

AAGWa Crop Production Forecasts Brief Series

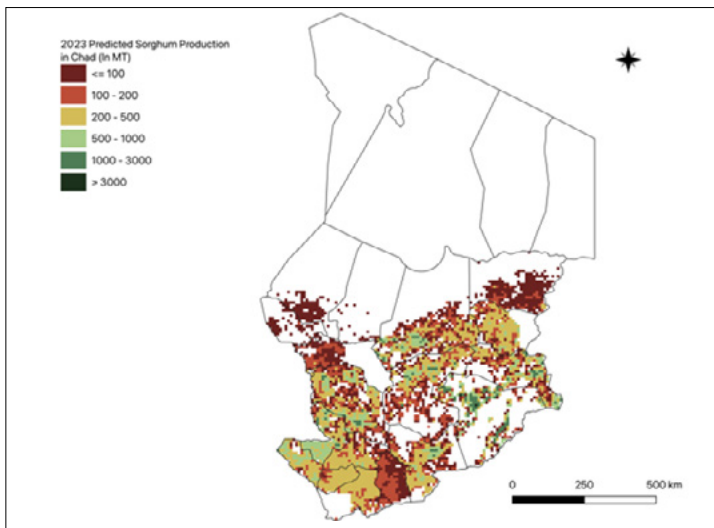
Chad – Sorghum

Aïssatou Ndoye*, Mansour Dia**, and Khadim Dia***

No. 55, September 2023

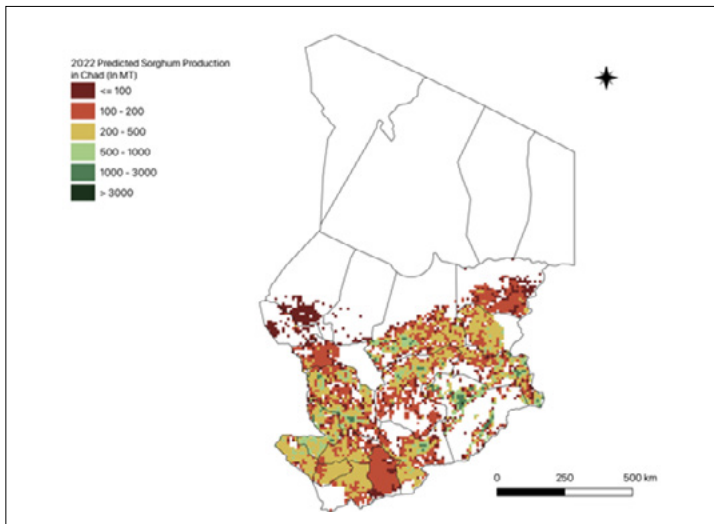
The crop production forecast brief series by AKADEMIYA2063's Africa Agriculture Watch (AAGWa) aims to provide more accurate and timely data on harvest and yields for nine major crops across nearly 50 African countries. The timeliness, wide availability, and easy access to this type of data will allow stakeholders across the value chain to better plan and execute policy and business actions more efficiently. The data published in the briefs are generated through the Africa Crop Production (AfCP) model, an Artificial Intelligence (AI-based) model applied to remotely sensed geo-biophysical data to produce estimates at pixel as well as administrative levels as early as the beginning of every growing season. In Brief 55, we provide forecasts on sorghum production in Chad.

Figure 1. Chad 2023 sorghum production forecast.



Data source: Africa Agriculture Watch (www.aagwa.org).

Figure 2. Chad 2022 sorghum production forecast.



Data Source: Africa Agriculture Watch (www.aagwa.org).

In 2023, sorghum production in Chad is projected to reach 1,075,567 metrics tons (MT), indicating a 1% increase over 2022 production levels. The southern part of the country is expected to produce the most significant volumes of sorghum, particularly in Sila, Barh Azoum (Salamat), Baguirmi (Chari-Baguirmi), Batha Oues (Batha), and Mayo-Boneye (Mayo-Kebbi Est) with production levels estimated at 82,018 MT, 80,687 MT, 72,333 MT, 67,424 MT, and 51,444 MT, respectively. On the contrary, lower production values are observed in the Western and Eastern districts such as Wayi (Lac), Nokou (Kanem), Monts de Lam (Logone Oriental), Assoungha (Ouaddaï), and Barh El Gazel, with production of, respectively, 229 MT, 274 MT, 337 MT, 445 MT, and 799 MT.

Moreover, the most significant sorghum production increases in 2023 compared to last year are expected to occur in districts such as Aboudeïa (Salamat), Barh Azoum, Sila, Pendé (Logone Oriental), and Nya Pendé (Logone Oriental) with differences of respectively 8,558 MT, 8,189 MT, 4,138 MT, 3,589 MT, and 3,366 MT. They correspond to changes of respectively, 22%, 11%, 5%, 19%, and 25%.

*Associate Scientist, Department of Data Management, Digital Products, and Technology, AKADEMIYA2063

** Associate Scientist, Department of Data Management, Digital Products, and Technology, AKADEMIYA2063

***Senior Associate Scientist, Department of Data Management, Digital Products, and Technology, AKADEMIYA2063

Annex – 2023 Chad Sorghum Production Forecast at District level

Regions	Departments	2023 Production (MT)	2022 Production (MT)	Difference (MT)	Change (%)
Barh el Ghazel	Barh El Gazel	799	2243	-1444	-64%
Batha	Batha Est	37837	43715	-5878	-13%
Batha	Batha Oues	67424	66159	1265	2%
Batha	Fitri	6493	8957	-2464	-28%
Chari-Baguirmi	Baguirmi	72333	71865	469	1%
Chari-Baguirmi	Loug Chari	48604	45680	2923	6%
Chari-Baguirmi	N'Djamena	10138	10565	-427	-4%
Guéra	Barh Signaka	28456	26576	1880	7%
Guéra	Bitkine	32254	29846	2408	8%
Guéra	Guéra	24551	28316	-3765	-13%
Guéra	Mangalmé	23280	22758	522	2%
Hadjer-Lamis	Dababa	1529	1619	-90	-6%
Hadjer-Lamis	Dagana	6956	11351	-4396	-39%
Hadjer-Lamis	Haraze Al Biar	6347	8683	-2336	-27%
Kanem	Kanem	1085	5925	-4839	-82%
Kanem	Nokou	274	2884	-2610	-90%
Lac	Mamdi	1014	4940	-3926	-79%
Lac	Wayi	229	993	-764	-77%
Logone Occidental	Dodjé	7333	6597	736	11%
Logone Occidental	Lac Wey	14592	12074	2518	21%
Logone Occidental	Ngourkosso	5308	4450	858	19%
Logone Oriental	Lanya	9995	8298	1697	20%
Logone Oriental	Monts de Lam	337	287	50	17%
Logone Oriental	Nya Pendé	16627	13261	3366	25%
Logone Oriental	Pendé	22005	18416	3589	19%
Mandoul	Barh Sara	8213	9995	-1781	-18%
Mandoul	Mandoul Occidental	2874	3230	-356	-11%
Mandoul	Mandoul Oriental	8448	10451	-2003	-19%
Mayo-Kebbi Est	Kabbia	19842	17343	2499	14%
Mayo-Kebbi Est	Mayo-Boneye	51444	48518	2926	6%
Mayo-Kebbi Est	Mont Illi	17577	15656	1920	12%

Regions	Departments	2023 Production (MT)	2022 Production (MT)	Difference (MT)	Change (%)
Mayo-Kebbi Ouest	Lac Léré	18791	17757	1034	6%
Mayo-Kebbi Ouest	Mayo-Dallah	33201	29945	3256	11%
Moyen-Chari	Barh Köh	26874	26255	620	2%
Moyen-Chari	Grande Sido	10952	9962	991	10%
Moyen-Chari	Lac Iro	36793	35666	1127	3%
Ouaddaï	Assoungaha	445	369	76	21%
Ouaddaï	Djourf Al Ahmar	14526	13484	1042	8%
Ouaddaï	Ouara	46368	44883	1486	3%
Salamat	Aboudeïa	47124	38565	8558	22%
Salamat	Barh Azoum	80687	72498	8189	11%
Salamat	Haraze Mangue-igne	46223	42934	3289	8%
Sila	Djourf Al Ahmar	18044	18075	-31	0%
Sila	Sila	82018	77880	4138	5%
Tandjilé	Béré	3736	3215	521	16%
Tandjilé	Tandjilé Est	27808	25923	1885	7%
Tandjilé	Tandjilé Ouest	10460	9493	967	10%
Ville de N'Djamena	N'Djamena	937	971	-34	-4%
Wadi Fira	Biltine	7435	13314	-5879	-44%
Wadi Fira	Dar Tama	7356	13033	-5677	-44%
Wadi Fira	Kobé	1590	6777	-5187	-77%
Total		1075567	1062652	12915	1%

MT (Metric tons): 1 MT is equivalent to 1,000 kilograms.

Change: refers to the relative difference and is calculated as (2023 prod – 2022 prod) divided by 2022 prod.

Suggested Citation: Ndoye, A., M. Dia, and K. Dia. 2023. AAgWa Crop Production Forecasts Brief Series: Chad – Sorghum. AAgWa Crop Production Forecasts Brief Series, No. 55. Kigali: AKADEMIYA2063. <https://doi.org/10.54067/acpf.55>