



Swiss Centre for Life Cycle Inventories

A joint initiative of the
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ecoinvent data v2.0 Biomass production Introduction and overview

Thomas Nemecek, Agroscope Reckenholz-Tänikon
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Biomass production: session overview



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- T. Nemecek: Introduction and overview
- N. Jungbluth: Raw materials of imported biofuels
- T. Kägi: New agricultural products
- H.J. Althaus: Fibres and wood
- Discussion: general and needs for future development

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Datasets for the biomass production: Overview



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1. Datasets on agricultural means of production: infrastructure (buildings and machinery) and its usage, fertilisers, pesticides, seed and animal feed
2. Datasets on agricultural and biomass products:
 - Arable crop products
 - Grass products
 - Wood
 - Fibres

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Datasets for agricultural means of production



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- Not updated since ecoinvent version 1.x
- Further information see

http://www.ecoinvent.org/fileadmin/documents/en/presentation_papers/agriculture_DF_eng.pdf

(presentations of ecoinvent V1.0, fall 2003)

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Contents of Version 2.0 What is covered in agriculture?



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Production branches	Buildings	Machinery	Work processes	Inputs	Products CH	Products Europe	Products America	Products Asia
Arable crops	relevant	relevant	relevant	relevant	partly available	partly available	partly available	partly available
Fodder crops	relevant	relevant	relevant	relevant	partly available	not available	not available	not available
Horticulture (Field)	relevant	partly available	relevant	relevant	not available	not available	not available	not available
Horticulture (Greenhouse)	not available	partly available	relevant	relevant	not available	not available	not available	not available
Fruit growing	partly available	partly available	relevant	relevant	not available	not available	not available	not available
Vineyards	partly available	partly available	relevant	relevant	not available	not available	not available	not available
Cattle production	relevant	relevant	relevant	relevant	not available	not available	not available	not available
Pig production	relevant	relevant	relevant	relevant	not available	not available	not available	not available
Poultry production	not available	partly available	relevant	relevant	not available	not available	not available	not available
Sheep production	not available	partly available	relevant	relevant	not available	not available	partly available	not available

relevant datasets available
 partly available
 not available

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Contents of Version 2.0

Datasets of biomass production



Category	Subcategory	Number of datasets
agricultural means of production	buildings	23
agricultural means of production	machinery	6
agricultural means of production	work processes	39
agricultural means of production	mineral fertiliser	24
agricultural means of production	organic fertiliser	5
agricultural means of production	pesticides	68
agricultural means of production	seed	26
agricultural means of production	feed	10
agricultural production	plant production	120
agricultural production	animal production	4
biomass	production	4
wooden materials	extraction	123
wood energy	fuels	13
Total		465

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Crops and countries



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Crops	
barley	potato
cotton	protein peas
faba beans	ramie
fodder beets	rape seed
grain maize	rice
grass	rye
grass silage	silage maize
green manure	soy beans
hay	sugar beets
hemp	sugar cane
jute	sunflower
kenaf	sweet sorghum
oil palm	wheat

Cereals
Oil crops
Protein crops
Fibre crops
Grass

Countries
Brazil
Cameroon
China
Europe
France
Germany
Global
India
Malaysia
Philippines
Scandinavia
Spain
Switzerland
Thailand
USA

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6th International Conference on Life Cycle Assessment in the Agri-Food Sector



www.lcafood08.ch

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Towards a Sustainable Management of the Food Chain
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