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DTM SOUTH SUDAN





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Photo (cover page):

Women speaking to enumerators outside a shelter.

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Aims

Between September and November 2021, the International Organization for Migration's Displacement Tracking Matrix (IOM DTM) undertook its second household-level multi-sector assessment of selected urban areas and camps for internally displaced persons (IDPs) in South Sudan. The assessment aims to:

- Quantify the prevalence of vulnerabilities and humanitarian needs across sectors, with a focus on food security, economic vulnerability and nutrition as well as selected indicators on shelter and non-food items (SNFI), education, health, water, hygiene and sanitation (WASH), protection (including child protection and gender-based violence) and mental health and psycho-social support (MHPSS).
- Generate a better understanding of urban displacement and migration, including return and relocation after displacement in South Sudan or abroad.

This survey is part of the country-wide extended Food Security and Nutrition Monitoring System (FSNMS+) assessment in South Sudan, jointly conducted by IOM, the World Food Programme (WFP), the United Nations Children's Fund (UNICEF), the Food and Agriculture Organization (FAO), the United Nations Office for the Coordination of Humanitarian Affairs (OCHA), REACH and several humanitarian clusters. It was designed to be an independent, crisis-wide and coordinated inter-agency multi-sectoral needs assessment, mandated by the Humanitarian Country Team and endorsed by the Inter-Cluster Coordination Group. Together, the joint findings provide an evidence-base for the Integrated Food Security Phase Classification, the Humanitarian Needs Overview and the Humanitarian Response Plan.

This report presents sectoral findings for the urban area of Malakal. Separate profiles have been published for the urban areas of Juba, Wau, Bor, Yei and Bentiu / Rubkona. Further profiles will be published for Juba IDP Camps I and III, Naivasha IDP Camp, Bentiu IDP Camp and Malakal Protection of Civilians (PoC) Site.

Humanitarian Context in South Sudan

Despite a relative lull in large-scale hostilities since the signature of the Revitalized Peace Agreement for the Resolution of the Conflict in South Sudan (R-ARCSS) in September 2018 and the formation of the Transitional Government of National Unity in February 2020, subnational and localized conflicts have continued to affect communities and cause new displacement across the country (IOM DTM Event Tracking¹). Between January and September 2021, 138,637 individuals were displaced due to conflict, and 84,861 individuals were displaced due to communal clashes (IOM DTM Mobility Tracking Round 11). Although the overall number of casualties has decreased compared to 2020 figures, escalations in violence in Western Equatoria particularly in Tambura – and Jonglei and Greater Pibor Administrative Area were flagged as concerning (HRD UNMISS). After two years of severe seasonal flooding, 2021 witnessed another year of extreme flooding, affecting over 835,000 people (OCHA). Three consecutive years of high levels of flooding have depleted resources and severely increased needs in many communities while simultaneously limiting humanitarian access. In this climate, the economic and health impact of COVID-19, including restrictions cross-border movement (IOM DTM Flow Monitoring), has further compounded the humanitarian effects of protracted insecurity.

As of September 2021, South Sudan hosts over 2 million IDPs and 1.78 million returnees, with over 400,000 new IDP arrivals² and over 400,000 former IDPs and refugees returning to their areas of habitual residence prior to displacement in the first nine months of 2021 (IOM DTM Mobility Tracking Round 11). Often, returnees find themselves in conditions of need comparable to those of the displaced population (IOM DTM Mobility Tracking Round 11 Multi-Sector Location Assessment).

According to the Integrated Food Security Phase Classification (IPC)

¹ Due to limitations in coverage and access, DTM Event Tracking does not provide a comprehensive picture of displacement events.

² Including both new displacement incidents and individuals moving to a different location of displacement.



analysis for February to March 2022, 6.8 million people – more than half of South Sudan's population – are estimated to be facing severe acute food insecurity, with parts of Jonglei and Unity states of extreme concern for food insecurity. The 2022 Humanitarian Needs Overview (HNO) estimates a total of 8.9 million people in need out of a projected population of 12.4 million. In the intersectoral severity of needs analysis, the HNO also classifies five counties – Duk, Fangak, Pibor, Cueibet and Rumbek East – to be in catastrophic need and another 71 counties to be in extreme need.

After the successful conclusion of the <u>first round of the expanded FSNMS+ assessment in urban areas and IDP sites</u> (FSNMS+ 2020), the second round enlarged its coverage to include the urban areas of Bor and Yei. The assessment took place after the former PoC sites in Juba, Wau and Bentiu transitioned out of their special status under the protection of the United Nations Mission In South Sudan (UNMISS) in 2020 and early 2021. All five targeted camps continue to be affected by congestion and sub-standard living conditions that are only partly mitigated by access to humanitarian services.

Methodology

Sampling Frame Development

South Sudan lacks an updated sampling frame, with the most recent census dating back to 2008, prior to the country's independence and two waves of civil war resulting in mass population displacement. To enable the roll-out of representative household surveys in urban areas within a short timeframe, IOM DTM relied on a combination of remote sensing technology and field mapping by teams of trained enumerators to produce a workable sampling frame. The methodology sought to avoid the need for door-to-door listings, which would have significantly increased costs and could have been mistaken by the local population for a registration exercise, potentially attracting residents from surrounding neighborhoods.

In the initial step, building footprints for the targeted areas were extracted from recent high-resolution satellite imagery from Maxar

using automated image-recognition technology. The urban extent of each city was then mapped based on lower-level post-independence administrative boundaries (bomas) made available by South Sudan's National Bureau of Statistics, the local road and transport network and the extension of built-up areas. Within the urban extent, enumeration areas of approximately equal size were drawn following natural and man-made geographical boundaries, including roads, waterways and the former boma boundaries. Non-residential and destroyed areas were mapped by field teams using mobile GIS software, in consultation with key informants and direct observation for each enumeration area, to derive a layer of likely residential shelters.

In collaboration with South Sudan's National Bureau of Statistics (NBS), the boundaries of the enumeration areas in Malakal were then re-adjusted to obtain 26 areas with an average of about 180 inhabited shelters (range: 100 to 238).³ Malakal PoC site was excluded from the town's sampling frame and assessed independently.

Sampling Design

In Malakal town, the study adopted a stratified sampling strategy designed to be self-weighting. The sample was distributed between the enumeration areas proportional to the estimated number of inhabited shelters.

Enumerators were provided with georeferenced maps helping them locate the sampled shelters on hand-held devices and were instructed to interview the household living in the pinpointed shelter or record it as empty⁴, non-residential or destroyed. Random reserve shelters were used as a replacement in case of non-response or other sampling failure.

For the purposes of the survey, a household was defined as a group of people who regularly eat out of the same pot (sharing food and other resources) and sleep in the same compound most nights of the

³ As the technical advisory member of the FSNMS+ Technical Working Group, IOM DTM contributed to the sampling frame development of the rural component based on updated enumeration areas. The 2022 assessment is the first round, in which the country-wide exercise relied on updated enumeration areas as primary sampling units.

⁴ Before recording a shelter as empty, enumerators had to visit it at least twice at different times of the day and attempt to set up an appointment through neighbors.



week, even if living in different structures within the compound and regardless of family relationships. When multiple households lived in the same compound, enumerators used the kobo tool to randomly select one.

The targeted sample size of 403 households from 26 enumeration areas was calculated to achieve a 5 per cent margin of error on a 95 per cent confidence interval, assuming a design factor of 1 and a non-response rate of 10 per cent.

Data Collection

Data collection in Malakal took place in October 2021, and 409 households were successfully interviewed. Challenges included higher than anticipated non-response, non-residential, empty and destroyed shelters in some areas, requiring additional reserve shelters⁵.

To prevent transmission of COVID-19 during the survey, enumerators

⁵ During data collection, in some enumeration areas, reserve shelters were visited before all shelters from the main sample were exhausted. The interviews of these reserve shelters are included in the dataset, leading to overshooting the target of 403 interviews by 6.



Enumerator taking measurements of a woman in Makakal town.

were instructed to carry out the interviews with sufficient physical distancing outside the respondents' shelters and were provided with masks and hand sanitizer for use during data collection.

Statistical Analysis

Confidence intervals – denoted in the summary text by a $(\pm X.X)$ – were calculated using R's survey package⁶ to account for the survey's sampling design (stratification). Descriptive statistics reflect unweighted means and standard errors since the sample was designed to be approximately self-weighting. While non-response and other sampling failure rates differed across enumeration areas, it was not possible to correct for these differences due to lack of reliable, geographically disaggregated population estimates and the likelihood of correlation between sampling failure rates and error in the estimated number of residential buildings used as a proxy for population. The following table shows the deviation between sampled households and estimated

⁶ Lumey. T. (2020). "Survey: analysis of complex survey samples". R package version 4.0.



Enumerators interviewing a beneficiary in Malakal town.



residential buildings in each payam⁷.

% sampled households, % estimated residential buildings and percentage point difference by payam [n in table]

Рауам	N SAMPLED	% SAMPLED	% est. residential	P.P. DIFFERENCE
Lelo	47	11.5	11.7	-0.2
Malakal Center	96	23.5	24.0	-0.5
Malakal East	65	15.9	14.2	1.7
Malakal North	184	45.0	45.5	-0.5
Malakal South	17	4.2	4.5	-0.3

Using the estimates proportion of residential buildings in each stratum as weights does not result in meaningful differences for vulnerability and need indicators. Because it is not feasible to identify the cause for sampling failure in certain enumeration areas, weighting estimates may result in the introduction of another bias. All findings are therefore reported without correcting weights.

The impossibility of stratifying based on household attributes constrained the ability to carry out representative sub-group analysis and cross-tabulations of needs and vulnerabilities with sufficient statistical confidence. However, given the importance of this analysis for the humanitarian response, indicative findings have been included where relevant. The subset function from R's survey package was used to accurately compute confidence intervals for sub-group analysis⁸.

Confidence intervals are a measure of the statistical uncertainty regarding our estimate. The 95 per cent confidence interval will contain the true quantity of interest 95 per cent of the time over repeated samples. This means that if we were to repeat this survey one hundred times under identical conditions, on average ninety-five

of the calculated intervals would contain the true value of our target quantity.

The confidence interval does not account for uncertainty due to systematic biases in the sample, such as that due to sampling bias (systematic under or over-representation of households with certain characteristics in the sample) or reporting bias (systematic under or over-reporting of certain indicators by respondents due to their sensitivity, surrounding stigma or perceived incentives). To the extent possible, these sources of bias were minimized through the survey's sampling design, training and monitoring of enumerators, and appropriate communication of the purposes of the study with respondents. A small number of data anomalies that may be due to reporting bias are flagged in the sectoral narratives.

Urban Vulnerability Index Calculation

The Urban Vulnerability Index uses Principal Component Analysis (PCA) to assess the relative impact of a set of high priority indicators on needs and vulnerabilities of households in urban areas. The index summarizes the variation around the complex drivers of vulnerability, need and re-integration in urban settings, or how multiple categories of vulnerability (displacement, disability, poverty, age, gender, etc.), sectoral needs (SNFI, health, WASH, food security, protection, etc.), and broader distributional and societal factors interact and compound each other.

The index ranges from 0 to 100, with 100 signifying the highest level of needs and vulnerability.

Vulnerability is defined as the set of household characteristics that reduces their resilience to internal and external shocks, or capacity to rely on sustainable coping mechanisms, resulting in a higher level of humanitarian needs and likelihood of adverse outcomes unless the household can benefit from appropriate mitigation measures, such as access to humanitarian services.

⁷ Official payam boundaries are yet to be determined in South Sudan. The payams are used as reference for data systems. This study relies on NBS boundaries from the 2008 Census / 2011 Independence Referendum for statistical purposes only. As such, IOM on its own does not officialize any of payam and boma boundaries.

⁸ lbid., p. 55. "Voluntary migrants" and "Refugees" were excluded from the sub-group analysis in this report due to their small sample sizes. "Returnees" and "Relocated persons" were grouped for sub-group analysis.



Index indicators:

Population Group Single-headed Households

Disability Chronic Illness
Shelter Damage Shelter Type

Crowding School Dropout

Access To Sufficient Water Safe and Timely Access to Water

Access to WASH NFI Sanitary Facility

Distance to Health Facility

Security Incidents

Protection Service Availability

GBV Risk

Behavioral Changes in Children

Coping Strategies Hunger Levels

Livelihoods

For a detailed definition of the used indicators and importance of components, see the <u>Urban Vulnerability Index and Intersectoral</u> Analysis section.

Population Groups

Displacement and migration status are self-reported by households. Population group definitions are based on IOM DTM Mobility Tracking.

IDPs

Persons or groups of persons who have been forced or obliged to flee or to leave their homes or places of habitual residence, in particular as a result of or in order to avoid the effects of armed conflict, situations of generalized violence, violations of human rights or natural or human-made disasters, and who have not crossed an internationally recognized state border⁹. There is no time limit on being an IDP. This status ends when the person is able and willing to return to their original home or makes a free choice to settle in a new location¹⁰.

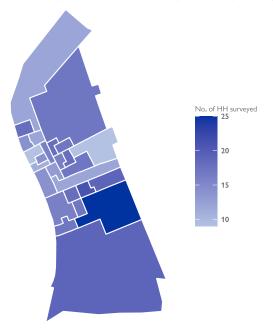
Returnees

Someone who was displaced from their habitual residence either within South Sudan or abroad, who has since returned to their habitual residence. Please note: the returnee category, for the purpose of DTM data collection, is restricted to individuals who returned to the exact location of their habitual residence, or an adjacent area based on a free decision. South Sudanese displaced persons having crossed the border into South Sudan from neighboring countries but who are unable to reach their former home are still displaced and as such not counted in the returnee category.

Relocated Persons

A person who was displaced from their habitual residence either within South Sudan (former IDP) or abroad (former refugee), who has since relocated voluntarily (independently or with the help of other actors) to a location other than their former habitual residence, without an intention to return to their former habitual residence.

NUMBER OF ASSESSED HOUSEHOLDS IN MALAKAL TOWN BY ENUMERATION AREA



⁹ UN OCHA. (2004). Guiding Principles on Internal Displacement. Article 2.

¹⁰ These conditions for ending IDP status are in line with the Inter-Agency Standing Committee's Framework on Durable Solutions for Internally Displaced Persons (April 2010).



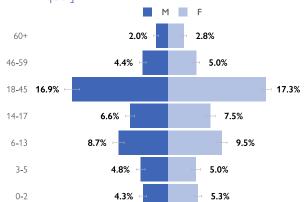
Demographics and Household Vulnerabilities

In this assessment, 87.0 (±2.9) per cent of responses are given by heads of household (HoH), while 23.0 (±2.9) per cent of households are represented by some other household member. These respondents tend to be younger members of the household (average age of 28 years compared to 35 years for heads of households responding).

The average household size is 9.1 (±0.4) persons, with a median of 9 persons. The average size of households hosting individuals is 10.9 (±0.8) persons whereas the size of households not hosting any individuals is 8.5 (±0.5) persons. Most households are headed by women (61.6% ±4.6%). Compared to their female counterparts, male heads of household are more likely to be older and have a secondary or university diploma. 19.4 (±1.4) per cent of household members are between the ages 0 and 5, and 32.3 (±1.7) per cent are between the ages of 6 and 17. Only 4.8 (±0.7) per cent are above the age of 60.

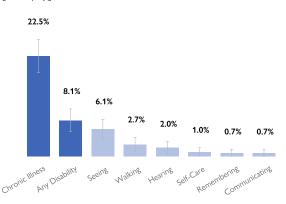
Among all households, 22.5 (±3.7) per cent of households have at least one member with a chronic illness, and 8.1 (±2.6) per cent report to have at least one member with a disability, as measured by the Washington Group Short Set questions. In comparison to figures from previous assessments and national estimates of the prevalence of persons with disabilities¹, these figures should be treated as an estimation of the lower bound of the real prevalence.

% individuals by age group and gender [n ind. = 3,703; % hh with a member with a disability or chronic illness $N HH = 406^2$



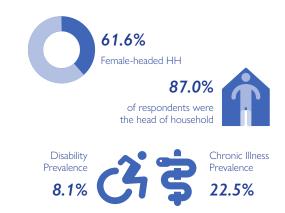


[N = 409]

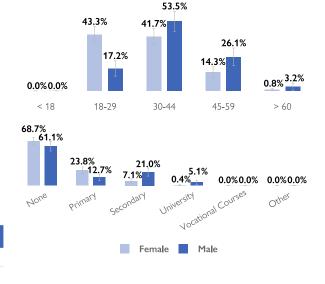


% hh by nationality [n = 409]

Nationality	%	LL	UL
South Sudan	98.8%	97.7%	99.8%
Mixed Foreign	0.7%	0.0%	1.6%
Ethiopia	0.5%	0.0%	1.1%



% MALE AND FEMALE-HEADED HH BY AGE AND EDUCATION LEVEL OF HH HEAD [N = 409]



- 1 The 2022 Humanitarian Needs Overview applies a standard rate of 15 per cent for their sectoral and inter-sectoral analysis.
- 2 Three households were excluded from the breakdown due to household size anomalies.

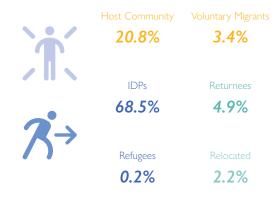


Displacement and Migration

Displaced households come mostly from within Upper Nile state ($53.2\% \pm 5.8\%$ of IDP HH), with Baliet and Malakal being the most prominent counties. A significant proportion also comes from Jonglei state ($1.4\% \pm 1.5\%$ of IDP HH), mainly from Canal / Pigi county. The main reasons for displacement are conflict-related, with personal insecurity due to generalized violence ($43.2\% \pm 4.1\%$) and conflict interrupting access to livelihoods ($22.1\% \pm 3.7\%$) ranking highest.

For returned and relocated households, key drivers are access to land and housing (37.9% \pm 17.4%), government assurance on safety (34.5% \pm 17.3%) and improvement of security in area of return (31.0% \pm 16.7%). Three in five of these households (62.1% \pm 17.7%) are satisfied with their decision to return or relocate, and 34.5 (\pm 17.1) per cent are not satisfied but will remain in their location.

Over two in five IDP households intend to remain in their current location (41.1% $\pm 4.3\%$) while half intend to return to their area of habitual residence (50.7% $\pm 4.6\%$) in the next two years. Only a few intend to relocate to a different location (3.9% $\pm 2.7\%$), and 1.8 (± 1.5) per cent are unsure of their plans. Of the displaced households intending to return, 45.1 (± 6.9) per cent plan to return after a year. Indicatively, 44.8 (± 17.9) per cent of returned or relocated households have not reached their final destination where they intend to settle.



% HH BY DISPLACEMENT OR MIGRATION STATUS $[N = 409]^{1}$ % HH BY YEAR OF ARRIVAL AND DISPLACEMENT OR MIGRATION STATUS [N = 409]**IDPs** Refugees Returnees Relocated Persons Voluntary Migrants 43.8% 56.5% 16.0% 10.2% 10.3% 0.9% 0.9% 3.9% 3.4% 0.3% 1.7% 0.2% ____ Up To 2011 2012 2014 2016 2017 2018 2019 2013 2010 SSD Prev. Unknown SSD Abroad SSD Abroad SSD Returnees Relocated Persons Voluntary Migrants Abroad

% idp hh by main reason for most recent displacement (top 5) [n = 280]

Reason	%	LL	UL
Personal Insecurity (Generalized)	43.2%	39.1%	47.3%
Conflict / No Access To Livelihoods	22.1%	18.4%	25.8%
Natural Disaster Destroyed Home	16.8%	13.9%	19.7%
Personal Insecurity (Targeted)	7.5%	4.5%	10.5%
Conflict / No Access To Services	5.0%	2.7%	7.3%

% IDP HH NOT INTENDING TO RETURN WITHIN THE NEXT TWO YEARS BY MAIN REASON (TOP 5) [N = 248]

Barrier		LL	UL
No Means	35.5%	30.1%	40.9%
Insecurity In Area Of Return	31.5%	26.0%	36.9%
Lack Of Services In Area Of Return	27.4%	22.7%	32.1%
No Barriers	24.2%	20.0%	28.4%
House / Land Destroyed	16.9%	13.1%	20.8%



¹ N for sub-groups: HC n = 85; IDPs n = 280, Refugees n = 1; Returnees n = 20, Relocated persons n = 9, Voluntary migrants n = 14.

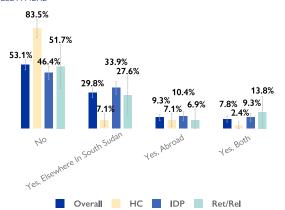


Close to half of all households (46.9% ±4.3%) have close family members living elsewhere in South Sudan (29.8% ±4.0%), abroad (9.3% ±2.7%) or both (7.8% ±2.4%). 42.1 (±4.2) per cent of households have children living elsewhere, mostly to attend studies (68.0% ±6.2%) or to temporarily visit family members elsewhere (33.7% ±6.4%).

Only 2.0 (±1.3) per cent of households possess identification documents for all their members. In 48.7 (±3.9) per cent of households some members have IDs, and for the same proportion of households (48.7% ±3.9%) none of the members do. Indicatively, host community households are more likely to lack IDs (69.4% ±9.3%) compared to displaced and returned or relocated households (45.0% ±4.9% and 48.3% ±17.2%). Of the households who have children, only 4.5 (±2.0) per cent have access to birth notifications for all their children, 33.9 (±4.1) per cent for some children and the majority (60.3% ±4.2%) for none of their children.

28.4 (±3.3) per cent of households have experienced challenges in the 12 months preceding the assessment affecting their ability to travel safely within South Sudan (21.8% ±3.3%), abroad (2.0% ±1.3%) or both (4.6% ±1.8%). Households facing challenges cite climate-related issues, such as flooding (69.0% ±7.6%) and impassable roads during the rainy season (15.5% ±5.3%), as well as COVID-19 restrictions (37.1% ±6.2%) and insecurity due to conflict (21.6% ±6.7%) as the main reasons.

ELSEWHERE



% HH WITH ADULT FAMILY MEMBERS LIVING ELSEWHERE BY REASON (TOP \mathcal{E}) [N = 17 \mathcal{E}]

() [
Reason	%	LL	UL
Education	46.9%	39.9%	53.8%
Join Family Members / Relatives	22.9%	16.9%	28.8%
Displaced By Insecurity	9.7%	5.4%	14.0%
Looking For A Different Lifestyle / Cultural Reasons	4.6%	1.5%	7.6%
Looking For Work / Employment	4.0%	1.1%	6.9%

% SUB-GROUP HH WITH CLOSE FAMILY CURRENTLY LIVING % HH WITH CHILDREN LIVING ELSEWHERE BY REASON [N = 172]

			_ / _
Reason	%	LL	UL
Attend Studies	68.0%	61.8%	74.2%
Visit Family Members Elsewhere	33.7%	27.3%	40.1%
Married	29.1%	22.4%	35.7%
Sent To Relatives	12.8%	8.0%	17.6%
Seek Employment	8.7%	4.6%	12.9%
Joined Army Or Armed Groups	2.9%	0.4%	5.4%
Missing (Left And No News)	2.9%	0.4%	5.4%
Kidnapped	0.0%	0.0%	0.0%
Arbitrarily Detained	0.0%	0.0%	0.0%
Other	0.0%	0.0%	0.0%
No Answer	0.0%	0.0%	0.0%

% SUB-GROUP HH WITHOUT ACCESS TO VALID IDENTITY DOCUMENTATION FOR ALL MEMBERS

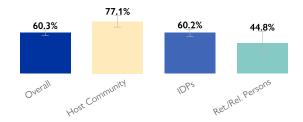


Households without Households without any identification any birth notifications 48.7% 60.3%





% SUB-GROUP HH WITH CHILDREN WITHOUT ACCESS TO BIRTH NOTIFICATIONS FOR ALL CHILDREN



% HH FACING TRAVEL CHALLENGES (INTERNAL AND ABROAD) IN THE PAST 12 MONTHS BY CHALLENGE (TOP 5) [N = 116]

Challenge	%	LL	UL
Flooding	69.0%	61.3%	76.6%
COVID-19 Restrictions	37.1%	30.8%	43.3%
Insecurity Due To Conflict	21.6%	14.8%	28.3%
Increase In Cost	19.8%	13.8%	25.8%
Roads Impassable	15.5%	10.2%	20.9%



Community-driven Assistance

Overall, 25.9 (\pm 3.8) per cent of households host IDPs (17.4% \pm 3.3%), returnees (15.2% \pm 3.2%) or unaccompanied, separated or orphaned children (19.3% \pm 3.4%). IDP and returnee households are significantly more likely to host individuals (25.7% \pm 4.6% and 37.9% \pm 17.4%) compared to host community (11.8% \pm 6.6%), underlining the increased burden on households in displacement. Over one third of households hosting others are worried that they may have to stop hosting some or all of them over the next three months while they still need support (38.7% \pm 8.3%), indicatively citing a lack of space and high costs as the main reasons.

In the 12 months preceding the assessment, more households were sending remittances to support friends or relatives living elsewhere ($26.2\% \pm 3.9\%$) than receiving remittances ($18.3\% \pm 3.5\%$). Two in five households receiving remittances did not see any changes in the amounts they sent in the past six months ($41.3\% \pm 10.8\%$) while 33.3 ($\pm 10.7\%$) per cent note a slight decrease and 8.0 (± 6.2) per cent a substantial decrease in the amount. Indicatively, households sending remittances are less likely to report a decrease in the amount received in the past six months, with 27.1 (± 8.1) per cent noting a slight and 8.4 (± 5.0) per cent a significant decrease in the amount. Displaced and returned or relocated households were significantly more likely to send remittances than host community households.

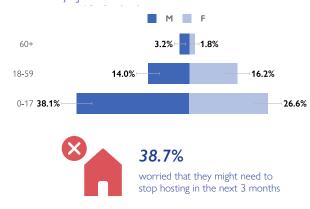
% HH BY HOSTING IDPS, RETURNES OR UNACCOMPANIED / SEPARATED CHILDREN [N = 409]

Hosting	%	LL	UL
Any individuals	25.9%	22.1%	29.7%
IDPs	17.4%	14.1%	20.7%
Returnees	15.2%	12.0%	18.3%
Unaccompanied children	19.3%	15.9%	22.7%

% hh worried about stopping hosting individuals in the next three months by reason $\left[N=41\right]$

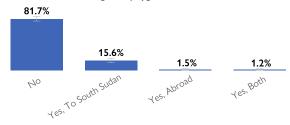
Reason	%	LL	UL
Not Enough Space	73.2%	59.8%	86.6%
No Longer Able To Bear The Cost	12.2%	2.4%	22.0%
I Am Worried About C-19 / Disease	4.9%	0.0%	11.4%
Too III To Continue Hosting	4.9%	0.0%	11.6%
We Are Not Getting Along	4.9%	0.0%	11.5%

% hosted individuals by age and gender [n HH = 104; n Ind = 278]



Sending remittances
26.2% Receiving remittances
18.3%

% hh receiving remittances to support friends / relatives in last 12 months [N = 409]





25.9%

hosting IDPs, returnees of unaccompanied children

Good **58.2%**

IDP / Returnee -Host Community Relations

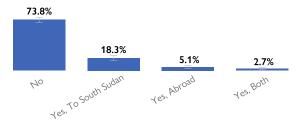
Poor **2.7%**

26.7%

experienced a decrease in the amount of remittances received



% HH SENDING REMITTANCES TO SUPPORT FRIENDS / RELATIVES IN LAST 12 MONTHS [N = 409]



% hh sending remittances to support from friends / relatives by change in amount in last six mos. [n = 107]

Change	%	LL	UL
Increased Substantially	0.0%	0.0%	0.0%
Increased Slightly	20.6%	13.9%	27.3%
Same	43.9%	35.2%	52.7%
Decreased Slightly	27.1%	19.0%	35.2%
Decreased Substantially	8.4%	3.4%	13.4%
Not Applicable	0.0%	0.0%	0.0%



Shelter and Non-Food Items

Half of all households (50.1% ±4.0%) live in permanent semi or concrete buildings, while 21.3 (±3.2) per cent live in shacks built with local materials (rakooba). Among those most in need, 21.3 (±3.1) per cent live in improvised shelters and 2.4 (±1.5) per cent in communal shelters, community buildings or emergency shelters provided by humanitarian partners. Overall, over one in eight households (14.9% ±2.8%) live in partially damaged or destroyed shelters. IDP households are more likely to live in partially or completely damaged shelters (17.5% ±3.9%) than host community households (8.2% ±5.7%).

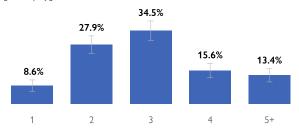
8.6 (±2.7) per cent of households live in shelters made of only one room.

29.8 (±3.5) per cent of households are involved in open disputes relating to their current housing and/or property, although the sensitivity of this issue in the context of South Sudan may result in under-reporting. Indicatively, the most common issues leading to open disputes are disputed ownership (11.0% ±2.8%) and unlawful occupation (9.0% ±1.5%). One in five households (17.8% ±8.4%) report that they did not take any action, while 26.0 (±8.3) per cent state using formal dispute resolution mechanisms. Most households relied on community leaders or chiefs (46.6% ±10.7%), traditional courts (37.0% ±10.5%) or their family or personal network (23.3% ±8.7%).

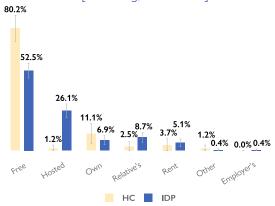
% HH BY SHELTER TYPE [N = 409]

Shelter Type	%	LL	UL
Permanent Semi / Concrete Building	50.1%	46.1%	54.1%
Improvised Shelter	21.3%	18.2%	24.4%
Rakooba	21.3%	18.1%	24.5%
Tukul	4.9%	3.4%	6.4%
Community Building	1.7%	0.5%	3.0%
Communal Shelter	0.5%	0.0%	1.1%
Transitional Shelter By UN / NGO	0.2%	0.0%	0.7%

% HH BY NUMBER OF ROOMS / PARTITIONED SPACES IN SHELTER [N = 409]



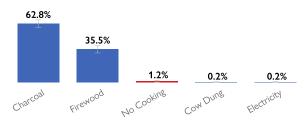
% HC AND IDP HH LIVING IN INDIVIDUAL SHELTERS BY % HH BY MAIN SOURCE OF ENERGY FOR COOKING [N = 409] OWNERSHIP STATUS [HC N = 85; IDP N = 280]



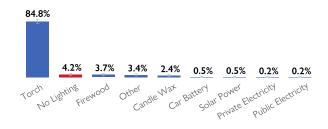








% hh by main source of energy for lighting [n = 409]



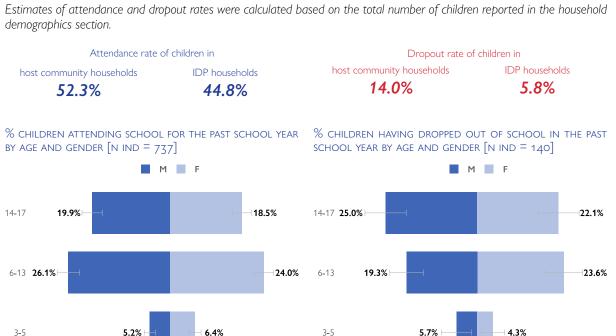
¹ Damaged include those reported as "partially damaged" and "completely



Education

With an attendance rate of 46.9 (±3.3) per cent, over half of all children did not regularly attend formal school in the current school year (2021-2022), defined as attending an institution within a system of full-time education developed by and overseen by the National Ministry of Education. 9.0 (±2.2) per cent of children dropped out of school in the 2021-2022 school year. Comparing attendance rates between different sub-groups, displaced households are less likely to have children attending school. However, host community households are significantly more likely to have children dropping out compared to displaced households.

The top barrier that boys and girls face to accessing education are financial issues (46.9% ±4.3% for boys; 44.5% ±4.3% for girls). Notably, 21.8 (±3.3) per cent of households also indicate that marriage and/or pregnancy are one of the top three barriers to girls. Two in five households (40.6% ±4.5%) report that it takes between 30 minutes and 1 hour by foot to reach the nearest functional education facility, while 16.1 (±2.8) per cent report that they travel more than an hour by foot.



Top barriers to education girls and boys face





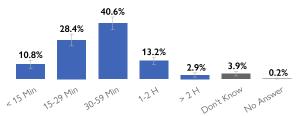
of children did not attend formal school in the 2021-2022 school year

of children dropped out of school in the 2021-2022 school year

of households received training in the past 12 mo.

Top trainings: Agriculture Nutrition

% HH BY WALKING DISTANCE TO NEAREST FUNCTIONAL EDUCATION FACILITY [N = 409]



% HH RECEIVING TRAINING IN THE LAST 12 MONTHS BY TYPE OF TRAINING [N = 99]

Training	%	LL	UL
Agriculture	55.6%	46.1%	65.0%
Nutrition	22.2%	14.1%	30.3%
Functional Adult Literacy (FAL)	6.1%	1.3%	10.8%
Childcare	5.1%	0.9%	9.2%
Other	5.1%	0.8%	9.3%
Business Skills Training	3.0%	0.0%	6.4%
Vocational Training	3.0%	0.0%	6.3%



Water, Sanitation and Hygiene (WASH)

Overall, 56.2 (\pm 4.3) per cent lack access to a safe and timely water source¹, with displaced and returned or relocated households significantly faring worse than host community households. This is driven by the fact that 46.9 (\pm 4.3) per cent need more than half an hour to collect water, as 21.8 (\pm 3.7) per cent have access to only unsafe water sources or feel unsafe when collecting water.

The main water sources for households are public taps serving more than five households ($78.2\% \pm 3.6\%$) and tap stands serving less than five households ($15.4\% \pm 3.1\%$). The vast majority of households uses chlorine to treat their water ($90.2\% \pm 2.5\%$), while $7.6 (\pm 2.2)$ per cent do not use any treatment. $16.9 (\pm 3.3)$ per cent report having felt unsafe collecting water from their main water source in the two weeks prior to the interview, with displaced and returned or relocated households being more likely to be affected than host community households.

The survey did not include questions about the cost of water but asked about the change in the price experienced by households in the past six months. About two in three households $(67.2\% \pm 3.6\%)$ report that the price of water has not changed, while 16.6 (± 2.8) per cent report an increase and 16.1 (± 3.4) per cent report a decrease.

lack access to a safe and timely water source

6.1%

cannot meet any of their water needs

Main drinking water source:

PUBLIC TAP SERVING MORE THAN 5 HHS

% HH BY MOST COMMON WATER TREATMENT [N = 409]

1.7%

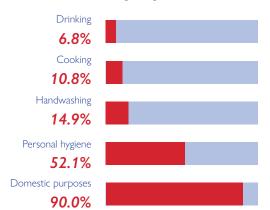
Filtration

0.5%

7.6%

90.2%

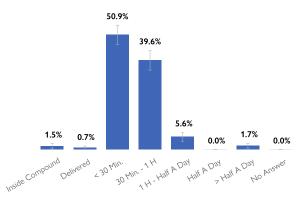
Households not having enough water to meet needs:



% SUB-GROUP HH WITH ACCESS TO SAFE AND TIMELY WATER

GROUP	N	%	LL	UL
Overall	409	43.8%	39.5%	48.0%
Female HoH	252	44.4%	38.7%	50.2%
Male HoH	157	42.7%	35.4%	50.0%
Host Community	85	63.5%	53.7%	73.4%
IDPs	280	41.1%	35.8%	46.3%
Ret./Rel. Persons	29	31.0%	14.6%	47.5%

% HH BY TIME TAKEN TO COLLECT WATER [N = 409]





% SUB-GROUP HH FEELING UNSAFE COLLECTING WATER

Note: The error bars and LL/UL columns in the summary tables indicate 95% confidence intervals. Percentages may not sum to 100 due to rounding error.

% HH BY MAIN SOURCE OF DRINKING WATER [N = 409]

%	LL !	UL
3.2% 7	4.6% 8′	1.8%
5.4% 12	2.3% 18	8.5%
.9% 2	2.1% 5	.7%
.2% C).2% 2	3%
.0% 0).0% 1	.9%
.2% 0).0% 0	.7%
3	3.2% 7-6 5.4% 11 9% 2 2% 0 0% 0	2.2% 74.6% 8° 3.4% 12.3% 18 9% 2.1% 5 2% 0.2% 2 0% 0.0% 1

^{1 &}quot;Access to safe and timely water" is fulfilled by the following criteria: the main water source is either deep borehole / protected well, tapstand serving no more than five households, public tapstand serving more than five households, bottled water or piped water into the house; households do not feel unsafe when collecting water; and households need less than 30 minutes to collect water.

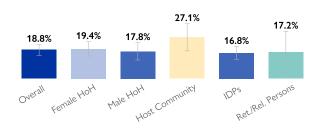


Over half of all households ($60.6\% \pm 4.3\%$) do not have access to basic WASH NFIs, including at least two jerrycans in good conditions and soap. $42.3 (\pm 4.2)$ per cent of households do not have solid, liquid or powder soap at home. Of the households without soap, most state that they ran out of soap or detergent ($48.6\% \pm 6.2\%$) or cannot afford soap ($44.5\% \pm 6.2\%$). More than half of all households ($54.8\% \pm 4.2\%$) report that women use pieces of cloth in dealing with menstruation. $33.5 (\pm 3.9)$ per cent report that women use sanitary pads while $9.3 (\pm 2.6)$ per cent report that women use nothing.

The majority of households ($59.7\% \pm 4.1\%$) report having access to family latrines, with traditional or open pit latrines being the most common ($29.8\% \pm 4.1\%$). $18.8 (\pm 3.5)$ per cent rely on buckets, bushes or open spaces for defecation. While host community households are indicatively more likely to not use latrines, displaced households are more likely to rely on communal latrines. Differences are not statistically significant, however. Of households with children under the age of five, about half ($49.7\% \pm 5.0\%$) report that their children defecate in the open. $31.3 (\pm 4.8)$ per cent indicate that children use household latrines.

For disposing waste, most households burn their solid waste (62.1% \pm 3.7%), while 18.1 (\pm 3.4) per cent discard theirs in garbage bins.

% SUB-GROUP HH WITHOUT A TOILET



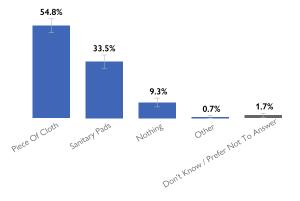
% HH BY TIMES WHEN THEY USUALLY WASH HANDS [N = 409]

Timing	%	LL	UL
Before Eating	99.0%	98.1%	100%
Before Cooking	95.1%	93.0%	97.2%
After Defecation	94.9%	92.8%	96.9%
Before Breastfeeding	50.3%	46.1%	54.5%
Before Feeding Children	36.3%	32.1%	40.4%
After Handling A Child's Stool	20.7%	17.1%	24.2%
After Coughing / Sneezing	14.4%	11.4%	17.5%
After Interacting With People	13.7%	10.8%	16.6%
No Answer	0.0%	0.0%	0.0%

% HH BY WASTE DISPOSAL LOCATION [N = 409]

Location	%	LL	UL
Burn	62.1%	58.4%	65.8%
Garbage Pit	18.1%	14.7%	21.5%
On The Street	16.6%	13.9%	19.4%
Garbage Bin	2.0%	0.6%	3.3%
River / Canal / Drainage	1.0%	0.0%	1.9%
Other	0.2%	0.0%	0.7%

% HH BY PRODUCT/MEASURE FOR DEALING WITH MENSTRUATION [N = 409]



60.6% of households do not have access to WASH NFI



Households not using soap

42.3%



Main reason for not using soap RAN OUT OF SOAP



% hh by access to sanitation [n = 409]

Location	%	LL	UL
Family Latrine - Traditional Pit Latrine / Open Pit	29.8%	25.7%	33.9%
No Toilet / Bush / Open Space	18.8%	15.3%	22.3%
Family Latrine - Improved Pit Latrines With Concrete Slab	15.6%	12.3%	19.0%
Family Latrine - Water-seal / Pour-flush Latrine	14.2%	11.0%	17.4%
Communal Latrine - Improved Pit Latrines With Concrete Slab	9.3%	7.3%	11.3%
Communal Latrine - Traditional Pit Latrine / Open Pit	7.6%	5.2%	9.9%
Communal Latrine - Water-seal / Pour-flush Latrine	4.6%	2.7%	6.6%



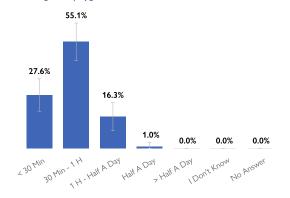
Healthcare and COVID-19

About two in five households (36.9% ±3.9%) had a health problem and needed to access healthcare in the past three months, of which 64.9 (±7.5) per cent were unable to do so. Indicatively, female-headed, displaced, returned or relocated households are more likely to lack access to healthcare compared to male-headed or host community households. Of the households that could access health care, 26.4 (±12.0) per cent needed more than one hour by foot to reach the nearest functional health facility. This highlights the difficulty of households to access timely health services when they need them.

Among households with unmet healthcare needs, the main barriers to access are long waiting times (30.5% ±8.4%), unaffordable treatment costs (18.6% ±7.8%) and receiving incorrect medications (18.6% ±7.0%). 56.7 (±4.0) per cent have attempted to access ante-natal care services.

While most households aware of COVID-19 (98.0% ±1.3%) know that washing hands with soap is a prevention measure against the transmission, less than half of all households know of using masks (40.3% ±4.0%) and 26.9 (±3.2) per cent of covering their cough or sneeze with a tissue. Less than one in ten households know of preventive measures, such as reporting suspected cases and self-isolating, and only 2.4 (±1.5) per cent know of vaccination.

FACILITY [N = 409]



% sub-group hh with health issues unable to access HEALTH CARE WHEN NEEDED IN THE PAST THREE MONTHS

GROUP	N	%	LL	UL
Overall	151	64.9%	57.4%	72.4%
Female HoH	101	68.3%	59.4%	77.3%
Male HoH	50	58.0%	44.3%	71.7%
Host Community	31	58.1%	40.6%	75.6%
IDPs	80	67.7%	58.3%	77.2%
Ret./Rel. Persons	4	76.9%	54.9%	98.9%

% HH BY WALKING DISTANCE TO NEAREST FUNCTIONAL HEALTH % HH WITH UNMET HEALTH CARE NEEDS BY BARRIER TO ACCESS IN THE PAST THREE MONTHS [N = 98]

Barrier	%	LL	UL
Long Waiting Time	30.5%	22.1%	39.0%
None	23.5%	15.4%	31.5%
Unaffordable Treatment Cost	18.6%	10.8%	26.3%
Incorrect Medications	18.6%	11.5%	25.6%
Specific Service Needed Unavailable	16.0%	8.6%	23.3%
Did Not Need To Access	10.2%	4.3%	16.1%
Other	9.2%	4.3%	14.1%
Unaffordable Consultation Cost	8.3%	2.9%	13.8%
Distance	8.2%	2.7%	13.6%
No Means Of Transport	6.1%	1.3%	10.9%
Only Accessible At Certain Times	5.2%	0.8%	9.6%
No Functional Facility Nearby	3.2%	0.0%	6.8%
Disability	3.1%	0.0%	6.3%
Wait For Improvement	2.1%	0.0%	4.7%
Lack Of Staff	2.0%	0.0%	4.9%
Worried About Infection At Facility	2.0%	0.0%	4.9%
Discrimination	1.0%	0.0%	3.0%
Language Barriers	1.0%	0.0%	3.0%

Experienced health Needing care who issues in past 3 mo. were unable to access 36.9% 64.9%

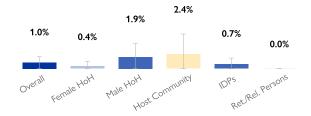
Accessed ante-natal care services 56.7%



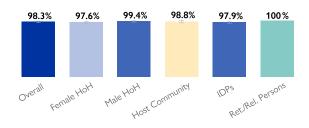
Ante-natal care services not available

11.0%

% SUB-GROUP HH UNAWARE OF COVID-19



% SUB-GROUP HH TAKEN ACTION AGAINST COVID-19





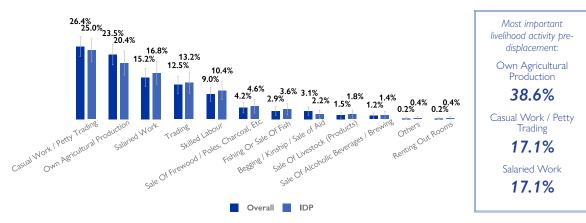
Economic Vulnerabilities and Livelihoods

A quarter of households (24.7% ±3.6%) reports a decrease in their income level or amount during the past six months, with 7.6 (±2.4) per cent reporting a substantial decrease. Households experiencing a decrease in income levels are slightly more likely to rely on their own agricultural production than those not experiencing a decrease in income in the past six months.

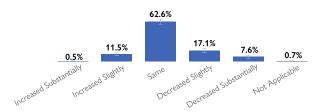
Casual work or petty trading (26.4% ±3.6%) and own agricultural production (23.5% ±3.8%) are the top sources of livelihoods. Host community households are significantly more likely to engage in casual work or petty trading (40.0% ±9.8% vs. 25.0% ±4.2%) while displaced households are more likely to engage in salaried work (16.8% ±4.1% vs. 7.1% ±5.4%). Livelihood activities of displaced households have changed after displacement, with households previously relying on their own agricultural production (38.6% ±5.1%) switching to casual work or petty trading (19.4% ±6.6% of those HH) or trading (13.0% ±6.1% of those HH).

Overall, 53.5 (±4.1) per cent of households have experienced difficulties or shocks in the six months prior to the assessment. Host community households are significantly more likely to be affected than displaced households (72.9% ±9.1% vs 45.7% ±5.2%).

% hh by most important activity for getting food and income in last three months [n = 409; idp n = 280]



% HH BY INCOME LEVEL CHANGE DURING THE PAST SIX MONTHS [N = 409]



% HH BY DIFFICULTIES OR SHOCKS EXPERIENCED IN PAST SIX MONTHS (TOP 5) [N = 409]

Sноск	%	LL	UL
No Shock Experienced	46.5%	42.4%	50.5%
Unusually High Food Prices	31.1%	27.5%	34.6%
Unusually High Non-food Prices	26.4%	22.9%	29.9%
No Foods In Markets	18.6%	15.4%	21.8%
Loss Or Reduced Employment	10.5%	7.6%	13.4%

Experienced a decrease in income in past 6 months

Experienced an economic schock in past 6 months

Top economic shocks experienced in the past 6 mo.



Unusually high food prices



Unusually high non-food prices



No foods in markets

% HH BY ASSETS OWNED (TOP 15) [N = 409]

Asset	%	LL	UL
Sleeping Mat	73.3%	69.9%	76.8%
Bed	72.6%	69.1%	76.1%
Mattress	66.5%	62.9%	70.1%
Chairs	60.6%	56.7%	64.6%
Mosquito Net	50.6%	46.2%	55.1%
Tables	46.2%	42.1%	50.3%
Kitchen Utensils	40.3%	36.5%	44.1%
Blanket	35.7%	31.6%	39.8%
Phone	22.7%	19.3%	26.2%
Stove	13.4%	10.7%	16.2%
None	12.5%	10.4%	14.5%
Flat Iron	9.8%	7.1%	12.5%
Radio	8.3%	5.8%	10.8%
Lighting Tools	6.4%	4.2%	8.5%
Seeds	5.4%	3.3%	7.4%



33.0 (±3.7) per cent of households spent at least 65 per cent of their total household expenditure on food alone in the past three months while 28.4 (±3.8) per cent report spending over 65 per cent of their expenditure on cereals and pulses only on average per month – these households are particularly vulnerable to market shocks. 22.2 (±3.1) per cent of households use over three quarters of their expenditure on food. High to very high expenditure on food (over 65%) affects male-headed households more than female-headed households (40.1% ±7.1% vs 28.6% ±4.9%).

Over two in five households (45.5% ±4.4%) need to walk over 30 minutes to their nearest operational marketplace or grocery store, with 12.5 (±2.8) per cent needing more than one hour. Indicatively, displaced households are more likely to need more than 30 minutes compared to host community households (48.2% ±5.3% vs. 36.5% ±9.9%).

45.7 (±4.4) per cent of households attempted to use or used credit or borrowed money in the three months prior to the assessment, with 24.0 (±3.9) per cent having used credit or borrowed money more than once. Of these households, the vast majority did so to purchase food (69.0% ±6.1%).

Despite living in an urban area, 46.7 (±4.3) per cent have access to land for cultivation and 19.3 (±3.7) per cent own livestock or farm animals. Female-headed households and host community households are more likely to have access to land for cultivation than male-headed households and displaced households.

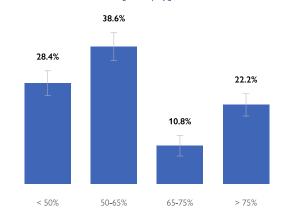
THE LAST THREE MONTHS [N = 409]

54.0% 17.4% 14.2%

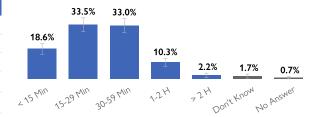
% HH USING CREDIT OR BORROWING MONEY IN THE LAST THREE MONTHS BY REASON (TOP 5) [N = 187]

Reason	%	LL	UL
Purchase Of Food	69.0%	62.8%	75.1%
Payment Of Tuition Fees	13.4%	9.0%	17.8%
Health Care	7.0%	3.3%	10.6%
Rent	2.7%	0.4%	5.0%
Purchase Of Agricultural Inputs	2.1%	0.0%	4.2%

THE LAST THREE MONTHS [N = 409]



% HH BY WALKING DISTANCE TO NEAREST OPERATIONAL MARKET / GROCERY STORE [N = 409]







PURCHASE FOOD

% HH BY CHALLENGES EXPERIENCED DURING TRAVEL TO MARKET IN THE LAST MONTH [N = 409]

Challenge	%	LL	UL
Distance	38.9%	35.0%	42.7%
None	37.2%	33.2%	41.1%
Too Hot	18.3%	15.3%	21.4%
Floods	10.5%	7.9%	13.1%
Conflict / Violence	9.3%	6.9%	11.6%
Children Have To Join	8.3%	5.8%	10.8%
Struggled To Carry All Purchases	6.4%	4.2%	8.5%
Unsafe	5.4%	3.6%	7.2%
Market Damaged / Destroyed	3.2%	1.5%	4.8%
Lack Of Water / Food On The Way	2.9%	1.3%	4.6%
Lack Of Shelter On The Way	2.7%	1.1%	4.2%
COVID-19 Movement Restrictions	2.2%	0.9%	3.5%
Robberies / Crime	1.2%	0.2%	2.3%
Checkpoints	1.0%	0.0%	1.9%
Wild Animals	1.0%	0.0%	1.9%
Markets Closed Due To COVID-19	0.2%	0.0%	0.7%

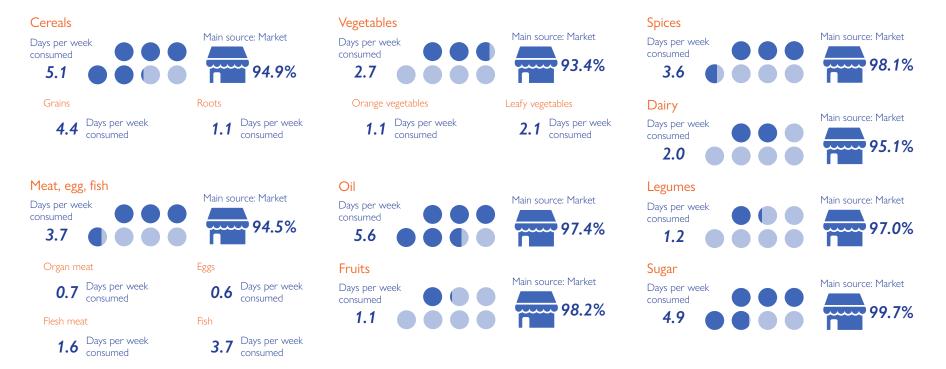


Food Security

On average, households consume oil on 5.6 (\pm 0.2) days, cereals on 5.1 (\pm 0.2) days, sugar on 4.9 (\pm 0.2) days, meat on 3.7 (\pm 0.2) days and spices on 3.6 (\pm 0.2) days per week. All other food groups are consumed less than three days per week. On average, male-headed households consume food groups more frequently than female-headed households. The main source for these foods in the last seven days are markets for the majority of households, with some also relying on their own production or food assistance.

More than two in five households purchase their staple foods from the local market within the neighborhood (44.5% $\pm 4.0\%$), while 18.1 (± 7.5) per cent purchase them from a market in a neighboring location. 23.2 (± 2.8) per cent do not purchase any staple foods at all. Displaced households are significantly more likely to not purchase staple foods (26.8% $\pm 3.8\%$) than host community households (14.1% $\pm 6.8\%$). Of households that buy their staple foods, households spend the most in cash or credit on sorghum (flour or grain; 90.4% $\pm 3.2\%$), fish (36.6% $\pm 5.0\%$) and maize (flour or grain; 30.6% $\pm 4.5\%$).







Coping Strategies

Livelihood-based coping strategies illustrate households' capacity to cope with future shocks and maintain productivity. 71.9 (± 3.8) per cent of households engaged in at least one type of livelihood-based coping strategy in the 30 days prior to the interview. Most report reducing health and education expenses ($44.3\% \pm 4.1\%$), followed by travelling to beg ($43.8\% \pm 4.2\%$) and borrowing money or taking on credit ($43.0\% \pm 4.3\%$) because of a lack of food or money for food. Over half of all households ($53.1\% \pm 4.2\%$) indicate engaging in emergency coping, the most severe category of coping strategies.

Overall, 80.2 (± 3.2) per cent of households report to have used food-based coping strategies during the 12 months prior to the survey. 69.9 (± 3.7) per cent ate less varied foods while 68.2 (± 3.8) per cent had no food to eat of any kind in the house because of a lack of resources to obtain food. Over two in three households (69.7% ± 3.7 %) went to sleep at night hungry because there was not enough food in the past 12 months, of which 82.8 (± 3.5) per cent did so within four weeks prior to the interview. 68.0 (± 3.6) per cent of households went for a whole day and night without eating anything at all because there was not enough food, of which 84.5 (± 3.1) per cent did so within four weeks prior to the interview.

Maximum livelihood-based coping strategy

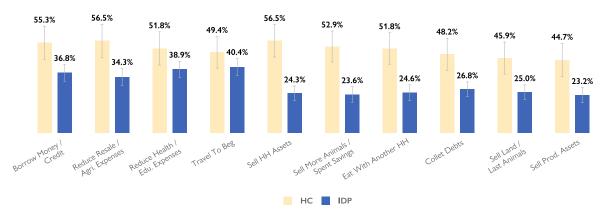


Emergency strategies 53.1%

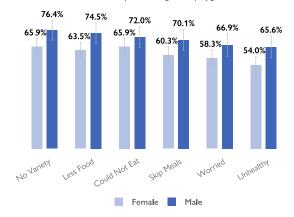
Main food-based coping strategy:

EATING FEWER KINDS OF FOOD

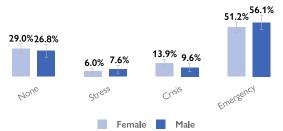
% IDP AND HC HH BY LIVELIHOOD-BASED COPING STRATEGIES IN THE PAST 30 DAYS [N = 409]



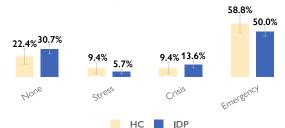
% FEMALE AND MALE-HEADED HH BY FOOD-BASED COPING STRATEGIES IN THE PAST 4 WEEKS [N = 409]



% female and male-headed hh by maximum livelihood-based coping strategies in the past 30 days $\left[N = 409 \right]$



% IDP AND HC HH BY MAXIMUM LIVELIHOOD-BASED COPING STRATEGIES IN THE PAST 30 DAYS [N = 409]



1 Breakdown of livelihood coping strategies by actions taken within 30 days prior to assessment due to a lack of food or money to buy food: Stress coping strategies: sent household members to eat with another household, sold more animals than usual for this time of the year or spent savings, borrowed money or purchased food on credit more than usual during this time of year, sold household assets / goods; Crisis coping strategies: reduced expenses on goods for resale or on business / petty trade or agricultural inputs, reduced expenses on health and education, sold productive assets or means of transport; Emergency coping srategies: sold house or land or sold or slaughtered the last of their cows and goats, traveled back to the village / out of town to look for / search for (begging) food or other resources, used community leaders or local court to collect debts or bride wealth / dowry or engaged in illegal income activities.



Communication and Social Cohesion

Public announcements are the most common main source of information (61.9% $\pm 3.6\%$) followed by word of mouth (19.8% $\pm 3.1\%$). 77.8 (± 3.9) per cent of households have at least one member owning a functioning mobile phone that is reliably charged, with adult women (77.8% $\pm 4.5\%$) and men (74.8% $\pm 4.7\%$) being the most likely owners.

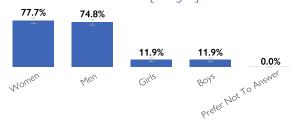
Although only 29.6 (\pm 3.8) per cent of households have members who participate in social groups, the majority (87.0% \pm 2.9%) feels welcomed and accepted in their current community. Indicatively, host community households are less likely to participate in social groups or feel welcome in their community compared to displaced or returned or relocated households. Of the households that participate in social groups, over three in five report that adult women or men are members, while less than ten per cent report that children are members.

Most households report that women are either significantly involved (15.9% $\pm 3.3\%$) or moderately involved (67.7% $\pm 4.3\%$) in community decision-making. 4.2 (± 1.7) per cent state that women never partake in decision-making. There are no significant differences in the perception of the involvement of women in decision-making between female-headed and male-headed households.

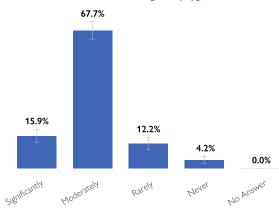
% HH BY MAIN SOURCE OF INFORMATION [N = 409]

Source	%	LL	UL
Public Announcements	61.9%	58.2%	65.5%
Word Of Mouth	19.8%	16.7%	22.9%
Radio	9.3%	6.5%	12.0%
Church Authorities	2.7%	1.1%	4.3%
Community Mobilisers	2.2%	0.8%	3.6%
Local Authorities	1.7%	0.5%	2.9%
Communal Meetings	1.0%	0.0%	1.9%
Television	0.7%	0.0%	1.6%
Online News / Websites	0.5%	0.0%	1.2%
Newspapers	0.2%	0.0%	0.7%

% hh with mobile phones by main owner of functional and charged mobile phone [n = 718]



% HH BY EXTENT TO WHICH WOMEN ARE INVOLVED IN COMMUNITY DECISION-MAKING [N = 409]



% HH BY EXTENT TO WHICH FEEL WELCOMED IN CURRENT COMMUNITY [N = 409]

Feeling integrated	%	LL	UL
A Lot	34.5%	31.2%	37.8%
Moderately	52.6%	48.5%	56.6%
A Little	11.7%	9.0%	14.5%
Not At All	1.2%	0.2%	2.3%
No Answer	0.0%	0.0%	0.0%

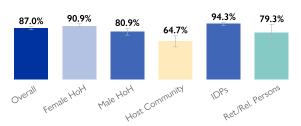
Main source of information



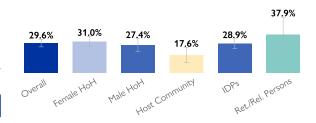
participate in social groups



% SUB-GROUP HH FEELING INTEGRATED AND WELCOME IN CURRENT COMMUNITY



% SUB-GROUP HH INVOLVED IN SOCIAL GROUPS





Protection

Over two in five households ($42.1\% \pm 4.0\%$) state that they are not aware of any protection services in their area.¹ 35.5 (± 4.2) per cent are aware of police services being available while over a quarter of households are aware of GBV services – including health, legal aid, counselling and case management services. However, only few (less than 10%) are aware of any other protection services related to child protection, housing land and property, and others. 7.6 (± 2.1) per cent report to have been affected by a safety or security incident in the past month, with male household members being significantly more likely to be affected than female members.

Households cite criminality, extortion or gang-related violence (27.9% $\pm 3.8\%$), gender-based violence (25.2% $\pm 3.7\%$), and labor exploitation (20.8% $\pm 3.1\%$) as the most serious protection concerns in their community at the time of assessment. While criminality, extortion or gang-related violence are the most reported serious protection concern for sub-groups, female-headed households are more likely list more serious concerns than male-headed households. Notably, female-headed households are also indicatively more likely to report GBV (28.6% $\pm 5.3\%$ vs 19.7% $\pm 5.9\%$ of male HoH) and forced or arranged marriage (14.3% $\pm 4.1\%$ vs 7.0% $\pm 3.9\%$) as serious concerns.

Unaware of available Affected by security incident 7.6%

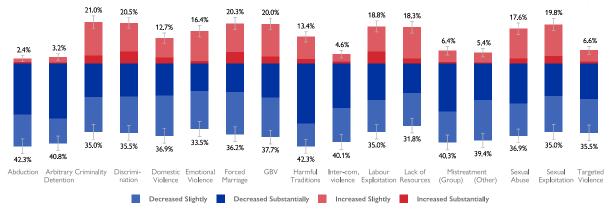
Top three protection issues of serious concern:







% hh by change in likelihood or frequency of protection issues in community over the past six months [n = 409]



% HH WITH TRAVEL OFFER IN THE PAST THREE MONTHS BY MEMBER RECEIVING OFFER [N = 77]

Member	%	LL	UL
Men	60.3%	49.0%	71.5%
Women	38.4%	27.5%	49.2%
Boys	21.9%	12.7%	31.1%
Girls	17.8%	9.2%	26.5%
No Answer	0.0%	0.0%	0.0%

% HH BY AWARENESS OF AVAILABLE PROTECTION SERVICES IN AREA (TOP 5) $\lceil N = 409 \rceil$

Service	%	LL	UL
None	42.1%	38.0%	46.1%
Police	35.5%	31.3%	39.6%
Health Services (GBV)	28.1%	24.2%	32.0%
Legal Aid (GBV)	22.0%	18.7%	25.3%
Counselling (GBV)	20.3%	17.1%	23.5%

% hh by current protection issues that cause serious concern (top 5) [N = 409]

Concern	%	LL	UL
Criminality	27.9%	24.1%	31.6%
GBV	25.2%	21.5%	28.9%
Labor Exploitation	20.8%	17.7%	23.9%
Lack Of Resources	20.3%	17.2%	23.4%
Domestic Violence	19.6%	16.3%	22.8%

% sub-group HH affected by a security incident in the last 70 days

GROUP	N	%	LL	UL
Overall	409	7.6%	5.5%	9.7%
Female HoH	252	8.7%	6.0%	11.5%
Male HoH	157	5.7%	2.1%	9.3%
Host Community	85	1.2%	0.0%	3.5%
IDPs	280	5.0%	2.5%	7.5%
Ret./Rel. Persons	29	13.8%	1.9%	25.7%

¹ This question was posed to all respondents, regardless of potential protection services needs.



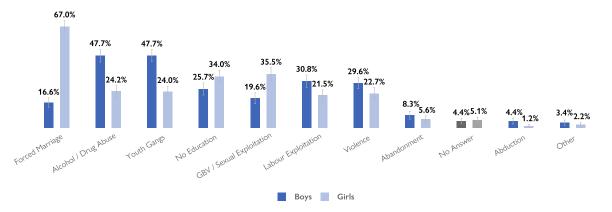
Over half of all households ($52.8\% \pm 3.5\%$) report that there are areas in their location that women and / or girls avoid because they feel unsafe. The main areas avoided are routes for collecting firewood ($31.1\% \pm 3.9\%$), their own homes ($12.2\% \pm 2.1\%$) and water points ($11.2\% \pm 2.5\%$), underlining the challenges women face when conducting daily, essential tasks.

17.1 (±2.9) per cent of households include at least one member who feels distressed to the extent that they have a lot of difficulty to work or perform daily routine activities. Indicatively, female-headed households are more likely to be affected than male-headed households.

There are significant differences between the top risks to girls and boys. Households are more likely to see girls most at risk of forced or arranged marriage (67.0% $\pm 3.9\%$ vs 16.6% $\pm 3.2\%$ for boys), and GBV or sexual exploitation (35.5% $\pm 4.2\%$ vs 19.6% $\pm 3.6\%$ for boys). In contrast, households view boys to be most at risk of involvement in youth gangs (47.7% $\pm 4.0\%$ vs 24.0% $\pm 3.6\%$ for girls) and substance abuse (47.7% $\pm 4.2\%$ vs 24.2% $\pm 3.7\%$).

18.3 (\pm 3.4) per cent of households report seeing behavioral changes in their children during the month before the assessment, with households being equally likely to see these in boys and girls (16.4% \pm 3.3% and 14.9% \pm 3.1%). The most common behavioral changes are more aggressive behavior (5.1% \pm 2.0% for girls and 6.8% \pm 2.3% for boys) and disrespectful behavior (5.9% \pm 2.1% and 5.6% \pm 2.1%).

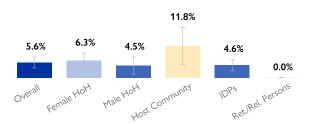
% hh by perceived biggest risks children under 18 are exposed to in community [n = 409]



% hh observing behavioral changes in children in the last month



% SUB-GROUP HH OBSERVING THREE OR MORE BEHAVIORAL CHANGES IN GIRLS IN THE LAST MONTH





Areas avoided include:



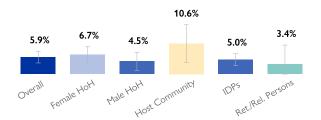








% Sub-group hh observing three or more behavioral changes in boys in the last month



% SUB-GROUP HH WITH HH MEMBERS FEELING DISTRESSED

GROUP	N	%	LL	UL
Overall	409	17.1%	14.2%	20.0%
Female HoH	252	19.8%	15.6%	24.1%
Male HoH	157	12.7%	7.9%	17.6%
Host Community	85	10.6%	4.5%	16.7%
IDPs	280	15.4%	11.8%	18.9%
Ret./Rel. Persons	29	20.7%	6.5%	34.9%



Humanitarian Assistance

During the three months preceding the assessment, 19.1 (± 3.2) per cent of households received some form of humanitarian assistance, most of them receiving general food for all ($44.9\% \pm 10.9\%$) and food for assets ($24.4\% \pm 9.4\%$). 17.8 (± 2.2) per cent report to be dependent on humanitarian services to cover basic needs such as food, WASH, health and education.

Two in three households ($68.2\% \pm 4.1\%$) state that they do not receive adequate information about the different available humanitarian services. Although displaced and returned or relocated households are indicatively less likely to lack this information compared to host community households ($68.6\% \pm 4.9\%$ and $69.0\% \pm 16.7\%$ vs $76.5\% \pm 8.9\%$), the large shares of households not receiving humanitarian assistance and lacking access to information about assistance indicate that many households in need of assistance are not receiving the help they require.

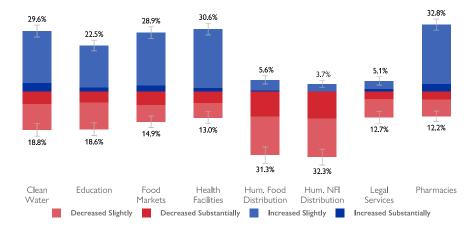
As top priority needs for their household, respondents name food (92.9% \pm 2.4%), shelter or housing (66.3% \pm 3.2%) and healthcare (64.8% \pm 3.8%). Notably, significantly larger proportion of IDP households lists non-food items (NFIs; 14.3% \pm 3.4%) as priority needs compared to host community households who do not mention it at all.

% sub-group hh receiving humanitarian assistance in the past three months

% Sub-group hh dependent on humanitarian services to cover basic needs



% hh by change in ability to access humanitarian or basic services over the past six months [n = 409]



19.1%

received humanitarian assistance in the last 3 mo.

17.8%

are dependent on hum. services to cover basic needs





% hh who have accessed assistance or basic services in the past three months by type [N = 78]

	, -		
Assistance	%	LL	UL
General Food For All	44.9%	34.0%	55.7%
Food For Assets	24.4%	15.0%	33.7%
Food For School Children	23.1%	14.0%	32.1%
WASH Materials	17.9%	10.7%	25.2%
Agricultural Tools	11.5%	4.9%	18.2%
Health / Medicines	10.3%	4.1%	16.4%
Agricultural Inputs	6.4%	1.3%	11.5%
Fishing Gear	6.4%	1.3%	11.5%
Cash For Work / Cash For Training	3.8%	0.0%	8.2%
Other	2.6%	0.0%	6.1%
Unconditional Cash / Voucher Transfer	1.3%	0.0%	3.8%
Household Utensils	1.3%	0.0%	3.8%
Nutrition	0.0%	0.0%	0.0%
School Fees / Uniforms	0.0%	0.0%	0.0%
Shelter Material	0.0%	0.0%	0.0%
No Answer	1.3%	0.0%	3.8%



Urban Vulnerability Index and Intersectoral Analysis

The Urban Vulnerability Index (UVI) uses Principal Component Analysis (PCA) – a dimensionality reduction technique. In this usage, PCA aggregates and simplifies the various component indicators into a single index that reflects the greatest variation in needs and vulnerability. The technique weights more highly indicators for which the data displays greater variance, and weights lower on indicators for which we see little variation. The computed weights of the indicators are used to calculate the vulnerability score of each assessed household, ranging from 0 to 100 (maximum vulnerability).

Overall, the largest proportion of households fall in the fourth range (61% - 80% or high vulnerability) of the UVI (44.7% of HH), followed by the third range (41% - 60% or medium vulnerability; 32.5% of HH). As the population's most vulnerable category, 9.5 per cent of households fall into the highest range (81% - 100% or maximum vulnerability). Comparing different sub-groups, male-headed households tend to score higher on the UVI than female-headed households, with a higher proportion of households falling into high or maximum vulnerability classes (56.7% vs 52.8%). Male-headed households are also more likely to fall into the highest range (10.2% vs 9.1% of female-headed HH). Although these interpretations are only indicative due to the small sample size by population sub-group, the UVI indicates that displaced households fare considerably worse than host community households. Displaced households stand out with over 12.1 per cent in the highest range, compared to the proportion of host community households (2.4%).

UVI Indicators with largest weights:

Sufficent Water

45.3%

Safe & Timely Water

44.7%

Hunger **33.8%**

% HH BY VULNERABILITY INDEX SCORE RANGE (MINIMUM TO MAXIMUM) BY SUB-GROUP

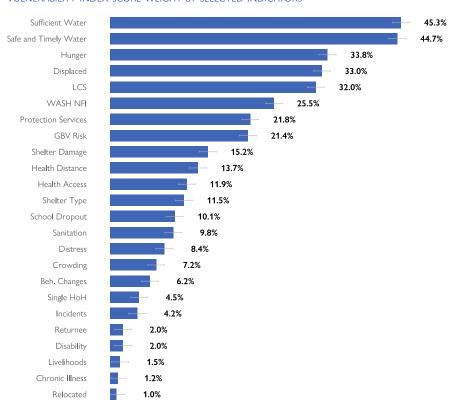






IOM DISPLACEMENT TRACKING MATRIX SOUTH SUDAN

VULNERABILITY INDEX SCORE WEIGHT BY SELECTED INDICATORS



METHODOLOGY ANNEX I: PRINCIPAL COMPONENT ANALYSIS - IMPORTANCE OF COMPONENTS

MEASURE	PC1	PC ₂	PC3	PC ₄	PC ₅	PC6	PC ₇	PC8
Standard deviation	20.988	5.909	5.647	4.711	4.456	4.382	4.097	4.009
Proportion of Variance	0.638	0.051	0.046	0.032	0.029	0.028	0.024	0.023
Cumulative Proportion	0.638	0.688	0.734	0.766	0.795	0.823	0.847	0.870

METHODOLOGY ANNEX II: PRINCIPAL COMPONENT ANALYSIS - INDICATOR DEFINITIONS

Indicator	Score rang
Household Vulnerabilities	
Displaced household	0 - 1
Returned household	0 – 1
Relocated household	0 - 1
Single-headed household or elderly / children-only household	0 - 1
Number of household members with a disability	0 - Inf
Number of household members with a chronic illness	0 - Inf
SNFI	
Shelter damage	0 – 3
Number of persons in most crowded room	1 - Inf
Shelter type	0 - 2
Education	
Number of children in household having dropped out of school	0 - Inf
WASH	
Access to safe and timely water	0 – 1
Access to sufficient water	0 – 1
Access to latrines	0 – 1
Access to WASH NFIs	0 – 1
Health	
Access to health facility when needed	0 – 1
Availability of health facility within 30 min. walking distance	0 – 1
Protection	
Protection services available	0 – 1
Household affected by security incident	0 – 1
Behavioral changes in children observed	0 – 1
Concerns about GBV or sexual exploitation issues	0 – 4
Households with members feeling distressed	0 – 1
Food Security and Livelihoods	
Begging, Kinship or Sale of Aid as main livelihood	0 – 1
Whole day and night spent hungry in last 4 weeks	0 – 1
Livelihood-based Coping Strategy employed	0 – 3

Note: All indicators were demeaned and rescaled before PCA was run.

