



دکرهنی ، اوپولگولو او مالداری وزارت
وزارت زراعت، آبیاری و مالداری

Islamic Republic of Afghanistan
Ministry of Agriculture, Irrigation and Livestock

دافتغانستان اسلامی جمهوریت
جمهوری اسلامی افغانستان



For internal use of MAIL



AGRICULTURE PROSPECTS REPORT



Ministry of Agriculture, Irrigation and Livestock
General Directorate of Planning and Policy
Statistics and Marketing Information Office

Kabul, 15 September 2011

Abbreviations

APR	Agriculture Prospects Report
DAIL	Department of Agriculture, Irrigation and Livestock (Provincial Office of MAIL)
DAP	Di-Ammonium Phosphate
EU	European Union
FAO	Food and Agriculture Organization of the United Nations
MAIL	Ministry of Agriculture, Irrigation and Livestock
MY	Marketing Year (July thru June)

Acknowledgement

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Cover photo

Paddy in Welayati Village of Beshud district in Nangarhar on the 7th September

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CONTENTS

Map: Wheat Balance by Province in Marketing Year 2011/12

1.	SUMMARY	1
2.	CEREAL AREA, PRODUCTION, REQUIREMENT AND DEFICIT	2
3.	FACTORS THAT EXERTED POSITIVE IMPACTS.....	3
4.	WAY FORWARD	3
5.	REMARKS	4

Tables

Table 1: Production of Cereals in 2011

Table 2: Cereal Balance Sheet in 2011/12

Table 3: Area and Production of different Cereals in 2011

Table 4: Changes in wheat area, yield and production in 2011 compared to 2010

Table 5: Production of Wheat Seed in contract growers' field, 2011

Annex

Annex 1: Rainfall in May-July 2011 compared to the Long-Term Average

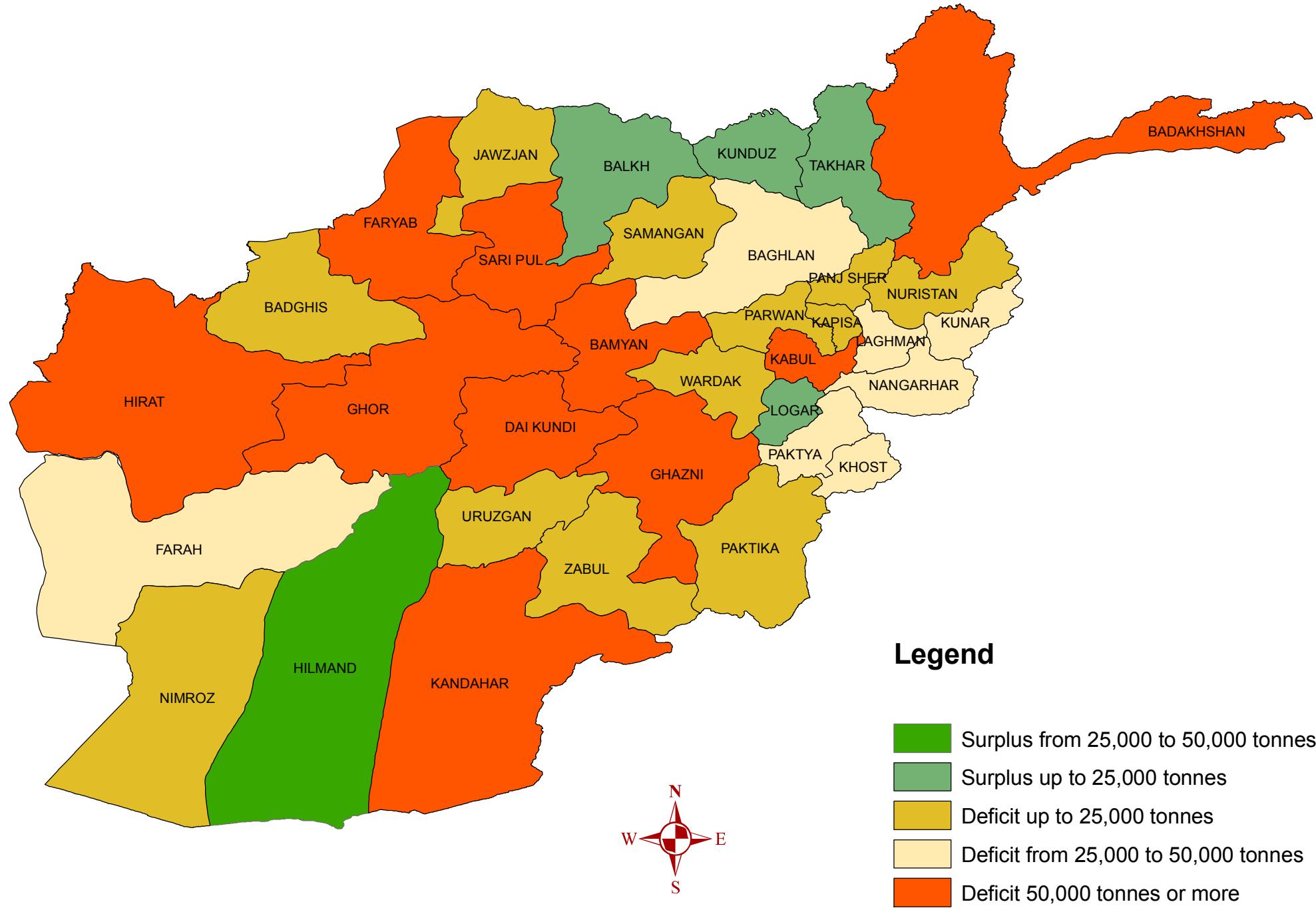
Annex 2: Wheat Seed Produced by the FAO Seed Project (2003-2010)

Annex 3: Area and Production of Wheat in 2011 by Province

Annex 4: Wheat Balance in 2011 by Province

Annex 5: Production and Requirements of cereals in 2011

Wheat Balance 2011



Agriculture Prospects Report (APR)

1. Summary

The main purpose of this report is to provide the updated estimates of the cereal area, output and balance for the 2011/12 Marketing Year (July-June). The report supersedes the Agriculture Prospects Report released by MAIL on the 31st May 2011.

The updated estimate of cereal production in 2011 is **4.44 million tons**, an increase of 3% on the volume forecasted in May, 2011. The increase is mainly due the fact that the updated yield of irrigated wheat (2.65 tons/ha) is 4% higher than its forecasted yield (2.54 tons/ha).

Table 1: Production of Cereals in 2011 ('000 tons)

Crop	May forecast	September estimate	Difference (Sep – May)
Irrigated wheat	2,917	3,067	150
Rainfed wheat	339	321	-18
All wheat	3,256	3,388	132
Rice	450	450	--
Maize	301	301	--
Barley	305	305	--
Overall	4,312	4,444	132

The total cereal requirement in MY 2011/12 is estimated at **6.30 million tons** and the deficit at **1.86 million tons**. The volume of estimated deficit has shrunk by 5.6% on the volume forecasted in May (1.97 million tons). (Table 2)

The wheat deficit in MY 2011/12 is estimated at **1.8 million tons**, which is 113,000 tons (5.3%) narrower than the volume forecasted in May (1.9 million tons). The decrease in estimated shortfall in wheat mainly reflects the use of updated estimate of wheat production (3.39 million tons) in the calculation.

Table 2: Cereal Balance Sheet, MY 2011/12 ('000 tons)

Crop	Requirements					Domestic production	Deficit
	Food	Seed	Feed	Loss	Total		
Irrigated wheat		209		460		3,067	
Rainfed wheat		119		48		321	
All wheat	4,346	328		508	5,182	3,388	-1,794
Rice	462	22		32	516	450	-66
Maize	54	11	191	45	301	301	
Barley	27	30	202	46	305	305	
Total	4,889	391	393	631	6,304	4,444	-1,860

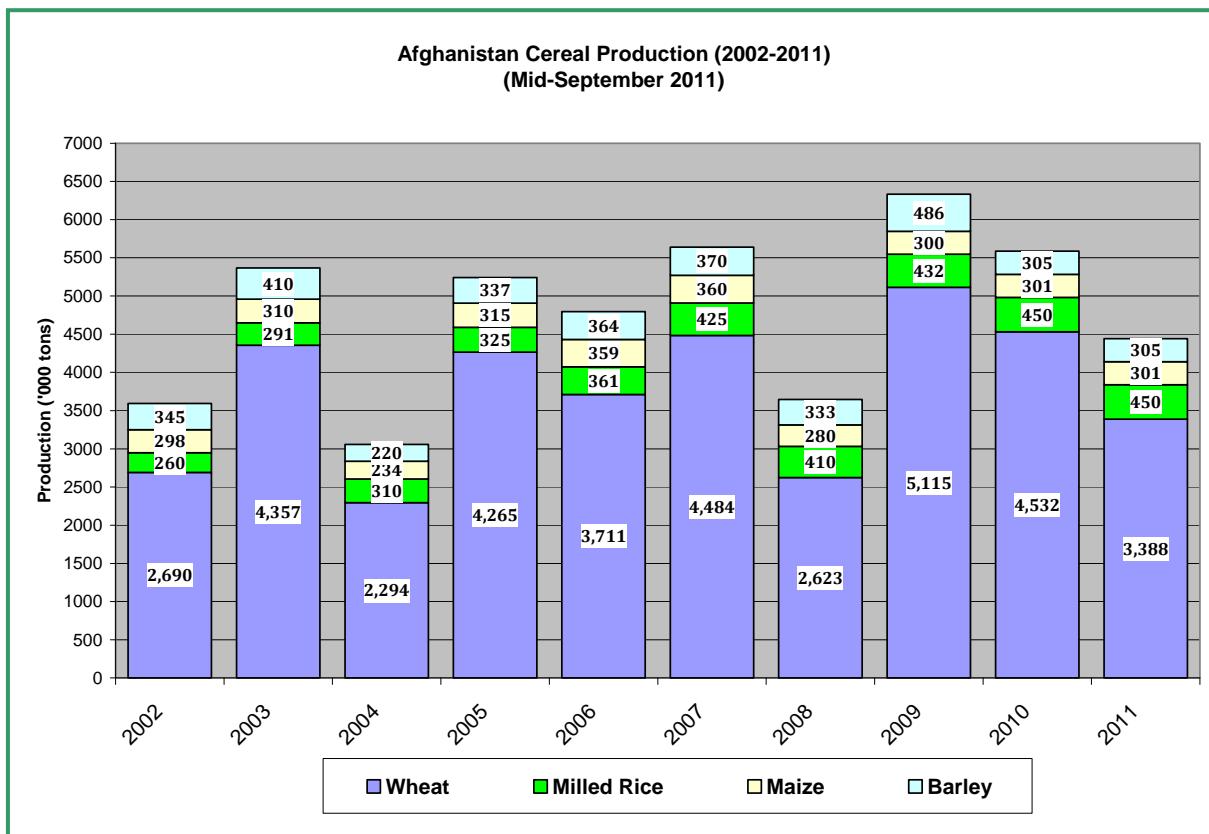
2. Cereal Area, Production, Requirement and Deficit in 2011

Total area planted with cereals is estimated at 2.82 million hectares, with 79% share of wheat and almost equal share of 7% of other three cereals (rice, maize and barley).

Table 3: Area and Production of different Cereals in 2011¹
(September, 2011 estimates)

Crop	Area ('000 HA)	Yield (MT/HA)	Production ('000 MT)
Irrigated wheat (Winter & Spring)	1,156	2.65	3,067
Rainfed wheat (Winter & Spring)	1,076	0.30	321
All wheat	2,232	1.52	3,388
Rice	210	3.20	450
Maize	183	1.64	301
Barley	190	1.61	305
Overall	2,815		4,444

Cereal production in 2011 (4.44 million tons) is estimated to be 15% lower than the average level of 5.2 million tons (2005-2009) and 20% lower than that of the last year. Year to year changes in the volume of production of cereals in the recent ten years are shown in the Graph below. This year's cereal production is broadly comparable with that of 2006.



¹ See Annex 3 for provincial level crop data on wheat

The cereals planted in rainfed areas experienced severe water stress during their growth and development. For example, area and yield of rainfed wheat decreased by 20% and 72% compared to last year. These decreases mean sharp decreases in the outputs of wheat reaped in the north, north-east and western regions. (Table 4; Annex 3)

The area planted with irrigated wheat in 2011 is equal to the area planted in 2010, but the potential yield of irrigated wheat was limited by poorer water flows in canals.

Compared with 2010, overall decreases in area and yield of wheat are estimated at 11% and 16%. As a result of these decreases, domestic production of wheat in 2011 has fallen by 25%.

**Table 4: Changes in wheat area, yield and production in 2011 compared to 2010
(September, 2011)**

Crop	2010			2011			% change on 2010		
	Area	Yield	Prod	Area	Yield	Prod	Area	Yield	Prod
Irrigated wheat	1,151	2.68	3,082	1,156	2.65	3,067	--	-1	--
Rainfed wheat	1,353	1.07	1,450	1,076	0.30	321	-20	-72	-78
All wheat	2,504	1.81	4,532	2,232	1.52	3,388	-11	-16	-25

Total cereal requirement in MY 2011/12 is estimated at 6.30 million tons, which consists of human consumption (78%), seed (6%), feed (6%) and loss (10%). (Table 2 on Page 1; Annex 4/5)

Deficit in cereal in MY 2011/12 is estimated at 1.86 million tons², which includes 1.8 million tons of wheat and 66,000 tons of milled rice. (Table 2 on Page 1; Annex 4/5)

3. Factors that exerted favorable impacts

The importance of following factors in exerting profound impact on irrigated fields planted with wheat in 2010/11 cannot be over-emphasized:

- a) Production of over 18,000 tons of improved wheat seed in 2010, up 40% on 2009 (Annex 2)
- b) Incremental area brought under irrigation (25,000 ha)³
- c) National Seed Distribution Program
- d) Effective control of pests and diseases

Rainfall amount in May through July - which is an important period for growth or development of paddy and maize, in particular - was generally satisfactory in the country. (Annex I)

4. Way Forward

The cereal deficit in MY 2011/12 will have to be narrowed by the following usual components: commercial import, cereal stock held by the Government, imported food aid, and uncovered deficit (hunger). In early-February and May, MAIL had observed that the prevailing weather events portended significantly reduced crop production in 2011 and stressed on:#

- Larger volume of wheat import
- More food-based safety nets (e.g. more food aid than in 2008, for example)

² Cereal shortfall was 753,000 tons in MY 2010/11

³ Source: Ministry of Energy and Water (Emergency Irrigation Rehabilitation Project funded by the World Bank)

- Larger volume of grain in Strategic Grain Reserve

The production of all types of wheat seeds (Breeder, Foundation, Registered and Certified) for the use in the forthcoming crop seasons is on stream. (Annex 2)

In MY 2011/12 MAIL aims to procure and distribute 30,000 tons of certified wheat, together with 60,000 tons Urea and 30,000 tons DAP for the use of 600,000 farming families. Table 5 shows that the contract-growers will be able to supply well above 30,000 tons of processed certified seed.

Table 5: Production of Wheat Seed in contract growers' field, 2011

Region	Number of contract growers	Inspected (ha)	Accepted (ha)	Yield (ton/ha)	Expected production (ton)	Field inspection completed (%)
North	1,101	2,360	2,070	2.80	5,800	98
North-East	2,274	4,004	3,900	2.95	11,500	95
West	1,794	2,967	2,900	4.83	14,000	93
South	110	250	250	4.00	1,000	83
East	233	1,006	1,000	3.24	3,240	96
Central	965	960	600	2.43	1,460	96
All	6,477	11,547	10,720	3.45	37,000	95

Source: FAO Seed Project

5. Remarks

Crop data presented in this report are blend of the results of probability sample surveys, including wheat crop cuts survey, conducted by MAIL in 24 provinces⁴ and the most updated crop data and information provided by 34 DAILS⁵. The report provides the most reliable crop data that can be gathered by MAIL under the prevailing circumstances.

The report provides the final crop estimates for wheat and barley, the share of which in the total cereal production is estimated at 86%. Probability sample surveys for estimation of paddy yield will be undertaken by MAIL in September-November in main paddy-growing provinces. The final crop estimates for paddy, maize and the total cereal will be provided in December.

⁴ Badghis, Baghlan, Balkh, Bamyan, Daykundi, Farah, Ghor, Helmand, Herat, Jawzjan, Kabul, Kandahar, Kapisa, Kunar, Kunduz, Laghman, Logar, Nangarhar, Nuristan, Panjsher, Parwan, Samangan, Takhar and Wardak

⁵ Crop (cuts) reports from provinces are crop-calendar/festival dependent. MAIL received the reports from Ghor and Daikunde in the second week of September only.

Annex 1: Rainfall in May-July 2011 compared to the Long-Term Average (LTA)

Region	Province	Station	LTA			Actual			Rainfall Amount as % of LTA		
			May	Jun	Jul	May	Jun	Jul	May	Jun	Jul
North	Faryab	Maimana	29.8	1.3	0.7	6.0	0.0	0.0	20	0	0
North	Juzjan	Sheberghan	10.0	0.0	0.0	27.0	3.0	0.0	270	>100	100
North	Sari Pul	Sari Pul	15.2	0.0	0.0	13.5	0.0	0.0	89	100	100
North	Balkh	Mazar	12.7	0.0	0.0	15.0	0.0	0.0	118	100	100
North East	Baghlan	Baghlan	23.3	0.3	0.0	14.2	0.0	0.0	61	0	100
North East	Kunduz	Kunduz	13.6	0.4	0.0	7.0	0.0	0.0	51	0	100
North East	Takhar	Taluqan	65.1	6.5	0.1	6.0	0.0	0.0	9	0	0
North East	Badakshan	Faiz Abad	81.4	73.0	6.0	29.0	15.0	0.0	36	21	0
West	Herat	Herat	6.5	0.0	0.0	3.0	0.0	0.0	46	100	100
West	Farah	Farah	2.3	0.0	0.0	0.0	0.0	0.0	0	100	100
Central	Kabul	Darul Aman	17.1	1.8	1.4	1.0	0.0	0.0	6	0	0
Central	Kabul	Kabul	24.3	1.2	5.2	16.7	0.0	2.7	69	0	52
Central	Kabul	Kariz Mir	29.4	3.2	5.7	8.0	4.0	5.0	27	125	88
Central	Kabul	Paghman	27.6	2.4	8.3	10.0	0.0	0.0	36	0	0
Central	Kabul	Sarobi	14.4	0.9	0.5	3.0	0.0	0.0	21	0	0
Central	Parwan	Jabul Seraj	32.2	1.8	1.9	15.0	0.0	0.0	47	0	0
Central	Logar	Logar	1.5	2.0	0.4				0	0	0
South	Paktya	Gardiz	17.9	4.3	14.6	8.2	20.0	4.2	46	465	29
South	Ghazni	Ghazni	17.8	2.2	15.7	0.0	0.0	0.0	0	0	0
East	Nangharhar	Ghaziabad	12.1	0.0	2.0	5.0	0.0	20.0	41	100	1000
East	Nangharhar	Jalalabad	21.7	0.9	6.9	1.0	2.0		5	222	0
South West	Kandahar	Kandahar	1.8	0.0	3.2	0.0	0.0	0.0	0	100	0

Sources:

MAIL/United States Geological Survey Project
Summary table prepared at MAIL

Annex 2: Wheat Seed Produced by the FAO Seed Project (2003-2010)

SN	Variety	Breeder Seed (tonnes)							Foundation Seed (tonnes)							Registered Seed		Certified Seed (tonnes)													
		2003	2004	2005	2006	2007	2008	2009	2010	Total	2003	2004	2005	2006	2007	2008	2009	2010	Total	2010	Total	2003	2004	2005	2006	2007	2008	2009	2010	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	--	--	173	80	--	1,416	
2	Herat-99	0.775	3,409	1,500	1,775	3,525	6,607	8,301	9,000	34,892	18.00	64.00	35.50	14.65	14.76	54.33	210.05	122.80	534.09	336.24	336.24	322	1,175	978	450	358	445	570	3,582	7,880	
3	Balkh-66	0.200	--	--	0.315	--	--	--	--	0.515	4.50	--	--	2.40	9.07	--	--	--	15.97	--	--	81	3	--	60	9	12	--	--	165	
4	Mazar 99	1.850	--	0.748	1,200	1,514	3,492	7,278	9,134	25,216	44.00	--	17.00	31.05	26.03	33.71	156.01	75.65	383.45	210.22	210.22	790	5	533	942	815	1,321	984	1,261	6,651	
5	Gul 96	1.825	0.118	0.783	0.590	0.430	6,452	5,395	6,172	21,765	42.50	4.00	19.00	17.56	14.14	2.91	171.74	34.00	305.85	206.82	206.82	782	83	575	1,150	193	348	300	2,455	5,886	
6	Ghori-96	0.800	--	0.850	0.540	0.554	11,743	8,205	9,575	32,267	18.50	--	18.99	39.06	6.59	9.02	122.35	79.00	293.50	232.20	232.20	330	3	580	733	1,017	1,033	1,167	1,496	6,359	
7	Lalmi-1	2.000	--	0.950	0.340	1,700	--	--	--	4,990	4.50	--	20.00	6.40	2.68	10.43	--	--	44.01	--	--	81	5	605	620	128	235	200	--	1,874	
8	Lalmi-2	0.900	0.378	0.753	0.797	1,035	4,631	5,900	4,571	18,965	47.00	11.00	18.50	48.64	21.20	23.39	111.79	21.25	302.77	181.52	181.52	847	238	569	1,279	767	881	955	1,379	6,915	
9	Lalmi-3	1.500	0.370	0.450	1,114	3,500	6,160	4,718	3,600	21,412	20.00	11.00	8.40	20.25	33.67	40.62	100.15	35.70	269.79	23.18	23.18	358	235	326	504	242	460	882	2,254	5,261	
10	Diyama-96	0.200	2,193	0.318	0.646	1,958	0.350	0.890	--	6,555	35.00	--	8.80	20.88	12.70	29.25	2.56	--	109.19	--	--	629	8	336	521	236	154	100	13	1,997	
11	Sn'b	--	--	0.308	0.348	0.730	1,405	1,521	1,665	5,977	4.50	--	7.00	8.05	5.38	9.18	33.41	9.35	76.86	22.78	22.78	81	--	293	503	13	42	160	505	1,597	
12	Cham-6	--	0.050	0.371	0.221	0.880	0.485	--	--	2,007	4.00	--	8.00	27.05	6.61	4.80	--	--	50.45	--	--	119	--	317	--	210	99	123	--	868	
13	Rona-96	--	--	0.200	0.857	2,721	0.536	--	--	4,314	--	--	4.80	5.40	14.73	33.64	--	10.00	68.57	--	--	--	--	240	--	85	423	453	--	1,201	
14	Pamir-94	0.800	--	0.900	0.747	0.733	2,645	0.691	0.250	6,766	18.50	--	18.20	7.05	19.31	11.45	31.76	1.50	107.77	7.00	7.00	318	3	617	194	145	490	640	477	2,884	
15	Roshan-96	1.950	1,832	0.600	0.389	0.260	3,340	3,109	--	11,480	44.00	39.00	14.50	13.30	7.75	0.69	--	--	119.24	--	--	736	880	473	178	309	1,505	881	--	4,962	
16	Amu-99	1.350	1,413	0.428	0.848	0.587	3,635	3,764	--	12,025	30.50	29.00	9.50	26.95	12.30	10.82	106.70	--	225.77	--	--	514	666	357	689	1,474	1,429	402	11	5,542	
17	Parva-2	0.400	--	0.200	0.950	2,782	1,618	2,240	2,283	10,473	9.50	--	34.00	32.87	15.82	26.39	18.80	12.75	150.13	--	--	159	3	245	851	289	311	376	422	2,656	
18	Sohl-2	0.600	0.315	0.983	0.569	0.202	2,915	4,961	6,529	17,074	14.00	9.00	24.00	15.97	14.41	27.49	43.30	29.75	177.92	67.30	67.30	236	200	701	--	285	584	470	571	3,047	
19	PBW-154	0.800	0.180	0.988	1,692	11,470	10,000	8,657	11,288	45,075	18.00	5.00	23.00	38.53	35.50	134.00	234.48	51.85	540.36	388.15	388.15	303	100	677	--	534	1,017	2,734	3,490	8,855	
20	HUW-234	--	--	0.368	0.348	--	--	--	--	0.716	--	--	8.00	1.00	11.70	--	--	--	20.70	--	--	317	--	--	16	105	--	--	--	438	
21	HD-2285	--	--	0.130	0.320	4,500	0.648	1,579	--	7,177	--	--	3.50	1.00	6.78	65.84	34.40	--	111.52	--	--	--	--	119	27	42	411	1,432	--	2,031	
22	Bakhtawar-92	0.550	3,002	1,263	1,799	0.790	3,940	4,424	2,355	18,123	12.00	65.00	22.85	16.61	33.00	--	42.50	30.00	221.96	--	--	200	1,428	668	426	339	455	19	165	3,700	
23	Mayson	--	--	--	0.242	--	--	--	--	0.242	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
24	Kouz/AA/Kouz	--	--	--	0.350	--	--	--	--	0.350	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--			
25	FDL/NG8695	--	--	--	0.225	--	--	--	--	0.225	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--			
26	Pastor	--	--	0.728	0.600	0.160	--	--	--	1,488	--	--	--	6.00	--	--	--	6.00	--	--	--	--	--	--	--	--	65	--	65		
27	Ghazna-97	0.250	--	--	0.170	--	--	--	--	0.420	--	--	5.33	--	3.10	--	--	8.43	--	--	--	--	--	--	--	145	10	11	20	--	186
28	4/Clif	--	--	--	0.150	--	--	--	--	0.150	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--			
29	UREs/PRC	--	--	0.130	0.224	--	--	--	--	0.354	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--			
30	IRENA/Weave	--	--	0.230	--	--	--	1,900	2,480	4,610	--	--	--	3.01	--	--	--	3.01	13.00	13.00	--	--	--	--	--	--	--	25	--	25	
31	WEBLL-1	--	--	0.130	0.200	--	--	--	--	0.330	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--			
32	Takhar-96	0.150	--	--	--	--	--	--	--	0.150	--	--	--	--	--	--	--	--	--	--	--	4	--	111	--	--	--	115			
33	Darulaman-07	--	--	--	--	--	--	--	--	0.806	0.806	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--			
34	Ariana-07	--	--	--	--	--	--	--	--	1,584	1,584	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--			
35	Dorkhshan-08	--	--	--	--	--	--	--	8,487	8,573	17,060	--	--	--	--	--	--	120.50	120.50	0.70	0.70	--	--	--	--	--	--	--	--		
36	Shesham Bagh-	--	--	--	--	--	--	--	--	4,980	5,819	10,799	--	--	--	--	--	--	69.30	69.30	0.40	0.40	4	--	111	--	--	--	115		
37	Moqawem-09	--	--	--	--	--	--	--	--	11,820	11,820	--	--	--	--	--	--	--	13.80	13.80	--	--	--	--	--	--	--	--	--		
38	Kushan-09	--	--	--	--	--	--	--	--	6,728	6,728	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
	Total	17.000	15.700	14.650	18.800	40.201	70.602	87.000	104.232	368.185	391.00	281.00	332.00	400.00	344.00	531.05	1,420.00	703.40	4,402.45	1,703.31	1,703.31	6,929	5,835	9,854	9,494	7,516	12,034	12,948	18,081	82,691	

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

Annex 3: Area and Production of Wheat in 2011 by Province (Mid-September 2011 Estimates)

REGION/ Province	Irrigated Wheat			Rainfed Wheat			Total Wheat		
	Area	Yield	Prod	Area	Yield	Prod	Area	Yield	Prod
	('000 ha)	(t/ha)	('000 tons)	('000 ha)	(t/ha)	('000 tons)	('000 ha)	(t/ha)	('000 tons)
NORTH	215	2.08	448	544	0.24	130	759	0.76	578
Faryab	33	1.91	63	165	0.25	41	198	0.53	104
Juzjan	41	1.70	70	79	0.40	32	120	0.85	102
Sar-i-Pul	28	1.52	43	74			102	0.42	43
Balkh	100	2.54	254	102	0.10	10	202	1.31	264
Samangan	13	1.42	18	124	0.38	47	137	0.47	65
NORTH-EAST	220	2.63	579	251	0.36	91	471	1.42	670
Bughlan	59	2.35	139	47	0.20	9	106	1.40	148
Kunduz	86	2.44	210	24	0.18	4	110	1.95	214
Takhar	51	3.52	180	88	0.39	34	139	1.54	214
Badakhshan	24	2.07	50	92	0.48	44	116	0.81	94
WEST	134	2.57	344	194	0.37	71	328	1.27	415
Herat	92	2.64	243	119	0.40	48	211	1.38	291
Farah	19	2.53	48				19	2.53	48
Badghis	23	2.32	53	75	0.30	23	98	0.78	76
WEST-CENTRAL	37	1.97	73	40	0.25	10	77	1.08	83
Ghor	25	2.04	51	32	0.25	8	57	1.04	59
Bamyan	12	1.87	22	8	0.30	2	20	1.20	24
CENTRAL	126	3.58	451	17	0.59	10	143	3.22	461
Kabul	22	3.44	76	1	0.52	1	23	3.35	77
Parwan	30	3.94	118	5	0.48	2	35	3.43	120
Panjsher	7	3.57	25	2	0.52	1	9	2.89	26
Kapisa	15	3.96	59	1	0.43		16	3.69	59
Logar	27	2.97	80	3	0.77	2	30	2.73	82
Wardak	25	3.72	93	5	0.84	4	30	3.23	97
SOUTH	110	2.97	327	12	0.25	3	122	2.70	330
Paktya	20	2.60	52	1	0.37		21	2.48	52
Paktika	16	4.34	69	6	0.37	2	22	3.23	71
Khost	16	3.88	62	1	0.35		17	3.65	62
Ghazni	58	2.49	144	4	0.37	1	62	2.34	145
EAST	115	3.00	345	4	0.25	1	119	2.91	346
Nangarhar	79	3.10	245				79	3.10	245
Laghman	15	2.92	44				15	2.93	44
Kunarha	15	2.77	42	3	0.26	1	18	2.39	43
Nooristan	6	2.40	14	1	0.26		7	2.00	14
SOUTH-WEST	199	2.51	500	14	0.36	5	213	2.37	505
Kandahar	40	2.70	108	1	0.22		41	2.63	108
Helmand	85	2.80	238				85	2.80	238
Zabul	18	2.43	44	5	0.54	3	23	2.04	47
Nimroz	17	1.52	26	1	0.18		18	1.44	26
Uruzgan	29	2.27	66	2	0.27	1	31	2.16	67
Daikunde	10	1.81	18	5	0.25	1	15	1.27	19
TOTAL	1,156	2.65	3,067	1,076	0.30	321	2,232	1.52	3,388

Annex 4: Wheat Balance in 2011 by Province (mid-September estimates)

REGION/ Province	Settled population in 2011 ('000 no.)	Irrigated wheat area forecast 2012 harvest ('000 ha.)	Rainfed wheat area forecast 2012 harvest ('000 ha.)	PRODUCTION 2011 ('000 tons)	Requirement 2011				SHORTFALL 2011 ('000 tons)
					Human consumption ('000 tons)	Seed ('000 tons)	Post harvest losses ('000 tons)	TOTAL REQUIRED 2011 ('000 tons)	
NORTH	3,539.5	226	705	578	566.4	98.0	86.8	751.2	-173.2
Faryab	931.8	44	190	104	149.1	23.5	15.6	188.2	-84.2
Juzjan	503.1	52	110	102	80.5	18.2	15.3	114.0	-12.0
Sar-i-Pul	522.9	27	120	43	83.7	14.7	6.5	104.9	-61.9
Balkh	1,219.2	89	155	264	195.1	28.4	39.6	263.1	0.9
Samangan	362.5	14	130	65	58.0	13.2	9.8	81.0	-16.0
NORTH-EAST	3,591.5	224	370	670	574.7	69.9	100.5	745.1	-75.1
Bughlan	848.5	57	80	148	135.8	16.6	22.2	174.6	-26.6
Kunduz	935.6	91	34	214	149.7	18.7	32.1	200.5	13.5
Takhar	917.7	50	140	214	146.8	20.4	32.1	199.3	14.7
Badakhshan	889.7	26	116	94	142.4	14.2	14.1	170.7	-76.7
WEST	2,683.1	152	240	415	429.4	46.5	62.3	538.2	-123.2
Herat	1,744.7	95	135	291	279.2	27.8	43.7	350.7	-59.7
Farah	474.3	31	0	48	75.9	5.4	7.2	88.5	-40.5
Badghis	464.1	26	105	76	74.3	13.3	11.4	99.0	-23.0
WEST-CENTRAL	1,064.8	40	54	83	170.4	11.5	12.5	194.4	-111.4
Ghor	646.3	25	44	59	103.4	8.0	8.9	120.3	-61.3
Bamyan	418.5	15	10	24	67.0	3.5	3.6	74.1	-50.1
CENTRAL	5,921.7	128	19	461	947.4	24.0	69.3	1,040.7	-579.7
Kabul	3,818.7	23	1	77	611.0	4.1	11.6	626.7	-549.7
Parwan	620.9	30	5	120	99.3	5.7	18.0	123.0	-3.0
Panjsher	143.7	7	2	26	23.0	1.4	3.9	28.3	-2.3
Kapisa	413.0	15	1	59	66.1	2.7	8.9	77.7	-18.7
Logar	367.0	27	5	82	58.7	5.1	12.3	76.1	5.9
Wardak	558.4	26	5	97	89.3	5.0	14.6	108.9	-11.9
SOUTH	2,610.6	114	12	330	417.6	20.9	49.6	488.1	-158.1
Paktya	516.3	22	1	52	82.6	3.9	7.8	94.3	-42.3
Paktika	407.1	16	6	71	65.1	3.3	10.7	79.1	-8.1
Khost	537.8	16	1	62	86.0	2.9	9.3	98.2	-36.2
Ghazni	1,149.4	60	4	145	183.9	10.8	21.8	216.5	-71.5
EAST	2,387.1	115	11	346	382.0	21.0	52.0	455.0	-109.0
Nangarhar	1,409.6	79	7	245	225.5	14.4	36.8	276.7	-31.7
Laghman	417.2	15	1	44	66.8	2.7	6.6	76.1	-32.1
Kunarha	421.7	15	2	43	67.5	2.8	6.5	76.8	-33.8
Nooristan	138.6	6	1	14	22.2	1.1	2.1	25.4	-11.4
SOUTH-WEST	3,189.4	197	15	505	510.2	35.8	75.9	621.9	-116.9
Kandahar	1,127.0	40	1	108	180.3	7.1	16.2	203.6	-95.6
Helmand	864.6	85	0	238	138.3	14.9	35.7	188.9	49.1
Zabul	284.6	18	1	47	45.5	3.2	7.1	55.8	-8.8
Nimroz	153.9	17	1	26	24.6	3.1	3.9	31.6	-5.6
Uruzgan	328.0	27	2	67	52.5	4.9	10.1	67.5	-0.5
Daikunde	431.3	10	10	19	69.0	2.6	2.9	74.5	-55.5
Sub-total for settled	24,987.7	1,196	1,426	3388.0	3998.1	327.6	508.9	4834.6	-1446.6
Sub-total Nomads	1,726.6	0	0	0.0	276.3	0.0	0.0	276.3	-276.3
Sub-total returnees	450.0	0	0	0.0	72.0	0.0	0.0	72.0	-72.0
Total all consumers	27,164.3	1,196	1,426	3388.0	4346.4	327.6	508.9	5182.9	-1794.9

Sources:

Settled population in 2011: Central Statistics Organization (CSO)

Nomads in 2011: Projected by using CSO's annual population growth-rate of 2.03%

Needy returnees in 2011: Estimated on the basis of past UNHCR/CSO data

All other data: MAIL

Annex 5: Production and Requirements of cereals in 2011
(Mid-September 2011 Estimates)

Crop	Consumption units (‘000 no.)	Area to be planted (‘000 ha)	Seed-rate (kg/ha)	Required for human consumption (kg/person)	Required for				Total required (‘000 t)	Total production (‘000 t)	Surplus/Deficit (‘000 t)
					Food (‘000 t)	Seed (‘000 t)	Feed (‘000 t)	Loss (‘000 t)			
					(5)=(1)x(4)	(6)=(2)x(3)	(7)	(8)			
Irrigated wheat	27,164.3 (See Annex 3)	1,196	175		209	--	460		3,067		
Rainfed wheat		1,426	83		119	--	48		321		
All wheat		2,622	126	160	4,346	328	0	508	5,182	3,388	-1,794
Milled rice		210	105	17	462	22	0	32	516	450	-66
Maize		180	60	2	54	11	191	45	301	301	0
Barley		270	110	1	27	30	202	46	305	305	0
All cereals		3,282		180	4,889	391	393	631	6,304	4,444	-1,860

Extraction-rate from paddy to rice: 67%

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

