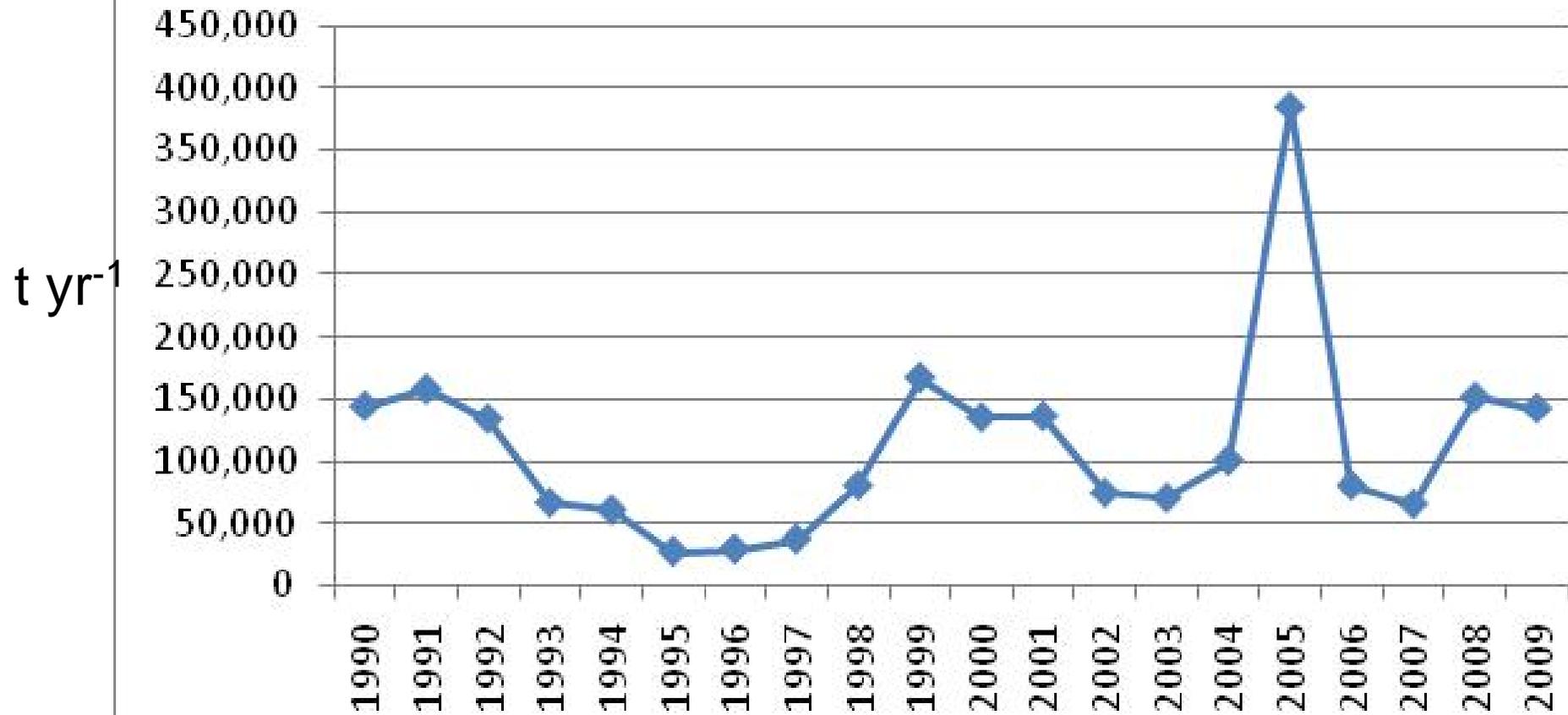
Fontes: BRASIL (2008a); FAOSTAT (2006); IBGE (2006 a e b) e IEA (2004a, 2005, 2006d)

# Charcoal use in Mexico: 1990-2024



	Production in 2009 (million metric tonnes)	Share (%)		% change	
		2004	2009	2004-2009	2008-2009
Africa	29.4	52	63	29.8	5.9
Asia	7.4	16	16	10.2	-1.4
Europe	0.5	1	1	5.4	-1.4
Latin America & Caribbean	8.8	29	19	-29.3	-27.4
Northern America	0.9	2	2	-0.7	0.8
Oceania	0.0	0	0	4.1	1.8
<b>WORLD</b>	<b>47.0</b>	<b>100</b>	<b>100</b>	<b>8.9</b>	<b>-3.6</b>

## Wood charcoal production Mexico







- t carbon vegetal**
- 35 - 4,000
  - 4,001 - 13,500
  - 13,501 - 55,000
  - 55,001 - 109,000

**Consumo de Carbono Vegetal en México por localidad 1990**

Consumo residencial más consumo comercial de carbón vegetal en México para el año 1990, localidades mayores a 10,000 habitantes.



1:12,000,000

Source: Arias T 2009, INEGI CENSO 1990.  
 Created in ArcGIS 9.2 using ArcMap.  
 Author: Ghilardi, A; Arias, T; Masera, O. & Guerrero G.

Información Geográfica de Referencia

Sistema de Coordenadas:  
 Albers Equal Area Conic Projection  
 Datum:  
 North American Datum 1927  
 Unidades Lineales: metros





Consumo de Carbón Vegetal en México por localidad 2000



Consumo de Carbon Vegetal en México por localidad en 2010



Consumo de Carbon Vegetal en México por localidad en 2020



Consumo de Carbon Vegetal en México por localidad en 2024

# ~~The~~ A way ahead

FAO wood energy is taking the lead in:

- Raising awareness of the importance of Collecting, Improving and Sharing accurate data on wood energy
- Formulating, implementing and monitoring of sound wood energy policies
- Facilitating cross-sectoral communication and collaboration
- Applying sustainable and resource efficient production and consumption

*Thanks for your attention*

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