

National Food Institute

Technical University of Denmark



Cereals – production, consumption and pesticides

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Cereals – production, consumption and pesticides

- Document available on www.cf.crl-pesticides.eu
- Includes some information on:
 - Production of cereals in EU Member States
 - Consumption of cereals in the EU Members States
 - Pesticides authorised for use in cereals
 - Intake of pesticides from cereals

Production of cereals in EU Member States 2006

	Cereal in total ^b	Common Wheat	Durum wheat	Barley	Oat ^d	Rye ^c	Maize	Rice
EU-25^a	245.2	108.6	8.9	54.8	11.1	6.7	44.8	2.6
Austria			0.8					
Czech Rep.								
Denmark				3.3		0.1		
Finland					1.1			
France	61.6	33.3	2.1	10.4		0.1	12.9	0.1
Germany	43.5	22.4		12.0	0.9	2.7	4.1	
Greece			1.1					0.2
Hungary							8.3	
Italy	18.7		3.9				9.7	1.4
Poland	21.8	7.1			4.2	2.8		
Portugal								0.2
Romania		5.5						
Spain			1.6	8.3	0.9	0.2	3.5	0.8
Sweden								
UK	20.9	14.7		5.3	0.7			

Consumption of cereals in the EU Members states

Commodity	Highest reported consumption (g/kg bw/day)	Model/Reporting MS	Average of all reported consumptions (g/kg bw/day)
Cereals (total)	11.89	WHO Cluster diet B	4.71
Barley	1.24	IE adult	0.17
Buckwheat	0.28	IE adult	0.02
Maize	2.47	WHO Cluster diet B	0.31
Millet	0.09	WHO Cluster diet D	0.01
Oats	0.40	DK child	0.07
Rice	0.79	PT general population	0.30
Rye	4.42	DK child	0.38
Sorghum	0.02	DE child	0.001
Wheat	8.54	WHO Cluster diet B	3.33
Other cereal	1.50	IT kids/toddler	0.08

Table 3.1. The highest chronic consumption of the different types of cereals reported for an EU-citizen and the average consumption of all reported consumptions.

Pesticides authorised for use in cereals

	Pesticide authorised for use in wheat	
	≥14 MS	14 > MS > 9
Fungicides	Azoxystrobin Epoxiconazole Fenpropidin Fenpropimorph Kresoxim-methyl Prochloraz Propiconazole Spiroxamin Tebuconazole Trifloxystrobin	Carbendazim' Carboxin' Chlorothanlonil' Cyproconazole' Difenoconazole' Fludioxonyl' Fluoxastrobin' Flutriafol' Guazatine (- F)' Mancozeb' Metconazole' Picozystrobin' Prothioconazole' Pyraclostrobin' Triadimenol' Triticonazol'
Herbicides	2,4-D Amidosulfuron Dichlorprop-P Fenoxaprop-P Florasulam Fluroxypyr Glyphosate Iodosulfuron-methyl-sodium MCPA Mecoprop-p Pendimethalin Sulfosulfuron (- winter wheat F)	Bentazone Carfentrazone-ethyl Dicamba Diflufenican Flupyrsulfuron methyl Isoproturon Metsulfuron Propoxycarbazone Thifensulfuron Triasulfuron (-winter wheat F) Tribenuron
Insecticides¹	Lambda-Cyhalothrin	Alpha-cypermethrin Deltamethrin Esfenvalerate Pirimicarb
Plant growth regulators	Chlormequat Trinexapac	Ethephon

Table 4.1. A summary of data on which **fungicides, herbicides, insecticides and plant growth regulators** are authorised for use in **wheat** in 1) 14 or more and 2) more than 9 but less than 14 northern and central European member states.

New updated version in 2009

- Update of production figures
- More information on authorisations
- Include information about feeding stuff.

Cereal production for both human and animal consumption

	Total cereals	Common wheat	Durum wheat	Barley	Rye	Maize	Oats ^a
Human consumption (%)	23	40	87	0.7	42	6	17
Animal feed (%)	63	49	4	75	30	83	75
EU Self sufficiency (%)	98	101	88	106	89	92	89

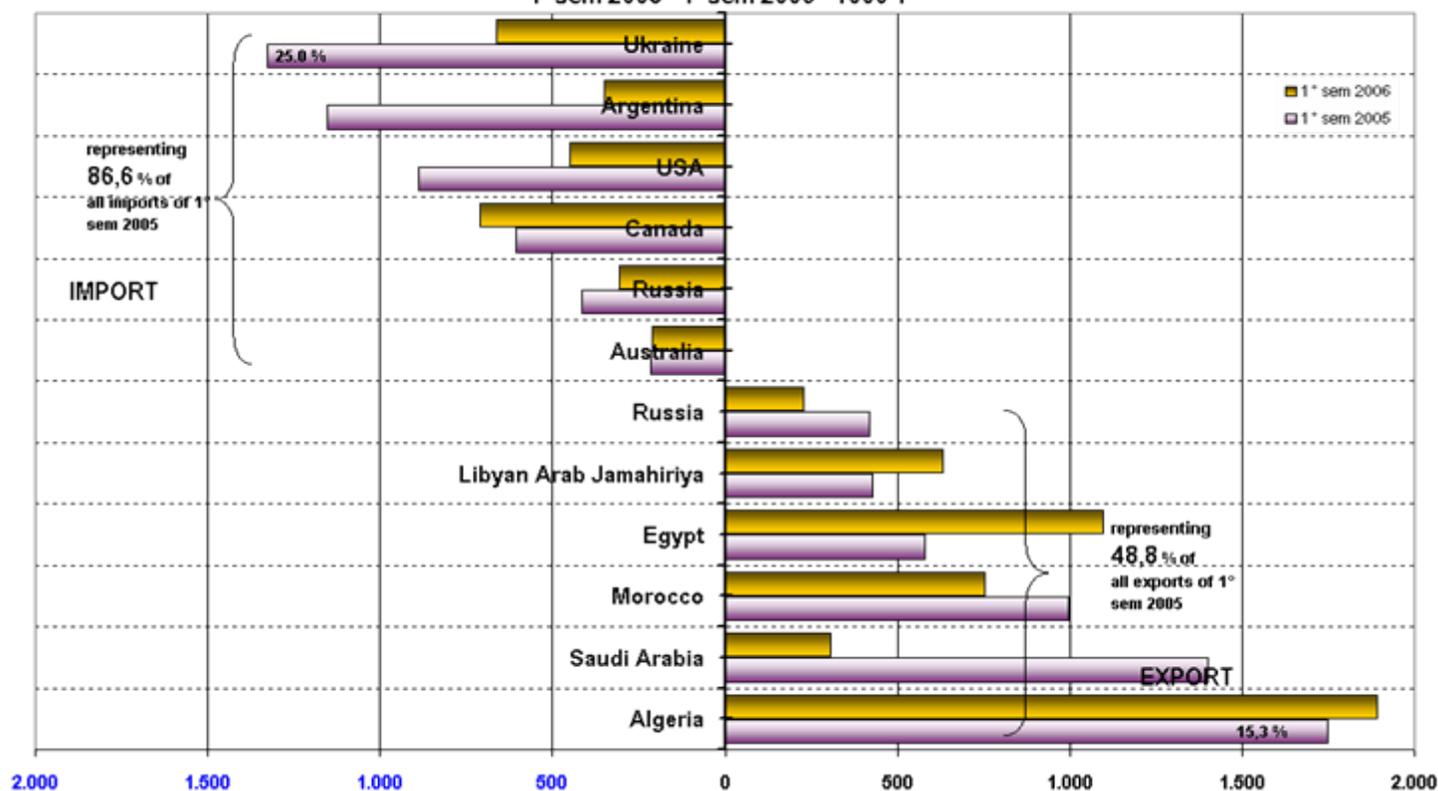
http://ec.europa.eu/agriculture/agrista/tradestats/index_sem.htm

Cereal import and export in EU (2005 and 2006)

Total EU-25 IMPORTS
1° sem 2006 3.930.000 t
1° sem 2005 5.317.000 t

CEREALS: EU-25 MAIN MARKETS
1°sem 2005 - 1°sem 2006 - 1000 T

Total EU-25 EXPORTS
1° sem 2006 12.377.000 t
1° sem 2005 11.406.000 t



Our intensions with this document

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