

AAGWa Crop Production Forecasts Brief Series

Burkina Faso – Sorghum

Aissatou Ndoye*, Mansour Dia**, and Khadim Dia***

No. 71, September 2023

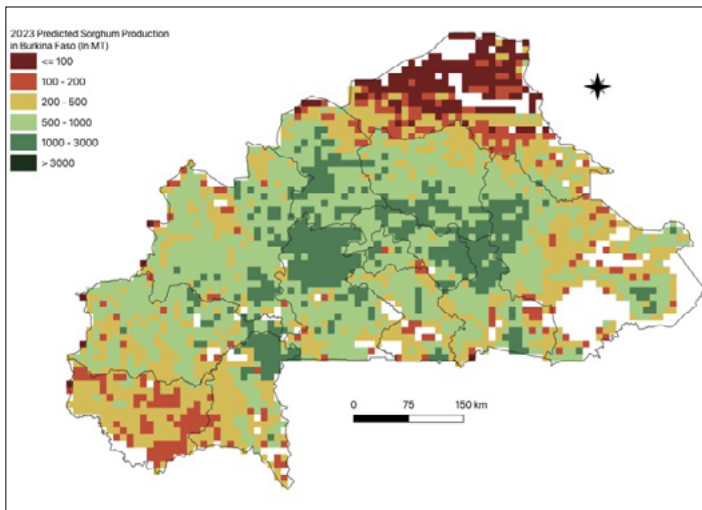
The crop production forecast brief series by AKADEMIYA2063's Africa Agriculture Watch (AAGWa) aims to provide more accurate and timely data on harvest and yields for nine major crops across nearly 50 African countries. The timeliness, wide availability, and easy access to this type of data will allow 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 71, we provide forecasts on sorghum production in Burkina Faso.

In 2023, sorghum production in Burkina Faso is projected to reach 1,812,092 metric tons (MT), which corresponds to a 0,5% increase over 2022 production levels. The most significant sorghum production levels are expected in provinces such as Gnagna (Est), Sanmatenga (Centre-Nord), Houet (Haut-Bassins), Yatenga (Nord), Sanguié (Centre-Ouest), and Boulkiemdé (Centre-Ouest), with production levels estimated at 91,050 MT, 87,784 MT, 80,643 MT, 69,484 MT, 69,381 MT, and 67,743 MT, respectively. In comparison, lower production values are observed in provinces such as Oudalan (Sahel), Léraba (Cascades), Nounbiel (Sud-Ouest), Koupéhi (Est), and Loroum (Nord), with production levels of, respectively, 5,626 MT, 9,583 MT, 9,814 MT, 11,883 MT, and 12,802 MT.

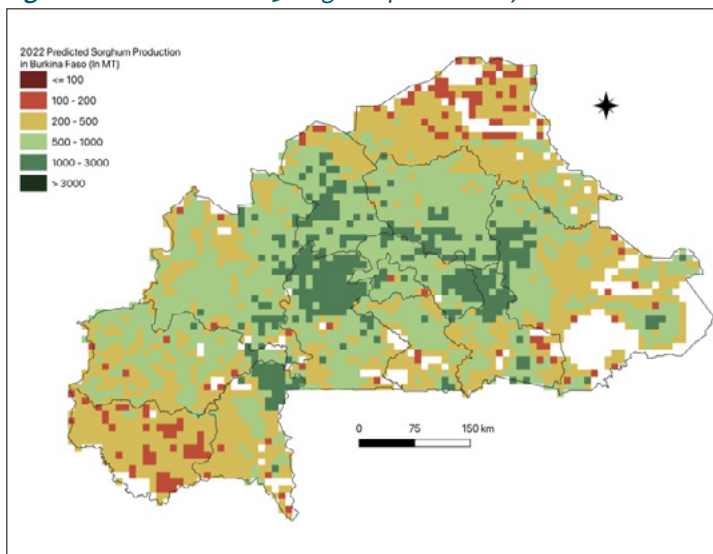
Compared to 2022, the most significant sorghum production increases in 2023 are expected to occur in Houet, Kénédougou (Haut-Bassins), Tuy (Haut-Bassins), Mouhoun (Boucle du Mouhoun), Sanguié, and Boulkiemdé, with differences reaching, 8,422 MT, 5,140 MT, 4,634 MT, 4,620 MT, 4,483 MT, and 4,093 MT. These correspond to changes of, respectively, 12%, 10%, 12%, 9%, 7% and 6%.

Figure 1. Burkina Faso 2023 sorghum production forecast.



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

Figure 2. Burkina Faso 2022 sorghum production forecast.



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

*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 Burkina Faso Sorghum Production Forecast at District level

Regions	Provinces	2023 Production (MT)	2022 Production (MT)	Difference (MT)	Change (%)
Boucle du Mouhoun	Balé	39677	36208	3469	10%
Boucle du Mouhoun	Banwa	46745	43315	3430	8%
Boucle du Mouhoun	Kossi	45070	43349	1721	4%
Boucle du Mouhoun	Mouhoun	57825	53204	4620	9%
Boucle du Mouhoun	Nayala	38137	36418	1719	5%
Boucle du Mouhoun	Sourou	47711	47946	-235	0%
Cascades	Comoé	43280	43363	-83	0%
Cascades	Léraba	9583	9550	32	0%
Centre	Kadiogo	26517	25246	1272	5%
Centre-Est	Boulgou	39133	37888	1245	3%
Centre-Est	Koulpélogo	33941	32305	1636	5%
Centre-Est	Kouritenga	38483	35959	2524	7%
Centre-Nord	Bam	35196	36705	-1509	-4%
Centre-Nord	Namentenga	53620	56794	-3174	-6%
Centre-Nord	Sanmatenga	87784	91537	-3754	-4%
Centre-Ouest	Boulkiemdé	67743	63650	4093	6%
Centre-Ouest	Sanguié	69381	64898	4483	7%
Centre-Ouest	Sissili	42814	40068	2746	7%
Centre-Ouest	Ziro	43324	39385	3939	10%
Centre-Sud	Bazèga	27101	25423	1678	7%
Centre-Sud	Nahouri	17127	16225	901	6%
Centre-Sud	Zoundwéogo	26664	24831	1833	7%
Est	Gnagna	91050	90615	435	0%
Est	Gourma	57699	56570	1130	2%
Est	Komandjoari	25115	26116	-1002	-4%
Est	Kompienga	11883	12390	-508	-4%
Est	Tapoa	63718	61417	2301	4%
Haut-Bassins	Houet	80643	72221	8422	12%
Haut-Bassins	KénéDougou	57560	52420	5140	10%
Haut-Bassins	Tuy	44912	40278	4634	12%
Nord	Loroum	12802	15484	-2682	-17%
Nord	Passoré	47345	45310	2034	4%
Nord	Yatenga	69484	68939	544	1%
Nord	Zondoma	26968	25811	1157	4%
Plateau-Central	Ganzourgou	54032	50802	3230	6%
Plateau-Central	Kourwéogo	17619	16837	782	5%
Plateau-Central	Oubritenga	32154	30399	1755	6%
Sahel	Oudalan	5626	22190	-16563	-75%
Sahel	Séno	14010	25949	-11939	-46%
Sahel	Soum	20377	44627	-24250	-54%
Sahel	Yagha	30337	34864	-4527	-13%



Sud-Ouest	Bougouriba	25699	23311	2387	10%
Sud-Ouest	Ioba	43066	39667	3399	9%
Sud-Ouest	Noumbiel	9814	10312	-498	-5%
Sud-Ouest	Poni	33325	32347	977	3%
Total		1812092	1803147	8945	0,5

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: Burkina Faso – Sorghum. AAgWa Crop Production Forecasts Brief Series, No. 71. Kigali: AKADEMIYA2063. <https://doi.org/10.54067/acpf.71>