

Potential and seasonal demand for cereal grains and their related flour, weaning food and other processed products

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Summary

Apart from local/household consumption, the demand for sorghum and millet remains very low in Niger and Mali. In Niger, the annual demand for cereal grains by processors (including poultry feed) is estimated to about 3,407 tons of pearl millet and 212 tons of sorghum. In Mali, the demand is estimated to about 1,375 tons of millet and 1,325 tons of sorghum and in Nigeria the demand for sorghum alone is estimated to about 500,000 tons in the breweries and poultry industries. The demand for pearl millet was estimated to 50,000 tons used by small biscuits manufacturers and very small-scale women processors. The demand accounts for about 0.9%, 1.1% and 3.81% of the total sorghum and pearl millet production in Niger, Mali and Nigeria respectively. Whereas, this demand is essentially for human consumption in Mali, it is increasing for poultry in Niger. For Nigeria, there is a high potential in the malting and poultry industries. Cereal demand remains essentially seasonal following supply trends. In most Sahelian countries, the cereal grain supply is high between October and March and very low between April and October. The seasonality largely explains the irregular supply of cereal grains which is a major constraint limiting the entry of the private sector in the processing industry. The demand for sorghum is limited by the lack of awareness about low-tannin sorghum varieties, the lack of modern varieties suitable for malting and the insufficient organization in farmers' groups to ensure a consistent supply of good quality grains of the required varieties.

I. Introduction

One of the objectives of the HOPE Project is the unveiling and development of marketing strategies for millet and sorghum. This aims to improve grain distribution by smallholder farmers and to overcome constraints related to a quality and quantity grain supply likely to meet consumer demand for processed products. To this end, one of the activities of the Project is to estimate the potential demand for grains and processed products in its intervention zones. This report refers to Niger, Mali and Nigeria.

Methods and data

This study was conducted in Niger, Mali and Nigeria. In Niger, we collected data on 210 small processors, 13 medium processors and 6 poultry farmers in the urban area of Niamey, where most of the processing activities take place. In Mali, 4 medium processors were interviewed and in Nigeria, discussions were held with representatives of GUINNESS Nigeria, NIGERIA Breweries and 2 poultry farmers of USAID MARKETS, etc. Discussion guides were developed to this effect. Questions referred to enterprise profile, quantity of processed products by types (degues, couscous etc.), quality of raw material and product marketing strategies with a special emphasis on selling points.

II. Niger

The global demand for millet and sorghum grains is driven by the following key actors:

- Grain producing farmers
- Traders (intermediate, wholesalers and retailers)
- Cereal processors
- Livestock and poultry farmers
- Manufacturers of animal and poultry feed
- Consumers and bakers

These various actors are linked in the value-chains and dependent on one another. Processors and manufacturers of livestock and poultry feed occupy the central link of the chain. Upstream, there are the traders and the producers and downstream, the bakers, the consumers, the livestock (big and small ruminants) and poultry farmers.

The estimation of potential demand helped to evaluate the capacity of producers to meet the grain needs of actors downstream the value chains, i.e., globally, the processors and consumers of processed products. In Niger, these are essentially cereal processors (into flour, couscous, dèguè, fura, cakes, etc.) and poultry farmers. Hence, the estimated grain demand in this study refers to cereal processors and poultry farmers.

2.1. National potential

The country production potential in cereals appears as follows. For a total area of 1, 267, 000 km², representing 126, 700, 000 ha, the estimations are:

- 15 millions ha of cultivable land (12%)
- An average of 9 millions ha cultivated/year (8%);
- 6.5 millions ha in millet (6%) and 3.05 millions ha in sorghum (2.4%).

Millet cultivated areas represent the double of sorghum cultivated areas and 2/3 of the total cultivated areas.

2.2. Potential in the HOPE Project intervention zones

The area, yields and production in the HOPE Project intervention zones in Niger, in average over a period of 20 years (1988-2008), are the following:

Table 1. Area, production and yield of millet and sorghum in the HOPE Project intervention zones in Niger

Region	Millet			Sorghum		
	Area (ha)	Production (t)	Yields (kg/ha)	Area (ha)	Production (t)	Yields (t/ha)
Dosso	153000	52600	340	4950	1254	251
Maradi	192000	93500	488	160000	59400	373
Tahoua	138000	67400	476	72700	29700	404
Tillabéry	230000	116000	520	44200	17900	485
Total	195000	93700	479	75800	29100	408
<i>Source : FAO, COUNTRYSTAT Data 2011</i>						

Total average production in the HOPE Project intervention zones are 93,700 t of millet and 29,100 t of sorghum in the regions of Dosso, Tillabéry, Maradi and Tahoua.

2.3. Real demand for grains by processors

Some fifteen semi-traditional processors of millet and sorghum (into flour, couscous, dèguè and mouni) and about one thousand traditional processors of millet (into fura, cakes, etc.) have been identified in Niger. Semi-traditional processors operate as individual enterprises or associative groups for collective production. Some 13 processing units are found in the Communauté urbaine of Niamey, alone. These units belong to women and most of them conduct collective activities in women groups. Three other individual units are found in the country, 2 in Maradi and 1 in Zinder. Traditional processors work as individual enterprises and there are nearly 400 processors concentrated in Niamey.

Discussions with the semi-traditional processors in the cities of Niamey, Maradi and Zinder and some 214 traditional processors in the city of Niamey enabled an estimate of their real demand for grains.

Table 2. Real demand for millet grains by semi-traditional processors

Processors	Quantities of	Quantities of	Types of	Total	Total quantity
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	millet per year at individual level (in tons)	sorghum per year at individual level (in tons)	processing and number of people in the group	quantity of millet per year (in tons)	of sorghum per year (in tons)
1. Mme Rabe Rakia	1.8	-	Collective, 15 members	1.8	-
2. Mme Ursule Hountondji	2.4	2.4	Individual, 6 members	14.4	14.4
3. Mme Hamidou Fati	3.6	1.2	Collective, 2 groups of 5 members	7.2	2.4
4. Mme Ousseini Fati	2.4	1.2	Individual, 12 members	4.8	2.4
5. Mme Salao Safiatou	6	1.2	Individual	6	1.2
6. Mme Aissa Guirmey	21	1.2	Collective, 14 members	21	1.2
7. Mme Haoua Hamani	1.2	1.2	Collective, 14 members	1.2	1.2
8. Mme Amina Matchi	0.6	0.6	Individual, 20 members	1.8	1.8
9. Mme Liman Marietou	30	7.2	Individual enterprise	30	7.2
10. Mme Ibrahim mariétou	2.4	2.4	Collective, 60 members	2.4	2.4
11. Mme Allassane Rakya	6	3	Collective, 10 members	6	3
12. Mr Ayouba « Baba dégué »	30	-	Individual	30	-
13. Groupement des femmes transformatrices de Maradi	2	0.4	Collective	2	0.4
14. Groupement des femmes transformatrices de Zinder	2	0.4	Collective	2	0.4
Total :	111.4	22.4		130.8	38

Table 3. Real demand for millet grains by traditional processors

Cities	Estimated number of processors	Average quantity of millet grains used by a woman-processor per week (in kg)	Total quantity of millet per year (in tons)
Niamey	400	87,5	1820
Maradi	200	70	728
Zinder	200	70	728
Total	800	78,75	3276

The real demand by semi-traditional women-processors was estimated at 131 t of millet and 38 t of sorghum per year. The real demand by traditional women-processors was estimated at 3276 t of millet per year. The potential demand by women-processors may, therefore, be estimated globally at 3500 t of millet and 100 t of sorghum/year. Compared to the total production of millet and sorghum in the Project intervention zones (93700 tons of millet and 29100 t of

sorghum), this demand by processors is very low. However, it appeared clearly that traditional units processing millet into various types of products (Fura, Massa, Sala, Labdourou, Coco, etc.) represent the major share of demand by processors.

2.4. Real demand for grains by poultry farmers

In Niger, there are about thirty poultry farmers and about twenty of them are in the Communauté urbaine of Niamey. The discussions with 6 of them representing 1/5 of the total number of poultry farmers was used to extrapolate for the total real demand and estimate the potential demand despite the high differences in the individual capacities between poultry farmers (size of poultry farm).

Table 4. Real demand for millet and sorghum grains by poultry farmers

Poultry farmers	Other activities	Farm capacity (number of hens and chicks)	Present total (number of hens and chicks)	Quantities of sorghum grains used per year (in tons)	Quantities of maize grains used per year (in tons)	Supply sources
1. Djibo Oumarou : Cell. 00227 96976996 / 90741745	Feed distributor	7000	5000	144	0 (there is a 2 month exclusive feeding on sorghum)	Grains : Katakou market of Niamey Concentrates: supplier and importer from Nigeria
2. Badamassi Madougou : Cell. 00227 94127775	Supplier and importer of concentrates	3000	1035	18 (for hens and layers)	18 (for chicks)	Grains: Market of Niamey Concentrates: Nigeria
3. Elhadj Ganahé : Cell.00227 96888564	Trainer technician	2000	750	0	18	Markets of Niamey
4. Mr Ibrahim Hiokoye	Wholesaler - importer of frozen fish and turkey	~10000	5000	0	144	Niamey
5. Mr Saadou : Cell. 00227 96961683	Trainer technician	3000	2000	0	30	Niamey
6. Pr Abdou Hamani : Cell. 00227 96294321 / 94678368	Incubation and President of poultry farmers Association of Niger	~10000	1000	12	6	Niamey
Total				174 T	216 T	

With poultry farmers, the real demand is relatively high compared to cereal processors. The real demand of the 6 poultry farmers is estimated to 174 tons/year of sorghum and 216 t of maize. Therefore, the global demand could be estimated to 870 t/year of sorghum and 1000 t of maize.

In the practice of poultry farming in Niger, sorghum and maize can be substituted in some conditions that may affect the choice of one or the other commodity. The main reason for choosing maize, according to poultry farmers, is related to the better assimilation of maize by poultry. Hence, most of the feed used includes maize especially for the feeding chicks until they become layers.

The unit price of a bag of maize is cheaper compared to the bag of sorghum (17000 to 17500 CFA for the bag of maize against 19000 to 19500 CFA for the bag of sorghum on the markets of Niamey in July 2011). However, for these prices, the weight of the bag of maize is 75 to 85 kg, whereas the bag of sorghum weighs 95 to 100 kg. This weight widely compensates for the difference in prices and lead most poultry farmers to go for sorghum. This choice is done without hesitation if the type of sorghum is known to have low levels of tannin.

High levels of tannin in sorghum turn out to be toxic for poultry, in particular, chicks. That is the reason why most poultry farmers exclusively use maize in the feeding of chicks until they become of layers. Tannin content is variable with sorghum varieties. Poultry farmers are willing to contractualize for the supply of sorghum grains with low tannin content.

Poultry feed manufacturing units

In Niger, there are very few cereal processing units dealing in fattening and poultry farming. These units are state-owned or managed by NGOs (for instance the ADA NGO) or incorporated in poultry farming for individual use.

The livestock feeds plant of the Niger Ministry of livestock (Head of production: Mr Moustapha Salami) could have been a strong grain consumer. It has an annual production capacity of 5500 t of big and small ruminants feed for the purpose of fattening, poultry farming and fish production. The raw material used is maize grains, wheat, rice and millet bran and sorghum grains on request for feeding dairy cows only.

According to the head of production, sorghum grains are not incorporated in the composition of feeds because of their toxicity. As for the millet grains a much richer energetic food than the other cereals, it is not used because of its high cost and preference is given to maize, groundnut cakes, fish flour and blood (for poultry). The present production (in 2011) of the unit is only 1 t of feeds per month. This state unit is facing operational problems since 1980 and from 2003 to presently it is functioning as a cottage-type plant without electricity and using annually 3.6 tons of maize, 6 t of wheat, 2.4 t of groundnut and cotton cakes and 2.4 t of rice bran.

In summary, for Niger, the potential demand for millet can reach more than 3400 tons (exclusively by processors and mainly traditional processors) and 212 tons of sorghum (essentially by poultry farmers). The actions to undertake to increase the demand and link smallholder grain producers with grain users should not overlook the millet traditional processors and the poultry farmers using sorghum.

Table 5. Potential demand in Niger

Actors	Real demand for millet grains (in tons/year)	Real demand for sorghum grains (in tons/year)	Real demand for maize grains (in tons/year)	Potential demand for millet grains (in tons/year)	Potential demand for sorghum grains (in tons/year)
Semi-traditional women-processors	131	38	0	200	100
Traditional processors	3276	0	0	3300	0
Poultry farmers	0	870	1000	0	2000
Total	3407	908	1000	3500	2100

III. Mali

In Mali, the actors of the grain marketing network are:

- Grain producing farmers
- Traders (Intermediaries, wholesalers and retailers)
- Cereal processors
- Feed distributors
- Livestock breeders (horses, donkeys and ruminants)
- Poultry farmers
- Households (rural and urban)

The estimate of the potential demand for grains will concern essentially cereal processors. This sector does relatively well with a total of more than 100 processors identified in the FENATRA (Fédération Nationale des Transformateurs) directory. Their real demand for grains is satisfied by the national supply which is evaluated below.

3.1. Potential in the HOPE Project intervention zones in Mali

The country's potential to produce these cereals is as follows. For a total area of 1, 240, 190 km², representing 124, 019, 000 ha, it is estimated that there are:

- 43.7 millions ha of cultivable land (35%)
- 2.6 millions ha of land are cultivated in average per year (2%);

The area, yields and production in the HOPE Project intervention zones in Mali, in average over a period of 20 years (1988-2008), are as follow:

Table 6. Area, production and yield of millet and sorghum in the HOPE Project intervention zones in Mali

	Millet	Sorghum
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Region	Area (ha)	Production (t)	Yields (kg/ha)	Area (ha)	Production (t)	Yields (t/ha)
Kayes	36527	27514	753	163195	131758	807
Koulikoro	156641	120549	770	218469	194525	890
Sikasso	122813	117491	957	206279	185998	902
Ségou	414856	323410	780	131297	118939	906
Mopti	424619	253309	597	45350	23766	524
Total	1163890	845752	727	771020	660518	857

Source : FAO, COUNTRYSAT Data 2011

Average total production in the HOPE Project intervention zone is 845,752 t for millet and 660,518 t for sorghum in the regions of Kayes, Koulikoro, Sikasso, Ségou and Mopti.

3.2. Real demand for grains by processors

The real demand of 4 processors was estimated at 55 t of millet and 53 t of sorghum.

Table 7. Real demand for millet grains by four cereal processors

Processors	Quantities of millet per year (in tonnes)	Quantities of sorghum per year (in tonnes)
1. Mme Zouboye Fatimetou	18	2.4
2. Alassane Diakité	0.5	0.5
3. Mme Nantané Coulibaly	1	0.3
4. Mme Mariko Fadima	35	50 (mixed flours)
Total	54.5	53.2

For a total estimated at 100 operational processors, this **real demand will amount to 1375 tons of millet and 1325 tons of sorghum.**

In Mali, the annual potential demand is widely above 1375 t of millet and 1325 t of sorghum.

IV. Nigeria

In Nigeria, series of meetings were organized with breweries namely representatives of GUINNESS, NIGERIA Breweries, 2 major poultry farmers representatives of USAID MARKETS, a producer of millet, sorghum and maize flour, a major processor of FURA, a highly demanded millet-based product. Our discussions show that nearly 500,000 tons of sorghum and 50,000 tons of millet are used for malt production, animal feed and human consumption (processing of baby food and dry products such as biscuits). GUINNESS and NIGERIA Breweries use a lot of sorghum-based malt in the processing of their products.

A number of constraints limiting the demand of cereals were exposed. They relate to the limited access to a consistent supply of raw material (ex. sorghum), the insufficient organization of

producers that do not enable them to supply large quantities of quality grains and the lack of modern sorghum varieties with good malting properties.

To overcome these constraints, a USAID MARKETS funded project started organizing more than 20,000 farmers for the production of the sorghum varieties required by NIGERIA Breweries for their use. NIGERIA Breweries also funded a research program to look for sorghum varieties with a high potential for malt processing. Presently, 2 varieties are available (CSR01 and CSR02) and 3 hybrids are being tested in farmers' fields. Similarly, GUINNESS has a network of more than 10,000 farmers organized for the production of desirable sorghum varieties. Concerning poultry farmers, the major constraint is the availability of sorghum grains with low tannin content.

V. Conclusions and implications

In Niger, potential demand is estimated at 3500 t of millet and 2100 t of sorghum. Demand for millet is stronger within traditional processors, whereas demand for sorghum is widely observed within poultry farmers. Farmers fattening cattle and sheep may also be interested. Factors that could affect this demand are the following:

- A better organization of poultry farmers
- The availability of sorghum varieties with low levels of tannin (the example of hybrids is mentioned by poultry farmers)
- The availability of grains in sufficient quantities
- The introduction of contracts between poultry farmers and producers
- The price of sorghum compared to the price of maize
- The demand for eggs
- The professionalization of the processing sector
- The demand for processed products at the level of processors
- The access to credit for actors
- The promotion of the products
- The quality of product image

In Mali, potential demand is estimated at 2000 t of millet and 1500 t of sorghum. The research of additional data on processors and poultry farmers would improve the reliability of this estimate. It is, however, recognized that demand for millet and sorghum may be positively influenced by:

- Access to credit for actors
- Promotion of products
- Quality of product image
- Price of millet and sorghum compared to maize
- A better organization of actors for the supply of quality grains.

Annex 1. Actors of the millet and sorghum value chains in Mali

- Researchers
- Improved seed multipliers
- Grain producing farmers
- Traders (Intermediaries, wholesalers and retailers)
- Cereal processors
- Feed distributors
- Livestock breeders (horses, donkeys and ruminants)
- Poultry farmers
- Bakers
- Supermarkets, shops and food stores
- Households (rural and urban)

Annex 2. Data on cereal crops in Mali

Millet

Area (ha)

Region Campaign	Kayes	Koulikoro	Sikasso	Ségou	Mopti	Mali
1988/1989	19,791	129,231	151,218	503,505	343,648	1,195,898
1989/1990	26,498	101,925	165,017	436,651	232,850	1,083,091
1990/1991	13,778	153,098	117,937	395,930	394,132	1,074,875
1991/1992	4,913	54,104	96,383	448,402	391,533	995,335
1992/1993	15,081	101,321	101,663	406,041	369,723	993,829
1993/1994	20,897	166,313	134,843	499,759	458,223	1,280,035
1994/1995	36,140	195,319	115,777	514,139	473,604	1,334,979
1995/1996	29,423	143,703	99,204	485,767	447,038	1,205,135
1996/1997	38,471	111,172	59,833	320,792	337,407	867,675
1997/1998	35,216	109,120	63,849	265,976	341,778	815,939
1998/1999	39,534	128,537	57,971	286,902	346,983	859,927
1999/2000	76,443	151,004	124,737	205,508	303,832	861,524
2000/2001	18,633	162,788	88,898	325,303	425,577	1,021,199
2001/2002	12,704	70,689	77,257	285,164	545,937	991,751
2002/2003	59,318	218,385	129,890	533,046	497,738	1,438,377
2003/2004	63,108	257,344	156,268	533,159	778,278	1,788,157
2004/2005	53,266	196,892	102,552	387,315	358,906	1,098,931
2005/2006	47,457	290,930	132,475	460,743	488,048	1,419,653
2006/2007	76,757	185,440	235,789	490,434	447,731	1,436,152
2007/2008	43,116	205,507	244,708	512,582	509,422	1,515,335

Production (tons)

Region Campaign	Kayes	Koulikoro	Sikasso	Ségou	Mopti	Mali
1988/1989	11,333	163,015	155,827	323,434	315,609	999,901
1989/1990	21,113	116,175	147,344	386,093	132,159	841,793
1990/1991	4,620	76,964	134,831	322,102	183,882	722,399
1991/1992	2,947	68,735	104,635	456,017	238,586	870,920
1992/1993	15,377	47,783	62,787	242,383	198,026	566,356
1993/1994	12,608	94,849	73,148	316,210	195,514	692,329
1994/1995	17,672	115,979	89,175	396,341	243,013	862,180
1995/1996	22,594	106,531	77,456	256,799	223,089	686,469
1996/1997	33,755	89,631	59,129	288,075	232,393	702,983

1997/1998	28,434	96,347	69,275	228,890	206,115	629,061
1998/1999	31,601	121,323	62,082	276,917	297,738	789,661
1999/2000	69,801	107,589	128,070	194,533	283,654	783,647
2000/2001	13,897	109,581	94,124	221,294	312,016	750,912
2001/2002	5,743	43,059	66,285	237,766	366,286	719,139
2002/2003	40,242	146,692	119,549	275,264	182,577	764,324
2003/2004	44,885	162,470	144,953	402,331	450,155	1,204,794
2004/2005	57,219	161,239	141,534	368,484	239,517	967,993
2005/2006	37,610	250,494	139,837	449,971	245,162	1,123,074
2006/2007	48,690	148,112	257,503	399,047	247,762	1,101,114
2007/2008	30,136	184,409	222,279	426,240	272,922	1,135,986

Yield (kg/ha)

Region Campaign	Kayes	Koulikoro	Sikasso	Ségou	Mopti	Mali
1988/1989	573	1,261	1,030	642	918	836
1989/1990	797	1,140	893	884	568	777
1990/1991	335	503	1,143	814	467	672
1991/1992	600	1,270	1,086	1,017	609	875
1992/1993	1,020	472	618	597	536	570
1993/1994	603	570	542	633	427	541
1994/1995	489	594	770	771	513	646
1995/1996	768	741	781	529	499	570
1996/1997	877	806	988	898	689	810
1997/1998	807	883	1,085	861	603	771
1998/1999	799	944	1,071	965	858	918
1999/2000	913	712	1,027	947	934	910
2000/2001	746	673	1,059	680	733	735
2001/2002	452	609	858	834	671	725
2002/2003	678	672	920	516	367	531
2003/2004	711	631	928	755	578	674
2004/2005	1,074	819	1,380	951	667	881
2005/2006	793	861	1,056	977	502	791
2006/2007	634	799	1,092	814	553	767
2007/2008	699	897	908	832	536	750

Sorghum

Area (ha)

Region Campaign	Kayes	Koulikoro	Sikasso	Ségou	Mopti	Mali
1988/1989	103,135	191,767	198,999	131,912	32,407	679,114
1989/1990	140,990	170,460	239,666	97,019	25,352	774,470

1990/1991	167,650	226,337	181,490	163,386	51,696	790,559
1991/1992	101,814	173,368	166,449	215,772	32,233	689,636
1992/1993	199,327	207,067	197,169	194,551	90,470	888,584
1993/1994	187,794	278,837	267,488	209,475	62,649	1,006,243
1994/1995	258,827	246,867	281,133	160,230	21,716	968,773
1995/1996	208,619	214,335	260,338	137,270	23,181	843,743
1996/1997	117,694	172,857	137,861	86,734	20,138	535,284
1997/1998	124,234	180,129	150,631	87,274	20,652	562,920
1998/1999	159,192	211,015	149,086	66,861	23,652	609,806
1999/2000	154,541	239,534	183,354	94,380	53,545	725,354
2000/2001	123,830	271,439	133,882	93,099	52,191	674,441
2001/2002	143,786	243,795	150,358	94,229	50,726	682,894
2002/2003	222,860	284,712	219,313	139,802	39,256	905,943
2003/2004	197,991	203,662	175,890	134,934	100,031	812,508
2004/2005	107,716	177,581	127,462	102,752	35,050	550,561
2005/2006	169,154	215,929	179,273	119,141	46,044	729,541
2006/2007	191,053	236,913	281,097	140,971	49,741	899,775
2007/2008	183,683	222,784	444,643	156,149	76,268	1,090,244

Production (tons)

Region Campaign	Kayes	Koulikoro	Sikasso	Ségou	Mopti	Mali
1988/1989	131,562	172,014	150,514	157,591	25,358	672,429
1989/1990	115,910	225,123	204,019	105,391	11,648	730,836
1990/1991	42,691	131,398	185,802	149,084	16,081	525,056
1991/1992	98,477	228,639	162,043	252,624	19,977	761,760
1992/1993	155,097	120,470	140,688	112,833	51,047	580,135
1993/1994	148,804	236,646	165,322	185,854	28,087	764,713
1994/1995	189,377	203,948	191,016	141,294	11,567	737,202
1995/1996	164,930	199,150	209,873	122,199	14,020	710,172
1996/1997	104,002	164,004	175,190	83,648	11,514	538,358
1997/1998	110,277	169,090	179,240	86,533	10,748	555,888
1998/1999	136,153	215,520	145,288	77,679	19,485	594,125
1999/2000	144,759	200,135	200,004	94,775	39,759	679,432
2000/2001	99,606	223,832	125,320	90,338	25,492	564,588
2001/2002	94,977	179,344	118,050	79,173	34,953	506,497
2002/2003	139,527	203,809	190,723	84,519	17,069	635,647
2003/2004	200,611	176,214	168,086	130,010	41,758	716,679
2004/2005	140,268	270,245	127,787	102,469	18,691	659,460
2005/2006	146,256	181,964	165,378	107,082	18,867	619,547
2006/2007	123,334	193,598	313,294	105,647	21,164	757,037
2007/2008	148,533	195,357	402,332	110,030	38,032	900,791

Yield (kg/ha)

Region Campaign	Kayes	Koulikoro	Sikasso	Ségou	Mopti	Mali
1988/1989	1,276	897	756	1,195	782	990
1989/1990	822	1,321	851	1,086	459	944
1990/1991	255	581	1,024	912	311	664
1991/1992	967	1,319	974	1,171	620	1,105
1992/1993	778	582	714	580	564	653
1993/1994	792	849	618	887	448	760
1994/1995	732	826	679	882	533	761
1995/1996	791	929	806	890	605	842
1996/1997	884	949	1,271	964	572	1,006
1997/1998	888	939	1,190	992	520	988
1998/1999	855	1,021	975	1,162	824	974
1999/2000	937	836	1,091	1,004	743	937
2000/2001	804	825	936	970	488	837
2001/2002	661	736	785	840	689	742
2002/2003	626	716	870	605	435	702
2003/2004	1,013	865	956	964	417	882
2004/2005	1,302	1,522	1,003	997	533	1,198
2005/2006	865	843	922	899	410	849
2006/2007	646	817	1,115	749	425	841
2007/2008	809	877	905	705	499	826

Annex 3. Features of cereal processors in Niger

Processors	Location	Category			Crops	Processed products	Experience in processing
		Individual	Collective	Small enterprise			
1. Madame SALAOU Safiatou	Recasement	X			Millet Sorghum Rice Maize	Millet and sorghum dégué ; Rice couscous; Maize, sorghum and millet flour on request; Millet mouni; Bissap and ginger instant juice; Millet and sorghum cakes on request	6 years
2. Madame HAMIDOU Fati	Dar-Eslam		X		Millet Sorghum Rice Maize	Millet and sorghum dégué; Rice, millet, sorghum and maize; 3 cereal couscous (3c : maize-wheat-rice) ; Maize, sorghum and millet flour; Millet mouni ; Bissap and ginger instant juice; Millet and sorghum cakes and biscuits.	4 years
3. Madame LIMAN	Recasement			X	Millet Sorghum Rice Maize	Millet and sorghum dégué ; Rice couscous; 3 cereal couscous	12 years

					Groundnut Fonio	(3c : maize-wheat- rice); Fonio; Groundnut paste; Spices.	
4.Mme Hountondji Ursule , president of <i>Homothu Madon</i> group (meaning Common Agreement)	Route Filingué		X		Millet Sorghum Fonio Spices, Rice Maize Wheat Groundnut Shrimps	“3 senti” millet and sorghum <i>degué</i> ; Rice couscous; Fonio; Groundnut appetizers; groundnut paste; millet <i>mouni</i> , flour, maize <i>pop corn</i> , maize <i>Acassa</i> , shrimps fritters, millet, sorghum and wheat cakes and biscuits, spices.	20 years
5. Tounda Hinay group : Hadja Halima (vice president) Mme Sadissou Mariama : (treasurer) Mme Maïmouna Yacouba (member) Mme Fati Seini (member) Mme Issaka Sahara (member)	Tallagué	X	X		Millet Sorghum Rice Maize Wheat Cowpea	Millet <i>degué</i> , cowpea <i>Béroua</i> , couscous, millet and sorghum <i>Bassi</i> , 3c couscous, millet and sorghum <i>mouni</i> , millet <i>toukoudi</i>	2 years
6. Multi-métier group	Aéroport		X		Millet, Sorghum, Soybean, sorrel or roselle, Ginger,	<i>Moni</i> , millet and sorghum couscous, millet jam, millet and sorghum <i>degué</i> , biscuits, cakes, flour and instant juices	10 years

7. <i>Bani-bani</i> group: President: Mme Ali Salamatou Vice president : Aïssa Garba Mme Fati Hima : member	Gawaye (Rive droite)	X	X		Millet Sorghum Rice Maize Wheat Cowpea Sorrel, Ginger, Monkey bread Various fruits	Millet and sorghum <i>Moni</i> , millet, sorghum, maize and rice couscous, millet and sorghum <i>dégué</i> , biscuits, maize flour and instant juices	5 years
8. <i>Irkay Sabou</i> group: Fatouma Himou, Tantie Bouli	Gawaye (Rive droite)		X		Millet Sorghum Rice Maize	Millet <i>moni</i> , millet, sorghum and rice couscous, millet <i>dégué</i> , maize flour	3 years
9. <i>Halal</i> group: President : Haoua Hamani, Vice p. :Fati Seyni, Director : Amina Djafarou	Gawaye (Rive droite)		X		Millet Sorghum Rice Maize	Millet <i>moni</i> , millet, sorghum and rice couscous, millet and sorghum <i>dégué</i> and <i>bassi</i> , millet and sorghum biscuits and cakes, '3c' couscous, sorrel, monkey bread, ginger, tamarind, lemon, paw paw juices, groundnut paste	3 years
10. <i>Holaré</i> group: President: Amina Matchi, Secrétaire general: Zeïnabou Abdou	Kirkisoye (Rive droite)		X		Millet Sorghum Rice Maize	Millet and sorghum couscous and <i>dégué 3c</i> couscous, millet and sorghum based biscuits and cakes	3 years
11. Groupement alliance et équité (Local name)	Banifandou		X		Millet Sorghum Maize	Millet <i>moni</i> , sorghum couscous, millet and sorghum	4 years

: <i>Tounou</i> <i>Bonsé</i>) : President Mme Ibrahim Mariétou					Cowpea	<i>dégué</i> , sorghum and maize flour; cowpea Bérouta:	
12. <i>Haské</i> group in the process of installation	Banizoumbou II		X		Millet Sorghum	Under training	-1 year
13. <i>Gakassiney</i> group: President: Mme Alassane Oumaïna	Banizoumbou II		X		Millet Sorghum Maize	'3c' couscous, millet and sorghum <i>dégué</i> , millet and sorghum <i>bassi</i> .	3 years

Annex 4. Features of some processors identified in Mali

Processors	Location	Category of processors			Crops	Millet and sorghum processed products	Experience in processing
		Individual	Collective	Small enterprise			
1.SDF (Société Diakité et Fils) de Mr Alassane Diakité Cell : 76107661 ou 66854664 E-mail : diakalas2004@yahoo.fr	Quartier Sébénikoro (Bamako)			X	Millet, sorghum, fonio, maize, sorrel, tamarind, ginger, mangoes, shallot	Millet based: flour, dégué, moni or pellets and couscous Sorghum based: flour	(SDF) company created in 2006, but experience in processing since 1990 (20 years).
2.Mme Coulibaly Nanténé Cell : 76476173 ou 79373015 E-mail : coulibalynantene@yahoo.fr	Quartier Yirimadie (Bamako)	X		X	Millet, fonio, maize, pepper; groundnut; soybean.	Millet based: Monikourou, dégué, tiakiri or seasoned dégué, flour, maize-based infant flour.	Since 1985 (25 years) under traditional form and since 1999 (11 years) as a modern unit.
3.Mr Batigui Camara : Feed distributor and modern poultry farmer : Cell : 76171784 et 66717971 Tel : 20203629	Commune 6, quartier Magnabougou	X			Millet, sorghum, (in case of shortage of maize), smoked fish, wheat bran, salt, empty shells, groundnut and cotton, vitamin complexes.	Sorghum based: poultry feed: 1975 to 1980, 20% use of sorghum.	Poultry farmer since 1975 ; Feed distributor since 1992
4.UCODAL de Mme Mariko Fadima : Cell : 20794513 et 20245879 ou 66713687 et 20217467 E-mail : ucodal@hotmail.com	Zone industrielle Bamako	X		X	Fonio, groundnut, millet and cowpea. Sorghum more than 5 years ago but abandoned for lack of outlets since it is easily processed traditionally in households.	Millet based: testing of flour varieties. Other products abandoned (Monikourou, dégué, couscous, etc...) to small processors since less profitable and without important orders (at least 1 ton).	Individual processor since 1974, unit and then industrial enterprise since 1988.

Annex 5. Directory of cereal processors in Mali

No	SECTORS	REGION	ENTERPRISES	PROMOTERS
	Cereals	BAMAKO DISTRICT		
1			ADJA - Transformation Cerales	DIABATE Adja
2	Boukassoumbougou		AFYB	DOUCOURE Koromoutou Kante
3			AHCR(Association Humaine Calebasse Rase)	TRAORE Djénèba
4	Titibougou		BEAU CEREALES utpam.mali@yahoo.fr	SEMEGA Adam Diop 76 46 94 54
5			BENKADI Fouta	KEITA Danny DIARRA
6			BENKOLA	FOFANA Aissata CISSE
7			COGETRAM	DIAWARA Mamadou Lamine
8			DAMANDA	KEITA TATA
9			DANAYA Cereales	DEM Aissate Thiam
10			DEMBELE Assitan Entreprise	DEMBELE Assitan
11			DEMETON	DEMBELE Mariam
12			DIABATE Entreprise	DIABATE Ibrahim
13			DUNFEN – MINFEN	TRAORE Fatouma SACKO
14			DUNKAFA	SANGARE Ami DANTE
15			FOUTA	SOW Mariam Nènè
16			GAFFE	TOURE Awa DOUMBIA
17			GUIMBA-Ya- Production	DIALLO Aminata Manthiaba
18			ITRAC	NIANG Abdoulaye
19			JEKA BAARA	KONE Rokiatou CISSE
20			KEME YAYE DIAKITE Mme Soumare	SOUMARE Modia SANGARE
21			La Paysanne	N'DIAYE Mariam BAYOKO
22			LA SAHELIENNE	HAIDARA Amissétou
23			LAFIA	KEITA Oumou
24			Le Grenier	BA Adam
25			MADIA	COULIBALY Fatoumétou ZOUBOYE
26			Sahel Couscous	BABY Fatoumata BABY

27		SIGUIDA DAMOU (ASIQ)	WANE Nah Adam DIAKITE
28		SUMPOU	SAMASSA Goundo DIAMBOU
29		UCODAL	MARIKO FADIMA SIBY
30		Unite de transformation de condiments et Céréales	CAMARA Bintou HAIDARA
31		UTEPA	TANGARA Issa
32		WARABA Fonio	TRAORE Kadidia SIDIBE
33		Yiriwa Ton – Lassa	THIAM Aminata
	KAYES		
34		BALIMAYA	BOLLY Badiallo
35		BALIMAYA	KOUREYSSI Youma
36		BENKADI – Sero	DIALLO Adama SERO
37		Coordination des Femmes de Santé	DIALLO Mariam SISSOKO
38		Femmes Maures de Niore du Sahel	DICKO Fatoumata
39		Paroisse de Kayes	Soeur SAMAKE Marie Jeanne
	KOULIKORO		
40		BALIMAYA	Doumbia Sadio DIARRA
41		BENKADI	Coulibaly Mariam
42		CESIRI	TOGOLA Gnafla
43		DJIGUISEME	DIARRA Assitan TRAORE
44		FEMMES Artisanes	MAIGA Fadimata KONE
45		SEWA – Jamaa	MACALOU Awa DEMBELE
	SIKASSO		
46		SIGUIJA	DEMBELE Djénèba
	SEGOU		
47		DAKAN	GUINDO Aissata
48		Duegue Mogu-So	KEITA Fatoumata
49		FANTA Production	KEITA Fatoumata
50		FEMINA	DEMBELE Oumou
51		MISOLA – Segou	TOURE Kadidiatou TRAORE
52		NYETA	BALLO Astan DAOU
53		SEPROSEC	TANGARA Assitan COULIBALY
54		SIGUIDA Ton	DIABATE Coumba DIANCOUMBA
	MOPTI		
55		COUSCOUS et FONIO	TOURE Hadizatou TOURE

56		NYETA	TRAORE Assétou
	GAO		
57		ALBARKANTA	MAIGA Amsata
58		ALGAFIATE	SEYDOU Fadimata
59		ALKIAZA	SAMBA Sakiratou
60		ANNIYA	SACKO Abadi CISSE
61		Fabrique de Céréales	CISSE Salamata MAIGA
62		FAFAWA	MAIGA Lalla MAIGA
63		GAKASI NENEY	MAIGA Nanna
64		HANE BERE	MAIGA Maimouna Yeiya
65		LAFIA	AHAMADOU Aissata
66		NANEYE THIÈRE	TOURE Fado
67		NASSOUR	GUINDO Fatoumata Coulibaly
68		SOUNI	MAIGA Salamata
69		Subvenir aux besoins de la Famille	KANTE Bintou
70		Subvenir aux besoins de la Famille	TOURE Hamsa
71		SURVIE	MAIGA Weibouna
72		TENERE	TOURE Hamsatou MAIGA
	TOMBOUCTOU		
73		ABARAKA	TRAORE Fatouma SALOUM
74		ALAKI BANGOU	DIALLO Hawa
75		ANNAYA	CISSE Nana Derème HAIDARA
76		ANNIYA Goumo	SACKO Diahara
77		BABA – Bangou	HAIDARA Fadima MOULAYE
78		DAME	HANDEDEOU Minata
79		GOROBERE	ASCOFARE Fadimata BANNIA
80		GOUMO	CISSE Nana Almane Idjé
81		HANGA THIÈRE	CISSE Nana Almane Idjé
82		Les Merveilles	NIABER Hammou
83		NASSOUR	MAHALMOUDOU Kadidia
84		NATAGOUMO	ASCOFARE Nana Kadidia
85		TRANSFORMATION DE CÉREALES	TRAORE Nana Idjé
	KIDAL		
86		ALHAFI	MAIGA Minintou

87			ARATAM	ARATAM Tidjimar
88			FEMMES TESSALIT	SEIMA Azmitou
89			NANEY I	AZAHRA Lamine
90			NANEY II	TRAORE Fadi Daouda
91			TADJORE	DIAKITE Djeneba
92			TARTIL	BILAL Kille
93			TARTITE CHAMBOUGOU	WALLET Bamarka Kadeja
94			TRANSFORMATION DE CEREALES	THERA Mahsisse
	Fruits and vegetables	BAMAKO DISTRICT		
95			AOPPRK	DIARRA Moctar
96			CONFITURE AMINATA	DAOU Aminata
97			DOUCEUR SAHELIENNE	DJITEYE Kadidia
98			FRUITS § LEGUMES; VIANDES	KONE Ami DEMBELE
99			JIGUIYA	SINGARE Aminata
100			La Corbeille	COULIBALY Aida DIOP
101			La MARAICHERE	BOCOUM Amadou Abdallah
102			Le VERGER	MALLE Rakia KONE § MALLE Yaya
103			MAM COCKTAIL	DIALLO Oumou SISSOKO
104			SANOUE – DJI	KONE Moussa/KONE Oumar
105			TATA – ENTREPRISE	KEITA Oumou DJIGA
106			UNITE FOGHASS	TOURE Aissa
107			UTRAF - UNITE DE TRANSFORMATION DE FRUITS	SAKILIBA Mabo
108			UTRAFLE - UNITE DE TRANSFORMATION DE FRUITS ET LEGUMES	SALL Fatou SANOGO
109			YIRIWALI	DIALLO Fatoumata DIALLO
		KAYES		
110			BENKADY	DIALLO Koumbeli
111			CENTRE FEMININ KITA	SIDIBE Kadia
112			CMP – KAYES	TRAORE Marama
113			DAKAN	KONARE Kadidia TRAORE
114			DOUNKAFA	DANSOGO Djénèba
115			FEMMES MAURES de Nioro	DIAKITE Sali

116			KANOU	CISSE SIRA
117			SIGUIDIA	FOFANA Racky
		OTHERS		
118			Association Sabougnouma	Mme Faladjé Sema; Rue 868 Porte 54; tel : 20 52 00 00/ 66 71 27 49 e-mail:olga.kante@yahoo.fr
119			Regroupement pour la défense des Consommateurs (REDCOMA)	Mme Ouane Salaba; Kalaban- Oura; tel 76 23 87 28 / 20 72 04 22
120				Mme Diallo Jihara Touré; 66 85 18 54/76 18 83 69; Kalaban (Oura Sud Extension)

Annex 5 (continuation). Complementary list of cereal processors in Mali

Nom of enterprise	Location	Name and address of promoter	Number of employees	Processed product	Finished products
(Cogetram Diawara) = Commerce Général et Transformation du Maïs	Zone industrielle, Bamako, Commune II	Mamadou Lamine DIAWARA BP E: 472 N Rue 957 Porte 179, Tél: 228964/ 21 96 79/77 24 01, Fax: 23 19 34? Bamako	6 permanent employees and temporary staff according to orders	Maize Millet Sorghum	Flour Brokens Semolina
(ITRAC)= Industrie de Transformation des Céréales	Djicoroni Foula, Commune IV, Bamako	Abdoulaye NIANG, tél.: 23 68 50 E mail: a.niang@datatech.toolnet.org	5 permanent employees and 5 temporary workers	Maize, millet, sorghum	Flour, brokens, semolina, Déguès
(UCODAL) = Unité de Conditionnement des Denrées Alimentaires	Zone Industrielle Bamako, Commune II	Mme Mariko Fadima SIBY tél.: 21 74 67	Variable according to work load (orders)	Millet, sorghum, fonio, maize	Flour, brokens, semolina, couscous, Déguè
(MISOLA) =	Lafiabougou, Bamako, Commune IV	Abdoulaye SANHGO, Coordinateur MISOLA-MALI Tél: 29 33 79 74 16 78	13 Units in Mali, the number of employees is variable	Millet, sorghum, Maize	Infant flour
Coopérative multi fonctionnelle de LASSA	LASSA, Bamako, Commune IV	Mme Wandé SANGARE, Lassa Project coordinator, Mme COULIBALY, Kadiatou BAGAYOKO, Deputy coordinator Monsieur Sékou DEMBELE, in charge of agricultural products processing: tél.: 22 41 62 ou 75 39 46	-	Millet, maize, fonio and prospects for sorghum	Flour, pellets, brokens, pre-cooked fonio

La Sahélienne de l'alimentation	Banancabougou Bamako, Commune VI	Mme Amsétou HAIDARA Tel: 20 84 03, 23 59 00	-	Millet, sorghum, maize	Flour, brokens semolina, Monicrourou
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Other important processors

1. Diaby DOUCOURE at Magnabougou, tél.: 20 68 10
2. Moussa SANOGO at Banancabougou, tél.; 20 24 53
3. Chechna TRAORE at Lafiabougou,
4. Hamady HAIDARA at grand marché

<u>Name and surname</u>	<u>Name of enterprise/organization</u>	<u>Region</u>	<u>Address</u>	<u>Tel/Cel</u>	<u>email/website</u>
	Le LIDO S.E.	Bamako	BPE 799, Bamako	222 60 29	
Aïda Coulibaly Diop	La Corbeille - Entreprise de Transformation des Fruits & Céréales du Mali	Bamako	Quartier Boulkassoumbougou, rue 470, porte n°8, BPE 2427	224 24 62 649 81 63	
Aïssa Touré <i>(Head of Foghass enterprise + processor)</i>	Unité FOGHASS	Bamako	Quartier Faladié-Sema, BP:2553 BMK rue 877, porte 39	220 44 08 647 87 87	foghass@yahoo.fr
Alimata Traoré & Tangara Djemabe Diarra <i>President: Mme Alimata Traoré</i>	Benkadi & Djekabaron	Sikasso	/	603 07 67 (A. Traoré)	
Arouna Camara	Damac Production	Bamako	Djikoroni-para, en face de station Totale, place de la Guinée, BPE 2073	672 81 00 630 70 83 915 11 56	
Assetou Diallo Traoré	FOURMIS	Mopti-Sévaré	Quartier Sokoura	529 52 19	
Brahima Coulibaly	UPROCOHE	Bamako	au marché de Boulkassoumbougou n°10	695 86 39	
Dem Aïssata Thiam	Danaya Cereales	Bamako	Quartier Baco-Djikoroni ACI, près Lycée Succès, rue 798, en face Boutique de Foulaké	613 90 65 228 79 25	
Djakité Cissé Sira <i>President of 'Reseau des Associations des Transformatrices de Mopti'</i>	Coöperative Djigitougou	Mopti-Sévaré	/	614 37 49	
Foity Cissé Maïga <i>Agro-food processor</i>	Annya Bara <i>Kalaban-Coro Plateau</i> <i>(boutique:</i>	Bamako	En face de l'IER - OMATHO, BP 191, rue Mohammed V	222 56 73 228 05 74 643 52 36 222 55 41 (fax)	madememaïga@yahoo.fr
HaouaKampo Thiero	Coöperative Multifonctionnelle Ben-Kadi Taikiri S/c	Mopti	Quartier de Taikiri, BP 12	243 04 60 601 06 97	
Maïga Coulibaly Fatoumata	Nieleni	Ségou	chez le 'Tapisserie'	/	
Oumou Dembele (sister of Hamidou)	Individuel	Ségou	/	612 79 24	
Oumou Diallo Sissoko <i>(Promoter)</i>	MamCocktail	Bamako	Quartier Lafiabougou, en face technolab, BPE 2060	223 21 36 (fax) 229 21 36 (tel) 673 05 50	mam_cocktail@yahoo.fr

Oumou Keita Djiga	Tata Entreprise	Bamako	Quartier Sogoniko Commercial, rue 141, porte 175	220 95 02 674 68 84	tagingou@yahoo.fr www.rfi.com/tata_gingembre
Sakalida Mabo <i>(General)</i>	<i>(Director)</i> UTRAF (Unité Transformation des Fruits)	Bamako	Sotuba, Commune I BMK, BP262 CRRA	642 26 02	mabosak2005@yahoo.fr
Sama Keita	UTT (Unité Transformation Tamarin)	Bamako	Quartier Moribougou, en face de la route de Koulikoro	644 24 44 683 24 73	
Sènè Kunafoni Bulon	Coordination des Femmes Transformatrices de Sikasso (CFIS)	Sikasso	/	262 25 00 632 82 27	
Tata Keita	Coöperative Damanda	Bamako	Quartier Niarela, près de la grande porte cimetière, goudron vers Railda, Famille Laminé Niaré, rue 436, porte 81	607 35 09	
Thiero Djeneba Cissé <i>President 'Union of processors'</i>	Individuel	Ségou	/	684 94 00	
Timbiné Assa Touré	SIGUIBANA	Mopti-Sévaré	Quartier Bamako Coura	Mme Sy Abssatou Maïga: 902 85 01	
Toulaye Gariko	Djiquisèmè	Mopti-Sévaré		679 38 71	

Annex 6. Directory of major millet/sorghum traders in Mali

Surname and name	Sites, Category	Contacts
Soumaïla Bagayogo	Bamako, wholesaler	20 21 42 67 / 7671 24 96
Aminata Diop Traoré	Bamako, wholesaler	7672 02 03 / 7633 18 24
Mama KONE	Bamako, wholesaler	678 27 95 / 7644 41 55
Moulaye SOUNKORO	Mopti, semi-wholesaler	643 04 19
Tidiani THIENTA	Mopti, semi-wholesaler	643 06 28
Abdoul TALLA	Ségou, wholesaler	232 05 25
Mamoutou COULIBALY Bako	Ségou, wholesaler	232 09 81 / 671 68 39
Salah SOUMOUNOU	Ségou, semi-wholesaler	232 12 51 / 672 46 96
Thierno Mady DIALLO	Ségou, semi-wholesaler	232 03 34
Amadou Sékou DRAME	Ségou, wholesaler	232 03 86 / 678 01 61
Ass. Acheteurs Produits Locaux (APLS)	Sikasso, wholesaler	262 05 08
Société Nama & Fils/ Adama DISSA	Sikasso, wholesaler	262 15 86
Bakary Traoré	Sikasso, wholesaler	671 08 26
Siaka Diallo	Sikasso, wholesaler	672 81 91
Dramane DAO Dani	San, wholesaler	237 21 64
Sidiki Badjan DOUMBIA	Koutiala, wholesaler	264 08 48
Sinaly DIARRA	Koutiala, wholesaler	264 05 64
Alou DIARRA	Koutiala, wholesaler	240 05 65
Soumaïla COULIBALY Bénogo	Koutiala, wholesaler	264 01 17
Alassane DIARRA	Koutiala, wholesaler	264 01 32
Bakary Magassa	Kéniéba, wholesaler	251 20 88
Moussa Diagouraga	Kayes, wholesaler	252 13 63
Chaca Traoré	Kita, wholesaler	257 32 35
Madou Traoré	Kita, wholesaler	257 30 38
NB : The women associations and cooperatives of the Kayes region, partners of Afrique Verte (Karoual of Kaïdi, Kanou of Plateau, Sabougnouma of Khasso, Bengadi of Kamakélé, Djigiya of Lafiabougou, Siguidia of Khasso, Labakognouma of Banaya, Sébè of Yélemané, supunu Kafo, etc.) are all millet/sorghum semi-wholesalers or wholesalers.		