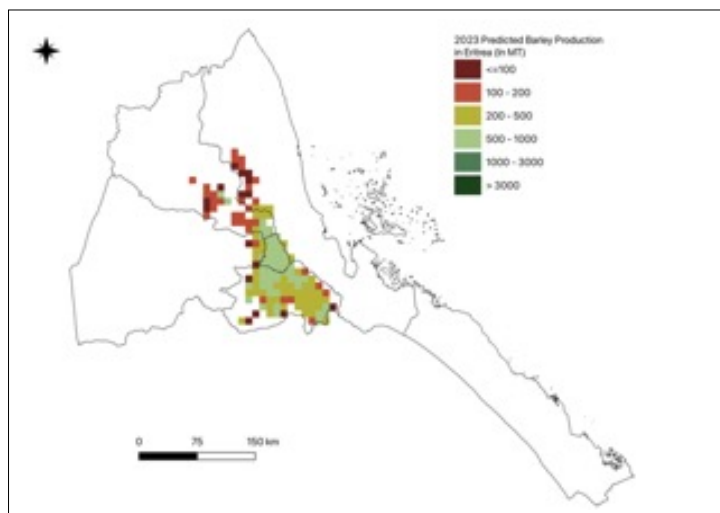# AAgWa Crop Production
Forecasts Brief Series Eritrea – Barley

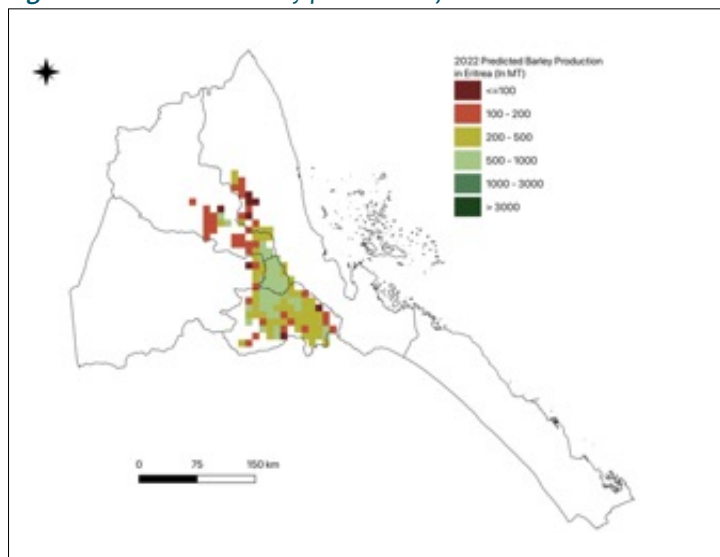Aissatou Ndoye*, Mansour Dia**, and Khadim Dia***

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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 86, we provide forecasts on Barley production in Eritrea.

In 2023, Barley production in Eritrea is projected to reach 55,825 metric tons (MT), indicating a 6% increase over 2022 production levels. The most significant production levels are expected in areas such as Dibarwa (Debub), Serejeka (Maekel), Mendefera (Debub), and Dekemehare (Debub), with production levels estimated at 5,341 MT, 4,731 MT, 4,623 MT, and 4,389 MT, respectively. In comparison, lower production volumes are observed in Mansura (Gash Barka), Keren (Anseba), Asmat (Anseba), May Mine (Debub), and Hagaz (Anseba) with production levels reaching only, 55 MT, 225 MT, 353 MT, 357 MT, and 458 MT, respectively.

Moreover, the most significant Barley production increases in 2023 are expected to occur in Senafe (Debub), Dekemehare, Dibarwa, Mendefera, and Serejeka with differences of respectively, 839 MT, 585 MT, 512 MT, 477 MT, and 439 MT. These correspond to changes of, respectively, 36%, 15%, 11%, 11%, and 10%.

Figure 1. *Eritrea 2023 Barley production forecast.*

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

Figure 2. *Eritrea 2022 Barley production forecast.*

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

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Annex – 2023 Eritrea Barley Production Forecast at District level

Regions	Sub-Regions	2023 Production (MT)	2022 Production (MT)	Difference (MT)	Change (%)
Anseba	Adi Teklezan	2437	2204	232	11%
Anseba	Asmat	353	476	-123	-26%
Anseba	Elabered	1698	1875	-177	-9%
Anseba	Gheleb	975	1135	-160	-14%
Anseba	Hagaz	458	618	-160	-26%
Anseba	Halhal	1884	2193	-309	-14%
Anseba	Keren	225	299	-74	-25%
Debub	Adi Keyih	2524	2273	251	11%
Debub	Adi Kwala	2529	2281	247	11%
Debub	Areza	2146	2248	-102	-5%
Debub	Dekemehare	4389	3804	585	15%
Debub	Dibarwa	5341	4829	512	11%
Debub	Kudo Bu`er	761	688	73	11%
Debub	May Mine	357	523	-166	-32%
Debub	Mendefera	4623	4146	477	11%
Debub	Segeneyiti	3359	3118	240	8%
Debub	Senafe	3194	2355	839	36%
Debub	Tsorena	1908	1648	260	16%
Gash Barka	Logo Anseba	2718	2746	-28	-1%
Gash Barka	Mansura	55	92	-37	-40%
Maekel	Berikh	2511	2171	340	16%
Maekel	Ghala Nefhi	3585	3161	424	13%
Maekel	Serejeka	4731	4292	439	10%
Semenawi Keyih Bahri	Afabet	1039	1157	-118	-10%
Semenawi Keyih Bahri	Ghida`e	460	498	-38	-8%
Semenawi Keyih Bahri	Nakfa	701	1053	-352	-33%
Semenawi Keyih Bahri	Sheib	864	991	-127	-13%
Total		**55825**	**52876**	**2949**	**6%**

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.*