



Post 2012 Roundtable: Agriculture

19 July 2007

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Principal Advisor Climate Change





The Kyoto Protocol

Greenhouse gases

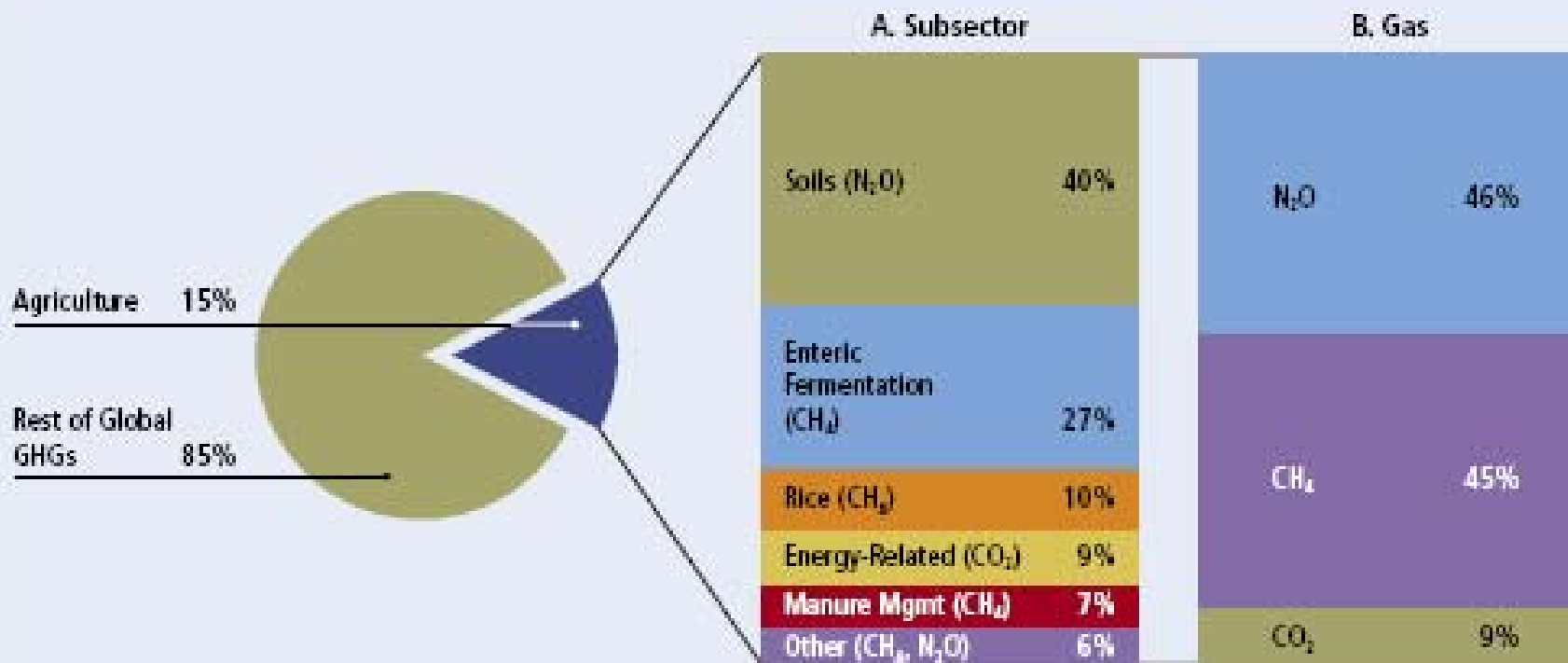
- Carbon dioxide (CO₂)
- Methane (CH₄)
- Nitrous oxide (N₂O)
- Hydrofluorocarbons (HFCs)
- Perfluorocarbons (PFCs)
- Sulphur hexafluoride (SF₆)

Sectors/source categories

- Energy
- Industrial Processes
- Solvent and other product use
- Agriculture
 - Enteric fermentation
 - Manure management
 - Rice cultivation
 - Agriculture soils
 - Prescribed burning of savannas
 - Field burning of agricultural residues
- Waste

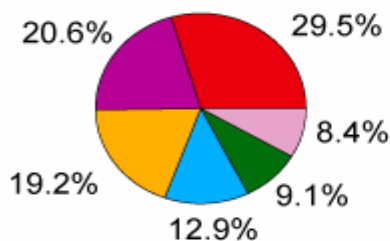
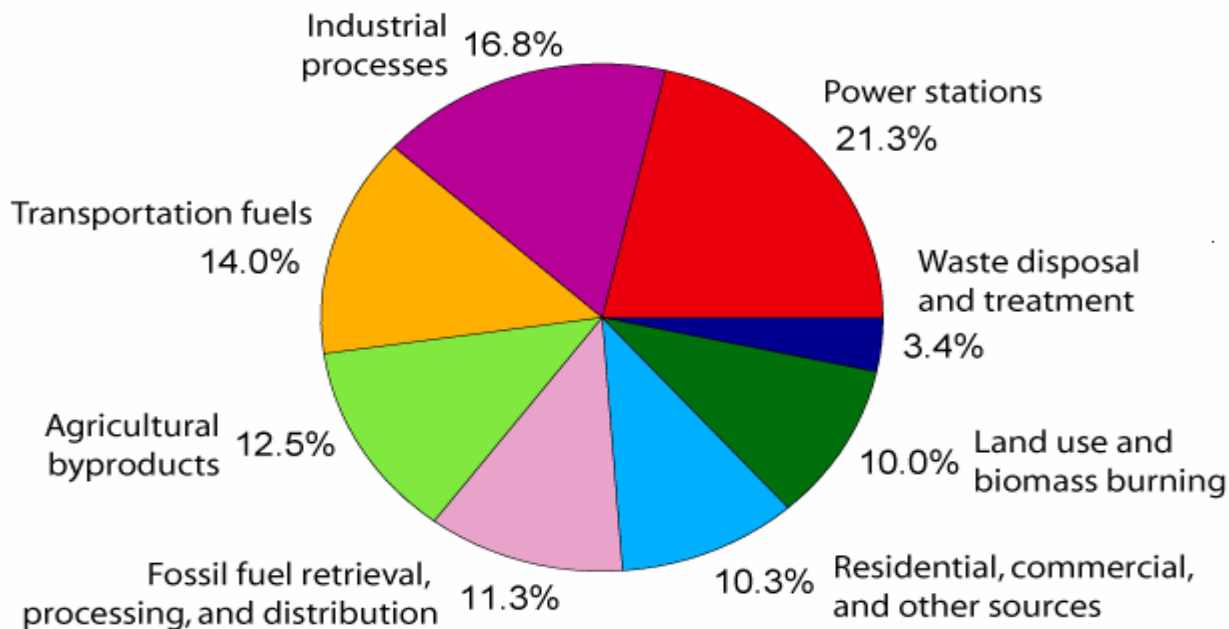


Figure 15.1. GHGs from Agriculture

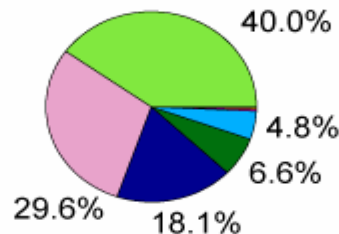


Sources & Notes: EPA, 2004. See Appendix 2.A for data sources Appendix 2.B for sector definition. Absolute emissions in this sector, estimated here for 2000, are 6,205 MtCO₂.

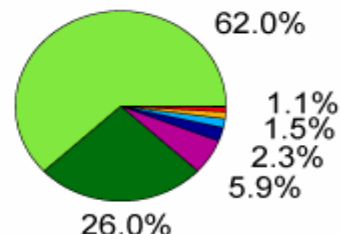
Annual Greenhouse Gas Emissions by Sector



Carbon Dioxide
(72% of total)



Methane
(18% of total)



Nitrous Oxide
(9% of total)



Comparison of agriculture emissions

	Agriculture CH ₄ and N ₂ O MtCO ₂ e	Total (excl LULUCF) all GHGs MtCO ₂ e	Percent Agriculture	Rank
New Zealand	35.6	71.2	50.0%	3
United States	444.1	6871.7	6.5%	21
Australia	103.1	491.2	21.0%	9
France	100.2	518.4	19.3%	11
Russian Federation	97.6	1915.7	5.1%	22
Germany	89.4	1013.3	8.8%	17
Canada	60.8	684.1	8.9%	16
United Kingdom	49.4	658.8	7.5%	19
Spain	43.6	381.9	11.4%	13
Italy	40.3	532.2	7.6%	18
Japan	34.1	1351.5	2.5%	23
Ireland	19.7	65.9	29.9%	7
Netherlands	15.8	215.5	7.3%	20
China	1008.5	4963.1	20.3%	10
India	639.3	1889.1	33.8%	6
Brazil	446.0	849.5	52.5%	2
Indonesia	123.0	504.6	24.4%	8
Argentina	116.7	289.2	40.4%	5
Mexico	59.9	525.8	11.4%	14
South Africa	39.8	417.6	9.5%	15
Peru	34.4	69.8	49.3%	4
Uruguay	17.7	25.5	69.4%	1
Chile	15.2	81.3	18.7%	12





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