

ADAM

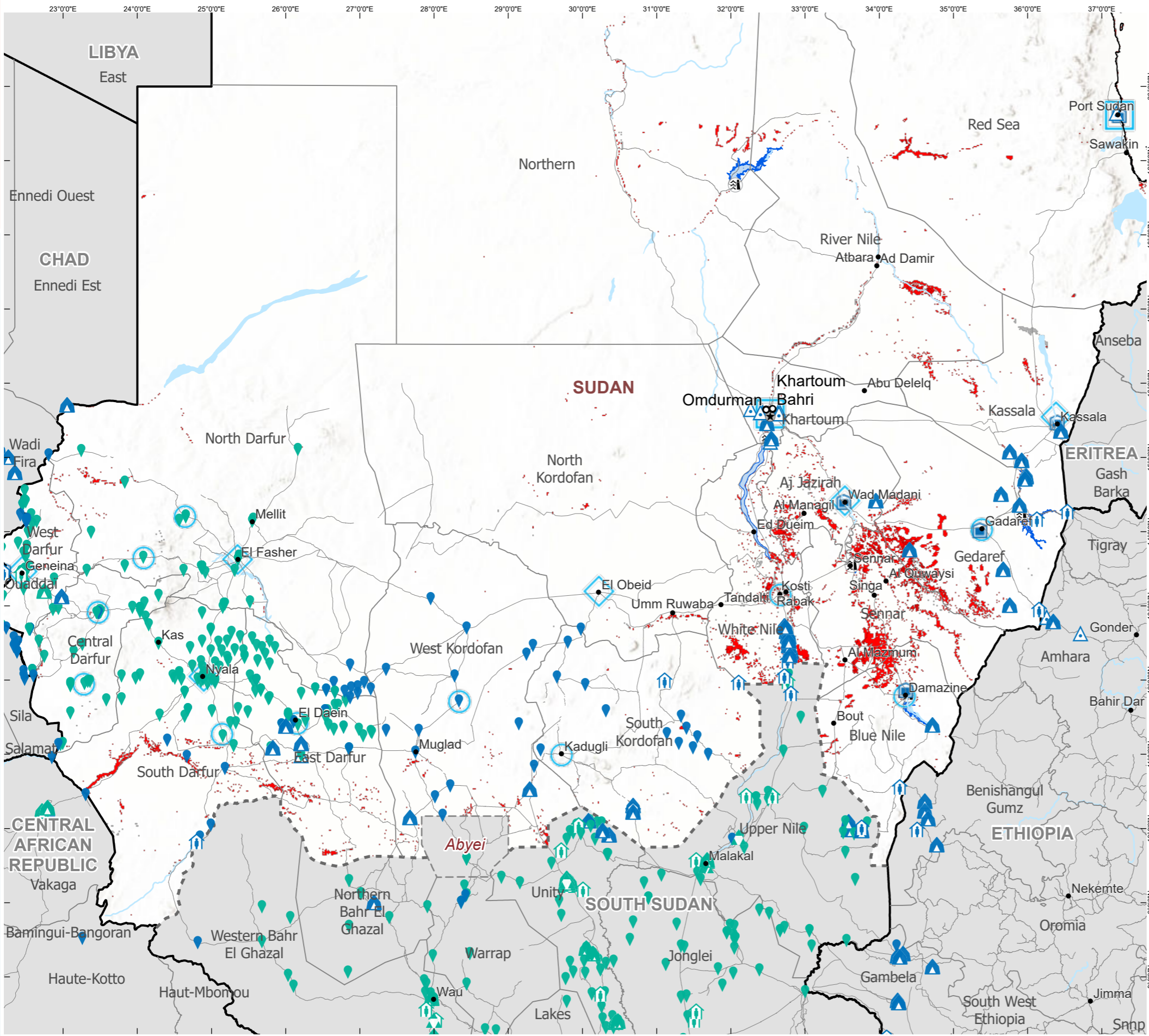
Advanced Disaster Analysis & Mapping

Flood Impact Analysis Sudan

Update #3

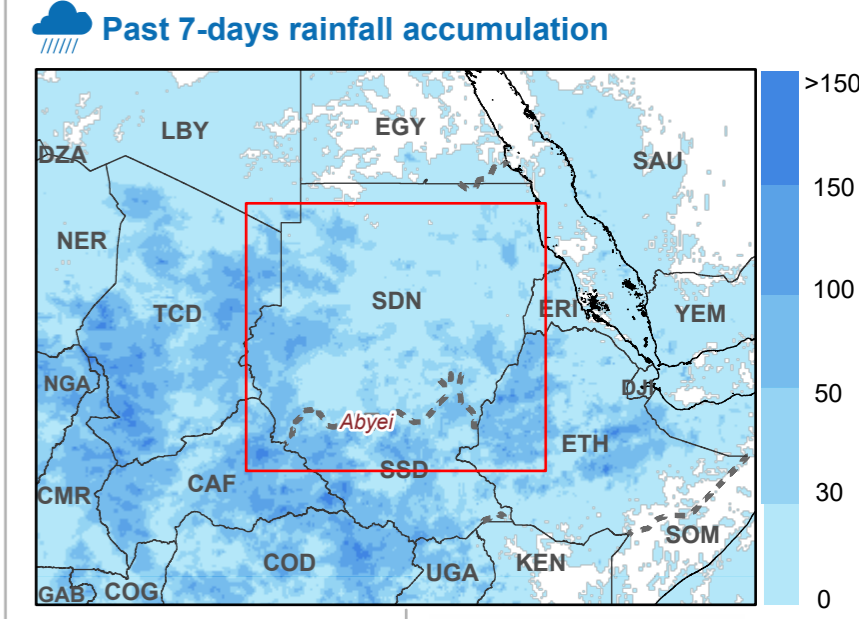
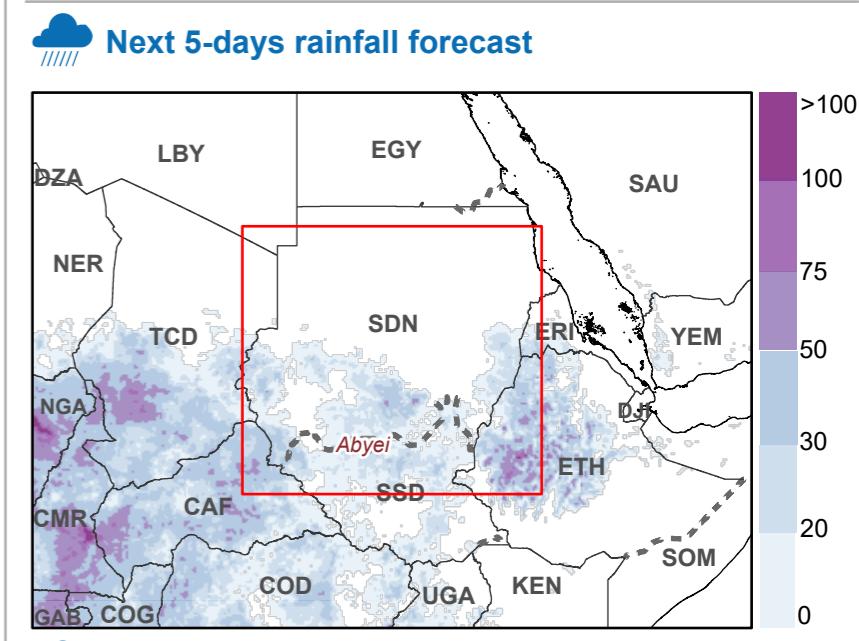
Maximum Flood Extent
05 September 2024





Rapid Flood Impact Summary

3,545,075 Total observed flooded or inundated area (hectares)	1,642,239 Total number of people living in the flooded pixel
1,614,447 Total flooded cropland areas	566,608 Total number of vulnerable population in the flooded area



- | | | | |
|--|--|---|--|
| <ul style="list-style-type: none"> Country Office Field Office Sub Office Warehouse National Capital Major City City | <ul style="list-style-type: none"> River Road International Boundary Administrative Boundary 1 Special boundary line; Armistice, undetermined or administrative line; Autonomous region boundary; Other; Sovereign base limit Permanent Water Bodies Dam / Reservoir | <p>*Satellite Observed Water Extent</p> <ul style="list-style-type: none"> Observed Flooded Area Historical Maximum Flood Extent MODIS 2000 - 2018
Source: DFO and Cloud2Street <p><i>*Data displays the maximum combined NOAA VIIRS and Floodscan flood extent detection on the date specified on the map</i></p> | <p>Population of Concern (UNHCR)</p> <ul style="list-style-type: none"> Refugee, formal settlement Refugee, informal settlement Refugee, spontaneous location Refugee, centre Refugee, collective centre Refugee, individual accommodation in communities Refugee, unknown IDP, formal settlement IDP, informal settlement IDP, spontaneous location IDP, centre IDP, collective centre IDP, individual accommodation in communities IDP, unknown |
|--|--|---|--|

Automatically generated report powered by

ADAM
Advanced Disaster Analysis and Mapping

FloodList

aer Atmospheric and Environmental Research

European Commission
Joint Research Centre

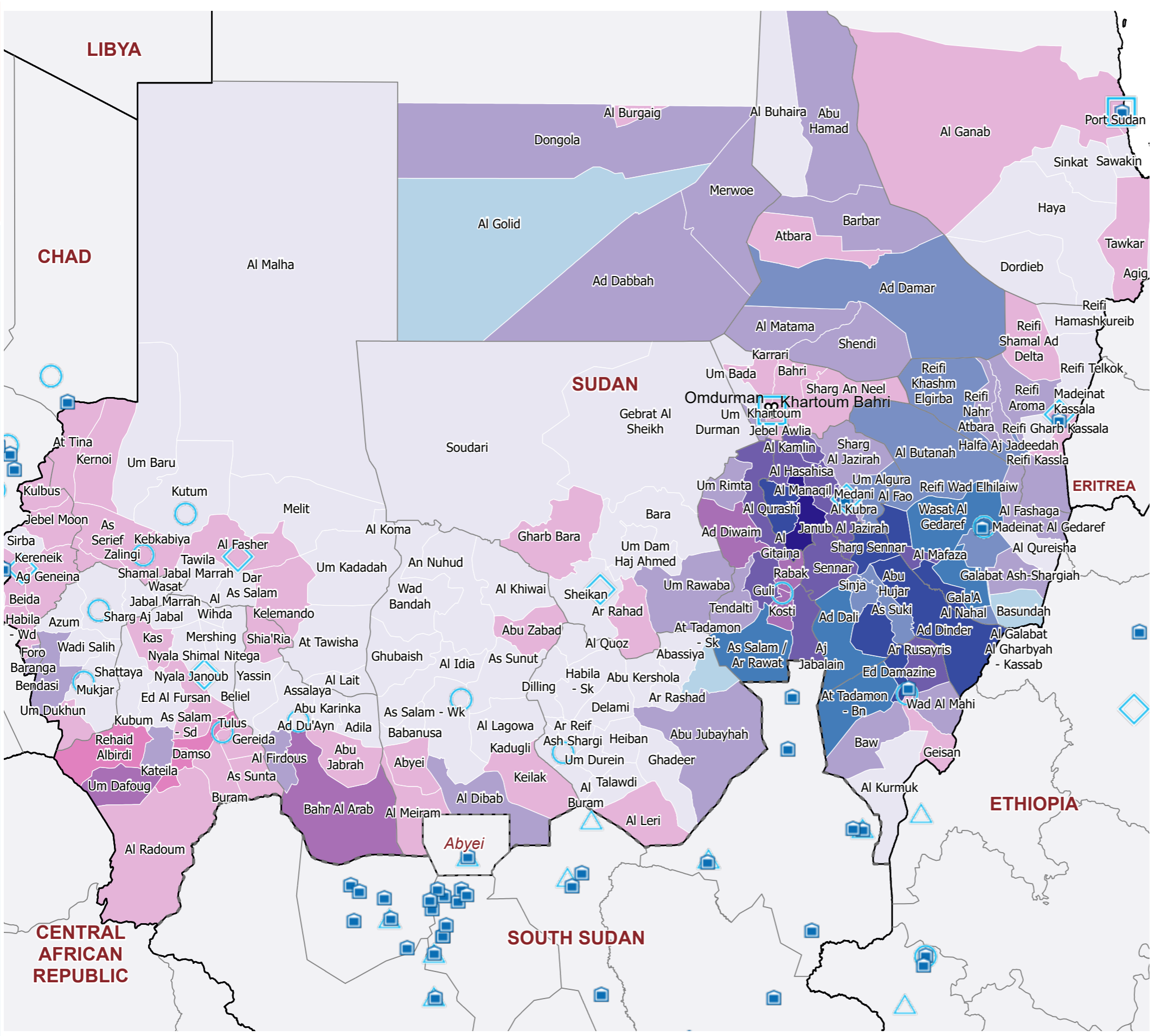
The designations employed and the presentation of material in the map(s) do not imply the expression of any opinion on the part of WFP concerning the legal or constitutional status of any country, territory, city or sea, or concerning the delimitation of its frontiers or boundaries.

Data sources: WFP offices: WFP - Boundaries: UN Map, WFP - Roads: ©OpenStreetMap Contributors - Populated places: GeoNames - Accumulated rainfall: GPM - Weather forecast: ECMWF - Flood Detection: NOAA-VIIRS, MODIS NRT, ESA Sentinel 1 - IDP/Refugee Locations: UNHCR - Terrain: ESRI - Surface Water/Seasonality: JRC - Cropland Mask: NASA GFSAD30 - Population: WorldPop / GHSL - Maximum Flood Extent: NASA MODIS/DFO and C2S

Date Created: 05 Sep 2024 - Contact: wfp.adam@wfp.org

© World Food Programme 2024

Prepared by: HQ GIS Unit, WFP Emergencies

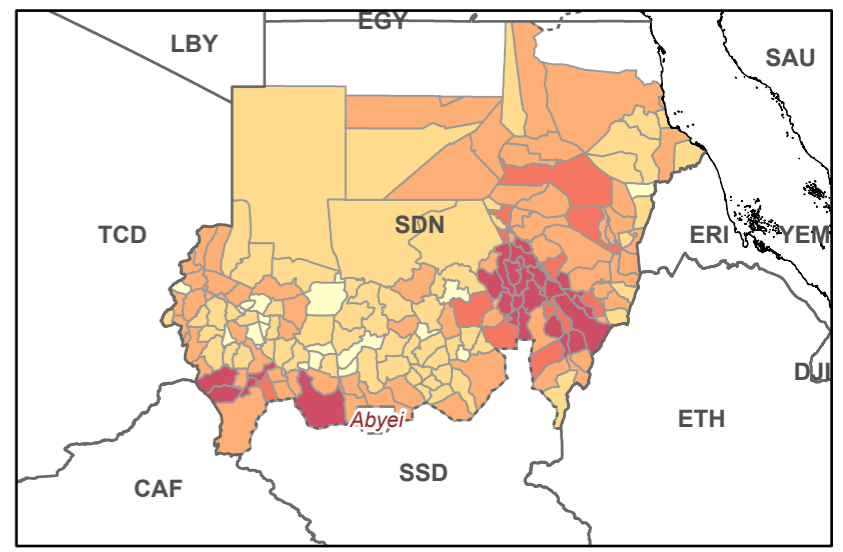


Flood Impact Data Aggregation

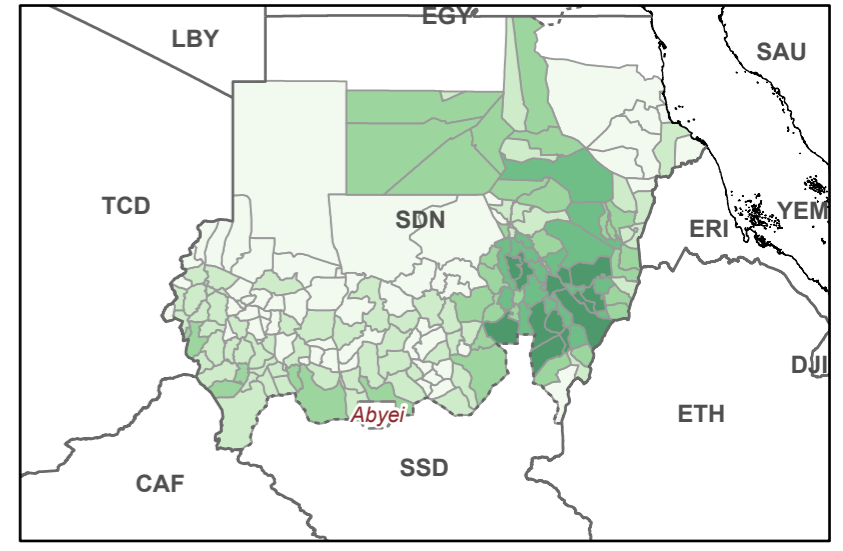
Derived data are summarized by administrative unit II (admin2). For any boundary related concerns, please write to wfp.adam@wfp.org. This aggregated information is indicative and for planning purposes only.

Global Data Sources:
Population - WorldPop 2022
Cropland Areas - NASA GFSAD30

Estimated population living within the flooded area (Admin Unit II)



Estimated crop lands within the flooded area (Admin Unit II)



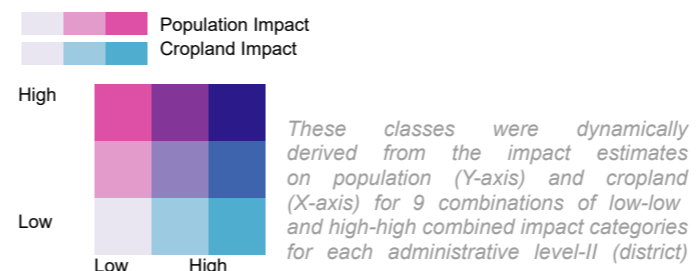
ADAM
Advanced Disaster Analysis and Mapping

- Country Office
- Field Office
- Sub Office
- Warehouse
- National Capital
- Major City
- City

- International Boundary
- Administrative Boundary 1
- Special boundary line; Armistice, undetermined or administrative line; Autonomous region boundary; Other; Sovereign base limit

Potentially impacted population	Estimated flooded cropland (has)
0 - 1K	0 - 1K
1K - 10K	1K - 10K
10K - 20K	10K - 50K
20K - 50K	50K - 100K
>50K	>100K

Bi-variate color classification (Main Map Frame)



The designations employed and the presentation of material in the map(s) do not imply the expression of any opinion on the part of WFP concerning the legal or constitutional status of any country, territory, city or sea, or concerning the delimitation of its frontiers or boundaries.

Data sources: WFP offices; WFP - Boundaries; UN Map, WFP - Roads; ©OpenStreetMap Contributors - Populated places; GeoNames - Accumulated rainfall; GPM - Weather forecast; ECMWF

Date Created: **05 Sep 2024** - Contact: hq.gis@wfp.org
Map Reference: SSD_FL_Aggregation_20240905_00



Sudan Flooding

Rapid Flood Impact Analysis Breakdown

**estimated number of people living in the flooded areas with at least 100 people potentially affected per district. Vulnerable population within flooded area are estimates from WorldPop data.*

(Admin unit 1) Region	(Admin unit 2) District	Flooded Area (hectares)	Flooded Cropland (hectares)	Potentially Impacted Population*		
				Total in District	Children (0-9 y.o.)	Elderly (>60 y.o.)
Aj Jazirah	Al Hasahisa	27,692	22,998	41,758	2,835	10,442
	Al Kamlin	11,354	11,383	22,429	1,490	5,433
	Al Manaqil	97,903	89,633	117,188	7,310	33,453
	Al Qurashi	79,374	72,534	93,276	5,818	26,629
	Janub Al Jazirah	41,273	39,463	54,933	4,082	13,079
	Medani Al Kubra	2,710	2,379	15,013	990	3,241
	Sharg Al Jazirah	2,373	1,800	5,772	396	1,616
	Um Algura	18,395	13,271	12,000	649	3,566
Blue Nile	Al Kurmuk	1,611	0	132	6	47
	Ar Rusayris	87,341	43,634	39,747	1,823	13,488
	At Tadamon - Bn	143,489	123,235	15,909	869	4,966
	Baw	8,715	2,565	1,715	99	615
	Ed Damazine	90,342	66,629	71,978	3,620	21,640
	Geisan	2,801	335	2,864	159	989
	Wad Al Mahi	9,859	2,274	3,240	149	1,100
	Azum	2,627	334	891	43	291
Central Darfur	Bendasi	11,286	2,700	6,533	316	2,199
	Um Dukhun	3,206	774	1,074	51	397
	Wadi Salih	792	130	202	10	68
	Zalingi	1,411	154	465	22	152
	Abu Jabrah	12,752	244	2,602	89	734
East Darfur	Al Firdous	13,400	1,936	4,007	174	1,294
	Assalaya	287	29	137	6	44
	Bahr Al Arab	108,599	1,795	35,793	1,219	10,097
	Shia'Ria	2,879	34	2,337	117	631

Gedaref	Al Butanah	48,713	35,277	1,129	37	397	
	Al Fao	76,361	62,061	61,602	3,175	18,419	
	Al Fashaga	13,370	9,944	6,725	376	2,102	
	Al Galabat Al Gharbyah - Kassab	34,652	25,560	4,024	278	1,236	
	Al Mafaza	58,169	39,702	27,151	1,457	9,713	
	Al Qureisha	351	198	291	15	100	
	Ar Rahad	84,829	58,110	43,880	2,354	15,698	
	Basundah	8,792	4,646	796	46	277	
	Gala'A Al Nahal	77,996	66,735	11,601	828	3,792	
	Galabat Ash-Shargiah	11,233	9,815	1,198	69	417	
	Wasat Al Gedaref	79,094	71,526	4,124	252	1,166	
	Kassala	Halfa Aj Jadeedah	2,915	2,707	4,794	312	1,150
		Madeinat Kassala	289	124	4,781	316	1,081
		Reifi Aroma	11,767	7,276	3,751	184	1,065
Reifi Gharb Kassala		213	21	673	30	204	
Reifi Kassla		1,747	521	3,316	169	766	
Reifi Khashm Elgirba		62,520	18,603	12,755	697	3,336	
Reifi Nahr Atbara		7,727	2,659	4,310	278	1,190	
Reifi Shamal Ad Delta		26,768	736	7,136	305	1,717	
Reifi Wad Elhilaiw		3,894	1,430	3,256	191	1,014	
Khartoum		Bahri	1,440	835	7,732	470	1,636
	Jebel Awlia	461	270	9,763	478	2,240	
	Karrari	715	743	12,798	732	2,839	
	Khartoum	253	318	18,353	1,268	3,082	
	Sharg An Neel	1,570	833	8,226	443	1,927	
	Um Bada	442	0	536	24	131	
	Um Durman	1,717	1,639	19,546	1,296	4,058	
	North Darfur	Al Fasher	4,539	792	6,468	406	1,744
Al Malha		13,013	0	443	19	137	
As Serief		7,025	292	2,411	147	696	
At Tina		11,804	0	1,160	66	326	
Dar As Salam		340	0	127	8	34	
Kebkabiya		353	0	1,397	66	451	

	Kelemando	7,636	1	2,105	156	693
	Kernoi	25,449	0	2,726	169	715
	Saraf Omra	1,093	544	3,471	135	988
North Kordofan	Um Baru	18,481	0	876	55	228
	Ar Rahad	10,534	459	7,335	479	2,409
	Gebrat Al Sheikh	11,231	0	740	38	230
	Gharb Bara	6,659	0	1,504	103	500
	Sheikan	1,228	41	713	45	196
	Soudari	6,476	0	498	33	148
Northern	Um Rawaba	23,418	1,137	17,096	1,116	5,619
	Ad Dabbah	3,481	1,084	1,062	78	257
	Al Burgaig	1,012	982	3,133	254	594
	Al Golid	4,050	1,459	603	47	123
	Dongola	51,697	4,413	5,232	375	1,183
Red Sea	Merwoe	24,042	4,333	4,823	424	1,071
	Agig	1,224	0	117	9	25
	Al Ganab	99,964	0	1,640	49	414
	Dordieb	2,038	0	296	10	66
	Haya	2,412	0	279	10	62
	Port Sudan	26	0	1,137	63	227
River Nile	Tawkar	24,130	155	9,140	328	2,860
	Abu Hamad	9,014	1,358	1,073	73	257
	Ad Damar	124,004	10,191	15,353	983	4,052
	Al Buhaira	16,269	102	576	39	138
	Al Matama	5,396	6,254	8,112	686	1,906
	Atbara	572	573	3,408	267	701
	Barbar	6,621	2,031	3,200	303	692
Sennar	Shendi	10,175	4,318	5,379	399	1,232
	Abu Hujar	199,170	140,309	57,872	3,978	16,032
	Ad Dali	85,114	75,793	6,676	393	1,944
	Ad Dinder	189,126	73,484	31,015	1,569	10,549
	As Suki	24,566	22,260	18,876	1,075	5,566
	Sennar	28,987	26,041	22,631	1,425	5,984

	Sharg Sennar	149,315	85,737	95,135	6,388	27,890
	Sinja	23,652	19,521	15,258	997	4,096
South Darfur	Al Radoum	19,059	150	8,579	341	2,597
	As Salam - Sd	4,552	224	2,634	138	821
	As Sunta	32,914	646	5,488	218	1,662
	Beliel	232	26	246	13	77
	Buram	19,771	141	16,258	646	4,922
	Damso	13,144	663	30,144	1,231	8,711
	Ed Al Fursan	351	15	377	17	126
	Gereida	4,841	354	1,462	58	442
	Kas	2,681	852	2,138	98	638
	Kateila	28,149	3,670	8,046	363	2,690
	Rehaid Albirdi	41,632	711	21,471	937	7,289
	Tulus	12,460	879	22,690	927	6,557
	Um Dafoug	33,537	1,165	29,939	1,306	10,164
South Kordofan	Abu Jubayhah	21,187	6,458	2,117	109	710
	Al Buram	1,128	0	109	5	34
	Al Leri	20,083	22	1,056	62	358
	At Tadamon - Sk	4,471	3,589	385	20	129
	Ghadeer	11,791	13	490	29	166
	Habila - Sk	1,522	1	229	14	77
	Talawdi	9,405	0	460	27	156
West Darfur	Ag Geneina	1,359	151	2,431	135	765
	Beida	1,820	0	762	44	262
	Foro Baranga	8,498	2,569	6,762	385	2,293
	Habila - Wd	3,494	663	1,938	111	657
	Jebel Moon	10,002	4	1,262	52	304
	Kereneik	5,270	768	1,301	83	460
	Kulbus	5,856	0	1,125	46	272
West Kordofan	Abu Zabad	1,045	147	1,051	65	343
	Abyei	13,561	285	1,182	54	404
	Al Dibab	68,083	1,139	7,883	364	2,594
	Al Lagowa	5,289	66	916	53	329

White Nile

Al Meiram	14,946	130	2,642	93	763
An Nuhud	1,239	260	352	22	113
As Salam - Wk	5,375	108	607	28	203
As Sunut	3,780	68	602	35	216
Keilak	20,959	117	2,032	89	708
Ad Diwaim	17,487	8,567	29,309	1,807	8,418
Aj Jabalain	103,675	29,166	52,372	2,031	15,240
Al Gitaina	56,744	16,550	28,873	1,787	8,150
As Salam / Ar Rawat	163,722	80,410	19,383	1,170	6,041
Guli	53,726	23,607	61,301	3,835	16,708
Kosti	17,163	6,916	27,269	1,705	7,433
Rabak	14,377	9,046	31,119	1,985	8,473
Tendalti	18,045	3,144	4,711	320	1,462
Um Rimta	5,733	4,383	2,690	164	714

Learn more about ADAM



wfp.adam@wfp.org



gis.wfp.org/adam/



[@WFP_ADAM](https://twitter.com/WFP_ADAM)

