

Assessment of Fertilizer Use by Crop at the Global Level

2006/07 – 2007/08

Patrick Heffer
International Fertilizer Industry Association (IFA)

International Fertilizer Industry Association (IFA) - 28, rue Marbeuf - 75008 Paris - France
Tel. +33 1 53 93 05 00 - Fax +33 1 53 93 05 45/47 - ifa@fertilizer.org - www.fertilizer.org

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Explanatory Notes

Fully understanding the contribution of the different crop types to fertilizer use at the national, regional and global levels is a key component of fertilizer market analysis and a prerequisite to the development of sound fertilizer demand forecasts. In that connection, the International Fertilizer Industry Association (IFA) gathers information on fertilizer use by crop in the main fertilizer-consuming countries. Country information currently available at the IFA Secretariat covers 23 countries (considering the EU-27 as a single country). These countries, account together for 92% of world fertilizer consumption, making it possible to analyze fertilizer use by crop type at the global level.

In the analysis, crops have been divided into eleven groups as follows:

- Wheat;
- Rice;
- Maize;
- Other coarse grains (CG): barley, oats, rye, triticale, sorghum, millet, etc;
- Soybean;
- Oil palm;
- Other oilseeds (OS): rapeseed/canola, mustard, sunflower, groundnut, etc;
- Cotton;
- Sugar crops: sugar cane and sugar beet;
- Fruits and vegetables;
- Other crops: roots and tubers, pulses, nuts, rubber, coffee, tea, tobacco, ornamentals, turf, pastures, forestry, etc.

When fertilizer use by crop data was not available for 2006-2006/07 and 2007-2007/08, the same percentages have been applied to the two campaigns as a proxy.

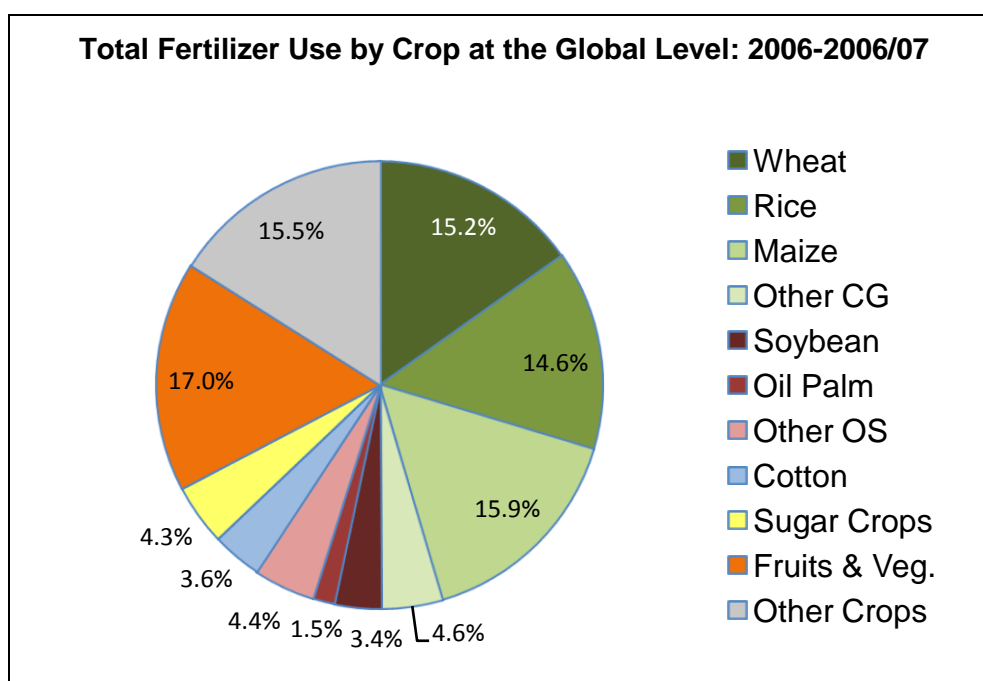
Total nutrient consumption figures used in the report are those of the report “Short-Term Prospects for World Agriculture and Fertilizer Demand: 2007/08 – 2009/10” issued in November 2008 (AgCom/08/62 – A/08/156). Country data on fertilizer use by crop have been adjusted accordingly.

Data on fertilizer use by crop in 2006-2006/07 and 2007-2007/08 in the selected 23 countries are given in the tables at the end of this report.

Information on fertilizer use by crop is expected to be progressively improved as data on additional countries (e.g. Japan, South Korea, Belarus, Ukraine, New Zealand) is available and information on existing countries is fine-tuned.

Total Fertilizer Use by Crop

According to the latest data for 2006-2006/07¹, fertilizer applications to cereals would amount to 81.0 million metric tonnes (Mt) nutrients, i.e. half (50.2%) of world fertilizer uses. This level is considerably lower than the “conventionally agreed” figure of 60%. This can be explained by the high contribution of fruits and vegetables, which is estimated at 27.4 Mt, or 17.0% of world fertilizer consumption. Fertilizer applications to the three main cereals are of similar magnitude: 15.9% for maize, 15.2% for wheat and 14.6% for rice. Fertilizer use on the other cereals represents 4.6% of the world total. Oil crops account together for 9.3% of world fertilizer consumption (15.0 Mt), with market shares of 3.4% for soybean, 1.5% for oil palm and 4.4% for the other oilseeds. Cotton receives some 3.6% of the fertilizer applied worldwide. Use on the other fibre crops is negligible. Sugar cane and sugar beet together account for some 4.3% of world fertilizer uses. The other crops receive the remaining 15.5%.



Preliminary estimates for 2007-2007/08 point to an increase of fertilizer application to cereals to 83.8 Mt, but their share of world fertilizer consumption would contract to 49.7%. Most of this decline is due to less attractive maize prices, which resulted in a smaller area planted to that crop, which was also less intensively cultivated. The contribution of rice to fertilizer applications also slightly contracted. The share of all the other crop categories is seen either stable or up. Oilseeds would increase their contribution from 9.3% to 9.7%, mostly driven by a strong increase in applications to soybean (3.7% vs. 3.4%). The contribution of applications to cotton is seen stable, while that of sugar crops, fruits and vegetables and other crops is seen up 0.1 to 0.2%.

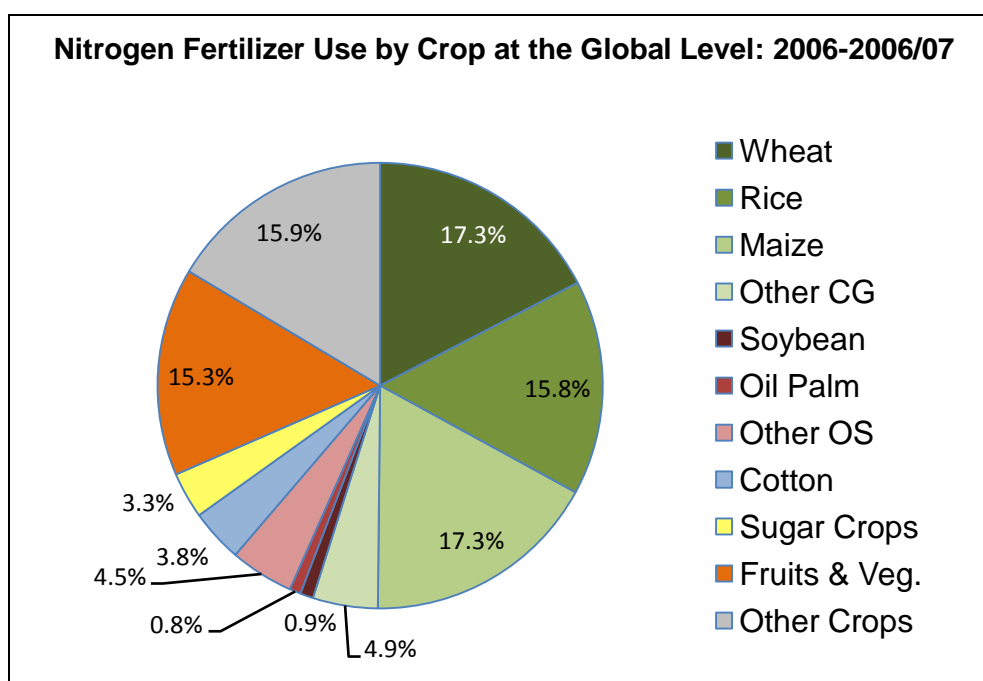
¹ In 2006 for countries with fertilizer consumption statistics in calendar years, and in 2006/07 for countries with statistics in fertilizer years.

Total Fertilizer Use by Crop at the Global Level

Crop Category	2006-2006/07	2007-2007/08	2006-2006/07	2007-2007/08
	Quantity (Mt N + P ₂ O ₅ + K ₂ O)		Share (%)	
Wheat	24.5	25.5	15.2	15.1
Rice	23.5	24.3	14.6	14.4
Maize	25.6	25.8	15.9	15.3
Other Cereals	7.4	8.1	4.6	4.8
<i>Cereals</i>	<i>81.0</i>	<i>83.8</i>	<i>50.2</i>	<i>49.7</i>
Soybean	5.4	6.3	3.4	3.7
Oil Palm	2.5	2.6	1.5	1.6
Other Oilseeds	7.1	7.4	4.4	4.4
<i>Oilseeds</i>	<i>15.0</i>	<i>16.3</i>	<i>9.3</i>	<i>9.7</i>
Cotton	5.9	6.2	3.6	3.6
Sugar Crops	7.0	7.5	4.3	4.5
Fruits & Veg.	27.4	28.9	17.0	17.1
Other Crops	25.0	26.2	15.5	15.6
Total	161.2	168.9	100.0	100.0

Nitrogen Fertilizer Use by Crop

It is estimated that 53.0 Mt N were applied to cereals in 2006-2006/07, representing 55.3% of world fertilizer N consumption. Wheat and maize both contribute to 17.3% of world uses, followed by rice (15.8%). Other cereals receive 4.6% of the fertilizer N. Oil crops are minor contributors to N fertilizer uses, with a market share of 6.3% (6.0 Mt N), rapeseed/canola being the main consumer. Cotton and sugar crops represent 3.8% and 3.3% of global fertilizer N uses, respectively. Fruits and vegetables account for 15.3% of the total, and other crops for 15.9%



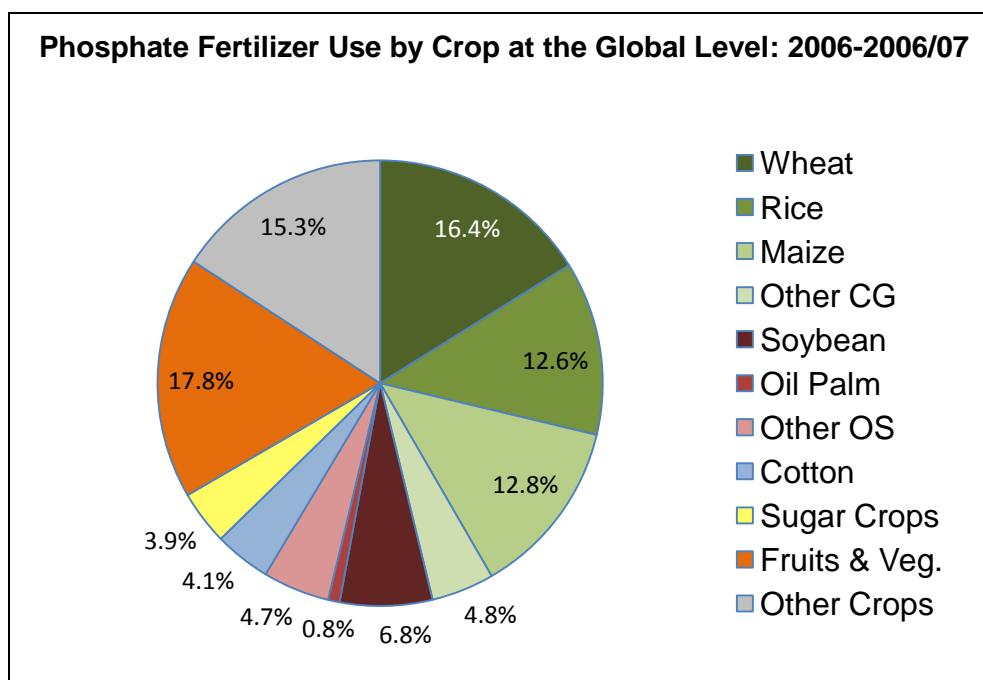
Preliminary estimates for 2007-2007/08 point to an increase of fertilizer N applications to cereals to 55.1 Mt, but cereals' contribution to global fertilizer N uses would decline from 55.3% to 54.8%, mostly due to a drop of maize's share.

Nitrogen Fertilizer Use by Crop at the Global Level

Crop Category	2006-2006/07	2007-2007/08	2006-2006/07	2007-2007/08
	Quantity (Mt N)		Share (%)	
Wheat	16.6	17.4	17.3	17.3
Rice	15.1	15.7	15.8	15.6
Maize	16.6	16.9	17.3	16.8
Other Cereals	4.7	5.1	4.9	5.1
<i>Cereals</i>	<i>53.0</i>	<i>55.1</i>	<i>55.3</i>	<i>54.8</i>
Soybean	0.9	1.0	0.9	1.0
Oil Palm	0.8	0.8	0.8	0.8
Other Oilseeds	4.4	4.5	4.5	4.5
<i>Oilseeds</i>	<i>6.0</i>	<i>6.3</i>	<i>6.3</i>	<i>6.3</i>
Cotton	3.7	4.0	3.8	3.9
Sugar Crops	3.2	3.4	3.3	3.4
Fruits & Veg.	14.7	15.7	15.3	15.6
Other Crops	15.3	16.1	15.9	16.0
Total	95.8	100.5	100.0	100.0

Phosphate Fertilizer Use by Crop

As far as phosphorus is concerned, it is estimated that cereals received 17.8 Mt P₂O₅ in 2006-2006/07, represented 46.6% of world fertilizer P uses, with a higher contribution of wheat (16.4%) compared to maize (12.8%) and rice (12.6%). Oil crops account for 12.3% of total consumption (4.7 Mt P₂O₅), with soybean representing 6.8% and the other annual oilseeds 4.7%. Cotton and sugar crops contribute to 4.1% and 3.9% of fertilizer P consumption, respectively. Fruits and vegetables is the main P-consuming crop category, with a 17.8% market share. Other crops are responsible for the use of the remaining 15.3%.



Preliminary estimates for 2007-2007/08 show a significant contraction of the proportion of P fertilizers being applied to cereals, which is seen down 0.6% point to 46.0%. The contribution of all three major cereals would decline, with drops of a larger magnitude for maize than for

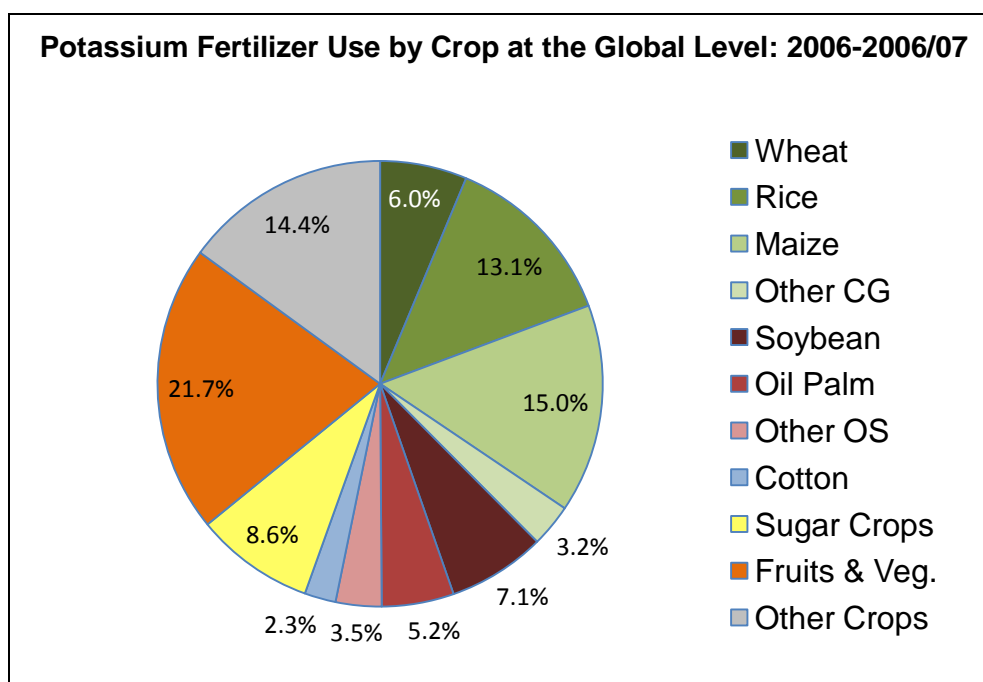
rice and wheat. The decline in the share of fertilizer P applied to cereals is offset by a significant increase in oilseeds. P applications to soybean are seen sharply up (7.5%).

Phosphate Fertilizer Use by Crop at the Global Level

Crop Category	2006-2006/07	2007-2007/08	2006-2006/07	2007-2007/08
	Quantity (Mt P ₂ O ₅)		Share (%)	
Wheat	6.3	6.4	16.4	16.2
Rice	4.8	4.8	12.6	12.3
Maize	4.9	4.9	12.8	12.4
Other Cereals	1.8	2.0	4.8	5.1
<i>Cereals</i>	<i>17.8</i>	<i>18.1</i>	<i>46.6</i>	<i>46.0</i>
Soybean	2.6	3.0	6.8	7.5
Oil Palm	0.3	0.3	0.8	0.8
Other Oilseeds	1.8	1.9	4.7	4.7
<i>Oilseeds</i>	<i>4.7</i>	<i>5.2</i>	<i>12.3</i>	<i>13.1</i>
Cotton	1.6	1.6	4.1	4.0
Sugar Crops	1.5	1.5	3.9	3.9
Fruits & Veg.	6.8	7.0	17.8	17.9
Other Crops	5.8	6.1	15.3	15.1
Total	38.2	39.3	100.0	100.0

Potassium Fertilizer Use by Crop

According to the latest data, K fertilizer applications to cereals amounted to 10.1 Mt K₂O in 2006-2006/07, i.e. 37.3% of world fertilizer K consumption, with a low contribution of wheat (6.0%) compared to rice (13.1%) and maize (15.0%). Oil crops represent 15.8% of the total (4.3 Mt K₂O), with more than three fourths being applied to soybean (7.1%) and oil palm (5.2%) together. K fertilizer use on cotton is modest (2.3%). High K-consuming crops (oil palm, sugar crops, fruits and vegetables) account together for some 35% of world K uses. The remaining 14.4% are applied to other crops.



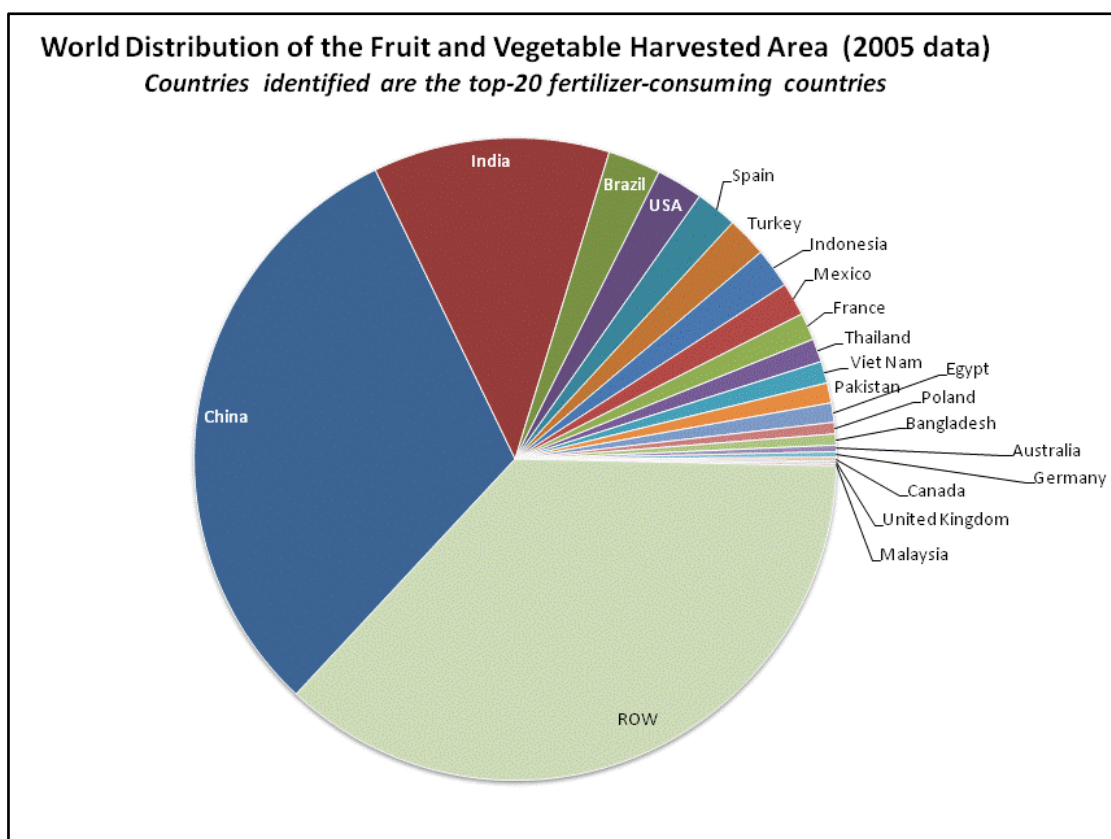
Preliminary estimates to 2007-2007/08 also point to a smaller share of K fertilizers being applied to cereals (36.7%), with a 0.8% point reduction for maize (14.2%). This decline is more than offset by an increase of 1.0% point of soybean's share (8.1%).

Potassium Fertilizer Use by Crop at the Global Level

Crop Category	2006-2006/07	2007-2007/08	2006-2006/07	2007-2007/08
	Quantity (Mt K ₂ O)		Share (%)	
Wheat	1.6	1.7	6.0	6.0
Rice	3.6	3.8	13.1	13.3
Maize	4.1	4.1	15.0	14.2
Other Cereals	0.9	0.9	3.2	3.3
<i>Cereals</i>	<i>10.1</i>	<i>10.6</i>	<i>37.3</i>	<i>36.7</i>
Soybean	1.9	2.3	7.1	8.1
Oil Palm	1.4	1.5	5.2	5.1
Other Oilseeds	1.0	1.0	3.5	3.5
<i>Oilseeds</i>	<i>4.3</i>	<i>4.8</i>	<i>15.8</i>	<i>16.6</i>
Cotton	0.6	0.6	2.3	2.2
Sugar Crops	2.3	2.5	8.6	8.8
Fruits & Veg.	5.9	6.2	21.7	21.5
Other Crops	3.9	4.1	14.4	14.1
Total	27.2	28.9	100.0	100.0

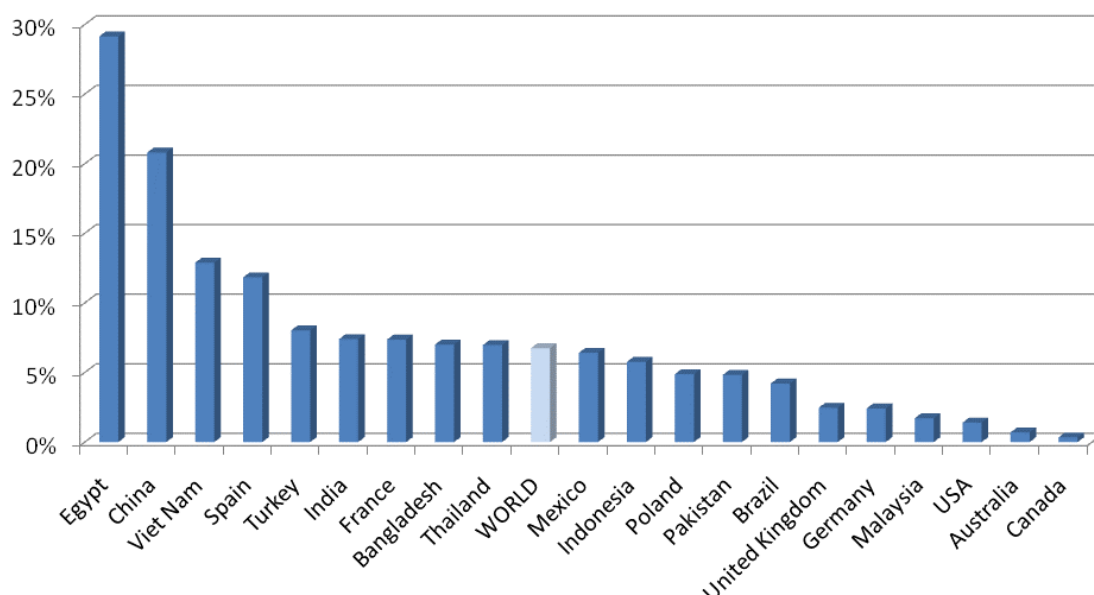
Highlight on Fruits and Vegetables in China

In terms of harvested area, world fruit and vegetable production is dominated by two countries: China and India.



In China, the fruit and vegetable area accounts for more than one fifth of the country's area planted to arable and permanent crops. In the top-20 fertilizer-consuming countries, only Egypt grows a larger share of fruits and vegetables.

**Share of the Arable and Permanent Crops Area
Dedicated to Fruits and Vegetables in
the Top-20 Fertilizer-Consuming Countries (2005 data)**



In order to improve their income, Chinese farmers have continuously increased the area planted to fruits and vegetables over the past two decades. They also apply very intensive farming practices to these crops, including high fertilizer application rates.

As a result of the large area and intensive practices, it is not surprising that fruits and vegetables account for one third of total fertilizer consumption in China (31% of the nitrogen, 34% of the phosphate and 50% of the potash in 2007).

China also accounts for some 60% of the world applications to fruits and vegetables since average fertilizer application rates to these crops in the other top-20 fertilizer-consuming countries are often lower.

Estimates of Fertilizer Use by Crop in Selected Countries in 2006-2006/07 ('000 tonnes nutrients)

				CEREALS								OILSEEDS																	
				Wheat		Rice		Maize		Other CG		Soybean		Oil Palm		Other OS													
		Total	% of World	%	Qty	%	Qty	%	Qty	%	Qty	%	Qty	%	Qty	%	Qty	%	Qty	%	Qty	%	Qty	%	Qty	%	Qty	%	Qty
China	N	30 200	31.5%	14.1%	4 258	18.2%	5 496	16.1%	4 862	1.0%	302	1.5%	453	0.0%	6	4.8%	1 450	4.1%	1 238	1.5%	453	30.0%	9 060	8.7%	2 621				
	P ₂ O ₅	11 600	30.3%	16.5%	1 914	15.3%	1 775	6.6%	766	1.0%	116	3.3%	383	0.0%	2	5.0%	580	3.9%	452	2.2%	255	34.0%	3 944	12.2%	1 413				
	K ₂ O	5 800	21.4%	4.4%	255	28.0%	1 624	2.2%	128	1.0%	58	1.0%	58	0.1%	6	2.3%	133	1.2%	70	4.8%	278	50.0%	2 900	5.0%	290				
	N+P+K	47 600	29.5%	13.5%	6 427	18.7%	8 895	12.1%	5 755	1.0%	476	1.9%	894	0.0%	14	4.5%	2 163	3.7%	1 760	2.1%	987	33.4%	15 904	9.1%	4 325				
India	N	13 773	14.4%	21.0%	2 892	30.0%	4 132	2.5%	344	4.5%	620	1.0%	138	0.0%	0	4.5%	620	6.5%	895	5.0%	689	7.0%	964	18.0%	2 479				
	P ₂ O ₅	5 543	14.5%	20.0%	1 109	25.0%	1 386	1.5%	83	5.0%	277	2.5%	139	0.0%	0	7.0%	388	8.0%	443	4.5%	249	11.0%	610	15.5%	859				
	K ₂ O	2 335	8.6%	8.0%	187	34.0%	794	1.0%	23	2.5%	58	1.0%	23	0.0%	0	5.0%	117	5.5%	128	10.0%	234	22.0%	514	11.0%	257				
	N+P+K	21 651	13.4%	19.3%	4 188	29.2%	6 312	2.1%	451	4.4%	955	1.4%	300	0.0%	0	5.2%	1 125	6.8%	1 467	5.4%	1 172	9.6%	2 088	16.6%	3 595				
USA	N	11 970	12.5%	13.4%	1 604	1.9%	227	48.4%	5 793	3.4%	407	0.8%	96	0.0%	0	1.5%	180	2.4%	287	1.0%	120	4.2%	503	23.0%	2 753				
	P ₂ O ₅	4 148	10.8%	13.7%	568	0.9%	37	48.6%	2 016	2.3%	95	7.4%	307	0.0%	0	2.1%	87	3.1%	129	1.1%	46	5.8%	241	15.0%	622				
	K ₂ O	4 657	17.1%	4.8%	224	0.8%	37	50.0%	2 329	1.0%	47	10.8%	503	0.0%	0	2.0%	93	3.3%	154	2.9%	135	6.8%	317	17.6%	820				
	N+P+K	20 775	12.9%	11.5%	2 396	1.5%	302	48.8%	10 138	2.6%	549	4.4%	906	0.0%	0	1.7%	360	2.7%	570	1.4%	300	5.1%	1 060	20.2%	4 195				
EU-27	N	10 746	11.2%	26.0%	2 794	0.4%	43	12.0%	1 290	16.0%	1 719	0.1%	11	0.0%	0	9.2%	989	0.5%	54	2.1%	226	7.5%	806	26.2%	2 815				
	P ₂ O ₅	3 091	8.1%	19.5%	603	0.5%	15	13.2%	408	15.9%	491	0.3%	9	0.0%	0	8.2%	253	0.7%	22	3.6%	111	13.4%	414	24.7%	763				
	K ₂ O	3 592	13.2%	12.7%	456	0.9%	32	11.9%	427	12.8%	460	0.3%	11	0.0%	0	9.9%	356	0.6%	22	5.9%	212	14.4%	517	30.6%	1 099				
	N+P+K	17 429	10.8%	22.1%	3 853	0.5%	91	12.2%	2 125	15.3%	2 671	0.2%	31	0.0%	0	9.2%	1 598	0.6%	97	3.1%	549	10.0%	1 737	26.8%	4 678				
Brazil	N	2 297	2.4%	3.0%	69	7.1%	163	29.4%	675	4.1%	94	3.8%	87	0.2%	5	0.1%	2	7.4%	170	23.3%	535	6.8%	156	14.8%	340				
	P ₂ O ₅	3 149	8.2%	2.1%	66	4.6%	145	20.6%	649	2.0%	63	41.3%	1 301	0.1%	3	0.1%	3	4.5%	142	8.7%	274	5.0%	157	11.0%	346				
	K ₂ O	3 460	12.7%	1.8%	62	4.1%	142	16.7%	578	0.9%	31	34.7%	1 201	0.2%	7	0.1%	3	4.1%	142	20.6%	713	5.4%	187	11.4%	394				
	N+P+K	8 906	5.5%	2.2%	197	5.1%	450	21.4%	1 902	2.1%	188	29.1%	2 588	0.2%	15	0.1%	9	5.1%	454	17.1%	1 522	5.6%	500	12.1%	1 081				
Pakistan	N	2 649	2.8%	37.9%	1 004	9.4%	249	4.8%	127	0.6%	16	0.0%	0	0.0%	0	1.1%	29	18.8%	498	6.6%	175	3.8%	101	17.0%	450				
	P ₂ O ₅	979	2.6%	35.2%	345	9.1%	89	6.2%	61	0.5%	5	0.0%	0	0.0%	0	1.5%	15	16.0%	157	8.1%	79	4.1%	40	19.3%	189				
	K ₂ O	43	0.2%	34.0%	15	11.0%	5	11.0%	5	0.0%	0	0.0%	0	0.0%	0	0.0%	0	9.0%	4	11.0%	5	11.0%	5	13.0%	6				
	N+P+K	3 671	2.3%	37.1%	1 363	9.3%	343	5.2%	193	0.6%	21	0.0%	0	0.0%	0	1.2%	44	17.9%	659	7.1%	259	4.0%	146	17.6%	645				
Indonesia	N	2 350	2.5%	0.0%	0	45.0%	1 058	15.0%	353	0.0%	0	0.4%	9	13.0%	306	1.0%	24	0.1%	1	2.0%	47	9.0%	212	14.6%	342				
	P ₂ O ₅	480	1.3%	0.0%	0	22.0%	106	15.0%	72	0.0%	0	3.0%	14	25.0%	120	3.0%	14	0.2%	1	5.0%	24	10.0%	48	16.9%	81				
	K ₂ O	800	2.9%	0.0%	0	14.0%	112	10.0%	80	0.0%	0	0.6%	5	48.0%	384	1.0%	8	0.1%	0	9.0%	72	12.0%	96	5.4%	43				
	N+P+K	3 630	2.3%	0.0%	0	35.1%	1 275	13.9%	505	0.0%	0	0.8%	29	22.3%	810	1.3%	46	0.1%	2	3.9%	143	9.8%	356	12.8%	466				
Canada	N	1 758	1.8%	33.6%	591	0.0%	0	8.9%	156	14.7%	258	0.5%	9	0.0%	0	20.4%	359	0.0%	0	0.5%	9	0.6%	11	20.8%	366				
	P ₂ O ₅	469	1.2%	36.9%	173	0.0%	0	8.8%	41	17.6%	83	6.2%	29	0.0%	0	16.9%	79	0.0%	0	0.6%	3	0.7%	3	12.3%	58				
	K ₂ O	382	1.4%	9.4%	36	0.0%	0	22.5%	86	2.8%	11	8.1%	31	0.0%	0	20.8%	79	0.0%	0	0.6%	2	1.9%	7	33.9%	129				
	N+P+K	2 609	1.6%	30.6%	800	0.0%	0	10.9%	284	13.5%	352	2.6%	69	0.0%	0	19.8%	517	0.0%	0	0.5%	14	0.8%	21	21.2%	553				
Vietnam	N	1 123	1.2%	0.0%	0	68.0%	764	12.0%	135	0.0%	0	0.7%	8	0.0%	0	1.5%	17	0.2%	2	4.0%	45	3.0%	34	10.6%	119				
	P ₂ O ₅	600	1.6%	0.0%	0	72.0%	432	7.5%	45	0.0%	0	1.5%	9	0.0%	0	3.0%	18	0.1%	1	2.5%	15	4.0%	24	9.4%	56				
	K ₂ O	408	1.5%	0.0%	0	66.0%	269	6.5%	27	0.0%	0	1.5%	6	0.0%	0	3.0%	12	0.1%	0	8.0%	33	5.0%	20	9.9%	40				
	N+P+K	2 131	1.3%	0.0%	0	68.7%	1 465	9.7%	206	0.0%	0	1.1%	23	0.0%	0	2.2%	47	0.2%	3	4.3%	93	3.7%	78	10.1%	216				
Turkey	N	1 407	1.5%	41.5%	584	0.9%	13	6.8%	96	12.1%	170	0.1%	1	0.0%	0	4.6%	65	5.4%	76	2.0%	28	17.0%	239	9.6%	135				
	P ₂ O ₅	605	1.6%	41.7%	252	0.9%	5	4.7%	28	13.1%	79	0.1%	1	0.0%	0	4.4%	27	5.2%	31	3.4%	21	14.4%	87	12.1%	73				
	K ₂ O	99	0.4%	15.2%	15	0.5%	0	6.1%	6	2.9%	3	0.1%	0	0.0%	0	5.4%	5	4.2%	4	13.2%	13	40.4%	40	12.0%	12				
	N+P+K	2 111	1.3%	40.3%	851	0.9%	19	6.2%	130	12.0%	252	0.1%	2	0.0%	0	4.6%	97	5.3%	112	2.9%	62	17.4%	366	10.4%	220				
Australia	N	858	0.9%	30.7%	263	0.0%	0	0.7%	6	24.1%	207	0.0%	0	0.0%	0	10.3%	88	0.7%	6	8.2%	70	8.4%	72	16.9%	145				
	P ₂ O ₅	984	2.6%	28.9%	284	0.0%	0	0.4%	4	24.0%	236	0.0%	0	0.0%	0	7.7%	76	0.3%	3	3.1%	31	4.9%	48	30.7%	302				
	K ₂ O	224	0.8%	12.6%	28	0.0%	0	0.2%	0	5.7%	13	0.0%	0	0.0%	0	3.4%	8	0.4%	1	19.8%	44	24.0%	54	33.9%	76				
	N+P+K	2 066	1.3%	27.9%	576	0.0%	0	0.5%	10	22.1%	456	0.0%	0	0.0%	0	8.3%	172	0.5%	10	7.0%	145	8.4%	174	25.3%	523				
Malaysia	N	540	0.6%	0.0%	0	15.0%	81	0.5%	3	0.0%	0	0.0%	0	65.0%	351	0.2%	1	0.0%	0	0.3%	2	3.0%	16	16.1%	87				
	P ₂ O ₅	230	0.6%	0.0%	0	19.0%	44	0.5%	1	0.0%	0	0.0%	0	55.0%	127	0.2%	0	0.0%	0	0.3%	1	6.0%	14	19.0%	44				
	K ₂ O	1 000	3.7%	0.0%	0	5.0%	50	0.1%	1	0.0%	0	0.																	

				CEREALS								OILSEEDS															
				Wheat		Rice		Maize		Other CG		Soybean		Oil Palm		Other OS		Cotton		Sugar Crops		Fruits & Veg.		Other Crops			
Iran	N	1 150	1.2%	36.0%	414	7.5%	86	5.5%	63	8.0%	92	0.2%	2	0.0%	0	4.5%	52	2.0%	23	3.5%	40	15.0%	173	17.8%	205		
	P ₂ O ₅	500	1.3%	34.0%	170	5.5%	28	5.0%	25	7.5%	38	0.8%	4	0.0%	0	6.5%	33	1.5%	8	3.5%	18	23.0%	115	12.7%	63		
	K ₂ O	200	0.7%	24.0%	48	4.0%	8	3.5%	7	5.5%	11	0.3%	1	0.0%	0	4.5%	9	1.5%	3	2.5%	5	44.0%	88	10.2%	20		
	N+P+K	1 850	1.1%	34.2%	632	6.6%	122	5.1%	95	7.6%	141	0.4%	7	0.0%	0	5.0%	93	1.8%	34	3.4%	63	20.3%	376	15.6%	289		
Thailand	N	1 034	1.1%	0.0%	0	30.0%	310	7.0%	72	0.5%	5	0.1%	1	3.0%	31	1.0%	10	1.0%	10	5.0%	52	28.0%	290	24.4%	252		
	P ₂ O ₅	333	0.9%	0.0%	0	25.0%	83	7.0%	23	0.5%	2	1.0%	3	6.0%	20	1.5%	5	1.0%	3	10.0%	33	30.0%	100	18.0%	60		
	K ₂ O	341	1.3%	0.0%	0	5.0%	17	10.0%	34	0.5%	2	0.1%	0	10.0%	34	1.0%	3	1.0%	3	13.0%	44	36.0%	123	23.4%	80		
	N+P+K	1 708	1.1%	0.0%	0	24.0%	411	7.6%	130	0.5%	9	0.3%	5	5.0%	85	1.1%	19	1.0%	17	7.6%	129	30.0%	512	23.0%	392		
Bangladesh	N	1 193	1.2%	1.2%	14	93.3%	1 113	0.3%	4	0.0%	0	0.0%	0	0.0%	0	0.8%	10	0.2%	2	0.7%	8	1.5%	18	2.0%	24		
	P ₂ O ₅	285	0.7%	1.5%	4	83.0%	237	0.3%	1	0.0%	0	0.0%	0	0.0%	0	2.0%	6	0.2%	1	1.5%	4	5.0%	14	6.5%	19		
	K ₂ O	170	0.6%	1.7%	3	81.0%	138	0.3%	1	0.0%	0	0.0%	0	0.0%	0	2.0%	3	0.4%	1	2.0%	3	5.0%	9	7.6%	13		
	N+P+K	1 648	1.0%	1.3%	21	90.2%	1 487	0.3%	5	0.0%	0	0.0%	0	0.0%	0	1.1%	19	0.2%	3	1.0%	16	2.5%	41	3.4%	56		
Russia	N	956	1.0%	42.0%	402	1.2%	11	7.3%	70	22.0%	210	0.4%	4	0.0%	0	2.3%	22	0.0%	0	9.6%	92	1.0%	10	14.2%	136		
	P ₂ O ₅	423	1.1%	40.0%	169	1.1%	5	5.5%	23	21.0%	89	1.1%	5	0.0%	0	7.1%	30	0.0%	0	15.0%	63	1.4%	6	7.8%	33		
	K ₂ O	268	1.0%	26.0%	70	0.1%	0	5.7%	15	23.0%	62	0.8%	2	0.0%	0	4.1%	11	0.0%	0	24.0%	64	3.7%	10	12.6%	34		
	N+P+K	1 647	1.0%	38.9%	640	1.0%	16	6.6%	108	21.9%	361	0.6%	11	0.0%	0	3.8%	63	0.0%	0	13.3%	220	1.5%	25	12.3%	203		
Mexico	N	1 120	1.2%	5.3%	59	0.5%	6	61.3%	687	1.8%	20	0.0%	0	1.2%	13	0.2%	2	0.5%	6	6.1%	68	14.9%	167	8.2%	92		
	P ₂ O ₅	260	0.7%	2.9%	8	0.8%	2	40.0%	104	0.8%	2	1.2%	3	4.0%	10	0.2%	1	1.2%	3	8.8%	23	32.0%	83	8.1%	21		
	K ₂ O	220	0.8%	1.2%	3	0.9%	2	9.0%	20	0.0%	0	0.9%	2	4.5%	10	0.0%	0	0.9%	2	27.8%	61	47.1%	104	7.7%	17		
	N+P+K	1 600	1.0%	4.3%	70	0.6%	10	50.6%	810	1.4%	22	0.3%	5	2.1%	34	0.2%	3	0.7%	11	9.5%	152	22.1%	354	8.1%	130		
Egypt	N	1 260	1.3%	24.0%	302	9.0%	113	27.0%	340	4.5%	57	0.1%	1	0.0%	0	1.0%	13	3.5%	44	4.0%	50	19.0%	239	7.9%	100		
	P ₂ O ₅	240	0.6%	14.5%	35	8.5%	20	10.5%	25	2.5%	6	0.2%	0	0.0%	0	1.5%	4	4.5%	11	3.0%	7	45.0%	108	9.8%	24		
	K ₂ O	49	0.2%	20.0%	10	0.0%	0	15.0%	7	2.0%	1	0.1%	0	0.0%	0	0.5%	0	4.0%	2	15.0%	7	35.0%	17	8.4%	4		
	N+P+K	1 549	1.0%	22.4%	347	8.6%	134	24.1%	373	4.1%	64	0.1%	2	0.0%	0	1.1%	16	3.7%	57	4.2%	65	23.5%	365	8.2%	127		
Argentina	N	759	0.8%	36.9%	280	0.7%	5	29.0%	220	5.3%	40	6.6%	50	0.0%	0	3.3%	25	0.7%	5	3.3%	25	7.2%	55	7.0%	53		
	P ₂ O ₅	639	1.7%	25.8%	165	0.4%	3	17.2%	110	6.3%	40	34.4%	220	0.0%	0	3.1%	20	0.2%	1	0.2%	1	6.3%	40	6.1%	39		
	K ₂ O	55	0.2%	2.2%	1	4.2%	2	2.2%	1	0.5%	0	2.0%	1	0.0%	0	0.9%	0	0.2%	0	10.0%	6	54.5%	30	23.3%	13		
	N+P+K	1 453	0.9%	30.7%	446	0.7%	10	22.8%	331	5.6%	81	18.7%	271	0.0%	0	3.1%	45	0.5%	7	2.2%	32	8.6%	125	7.2%	105		
South Africa	N	429	0.4%	7.2%	31	0.0%	0	48.0%	206	1.4%	6	0.1%	0	0.0%	0	4.3%	18	0.3%	1	11.5%	49	11.5%	49	15.7%	67		
	P ₂ O ₅	204	0.5%	10.0%	20	0.0%	0	41.0%	84	1.7%	3	0.7%	1	0.0%	0	6.2%	13	0.6%	1	13.0%	27	12.0%	24	14.8%	30		
	K ₂ O	153	0.6%	4.6%	7	0.0%	0	13.5%	21	0.5%	1	0.3%	0	0.0%	0	1.1%	2	0.2%	0	43.0%	66	25.0%	38	11.8%	18		
	N+P+K	786	0.5%	7.4%	58	0.0%	0	39.5%	310	1.3%	10	0.3%	2	0.0%	0	4.2%	33	0.4%	3	18.0%	142	14.3%	112	14.7%	116		
Philippines	N	520	0.5%	0.0%	0	40.0%	208	20.0%	104	0.0%	0	0.0%	0	0.5%	3	2.0%	10	0.0%	0	2.0%	10	20.0%	104	15.5%	81		
	P ₂ O ₅	110	0.3%	0.0%	0	30.0%	33	12.0%	13	0.0%	0	0.0%	0	0.5%	1	5.0%	6	0.0%	0	6.0%	7	30.0%	33	16.5%	18		
	K ₂ O	110	0.4%	0.0%	0	10.0%	11	5.0%	6	0.0%	0	0.0%	0	3.0%	3	3.0%	3	0.0%	0	15.0%	17	50.0%	55	14.0%	15		
	N+P+K	740	0.5%	0.0%	0	34.1%	252	16.6%	123	0.0%	0	0.0%	0	0.9%	6	2.6%	19	0.0%	0	4.5%	34	25.9%	192	15.4%	114		
Chile	N	254	0.3%	18.0%	46	0.8%	2	12.0%	30	6.0%	15	0.0%	0	0.0%	0	0.8%	2	0.0%	0	1.6%	4	20.0%	51	40.8%	104		
	P ₂ O ₅	143	0.4%	18.0%	26	1.3%	2	6.7%	10	6.0%	9	0.0%	0	0.0%	0	0.6%	1	0.0%	0	1.2%	2	10.0%	14	56.2%	80		
	K ₂ O	95	0.3%	6.0%	6	2.0%	2	9.0%	9	2.0%	2	0.0%	0	0.0%	0	0.5%	0	0.0%	0	6.0%	6	45.0%	43	29.5%	28		
	N+P+K	492	0.3%	15.7%	77	1.2%	6	9.9%	49	5.2%	26	0.0%	0	0.0%	0	0.7%	3	0.0%	0	2.3%	11	21.9%	108	43.1%	212		
Morocco	N	226	0.2%	28.0%	63	0.4%	1	3.0%	7	19.0%	43	0.0%	0	0.0%	0	2.2%	5	0.0%	0	5.5%	12	20.0%	45	21.9%	49		
	P ₂ O ₅	153	0.4%	28.0%	43	0.3%	0	3.5%	5	19.0%	29	0.0%	0	0.0%	0	3.6%	6	0.0%	0	5.5%	8	18.0%	28	22.1%	34		
	K ₂ O	53	0.2%	14.0%	7	0.0%	0	2.8%	1	11.0%	6	0.0%	0	0.0%	0	1.4%	1	0.0%	0	9.5%	5	50.0%	27	11.3%	6		
	N+P+K	432	0.3%	26.3%	114	0.3%	1	3.2%	14	18.0%	78	0.0%	0	0.0%	0	2.6%	11	0.0%	0	6.0%	26	23.0%	99	20.7%	89		
ROW	N	7 257	7.6%	13.0%	943	14.0%	1 016	13.0%	943	6.0%	435	0.5%	36	0.7%	51	5.0%	363	5.0%	363	5.0%	363	18.0%	1 306	19.8%	1 437		
	P ₂ O ₅	3 070	8.0%	10.0%	307	12.0%	368	10.0%	307	6.0%	184	5.0%	154	1.0%	31	5.0%	154	5.0%	154	5.0%	184	20.0%	614	20.0%	614		
	K ₂ O	2 643	9.7%	7.0%	185	12.0%	317	10.0%	264	4.0%	106	3.0%	79	4.0%	106	4.0%	106	3.0%	79	12.0%	317	25.0%	661	16.0%	423		
	N+P+K	12 970	8.0%	11.1%	1 435	13.1%	1 702	11.7%	1 515	5.6%	725	2.1%	269	1.4%	187	4.8%	622	4.6%	596	6.7%	864	19.9%	2 581	19.1%	2 474		
World	N	95 829	100.0%	17.3%	16 614	15.8%	15 098	17.3%	16 587	4.9%	4 718	0.9%	907	0.8%	765	4.5%	4 354	3.8%	3 682	3.3%	3 173	15.3%	14 679	15.9%	15 252		
	P ₂ O ₅	38 238	100.0%	16.4%	6 261	12.6%	4 815	12.8%	4 904	4.8%	1 848	6.8%	2 582	0.8%	313	4.7%	1 816	4.1%	1 561	3.9%	1 486	17.8%	6 810	15.3%	5 843		
	K ₂ O	27 157	100.0%	6.0%	1 617	13.1%	3 563	15.0%	4 075	3.2%	870	7.1%	1 924	5.2%	1 400	3.5%	955	2.3%	616	8.6%	2 344	21.7%	5 880	14.4%	3 914		
	N+P+K	161 224	100.0%	15.2%	24 492	14.6%	23 476	15.9%	25 566	4.6%	7 435	3.4%	5 412	1.5%	2 478	4.4%	7 125	3.6%	5 859	4.3%	7 002	17.0%	27 369	15.5%	25 009		

Estimates of Fertilizer Use by Crop in Selected Countries in 2007-2007/08 ('000 tonnes nutrients)

		CEREALS										OILSEEDS													
				Wheat		Rice		Maize		Other CG		Soybean		Oil Palm		Other OS		Cotton		Sugar Crops		Fruits & Veg.		Other Crops	
		Total	% of World	%	Qty	%	Qty	%	Qty	%	Qty	%	Qty	%	Qty	%	Qty	%	Qty	%	Qty	%	Qty	%	Qty
China	N	32 000	31.8%	13.5%	4 320	17.6%	5 632	15.8%	5 056	1.0%	320	1.4%	448	0.0%	6	4.5%	1 440	4.3%	1 376	1.6%	512	31.0%	9 920	9.3%	2 970
	P ₂ O ₅	12 000	30.5%	16.0%	1 920	15.0%	1 800	7.0%	840	1.0%	120	3.0%	360	0.0%	2	4.7%	564	4.1%	492	2.3%	276	34.0%	4 080	12.9%	1 546
	K ₂ O	6 200	21.5%	4.0%	248	28.0%	1 736	2.2%	136	1.0%	62	1.0%	62	0.1%	6	2.2%	136	1.3%	81	5.0%	310	50.0%	3 100	5.2%	322
	N+P+K	50 200	29.8%	12.9%	6 488	18.3%	9 168	12.0%	6 032	1.0%	502	1.7%	870	0.0%	14	4.3%	2 140	3.9%	1 949	2.2%	1 098	34.1%	17 100	9.6%	4 838
India	N	14 633	14.6%	21.0%	3 073	30.0%	4 390	2.5%	366	4.5%	658	1.0%	146	0.0%	0	4.5%	658	6.5%	951	5.0%	732	7.0%	1 024	18.0%	2 634
	P ₂ O ₅	5 726	14.6%	20.0%	1 145	25.0%	1 432	1.5%	86	5.0%	286	2.5%	143	0.0%	0	7.0%	401	8.0%	458	4.5%	258	11.0%	630	15.5%	888
	K ₂ O	2 657	9.2%	8.0%	213	34.0%	903	1.0%	27	2.5%	66	1.0%	27	0.0%	0	5.0%	133	5.5%	146	10.0%	266	22.0%	585	11.0%	292
	N+P+K	23 016	13.6%	19.3%	4 431	29.2%	6 725	2.1%	478	4.4%	1 011	1.4%	316	0.0%	0	5.2%	1 192	6.8%	1 555	5.5%	1 255	9.7%	2 239	16.6%	3 814
USA	N	11 610	11.5%	13.2%	1 533	2.2%	255	46.7%	5 422	3.5%	406	1.0%	116	0.0%	0	1.6%	186	2.2%	255	1.0%	116	4.4%	511	24.2%	2 810
	P ₂ O ₅	4 080	10.4%	14.7%	600	1.1%	45	43.9%	1 791	2.3%	94	10.5%	428	0.0%	0	2.1%	86	2.7%	110	1.1%	45	6.0%	245	15.6%	636
	K ₂ O	4 540	15.7%	5.0%	227	1.0%	45	45.8%	2 079	1.0%	45	14.9%	676	0.0%	0	2.1%	95	3.0%	136	2.9%	132	6.8%	309	17.5%	795
	N+P+K	20 230	12.0%	11.7%	2 359	1.7%	346	45.9%	9 292	2.7%	546	6.0%	1 221	0.0%	0	1.8%	367	2.5%	502	1.4%	293	5.3%	1 064	21.0%	4 241
EU-27	N	11 617	11.6%	27.8%	3 230	0.4%	46	11.9%	1 382	16.7%	1 940	0.1%	12	0.0%	0	8.7%	1 011	0.5%	58	1.8%	209	7.1%	825	25.0%	2 904
	P ₂ O ₅	3 454	8.8%	21.8%	753	0.5%	17	13.0%	449	17.3%	598	0.3%	10	0.0%	0	7.9%	273	0.6%	21	3.1%	107	12.4%	428	23.1%	798
	K ₂ O	3 865	13.4%	14.3%	553	0.8%	31	12.2%	472	13.1%	506	0.3%	12	0.0%	0	9.8%	379	0.5%	19	5.3%	205	13.8%	533	29.9%	1 156
	N+P+K	18 936	11.2%	24.0%	4 535	0.5%	95	12.2%	2 303	16.1%	3 044	0.2%	34	0.0%	0	8.8%	1 662	0.5%	98	2.8%	521	9.4%	1 786	25.7%	4 858
Brazil	N	2 751	2.7%	2.9%	80	5.3%	146	31.1%	856	4.0%	110	3.9%	107	0.2%	6	0.1%	3	8.4%	231	22.3%	613	6.6%	182	15.2%	418
	P ₂ O ₅	3 659	9.3%	2.1%	77	3.9%	143	20.0%	732	1.9%	70	42.4%	1 551	0.1%	4	0.1%	4	4.4%	161	8.6%	315	5.0%	183	11.5%	421
	K ₂ O	4 175	14.5%	1.8%	75	3.7%	154	18.5%	772	1.0%	42	34.1%	1 424	0.2%	8	0.1%	4	3.7%	154	20.4%	852	5.3%	221	11.2%	468
	N+P+K	10 585	6.3%	2.2%	232	4.2%	443	22.3%	2 360	2.1%	221	29.1%	3 082	0.2%	18	0.1%	11	5.2%	547	16.8%	1 780	5.5%	586	12.3%	1 307
Indonesia	N	2 596	2.6%	0.0%	0	45.0%	1 168	15.0%	389	0.0%	0	0.4%	10	13.0%	337	1.0%	26	0.1%	1	2.0%	52	9.0%	234	14.6%	378
	P ₂ O ₅	510	1.3%	0.0%	0	22.0%	112	15.0%	77	0.0%	0	3.0%	15	25.0%	128	3.0%	15	0.2%	1	5.0%	26	10.0%	51	16.9%	86
	K ₂ O	850	2.9%	0.0%	0	14.0%	119	10.0%	85	0.0%	0	0.6%	5	48.0%	408	1.0%	9	0.1%	0	9.0%	77	12.0%	102	5.4%	45
	N+P+K	3 956	2.3%	0.0%	0	35.4%	1 399	13.9%	551	0.0%	0	0.8%	31	22.1%	873	1.3%	50	0.1%	2	3.9%	154	9.8%	387	12.9%	509
Pakistan	N	2 923	2.9%	37.0%	1 082	9.1%	266	4.8%	140	0.6%	18	0.0%	0	0.0%	0	1.2%	35	18.5%	541	7.9%	231	4.1%	120	16.8%	491
	P ₂ O ₅	627	1.6%	34.1%	214	8.5%	53	6.1%	38	0.5%	3	0.0%	0	0.0%	0	1.6%	10	15.7%	98	9.6%	60	4.8%	30	19.1%	120
	K ₂ O	29	0.1%	27.0%	8	11.0%	3	11.0%	3	0.0%	0	0.0%	0	0.0%	0	0.0%	0	8.0%	2	15.0%	4	15.0%	4	13.0%	4
	N+P+K	3 579	2.1%	36.4%	1 303	9.0%	322	5.1%	182	0.6%	21	0.0%	0	0.0%	0	1.3%	45	17.9%	642	8.3%	295	4.3%	154	17.2%	615
Canada	N	1 939	1.9%	29.6%	574	0.0%	0	10.5%	204	16.6%	322	0.5%	10	0.0%	0	22.9%	444	0.0%	0	0.5%	10	0.6%	12	18.8%	365
	P ₂ O ₅	508	1.3%	31.9%	162	0.0%	0	10.7%	54	20.6%	105	5.3%	27	0.0%	0	19.4%	99	0.0%	0	0.5%	3	0.6%	3	11.0%	56
	K ₂ O	354	1.2%	7.7%	27	0.0%	0	26.9%	95	3.1%	11	7.4%	26	0.0%	0	24.4%	86	0.0%	0	0.5%	2	1.8%	6	28.2%	100
	N+P+K	2 801	1.7%	27.2%	763	0.0%	0	12.6%	353	15.6%	437	2.2%	63	0.0%	0	22.5%	629	0.0%	0	0.5%	14	0.8%	21	18.6%	520
Vietnam	N	1 136	1.1%	0.0%	0	68.0%	772	12.0%	136	0.0%	0	0.7%	8	0.0%	0	1.5%	17	0.2%	2	4.0%	45	3.0%	34	10.6%	120
	P ₂ O ₅	631	1.6%	0.0%	0	72.0%	454	7.5%	47	0.0%	0	1.5%	9	0.0%	0	3.0%	19	0.1%	1	2.5%	16	4.0%	25	9.4%	59
	K ₂ O	433	1.5%	0.0%	0	66.0%	286	6.5%	28	0.0%	0	1.5%	6	0.0%	0	3.0%	13	0.1%	0	8.0%	35	5.0%	22	9.9%	43
	N+P+K	2 200	1.3%	0.0%	0	68.8%	1 513	9.6%	212	0.0%	0	1.1%	24	0.0%	0	2.2%	49	0.2%	3	4.4%	96	3.7%	81	10.1%	223
Australia	N	848	0.8%	30.7%	260	0.0%	0	0.7%	6	24.1%	204	0.0%	0	0.0%	0	10.3%	87	0.7%	6	8.2%	70	8.4%	71	16.9%	143
	P ₂ O ₅	982	2.5%	28.9%	284	0.0%	0	0.4%	4	24.0%	236	0.0%	0	0.0%	0	7.7%	76	0.3%	3	3.1%	30	4.9%	48	30.7%	301
	K ₂ O	227	0.8%	12.6%	29	0.0%	0	0.2%	0	5.7%	13	0.0%	0	0.0%	0	3.4%	8	0.4%	1	19.8%	45	24.0%	54	33.9%	77
	N+P+K	2 057	1.2%	27.8%	573	0.0%	0	0.5%	10	22.0%	453	0.0%	0	0.0%	0	8.3%	171	0.5%	10	7.0%	145	8.5%	174	25.4%	522
Turkey	N	1 356	1.3%	41.5%	563	0.9%	12	6.8%	92	12.1%	164	0.1%	1	0.0%	0	4.6%	62	5.4%	73	2.0%	27	17.0%	231	9.6%	130
	P ₂ O ₅	516	1.3%	41.7%	215	0.9%	5	4.7%	24	13.1%	68	0.1%	1	0.0%	0	4.4%	23	5.2%	27	3.4%	18	14.4%	74	12.1%	62
	K ₂ O	109	0.4%	15.2%	17	0.5%	1	6.1%	7	2.9%	3	0.1%	0	0.0%	0	5.4%	6	4.2%	5	13.2%	14	40.4%	44	12.0%	13
	N+P+K	1 981	1.2%	40.1%	794	0.9%	17	6.2%	123	11.9%	235	0.1%	2	0.0%	0	4.6%	91	5.3%	105	3.0%	59	17.6%	349	10.4%	206
Russia	N	1 175	1.2%	42.0%	494	1.2%	14	7.3%	86	22.0%	259	0.4%	5	0.0%	0	2.3%	27	0.0%	0	9.6%	113	1.0%	12	14.2%	167
	P ₂ O ₅	470	1.2%	40.0%	188	1.1%	5	5.5%	26	21.0%	99	1.1%	5	0.0%	0	7.1%	33	0.0%	0	15.0%	71	1.4%	7	7.8%	37
	K ₂ O	296	1.0%	26.0%	77	0.1%	0	5.7%	17	23.0%	68	0.8%	2	0.0%	0	4.1%	12	0.0%	0	24.0%	71	3.7%	11	12.6%	37
	N+P+K	1 941	1.2%	39.1%	758	1.0%	20	6.6%	128	21.9%	425	0.6%	12	0.0%	0	3.7%	73	0.0%	0	13.1%	254	1.5%	29	12.4%	241

				CEREALS								OILSEEDS													
				Wheat		Rice		Maize		Other CG		Soybean		Oil Palm		Other OS		Cotton		Sugar Crops		Fruits & Veg.		Other Crops	
Malaysia	N	600	0.6%	0.0%	0	15.0%	90	0.5%	3	0.0%	0	0.0%	0	65.0%	390	0.2%	1	0.0%	0	0.3%	2	3.0%	18	16.1%	96
	P ₂ O ₅	250	0.6%	0.0%	0	19.0%	47	0.5%	1	0.0%	0	0.0%	0	55.0%	138	0.2%	1	0.0%	0	0.3%	1	6.0%	15	19.0%	48
	K ₂ O	1 050	3.6%	0.0%	0	5.0%	53	0.1%	1	0.0%	0	0.0%	0	85.0%	893	0.1%	1	0.0%	0	0.2%	2	2.0%	21	7.7%	80
	N+P+K	1 900	1.1%	0.0%	0	10.0%	190	0.3%	5	0.0%	0	0.0%	0	74.7%	1 420	0.1%	2	0.0%	0	0.2%	5	2.8%	54	11.8%	224
Argentina	N	903	0.9%	37.7%	340	0.6%	5	29.9%	270	5.5%	50	6.6%	60	0.0%	0	3.3%	30	0.6%	5	2.8%	25	6.6%	60	6.4%	58
	P ₂ O ₅	695	1.8%	25.9%	180	0.4%	3	17.3%	120	6.5%	45	34.5%	240	0.0%	0	2.9%	20	0.1%	1	0.1%	1	7.2%	50	5.1%	35
	K ₂ O	65	0.2%	2.3%	1	3.8%	2	1.5%	1	0.5%	0	2.0%	1	0.0%	0	0.9%	1	0.2%	0	10.8%	7	53.8%	35	24.2%	16
	N+P+K	1 663	1.0%	31.4%	522	0.6%	11	23.5%	391	5.7%	95	18.1%	301	0.0%	0	3.0%	51	0.4%	6	2.0%	33	8.7%	145	6.6%	109
Bangladesh	N	1 240	1.2%	1.1%	14	93.5%	1 159	0.4%	5	0.0%	0	0.0%	0	0.0%	0	0.8%	10	0.2%	2	0.6%	7	1.5%	19	1.9%	24
	P ₂ O ₅	220	0.6%	2.1%	5	78.0%	172	0.4%	1	0.0%	0	0.0%	0	0.0%	0	2.5%	6	0.2%	0	1.5%	3	6.0%	13	9.3%	20
	K ₂ O	170	0.6%	1.6%	3	80.3%	137	0.4%	1	0.0%	0	0.0%	0	0.0%	0	2.0%	3	0.4%	1	2.0%	3	5.0%	9	8.3%	14
	N+P+K	1 630	1.0%	1.3%	21	90.0%	1 468	0.4%	7	0.0%	0	0.0%	0	0.0%	0	1.2%	19	0.2%	3	0.9%	14	2.5%	40	3.6%	59
Iran	N	1 000	1.0%	36.0%	360	7.5%	75	5.5%	55	8.0%	80	0.2%	2	0.0%	0	4.5%	45	2.0%	20	3.5%	35	15.0%	150	17.8%	178
	P ₂ O ₅	440	1.1%	34.0%	150	5.5%	24	5.0%	22	7.5%	33	0.8%	4	0.0%	0	6.5%	29	1.5%	7	3.5%	15	23.0%	101	12.7%	56
	K ₂ O	180	0.6%	24.0%	43	4.0%	7	3.5%	6	5.5%	10	0.3%	1	0.0%	0	4.5%	8	1.5%	3	2.5%	5	44.0%	79	10.2%	18
	N+P+K	1 620	1.0%	34.1%	553	6.6%	106	5.1%	83	7.6%	123	0.4%	6	0.0%	0	5.0%	82	1.8%	29	3.4%	55	20.4%	330	15.6%	252
Mexico	N	1 140	1.1%	5.3%	60	0.5%	6	61.3%	699	1.8%	21	0.0%	0	1.2%	14	0.2%	2	0.5%	6	6.1%	70	14.9%	170	8.2%	93
	P ₂ O ₅	250	0.6%	2.9%	7	0.8%	2	40.0%	100	0.8%	2	1.2%	3	4.0%	10	0.2%	1	1.2%	3	8.8%	22	32.0%	80	8.1%	20
	K ₂ O	220	0.8%	1.2%	3	0.9%	2	9.0%	20	0.0%	0	0.9%	2	4.5%	10	0.0%	0	0.9%	2	27.8%	61	47.1%	104	7.7%	17
	N+P+K	1 610	1.0%	4.4%	70	0.6%	10	50.8%	819	1.4%	23	0.3%	5	2.1%	34	0.2%	3	0.7%	11	9.5%	153	22.0%	353	8.1%	131
Egypt	N	1 250	1.2%	24.0%	300	9.0%	113	27.0%	338	4.5%	56	0.1%	1	0.0%	0	1.0%	13	3.5%	44	4.0%	50	19.0%	238	7.9%	99
	P ₂ O ₅	244	0.6%	14.5%	35	8.5%	21	10.5%	26	2.5%	6	0.2%	0	0.0%	0	1.5%	4	4.5%	11	3.0%	7	45.0%	110	9.8%	24
	K ₂ O	50	0.2%	20.0%	10	0.0%	0	15.0%	8	2.0%	1	0.1%	0	0.0%	0	0.5%	0	4.0%	2	15.0%	8	35.0%	18	8.4%	4
	N+P+K	1 544	0.9%	22.4%	345	8.6%	133	24.0%	371	4.1%	63	0.1%	2	0.0%	0	1.1%	16	3.7%	57	4.2%	65	23.6%	365	8.2%	127
Thailand	N	872	0.9%	0.0%	0	30.0%	262	7.0%	61	0.5%	4	0.1%	1	3.0%	26	1.0%	9	1.0%	9	5.0%	44	28.0%	244	24.4%	213
	P ₂ O ₅	276	0.7%	0.0%	0	25.0%	69	7.0%	19	0.5%	1	1.0%	3	6.0%	17	1.5%	4	1.0%	3	10.0%	28	30.0%	83	18.0%	50
	K ₂ O	305	1.1%	0.0%	0	5.0%	15	10.0%	31	0.5%	2	0.1%	0	10.0%	31	1.0%	3	1.0%	3	13.0%	40	36.0%	110	23.4%	71
	N+P+K	1 453	0.9%	0.0%	0	23.8%	346	7.6%	111	0.5%	7	0.3%	4	5.0%	73	1.1%	16	1.0%	15	7.6%	111	30.1%	437	23.0%	334
South Africa	N	439	0.4%	8.0%	35	0.0%	0	41.0%	180	1.6%	7	0.3%	1	0.0%	0	5.7%	25	0.3%	1	13.0%	57	14.0%	61	16.1%	71
	P ₂ O ₅	192	0.5%	10.5%	20	0.0%	0	32.0%	61	1.8%	3	1.5%	3	0.0%	0	7.5%	14	0.6%	1	14.5%	28	15.5%	30	16.1%	31
	K ₂ O	137	0.5%	2.3%	3	0.0%	0	10.5%	14	0.5%	1	0.6%	1	0.0%	0	1.3%	2	0.2%	0	43.0%	59	28.0%	38	13.6%	19
	N+P+K	768	0.5%	7.6%	58	0.0%	0	33.3%	256	1.5%	11	0.7%	5	0.0%	0	5.4%	41	0.4%	3	18.7%	144	16.9%	130	15.7%	120
Philippines	N	530	0.5%	0.0%	0	40.0%	212	20.0%	106	0.0%	0	0.0%	0	0.5%	3	2.0%	11	0.0%	0	2.0%	11	20.0%	106	15.5%	82
	P ₂ O ₅	120	0.3%	0.0%	0	30.0%	36	12.0%	14	0.0%	0	0.0%	0	0.5%	1	5.0%	6	0.0%	0	6.0%	7	30.0%	36	16.5%	20
	K ₂ O	115	0.4%	0.0%	0	10.0%	12	5.0%	6	0.0%	0	0.0%	0	3.0%	3	3.0%	3	0.0%	0	15.0%	17	50.0%	58	14.0%	16
	N+P+K	765	0.5%	0.0%	0	33.9%	260	16.5%	126	0.0%	0	0.0%	0	0.9%	7	2.6%	20	0.0%	0	4.6%	35	26.1%	200	15.4%	118
Chile	N	268	0.3%	18.0%	48	0.7%	2	13.0%	35	6.0%	16	0.0%	0	0.0%	0	0.8%	2	0.0%	0	1.6%	4	20.0%	54	39.9%	107
	P ₂ O ₅	163	0.4%	18.5%	30	1.2%	2	7.5%	12	6.0%	10	0.0%	0	0.0%	0	0.6%	1	0.0%	0	1.2%	2	10.0%	16	55.0%	90
	K ₂ O	92	0.3%	5.7%	5	1.8%	2	8.5%	8	2.0%	2	0.0%	0	0.0%	0	0.5%	0	0.0%	0	5.7%	5	45.0%	41	30.8%	28
	N+P+K	523	0.3%	16.0%	84	1.0%	5	10.5%	55	5.3%	28	0.0%	0	0.0%	0	0.7%	4	0.0%	0	2.2%	11	21.3%	111	43.0%	225
Morocco	N	235	0.2%	32.0%	75	0.4%	1	1.8%	4	22.0%	52	0.0%	0	0.0%	0	1.7%	4	0.0%	0	5.0%	12	18.0%	42	19.1%	45
	P ₂ O ₅	158	0.4%	29.0%	46	0.4%	1	3.9%	6	20.0%	32	0.0%	0	0.0%	0	3.3%	5	0.0%	0	5.6%	9	17.0%	27	20.8%	33
	K ₂ O	53	0.2%	20.0%	11	0.0%	0	1.2%	1	13.0%	7	0.0%	0	0.0%	0	1.2%	1	0.0%	0	9.0%	5	46.0%	24	9.6%	5
	N+P+K	446	0.3%	29.5%	132	0.4%	2	2.5%	11	20.2%	90	0.0%	0	0.0%	0	2.2%	10	0.0%	0	5.7%	25	21.0%	94	18.6%	83
ROW	N	7 468	7.4%	13.0%	971	14.0%	1 046	13.0%	971	6.0%	448	0.5%	37	0.7%	52	5.0%	373	5.0%	373	5.0%	373	18.0%	1 344	19.8%	1 479
	P ₂ O ₅	3 316	8.4%	10.0%	332	12.0%	398	10.0%	332	6.0%	199	5.0%	166	1.0%	33	5.0%	166	5.0%	166	6.0%	199	20.0%	663	20.0%	663
	K ₂ O	2 703	9.4%	7.0%	189	12.0%	324	10.0%	270	4.0%	108	3.0%	81	4.0%	108	4.0%	108	3.0%	81	12.0%	324	25.0%	676	16.0%	432
	N+P+K	13 487	8.0%	11.1%	1 492	13.1%	1 768	11.7%	1 573	5.6%	755	2.1%	284	1.4%	194	4.8%	647	4.6%	620	6.6%	897	19.9%	2 683	19.1%	2 574
World	N	100 529	100.0%	17.3%	17 411	15.6%	15 673	16.8%	16 861	5.1%	5 135	1.0%	966	0.8%	834	4.5%	4 521	3.9%	3 955	3.4%	3 420	15.6%	15 680	16.0%	16 074
	P ₂ O ₅	39 324	100.0%	16.2%	6 362	12.3%	4 840	12.4%	4 883	5.1%	2 008	7.5%	2 969	0.8%	331	4.7%	1 857	4.0%	1 563	3.9%	1 545	17.9%	7 028	15.1%	6 100
	K ₂ O	28 875	100.0%	6.0%	1 741	13.3%	3 832	14.2%	4 087	3.3%	947	8.1%	2 327	5.1%	1 467	3.5%	1 011	2.2%	637	8.8%	2 547	21.5%	6 204	14.1%	4 073
	N+P+K	168 728	100.0%	15.1%	25 514	14.4%	24 345	15.3%	25 832	4.8%	8 091	3.7%	6 261	1.6%	2 632	4.4%	7 389	3.6%	6 156	4.5%	7 512	17.1%	28 912	15.6%	26 248