Africa Agriculture Watch
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AAgWa Crop Production Forecasts Brief Series

Chad – Maize

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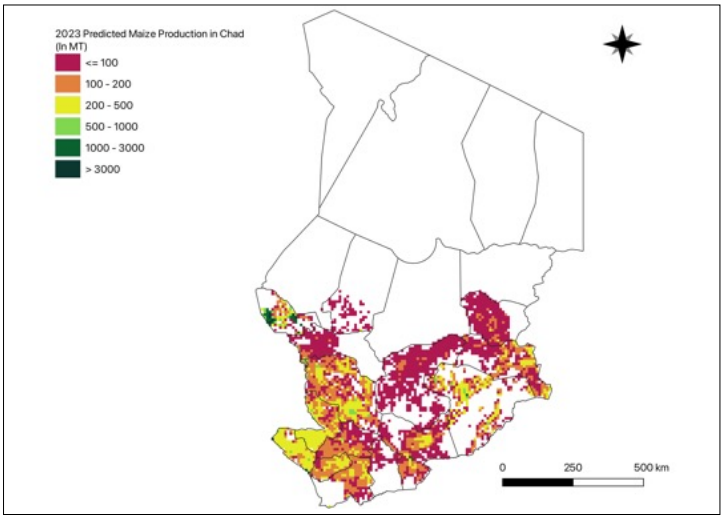
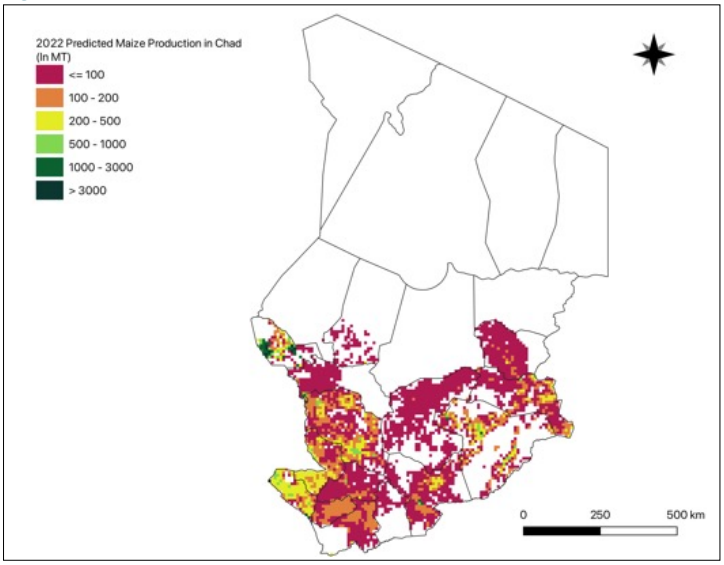
The crop production forecast brief series by AKADEMIYA2063's Africa Agriculture Watch (AAgWa) aims to provide more accurate and timely data on harvest and yields for nine major crops across nearly 50 African countries. The timeliness, wide availability, and easy access to this type of data will allow 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 40, we provide forecasts on maize production in Chad.

Figure 1. *Chad 2023 maize production forecast.*



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

Figure 1. *Chad 2022 maize production forecast.*



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

In 2023, maize production in Chad is projected to reach 490,925 metric tons (MT), which corresponds to a 9% increase over 2022 production levels. The departments of Mamdi (Lac), Baguirmi (Chari-Baguirmi), Loug Chari (Chari-Baguirmi), Mayo-Dallah (Mayo-Kebbi Ouest), and Sila are expected to produce the most significant volumes of maize, with production levels estimated at 76,125 MT, 42,240 MT, 31,013 MT, 30,053 MT, and 29, 198 MT, respectively. In comparison, lower production values are observed in areas such as Kanem, Batha Oues (Batha), Dababa (Hadjer-Lamis), Biltine (Wadi Fira), and Assoungha (Ouaddaï) with production of, respectively, 10 MT, 21 MT, 95 MT, 199 MT, and 206 MT.

Compared to 2022, the most significant maize production increases in 2023 are expected to occur in Baguirmi, Mayo-Boneye (Mayo-Kebbi Est), Loug Chari, Pendé (Logone Oriental), and Mayo-Dallah with differences of 7,966 MT, 5,338 MT, 5,071 MT, 3,677 MT, and 3,599 MT, respectively. These correspond to changes of, respectively, 23%, 27%, 20%, 55%, and 14%.

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Annex – 2023 Chad Maize Production Forecast at District level

Regions	Departments	2023 Production (MT)	2022 Production (MT)	Difference (MT)	Change (%)
Barh el Ghazel	Barh El Gazel	1031	4160	-3129	-75%
Batha	Batha Est	443	694	-251	-36%
Batha	Batha Oues	21	42	-21	-49%
Chari-Baguirmi	Baguirmi	42240	34274	7966	23%
Chari-Baguirmi	Loug Chari	31013	25942	5071	20%
Chari-Baguirmi	N'Djamena	7393	6305	1088	17%
Guéra	Barh Signaka	3860	4567	-707	-15%
Guéra	Bitkine	4872	5155	-283	-5%
Guéra	Guéra	5782	8728	-2946	-34%
Guéra	Mangalmé	4037	5787	-1750	-30%
Hadjer-Lamis	Dababa	95	114	-19	-17%
Hadjer-Lamis	Dagana	4062	5323	-1261	-24%
Hadjer-Lamis	Haraze Al Biar	4732	4965	-233	-5%
Kanem	Kanem	10	95	-85	-89%
Lac	Mamdi	76125	84508	-8384	-10%
Lac	Wayi	965	1038	-74	-7%
Logone Occiden-tal	Dodjé	4769	3071	1698	55%
Logone Occiden-tal	Lac Wey	9466	5874	3592	61%
Logone Occiden-tal	Ngourkosso	3472	2173	1298	60%
Logone Oriental	Lanya	4725	3015	1711	57%
Logone Oriental	Monts de Lam	399	268	130	49%
Logone Oriental	Nya Pendé	7678	4948	2730	55%
Logone Oriental	Pendé	10345	6668	3677	55%
Mandoul	Mandoul Occidental	294	355	-61	-17%
Mandoul	Mandoul Oriental	2939	2787	152	5%
Mayo-Kebbi Est	Kabbia	10735	8278	2456	30%
Mayo-Kebbi Est	Mayo-Boneye	25261	19924	5338	27%
Mayo-Kebbi Est	Mont Illi	9640	7519	2121	28%
Mayo-Kebbi Ouest	Lac Léré	21741	22321	-580	-3%
Mayo-Kebbi Ouest	Mayo-Dallah	30053	26454	3599	14%
Moyen-Chari	Barh Köh	13936	12857	1079	8%
Moyen-Chari	Grande Sido	4050	3079	971	32%
Moyen-Chari	Lac Iro	16251	13761	2490	18%
Ouaddaï	Assoungha	206	151	55	36%
Ouaddaï	Djourf Al Ahmar	3464	3498	-34	-1%
Ouaddaï	Ouara	10746	12730	-1984	-16%
Salamat	Aboudeïa	15335	12589	2746	22%
Salamat	Barh Azoum	25157	22125	3032	14%
Salamat	Haraze Mangueigne	16440	14399	2041	14%
Sila	Djourf Al Ahmar	5587	6494	-908	-14%
Sila	Sila	29198	25718	3480	14%

Tandjilé	Béré	1758	1191	566	48%
Tandjilé	Tandjilé Est	12963	10213	2750	27%
Tandjilé	Tandjilé Ouest	5099	3606	1493	41%
Ville de N'Djamena	N'Djamena	2341	2443	-102	-4%
Wadi Fira	Biltine	199	359	-160	-45%
Total		490925	450565	40360	9%

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.*

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