

**Emission factors for PM for the year 2000 (IIASA)<sup>1</sup>.**  
**From crops**

	Greece				GB	
	PM10	PM10	PM10	PM2.5 <sup>2</sup>	PM10	PM2.5
	land preparation	harvest	total		total	
Crop types	kg/ha/a	kg/ha/a	kg/ha/a	kg/ha/a	kg/ha/a	kg/ha/a
Barley	4.15	1.95	6.10	1.35	6.945	1.136
Cotton irrigated	4.43	3.78	8.21	1.82	.	.
Cherry trees	0.08	0.09	0.17	0.04	.	.
Fallow land	1.35	0.00	1.35	0.30	.	.
Fodder crops	4.48	0.00	4.48	1.00	3.192	0.240
Fruits	.	.	.	.	0.000	0.000
Maize irrigated	5.25	1.88	7.13	1.58	.	.
Maize non-irrigated	.	.	.	.	2.820	0.220
Oat	4.15	2.60	6.75	1.50	9.145	1.624
Oilseed	.	.	.	.	6.945	1.136
Olive groves	0.08	0.09	0.17	0.04	.	.
Other cereals	4.15	1.23	5.38	1.19	6.945	1.136
Pastures	0.00	0.00	0.00	0.00	0.000	0.000
Potatoes	25.56	1.91	27.46	6.10	2.870	0.231
Pomefruits	0.08	0.09	0.17	0.04	.	.
Pulses	.	.	.	.	6.945	1.136
Rice	22.42	1.88	24.30	5.39	.	.
Rough grazing					0.000	0.000
Rye	4.15	1.23	5.38	1.19	.	.
Soya	8.63	1.88	10.51	2.33	.	.
Stonefruits	0.08	0.09	0.17	0.04	.	.
Sugarbeets	25.56	1.88	27.44	6.09	2.820	0.220
Vegetables	.	.	.	.	2.820	0.220
Vineyards	1.68	0.19	1.87	0.42	.	.
Wheat	4.15	2.25	6.40	1.42	9.480	1.698

<sup>1</sup>IIASA: GAINS model, <http://www.iiasa.ac.at/web-apps/apd/gains/EU/index.login?logout=1>

<sup>2</sup>There are no PM2.5 emission factors differentiating between land operations and harvesting.

**From animals (Hinz, 2007)<sup>1</sup>**

	Greece		GB	
	PM10	PM2.5	PM10	PM2.5
Animal types	kg/head	kg/head	kg/head	kg/head
Beef	0.236	0.053	0.216	0.048
Cows	0.217	0.048	0.216	0.048
Horses	0	0	0	0
Laying hens	0.047	0.011	0.047	0.011
Other poultry	0.047	0.011	0.047	0.011
Pigs	0.438	0.078	0.423	0.075
Sheep, goats	0	0	0	0

<sup>1</sup>Hinz, Torsten; van der Hoek, Klaas: Particle Emissions from Plant Production. Presentation at the TFEIP meeting. Dublin, October 2007.

**Emission factors for NH<sub>3</sub> from animals for year 2000 (IIASA)<sup>1</sup>.**

	Greece	GB
	NH <sub>3</sub>	NH <sub>3</sub>
Animal types	kg/head	kg/head
Beef	12.06	8.833
Cows	18.10	30.320
Horses	8.05	12.750
Laying hens	0.36	0.459
Other poultry	0.30	0.168
Sheep, goats	0.88	0.499
Pigs	5.10	5.957

<sup>1</sup>IIASA: GAINS model, <http://www.iiasa.ac.at/web-apps/apd/gains/EU/index.login?logout=1>

**NH<sub>3</sub> emission factors from fertiliser use for year 2000 (IIASA)<sup>1</sup>.**

	Greece	GB
	kg NH <sub>3</sub> /kg N	kg NH <sub>3</sub> /kg N
Mineral fertiliser use	0.05	0.032
NH <sub>3</sub> from biological N fixation (legumes)	0.01	0.01

<sup>1</sup>IIASA: GAINS model, <http://www.iiasa.ac.at/web-apps/apd/gains/EU/index.login?logout=1>

To estimate NH<sub>3</sub> emissions from mineral fertiliser use, the N application rate must be available.

**Average mineral N application rates (from fertilizers) for various crops (FertiStat, IFA)<sup>1</sup>.**

	Greece	GB
Crops	kg/ha	kg/ha
Barley	75	118
Cotton	75	.
Fodder	43.4	103.7
Fruits	57	50
Maize	190	150
Oat		118
Oilseed		185
Olive groves	200	.
Other cereals	85	100
Pastures <sup>2</sup>	50	95
Potatoes	200	155
Pulses <sup>2</sup>		250
Rice	100	.
Rough grazing <sup>2</sup>		20
Soya	200	.
Sugarbeets	140	100
Vegetables		125
Vineyards	60	.
Wheat	70	183

<sup>1</sup>FAO Fertilizer Use Statistics.

[http://www.fao.org/ag/agl/fertistat/fst\\_fubc\\_en.asp](http://www.fao.org/ag/agl/fertistat/fst_fubc_en.asp)

<sup>2</sup>Biological N fixation.