



***Agriculture Prospects Report
(For internal use of MAIL)***



**Ministry of Agriculture, Irrigation and Livestock
General Department of Planning and Policy
Marketing, Economics and Statistics Division
(FAAHM)**

Kabul, 30 October 2008



Abbreviations

APR	Agriculture Prospects Report
CSO	Central Statistics Office
DAIL	Department of Agriculture, Irrigation and Livestock (Provincial Offices)
EC	European Commission
FAAHM	Food, Agriculture and Animal Husbandry Information Management and Policy Unit (MAIL)
FAO	Food and Agriculture Organization of the United Nations
FMD	Foot and Mouth Disease
LTA	Long-term Average
MAIL	Ministry of Agriculture, Irrigation and Livestock
NDVI	Normalized Difference Vegetation Index
PPR	<i>peste des petits ruminants</i>
RFA	Regional Field Assistant
USGS	United States Geological Survey
WFP	World Food Program

Acknowledgement

Primary sources of information for Agriculture Prospects Report are individual provincial agricultural offices. MAIL appreciates contributions made by them towards agricultural prospects monitoring and assessment by providing ground truth real time data. FAO FAAHM-II provided technical guidance and financial support for crop and livestock monitoring, farmers' survey, and crop assessment at the provincial levels. Thanks are due to MAIL officials who contributed towards field work and/or helped with the writing and production of this APR. Many thanks are due to national and international staff of MAIL and FAO, FAO area offices, projects, programs, and units for providing data, information, photos, and other types of inputs. Last, but not the least, very many thanks are also due to farmers, projects, agencies and persons for sharing information with FAAHM.

Cover photo: Paddy ready for harvest in Narmasy village in Beshud district in Nangharar (10 October 2008)

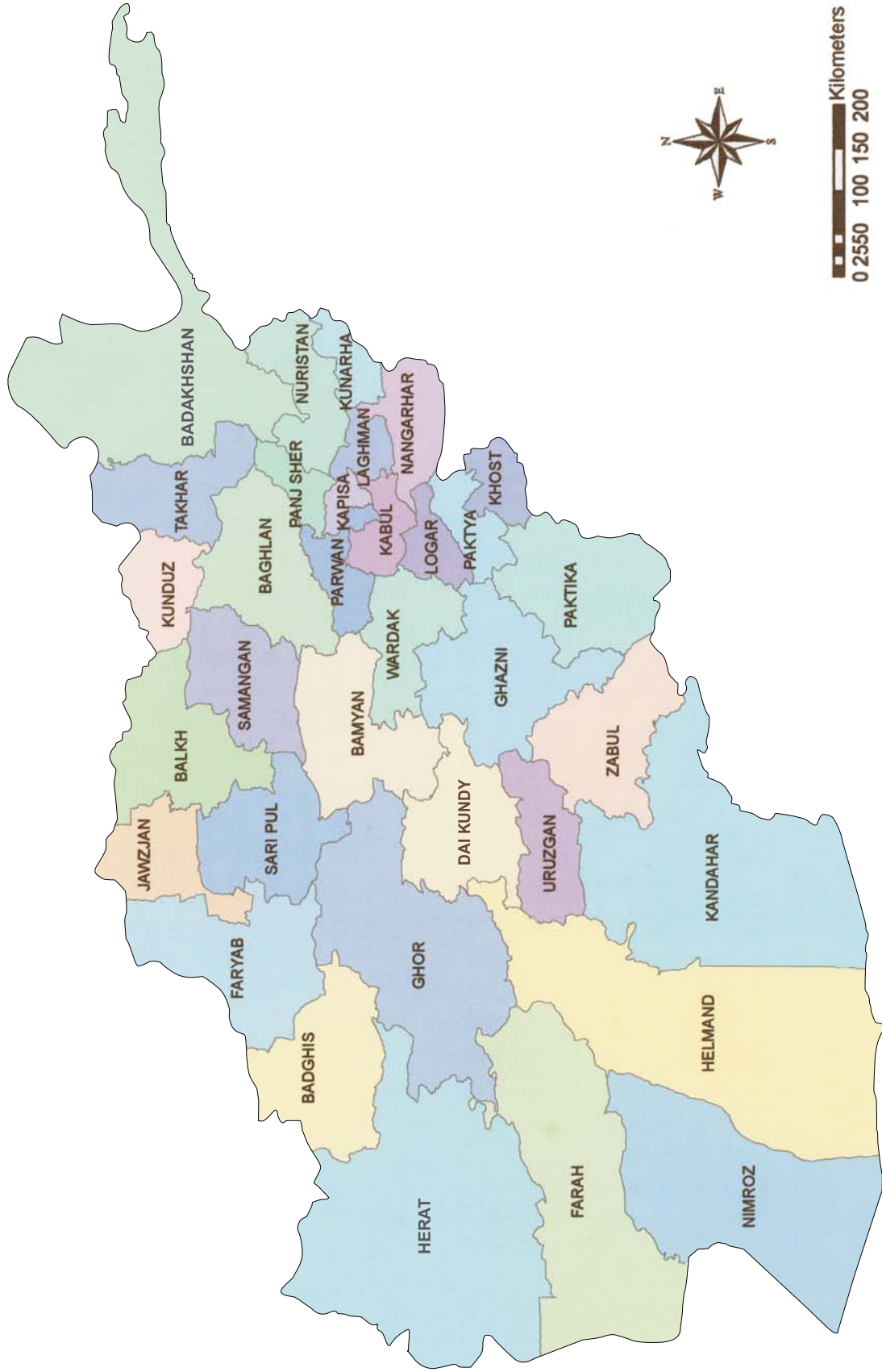


**“Support to FAAHM in Developing an Agricultural Statistics and Market Information System”
(FAO FAAHM-II - A project funded by European Commission)**

The project mentioned above provided technical guidance and modest financial support for the APR. The project is funded by the European Commission.

***FAAHM bulletins and reports are available at:
<http://www.agriculture.gov.af/farsi/price.htm>***

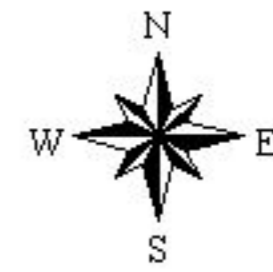
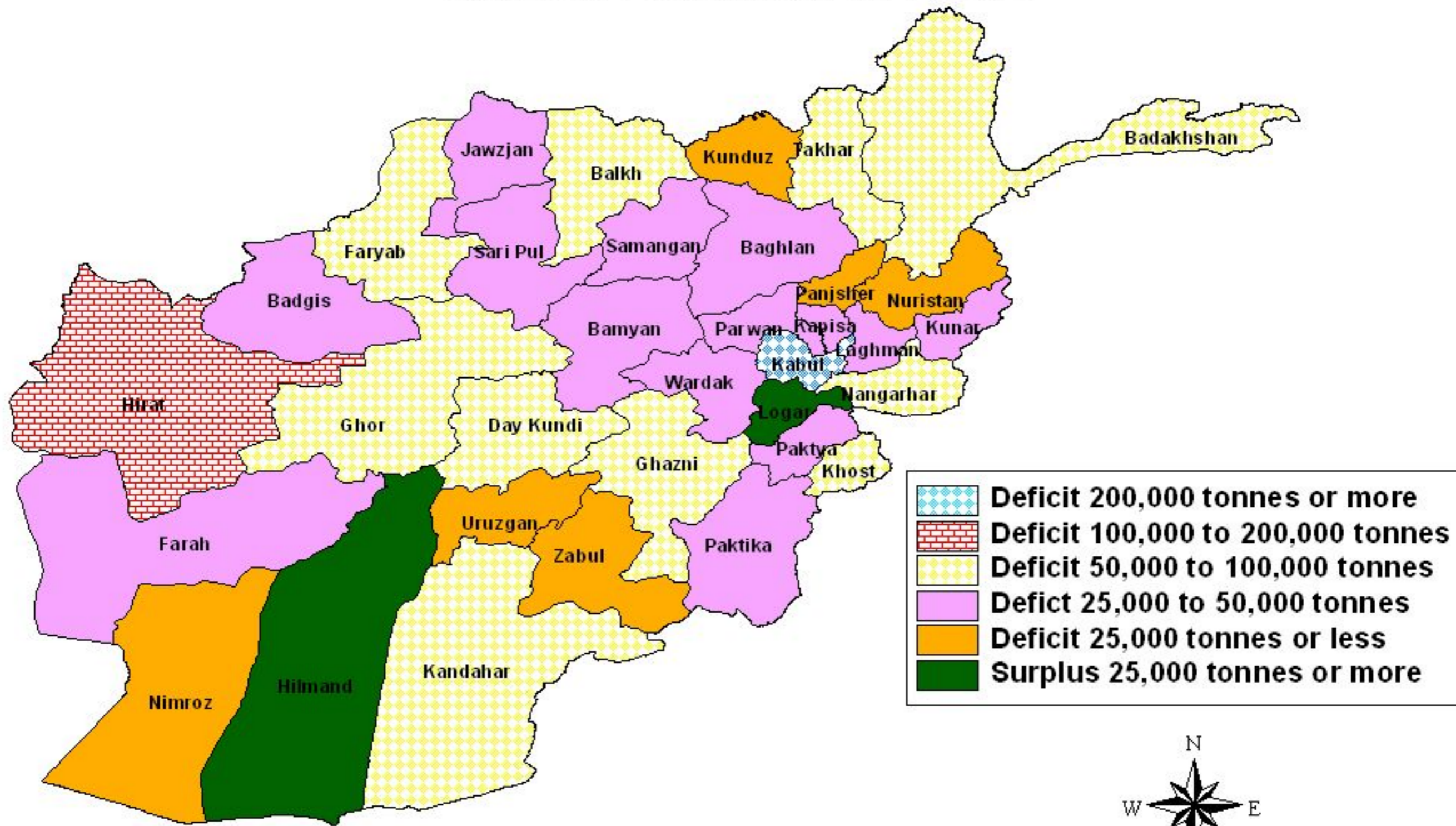
MAP OF AFGHANISTAN



Kilometers
0 25 50 100 150 200

Source: Central Statistics Office

Wheat Balance in 2008



Ministry of Agriculture, Irrigation and Livestock (MAIL)
General Department of Policy and Planning
Food, Agriculture and Animal Husbandry Information Management and Policy Unit (FAAHM)
DRAFT
Agriculture Prospects Report (APR)¹

1. Introduction

This report supersedes MAIL's Agriculture Prospects Report (APR) released on the 16th July 2008. Results of the following surveys have been used to update the data provided in July 2008: (i) wheat crop cuts surveys conducted in the provinces of Kunduz, Takhar, Baghlan and Mazar in July/August 2008; and (ii) paddy crop cuts surveys conducted in Kunduz, Herat and Nangharhar in October 2008. Briefly, (i) there are no substantial changes in the October assessments compared to the one made in July; (ii) updated estimate of paddy production is higher than the amount estimated in mid-July.

2. Rainfall pattern in the 2007/08 crop season

Cumulative rainfall from October to November 2007 in most parts of the country was well below normal. Weather conditions in December 2007 and January 2008 improved, but reduced and erratic precipitation in February and March was experienced in all parts of the country. Except in the case of east, well distributed rainfall lacked in April and May 2008 also. Rainfall amount in June through September 2008, which is an important period for growth of paddy, was satisfactory in the eastern and southern parts of the country. Other parts of the country generally remained dry in that period. (Annex Ia/Ib)

3. Cereal production and requirement in 2008

Aggregate 2008 cereal production is estimated at 3.65 million tonnes, of which wheat is 2.66 million tonnes (72%). Province level data on wheat area and production are shown in Annex 3.

Table 1: Area and Production of different Cereals in 2008
(Final estimates)

Crop	Area (‘000 ha.)	Yield (tonnes/ha.)	Production (‘000 tonnes)
Irrigated wheat (Winter & Spring)	990	2.430	2,406
Rainfed wheat (Winter & Spring)	1,149	0.190	217
All wheat	2,139	1.230	2,623
Milled rice (paddy yield)	190	3.220	410
Maize	137	2.044	280
Barley	236	1.411	333
Overall	2,702		3,646

¹ This report should be read together with the two issues of APRs that were released by MAIL in May and July.

Area cultivated with cereals in 2008 is estimated at 2.7 million hectares. Compared to 2007, estimated overall fall in wheat production is 40%, with 85% fall in the case of rainfed wheat and 16% fall in irrigated wheat.

Table 2: Percent changes in Area, Yield and Production of wheat in 2008 compared to 2007
[Area in '000 ha, yield in tonnes/ha and production in '000 tonnes]
(Final estimates)

Type of crop	2007			2008			Percent change in		
	Area	Yield	Prod	Area	Yield	Prod	Area	Yield	Prod
Irrigated wheat	1,071	2.69	2,878	990	2.43	2,406	-8	-10	-16
Rainfed wheat	1,395	1.05	1,465	1,149	0.19	217	-18	-82	-85
All wheat	2,466	1.76	4,343	2,139	1.23	2,623	-13	-30	-40

Aggregate wheat production is estimated at 2.62 million tonnes. Milled rice, maize and barley production are estimated at 410,000 tonnes, 280,000 tonnes, 333,000 tonnes, respectively. Year to year variations in cereal production are shown in Table 3. Aggregate production of cereals in 2008 is estimated at 3.65 million tonnes, which is about 33.7% lower than in 2007.

Table 3: Cereal Production from 1998 to 2008² ('000 tonnes)

Crop	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008
Irrigated wheat	2,020	1,988	1,329	1,514	2,110	3,017	1,867	2,728	2,604	2,878	2,406
Rainfed wheat	814	512	140	83	576	1,345	426	1,538	759	1,465	217
Total wheat	2,834	2,500	1,469	1,597	2,686	4,362	2,293	4,266	3,363	4,343	2,623
Milled Rice	301	188	105	122	260	291	310	325	361	425	410
Maize	330	240	115	160	298	310	234	315	359	360	280
Barley	240	216	74	87	345	410	220	337	364	370	333
Total cereals	3,705	3,144	1,763	1,966	3,589	5,373	3,057	5,243	4,447	5,498	3,646

Total cereal requirement in 2008/09 marketing year is estimated at 5.89 million tonnes, of which 4.72 million tonnes (about 80%) is wheat. Updated estimate of cereal deficit in 2008 is 2.24 million tonnes. Hence, the total import requirement of cereals – including commercial import and food aid - is estimated at 2.24 million tonnes, which includes 2.1 million tonnes of wheat and 146,000 tonnes of rice/maize. (Table 4 and Annex 3/4/5)

² Sources: (a) 1998 to 2004: FAO/WFP Crop and Food Supply Assessment Mission to Afghanistan and (b) 2005 to 2007: Agriculture Prospects Report, MAIL. Figures for 2008 are provisional estimates.

**Table 4: Production and requirement of various cereals in 2008 harvest {'000 tonnes)
(Final estimates)**

Crop	Requirement					Domestic Production	Cereal Surplus/ Deficit
	Food	Seed	Feed	Loss	Total		
Irrigated wheat		187	--	361		2,406	
Rainfed wheat		116	--	33		217	
All wheat	4,022	303	0	394	4,719	2,623	-2,096
Milled rice	427	19	0	29	475	410	-65
Maize	50	9	247	55	361	280	-81
Barley	25	28	230	50	333	333	--
Total	4,524	359	477	528	5,888	3,646	-2,242

Given the past trend, about three-fourth of wheat deficit (over 1.5 million tonnes) needs to be met through commercial import. Other main option for making up the deficit is food aid.

Annex Ia: Rainfall situation in the 2008 crop growing cycle
{Actual Rainfall amount compared to the Long Term Average (LTA) from October 2007 to May 2008}

Region	Province	Station	Oct	Oct 07	% LTA	Nov	Nov 07	% LTA	Dec	Dec 07	% LTA	Jan	Jan 08	% LTA	Feb	Feb 08	% LTA	Mar	Mar 08	% LTA	Apr	Apr 08	% LTA	May	May 08	% LTA	Cumulative (Oct 07 to May-08)		
			LTA	Actual	Oct 07	LTA	Actual	Nov 07	LTA	Actual	Dec 07	LTA	Actual	Jan 08	LTA	Actual	Feb 08	LTA	Actual	Mar 08	LTA	Actual	Apr 08	LTA	Actual	May 08	LTA	Actual	% LTA
North	Faryab	Maimana	0.0	0.0	100	28.0	0.0	0	35.0	41.6	119	47.9	22.0	46	55.8	43.5	78	83.9	4.5	5	68.0	38.3	56	34.0	0.8	2	352.6	150.7	43
North	Juzjan	Sheberghan	0.0	0.0	100	15.0	1.0	7	29.0	45.6	157	40.8	41.5	102	43.7	37.1	85	53.1	2.2	4	33.0	3.0	9	7.0	0.2	3	221.6	130.6	59
North	Sari Pul	Sari Pul	0.0	0.0	100	0.0	1.0	>100	0.0	61.0	>100	89.0	34.0	38	18.3	41.5	227	10.9	4.5	41	6.1	6.0	98	15.0	0.0	0	139.3	148.0	106
North	Balkh	Mazar	0.0	0.0	100	11.0	0.0	0	21.0	61.8	294	28.9	61.8	214	37.9	35.0	92	46.7	0.0	0	26.0	12.0	46	11.0	0.0	0	182.5	170.6	93
North East	Baghlan	Baghlan	9.0	0.0	0	24.0	0.0	0	23.0	36.0	157	41.1	12.6	31	41.8	19.6	47	84.1	23.2	28	62.0	60.2	97	30.0	3.8	13	315.0	155.4	49
North East	Kunduz	Kunduz	0.0	0.0	100	26.0	0.0	0	36.0	242.0	672	44.2	47.0	106	0.0	47.0	>100	75.3	102.0	135	67.0	99.0	148	41.0	49.0	120	289.5	586.0	202
North East	Takhar	Taluqan	0.0	0.0	100	0.0	3.0	>100	0.0	56.0	>100	77.8	0.0	0	78.1	11.5	15	131.1	33.0	25	119.3	61.0	51	65.1	11.0	17	471.4	175.5	37
North East	Badakshan	Faiz Abad	25.6	26.5	104	29.0	0.0	0	32.0	12.0	38	45.4	6.0	13	63.0	15.0	24	98.2	58.0	59	105.0	87.5	83	94.0	10.0	11	492.2	215.0	44
West	Herat	Herat	0.0	0.0	100	9.0	0.0	0	9.0	28.5	317	49.6	176.0	355	39.0	3.0	8	49.9	0.0	0	33.6	8.0	24	6.5	0.0	0	196.6	215.5	110
West	Farah	Farah	0.0	0.0	100	3.0	0.0	0	3.0	0.0	0	22.2	6.5	29	24.8	19.0	77	25.3	0.0	0	8.0	2.5	31	2.0	0.0	0	88.3	28.0	32
Central	Kabul	Darul Aman	0.0	0.0	100	1.4	0.0	0	0.0	21.7	>100	40.5	40.8	101	71.5	27.2	38	64.3	5.2	8	56.2	61.2	109	17.1	11.9	70	251.0	168.0	67
Central	Kabul	Kabul	0.0	2.8	>100	11.0	0.0	0	25.0	21.0	84	33.1	42.0	127	58.6	25.0	43	63.9	13.0	20	64.0	77.1	120	20.0	17.1	86	275.6	198.0	72
Central	Kabul	Kariz Mir	0.0	0.0	100	27.0	1.0	4	30.0	24.0	80	46.9	96.0	205	68.8	25.0	36	91.7	8.0	9	121.0	102.0	84	31.0	14.0	45	416.4	270.0	65
Central	Kabul	Paghman	0.0	0.0	100	43.0	4.0	9	52.0	41.0	79	62.1	82.0	132	68.5	39.0	57	80.9	8.0	10	89.0	180.0	202	30.0	28.0	93	425.5	382.0	90
Central	Kabul	Sarobi	0.0	0.0	100	15.0	0.0	0	29.0	14.0	48	44.4	70.0	158	54.9	30.0	55	46.5	17.0	37	55.1	66.3	120	14.4	4.5	31	259.3	201.8	78
Central	Parwan	Jabul Seraj	0.0	0.0	100	22.0	0.0	0	36.0	25.0	69	65.3	93.0	142	88.2	33.5	38	98.3	23.0	23	142.0	122.2	86	35.0	20.0	57	486.8	316.7	65
Central	Logar	Logar	0.0	0.0	100	9.0	0.0	0	20.0	6.0	30	34.8	47.0	135	0.0	5.9	>100	44.3	60.0	135	50.0	63.6	127	26.0	18.0	69	184.1	200.5	109
South	Paktya	Gardiz	0.0	0.0	100	11.0	0.0	0	11.0	35.0	318	40.4	42.0	104	70.8	3.0	4	64.0	11.0	17	55.0	79.0	144	25.0	8.0	32	277.2	178.0	64
South	Ghazni	Ghazni	0.0	0.0	100	11.0	4.0	36	11.0	5.0	45	46.1	37.3	81	36.4	20.0	55	55.0	0.0	0	60.0	20.0	33	24.0	0.0	0	243.5	86.3	35
East	Nangharhar	Ghaziabad	0.0	0.0	100	0.0	5.0	>100	4.6	0.0	0	12.9	35.0	271	25.1	12.0	48	37.7	14.0	37	56.3	67.0	119	12.1	15.0	124	148.7	148.0	100
East	Nangharhar	Jalalabad	0.0	0.0	100	8.0	0.0	0	16.0	2.0	13	17.0	27.0	159	0.0	38.0	>100	63.2	9.5	15	33.0	61.5	186	18.0	8.0	44	155.2	146.0	94
South West	Kandahar	Kandahar	0.0	0.0	100	6.0	0.0	0	6.0	2.5	42	49.1	61.5	125	35.1	5.0	14	26.3	4.0	15	16.0	28.0	175.0	2.0	0.0	0.0	140.5	101.0	72

Sources:

MAIL/USGS Project stationed at FAAHM
 Consolidated table prepared at FAAHM

Annex Ib: Rainfall situation in the 2008 paddy growing cycle
{Actual Rainfall amount compared to the Long Term Average (LTA) from June to September 2008}

Region	Province	Station	Jun	Jun 08	% LTA	Jul	Jul 08	% LTA	Aug	Aug 08	% LTA	Sep	Sep 08	% LTA	Cumulative (Jun to Sep-08)		
			LTA	Actual	Jun 08	LTA	Actual	Jul 08	LTA	Actual	Aug 08	LTA	Actual	Sep 08	LTA	Actual	% LTA
North	Faryab	Maimana	1.3	0.0	0	0.7	0.0	0	0.0	0.0	100	0.0	0.0	100	2.0	0.0	0
North	Juzjan	Sheberghan	0.0	0.0	100	0.0	0.0	100	0.5	0.0	0	0.0	0.0	100	0.5	0.0	0
North	Sari Pul	Sari Pul	0.0	0.0	100	0.0	0.0	100	0.0	0.0	100	0.0	0.0	100	0.0	0.0	100
North	Balkh	Mazar	0.0	0.0	100	0.0	0.0	100	0.0	0.0	100	0.0	0.0	100	0.0	0.0	100
North East	Baghlan	Baghlan	0.3	0.0	0	0.0	0.0	100	0.0	0.0	100	0.2	0.0	0	0.5	0.0	0
North East	Kunduz	Kunduz	0.4	0.0	0	0.0	0.0	100	0.0	0.0	100	0.0	0.0	100	0.4	0.0	0
North East	Takhar	Taluqan	6.6	0.0	0	0.1	0.0	0	0.3	0.0	0	2.6	0.0	0	9.6	0.0	0
North East	Badakshan	Faiz Abad	73.0	0.0	0	6.0	10.0	167	1.1	0.0	0	2.2	0.0	0	82.3	10.0	12
West	Herat	Herat	0.0	0.0	100	0.0	0.0	100	0.0	0.0	100	0.0	0.0	100	0.0	0.0	100
West	Farah	Farah	0.0	0.0	100	0.0	0.0	100	0.0	0.0	100	0.1	0.0	0	0.1	0.0	0
Central	Kabul	Darul Aman	1.8	0.0	0	1.4	17.0	1214	0.5	0.6	120	2.7	0.6	22	6.4	18.2	284
Central	Kabul	Kabul	1.2	0.0	0	5.2	0.0	0	1.2	0.0	0	2.0	0.0	0	9.6	0.0	0
Central	Kabul	Kariz Mir	3.2	0.0	0	5.7	4.0	70	0.7	0.0	0	3.3	0.0	0	12.9	4.0	31
Central	Kabul	Paghman	2.4	4.0	167	5.2	0.0	0	6.5	0.0	0	6.5	0.0	0	20.6	4.0	19
Central	Kabul	Sarobi	0.9	0.0	0	0.5	2.5	500	2.4	4.0	167	8.8	0.0	0	12.6	6.5	52
Central	Parwan	Jabul Seraj	1.8	0.0	0	1.9	0.0	0	1.9	0.0	0	4.5	0.0	0	10.1	0.0	0
Central	Logar	Logar	1.7	0.0	0	5.0	0.0	0	0.0	0.0	100	0.0	0.0	100	6.7	0.0	0
South	Paktya	Gardiz	4.3	0.0	0	14.6	10.0	68	7.5	20.3	271	1.2	0.0	0	27.6	30.3	110
South	Ghazni	Ghazni	0.0	0.0	100	0.7	0.0	0	0.0	12.0	>100	0.1	0.0	0	0.8	12.0	1500
East	Nangharhar	Ghaziabad	0.0	0.0	100	2.0	2.0	100	8.7	34.0	391	8.6	22.0	256	19.3	58.0	301
East	Nangharhar	Jalalabad	0.9	0.0	0	6.9	0.0	0	5.0	35.0	700	3.0	0.0	0	15.8	35.0	222
South West	Kandahar	Kandahar	0.0	0.0	100	3.2	0.0	0	1.0	0.0	0	0.0	0.0	100	4.2	0.0	0

Sources:

MAIL/USGS Project stationed at FAAHM
 Consolidated table prepared at FAAHM

Annex 2: Wheat seed produced by the FAO seed project in the last five years

SN	Variety	Breeder Seed (kg)						Foundation Seed (tonnes)						Certified Seed (tonnes)					
		2003	2004	2005	2006	2007	Total	2003	2004	2005	2006	2007	Total	2003	2004	2005	2006	2007	Total
1	MH-96	0.100	2.440	0.341	0.404	--	3.285	2.00	44.00	8.46	--	10.88	65.34	35	800	328	--	--	1,163
2	Herat-99	0.775	3.409	1.500	1.775	3.525	10.984	18.00	64.00	35.50	14.65	14.76	146.91	322	1,175	978	450	358	3,283
3	Balkh-66	0.200	--	--	0.315	--	0.515	4.50	--	--	2.40	9.07	15.97	81	3	--	60	9	153
4	Mazar 99	1.850	--	0.748	1.200	1.514	5.312	44.00	--	17.00	31.05	26.03	118.08	790	5	533	942	815	3,085
5	Gul 96	1.825	0.118	0.783	0.590	0.430	3.746	42.50	4.00	19.00	17.56	14.14	97.20	782	83	575	1,150	193	2,783
6	Ghori-96	0.800	--	0.850	0.540	0.554	2.744	18.50	--	18.99	39.06	6.59	83.14	330	3	580	733	1,017	2,663
7	Lalmi-1	2.000	--	0.950	0.340	1.700	4.990	4.50	--	20.00	6.40	2.68	33.58	81	5	605	620	128	1,439
8	Lalmi-2	0.900	0.378	0.753	0.797	1.035	3.863	47.00	11.00	18.50	48.64	21.20	146.34	847	238	569	1,279	767	3,700
9	Lalmi-3	1.500	0.370	0.450	1.114	3.500	6.934	20.00	11.00	8.40	20.25	33.67	93.32	358	235	326	504	242	1,665
10	Diyama-96	0.200	2.193	0.318	0.646	1.958	5.315	35.00	--	8.80	20.88	12.70	77.38	629	8	336	521	236	1,730
11	Sn'b	--	--	0.308	0.348	0.730	1.386	4.50	--	7.00	8.05	5.38	24.93	81	--	293	503	13	890
12	Cham-6	--	0.050	0.371	0.221	0.880	1.522	4.00	--	8.00	27.05	6.61	45.66	119	--	317	--	210	646
13	Rona-96	--	--	0.200	0.857	2.721	3.778	--	--	4.80	5.40	14.73	24.93	--	--	240	--	85	325
14	Pamir-94	0.800	--	0.900	0.747	0.733	3.180	18.50	--	18.20	7.05	19.31	63.06	318	3	617	194	145	1,277
15	Roshan-96	1.950	1.832	0.600	0.389	0.260	5.031	44.00	39.00	14.50	13.30	7.75	118.55	736	880	473	178	309	2,576
16	Amu-99	1.350	1.413	0.428	0.848	0.587	4.626	30.50	29.00	9.50	26.95	12.30	108.25	514	666	357	689	1,474	3,700
17	Parva-2	0.400	--	0.200	0.950	2.782	4.332	9.50	--	34.00	32.87	15.82	92.19	159	3	245	851	289	1,547
18	Solh-2	0.600	0.315	0.983	0.569	0.202	2.669	14.00	9.00	24.00	15.97	14.41	77.38	236	200	701	--	285	1,422
19	PBW-154	0.800	0.180	0.988	1.692	11.470	15.130	18.00	5.00	23.00	38.53	35.50	120.03	303	100	677	--	534	1,614
20	HUW-234	--	--	0.368	0.348	--	0.716	--	--	8.00	1.00	11.70	20.70	--	--	317	--	16	333
21	HD-2285	--	--	0.130	0.320	4.500	4.950	--	--	3.50	1.00	6.78	11.28	--	--	119	27	42	188
22	Bakhtawar-	0.550	3.002	1.263	1.799	0.790	7.404	12.00	65.00	22.85	16.61	33.00	149.46	200	1,428	668	426	339	3,061
23	Mayson	--	--	--	0.242	--	0.242	--	--	--	--	--	--	--	--	--	--	--	--
24	Kouz/AA/	--	--	--	0.350	--	0.350	--	--	--	--	--	--	--	--	--	--	--	--
25	FDLu/NG8	--	--	--	0.225	--	0.225	--	--	--	--	--	--	--	--	--	--	--	--
26	Pastor	--	--	0.728	0.600	0.160	1.488	--	--	--	--	6.00	6.00	--	--	--	--	--	--
27	Ghazna-97	0.250	--	--	--	0.170	0.420	--	--	--	5.33	--	5.33	--	--	--	145	10	155
28	/4/Clif	--	--	--	0.150	--	0.150	--	--	--	--	--	--	--	--	--	--	--	--
29	UREs/PRC	--	--	0.130	0.224	--	0.354	--	--	--	--	--	--	--	--	--	--	--	--
30	IRENA/We	--	--	0.230	--	--	0.230	--	--	--	--	3.01	3.01	--	--	--	--	--	--
31	WEBBLL-	--	--	0.130	0.200	--	0.330	--	--	--	--	--	--	--	--	--	--	--	--
32	Takhar-96	0.150	--	--	--	--	0.150	--	--	--	--	--	--	4	--	--	111	--	115
Total		17.000	15.700	14.650	18.800	40.201	106.351	391.00	281.00	332.00	400.00	344.00	1748.00	6,925	5,835	9,854	9,383	7,516	39,513

Source: FAO Seed Project (GCP/AFG/018/045/EC)

Annex 3: Area and Production of Wheat in 2008 by province (Final Estimates; October 2008)

REGION/ Province	Irrigated Wheat			Rainfed Wheat			Total Wheat		
	Area	Yield	Production	Area	Yield	Production	Area	Yield	Production
	('000 ha)	(t/ha)	('000 tons)	('000 ha)	(t/ha)	('000 tons)	('000 ha)	(t/ha)	('000 tons)
NORTH	195	1.87	364	585	0.18	108	780	0.61	472
Faryab	39	2.02	79	171	0.16	27	210	0.50	106
Juzjan	38	1.68	64	72	0.15	11	110	0.68	75
Sar-i-Pul	23	2.10	48	106	0.20	21	129	0.53	69
Balkh	82	1.79	147	125	0.21	26	207	0.84	173
Samangan	13	1.98	26	111	0.21	23	124	0.40	49
NORTH-EAST	213	1.99	423	339	0.11	36	552	0.83	459
Bughlan	52	1.87	97	74	0.11	8	126	0.83	105
Kunduz	88	1.85	163	20	0.11	2	108	1.53	165
Takhar	46	2.35	108	129	0.11	14	175	0.70	122
Badakhshan	27	2.05	55	116	0.10	12	143	0.47	67
WEST	109	2.14	233	158	0.38	60	267	1.10	293
Herat	73	2.12	155	84	0.44	37	157	1.22	192
Farah	15	2.37	36	0	0.00		15	2.40	36
Badghis	21	2.00	42	74	0.31	23	95	0.68	65
WEST-CENTRAL	29	2.41	70	35	0.23	8	64	1.22	78
Ghor	17	2.25	38	29	0.22	6	46	0.96	44
Bamyan	12	2.64	32	6	0.26	2	18	1.89	34
CENTRAL	109	3.02	329	11	0.27	3	120	2.77	332
Kabul	21	2.94	62	1	0.26	0	22	2.82	62
Parwan	23	2.70	62	2	0.33	1	25	2.52	63
Panjsher	5	2.29	11	1	0.33	0	6	1.83	11
Kapisa	9	3.18	29	0	0.00		9	3.22	29
Logar	27	3.69	100	6	0.30	2	33	3.09	102
Wardak	24	2.70	65	1	0.26	0	25	2.60	65
SOUTH	84	2.94	247	3	0.00	0	87	2.84	247
Paktya	16	3.36	54	1	0.26	0	17	3.18	54
Paktika	14	2.80	39	1	0.26	0	15	2.60	39
Khost	13	2.10	27	0	0.00		13	2.08	27
Ghazni	41	3.10	127	1	0.22	0	42	3.02	127
EAST	83	3.05	253	8	0.13	1	91	2.79	254
Nangarhar	61	3.01	184	6	0.22	1	67	2.76	185
Laghman	13	3.12	41	1	0.22	0	14	2.93	41
Kunarha	8	3.14	25	0	0.00		8	3.13	25
Nooristan	1	2.85	3	1	0.22	0	2	1.50	3
SOUTH-WEST	168	2.90	487	10	0.10	1	178	2.74	488
Kandahar	42	2.58	108	1	0.22	0	43	2.51	108
Helmand	71	3.45	245	0	0.00		71	3.45	245
Zabul	10	3.00	30	1	0.22	0	11	2.73	30
Nimroz	14	2.23	31	1	0.22	0	15	2.07	31
Uruzgan	26	2.25	59	1	0.26	0	27	2.19	59
Daikunde	5	2.75	14	6	0.22	1	11	1.36	15
TOTAL	990	2.43	2,406	1,149	0.19	217	2,139	1.23	2,623

Source: FAAHM/MAIL

Annex 4: Wheat Balance in 2008 by Province (Final estimates)

REGION/ Province	Settled population in 2008 (^{'000})	Irrigated wheat area to be planted (^{'000} ha.)	Rainfed wheat area to be planted (^{'000} ha.)	Production (^{'000} tons)	Required for human consumption (^{'000} tons)	Seed (^{'000} tons)	Post harvest losses (^{'000} tons)	Surplus or Deficit (^{'000} tons)
NORTH	3,285.9	220	710	472	525.7	97.4	71.0	-222.1
Faryab	868.8	42	190	106	139.0	23.1	15.9	-72.0
Juzjan	468.0	50	110	75	74.9	17.9	11.3	-29.1
Sar-i-Pul	488.2	25	120	69	78.1	14.3	10.4	-33.8
Balkh	1,122.6	87	160	173	179.6	28.5	26.0	-61.1
Samangan	338.3	16	130	49	54.1	13.6	7.4	-26.1
NORTH-EAST	3,342.9	220	352	459	534.9	67.8	69.0	-212.7
Bughlan	789.5	54	80	105	126.3	16.1	15.8	-53.2
Kunduz	866.7	91	22	165	138.7	17.8	24.8	-16.3
Takhar	855.5	50	140	122	136.9	20.4	18.3	-53.6
Badakhshan	831.2	25	110	67	133.0	13.5	10.1	-89.6
WEST	2,493.8	144	240	293	399.0	45.1	44.0	-195.1
Herat	1,611.2	97	140	192	257.8	28.6	28.8	-123.2
Farah	448.8	24	0	36	71.8	4.2	5.4	-45.4
Badghis	433.8	23	100	65	69.4	12.3	9.8	-26.5
WEST-CENTRAL	995.5	35	48	78	159.3	10.1	11.7	-103.1
Ghor	604.4	22	40	44	96.7	7.2	6.6	-66.5
Bamyan	391.1	13	8	34	62.6	2.9	5.1	-36.6
CENTRAL	5,300.3	111	15	332	848.1	20.7	50.0	-586.8
Kabul	3,335.2	21	1	62	533.6	3.8	9.3	-484.7
Parwan	579.3	23	3	63	92.7	4.3	9.5	-43.5
Panjsher	134.4	6	2	11	21.5	1.2	1.7	-13.4
Kapisa	386.3	9	0	29	61.8	1.6	4.4	-38.8
Logar	342.9	26	8	102	54.9	5.2	15.3	26.6
Wardak	522.2	26	1	65	83.6	4.6	9.8	-33.0
SOUTH	2,439.5	98	5	247	390.3	17.6	37.2	-198.1
Paktya	482.4	17	1	54	77.2	3.1	8.1	-34.4
Paktika	380.7	15	2	39	60.9	2.8	5.9	-30.6
Khost	502.7	12	0	27	80.4	2.1	4.1	-59.6
Ghazni	1,073.7	54	2	127	171.8	9.6	19.1	-73.5
EAST	2,223.2	72	10	254	355.7	13.5	38.3	-153.5
Nangarhar	1,309.4	50	8	185	209.5	9.4	27.8	-61.7
Laghman	390.1	13	1	41	62.4	2.4	6.2	-30.0
Kunarha	394.1	8	0	25	63.1	1.4	3.8	-43.3
Nooristan	129.6	1	1	3	20.7	0.3	0.5	-18.5
SOUTH-WEST	2,957.8	171	15	488	473.2	31.1	73.4	-89.7
Kandahar	1,037.1	38	1	108	165.9	6.7	16.2	-80.8
Helmand	807.5	75	0	245	129.2	13.1	36.8	65.9
Zabul	265.9	12	1	30	42.5	2.2	4.5	-19.2
Nimroz	137.4	14	1	31	22.0	2.5	4.7	1.8
Uruzgan	306.6	27	2	59	49.1	4.9	8.9	-3.9
Daikunde	403.3	5	10	15	64.5	1.7	2.3	-53.5
Total for settled	23,038.9	1,071	1,395	2623	3,686.2	303.2	393.5	-1,759.9
Total for Kuchi	1,700.0	0	0	0	272.0	--	--	-272.0
Total for returnees	400.0	0	0	0	64.0	--	--	-64.0
Overall	25,138.9	1,071	1,395	2623	4,022.2	303.2	393.5	-2,095.9

Sources:

CSO: Projected population data for 2008

FAAHM and FAO: All other data

**Annex 5: Production and Requirements of various cereals in 2008
(Final Estimates)**

Crop	Population (‘000 no.)	Required for human consumption (kg/person)	Forecasted area for 2009 (‘000 ha)	Seed-rate rate (kg/ha)	Used as Food (‘000 t)	Used as Seed (‘000 t)	Used as feed (‘000 t)	Loss (‘000 t)	Total required (‘000 t)	Total production (‘000 t)	Surplus/ Deficit (‘000 t)
	(1)	(2)	(3)	(4)	(5)=(1)x(2)	(6)=(3)x(4)	(7)	(8)	(9)=(5)+(6)+(7)+(8)	(10)	(11)=(10)-(9)
Irrigated wheat	25,139		1,071	175		187	--	361		2,406	
Rainfed wheat			1,395	83		116	--	33		217	
All wheat		160	2,466	126	4,022	303	0	394	4,719	2,623	-2,096
Milled rice		17	180	105	427	19	0	29	475	410	-65
Maize		2	150	60	50	9	247	55	361	280	-81
Barley		1	250	110	25	28	230	50	333	333	0
All cereals	180	3,046		4,524	359	477	528	5,888	3,646	-2,242	

Losses: 15% of production for wheat, maize and barley; 7% for milled rice

