Quarterly Food Security Monitoring

Methodology Note

Afghanistan | May 2024

In addition to the NMF, the QFSM will help to delve deeper into the food security pillar of the NMF, in collaboration with WFP. The motivation behind this is to be able to provide more detailed sectoral information to meet individual cluster needs.

Sudden or unexpected need evolution can trigger a rapid assessment (Rapid Food Security Probing – ToR here). This trigger functionality serves as one of the key objectives of the QFSM, and additionally RFSP has the possibility to ground truth QFSM (and NMF) findings. To this end, RFSP is not only to be developed in emergency contexts but to assess QFSM inclusion and exclusion biases.

Background

Considering the high levels of needs amidst limited available resources as well as seasonal and geographic variations affecting Afghanistan, REACH proposes to jointly develop an analytical framework with WFP to monitor food insecurity across the country in near-real time. This will be critical to support a targeted response with subnational prioritization and possibly detect pockets at high risk of deteriorating food security to inform anticipatory action.

As a component of this framework and of broader real-time monitoring activities developed within the Afghanistan context, such as the Needs Monitoring Framework and Shocks Monitoring Index, REACH will develop an analytical framework to allow for a quarterly monitoring of food security outcomes. Leveraging existing data sources, this framework will allow for a quarterly overview of needs, by ranging districts by severity of outcomes and enabling to identify districts whose communities are experiencing a worsening of their food security situation, across the three key dimensions of food security. Eventually and as this analytical framework is rolled-out and perfected, its inclusion as a sectoral component of the multisectoral Needs Monitoring Framework will be considered and discussed with relevant stakeholders such as the Food security cluster.

Key Objective

Develop a framework that will allow for a regular monitoring of food security dimensions leveraging available data sources, to consolidate existing real-time monitoring analysis within WFP and support a more targeted response and area prioritization.

Methodology Overview

The Quarterly Food Security Monitoring will rely on an analytical framework consisting of a collection of indicators from regular (quarterly or monthly) assessments, with corresponding severity thresholds for each indicator from least concerning (1. None/Minimal) to the highest levels of needs (5. Catastrophic). Although the framework will mainly rely on data from REACH's quarterly Humanitarian Situation Monitoring, other data sources may be considered¹, such as market data from the Joint Market Monitoring Initiative (JMMI). Although the district is the primary geographic analysis unit at which the data analysis will be conducted, it may also be replicated at the province level to provide less granular results.

¹ Additional data sources that will be considered include WFP-VAM's Market Bulletin Data, remote-sensing data analyzed by Alcis, as well as community-based early warning signed identified by the Community Driven Development Organization.

Table 1. Overview of the dimensions of food security (as described by the global Food Security Cluster)

Dimension	Description	Drivers
Access	Food access (of households in specific population groups) is the ability of households to regularly acquire adequate amounts of appropriate food for a nutritious diet: physical, financial and social dimensions	 - Physical restrictions to access to resources/food. - Financial limitations to the purchase of food. - Social barriers of groups to access resources/food.
Availability	Food availability is the food [of appropriate quality] that is physically present in the area of concern and expected to become available for use in that area within the period of concern – from domestic production and imports (including direct food distribution through food aid)	 - Agricultural production (crops, livestock, fisheries, aquaculture) and inputs - Rainfall patterns - Internal and external trade flows
Utilization	Food utilization (by households in specific population groups) refers to the use that households make of the food to which they have access and individuals' ability to absorb and metabolize the nutrients and the conversion efficiency of the bod	Factors likely to impact nutrients absorption, such as: - Availability of items to safely store and prepare food. - Consumption of food in sufficient and diverse quantities, breastfeeding - Intra-household food distribution dynamics - Access to clean water, hygiene and sanitation facilities and services - Prevalence of diseases which may limit or prevent the ability to absorb nutritional value - Maternal, infant, young child and adolescent feeding practices - Gender dynamics

From a theoretical perspective, the Quarterly Food Security Monitoring will build upon the three accepted dimensions of food security, as documented by the global food security cluster²: Access, Availability and Utilization³. In addition to this, a fourth dimension will be considered, consisting of Food Consumption and Livelihood change and reflecting the impact of the three former dimensions.

² Food Security Cluster, April 2022, <u>Food Security Dimensions Documents.</u>

³ Although a fourth and cross-cutting dimension, Stability, could also be considered, it was decided not to include it as it is more closely related to exogenous shocks having an impact on the three main dimensions of food security, and can already be considered to be covered by the Shocks Monitoring Index that REACH is developing as part of a collaboration grant with WFP-VAM.

Each indicator added in the framework will be indexed to one of those food security dimensions, and the aggregation of indicator-specific data will assign a single severity for each dimension – allowing for a better overview of key drivers of food security needs in each assessed district.

Aggregation methodology

Throughout the aggregation process, each district will receive a severity from 1. None/Minimal to 5. Catastrophic for each of the four dimensions. An overall food security severity will then be derived from those dimension-specific severities. The overall severity and four dimension-specific severities will be consolidated into a single dataset to allow for comparisons and identification of drivers of food insecurity, and each of them will be mapped individually.

The aggregation methodology draws inspiration from the methodology used in the Joint Intersectoral Analysis Framework (JIAF), as well as the Intergrated Phase Classification (IPC) – acknowledging that adjustments to the original methodology may have to be made depending on the type of data used in the RTM framework (for instance settlement-level data rather than household data) and on the necessity to build indices or severities using data stemming from various assessments.

1. Data preparation

Prior to aggregation, every data point (corresponding to a single interview) will receive a severity for each of the indicators it informs, based on the thresholds outlined in the Analytical framework.

For HSM data, where KIs report on settlements with varying sizes, each interview will be weighted according to its population's relative size compared to the population of all assessed settlements within the district it lies in. For instance, for a settlement with a population of 10 households located in a district where 6 settlements where assessed and the sum of the assessed settlements' population is 50 households will receive a weight of (10/50)/(1/6) = 1.2 - irrespective of the district's overall population.

2. Indicator-level aggregation

Once all data points have received a severity for every relevant indicator, area-level severities for each indicator will be determined based on the 20% of settlements with the most severe needs,⁴ inspired by IPC guidelines.⁵ For instance, a district with 0% of settlements assessed (corresponding to single KI interviews) in severity 4 or 5, 15% in severity 3 and 8% in severity 2 will be receive a severity of 2 for that indicator.

3. Dimension-specific aggregation

Once every area has received a severity for each indicator, severities will be aggregated at the food security dimension level, based on the average severity of all indicators within each dimension.

For the Food Consumption dimension, in the specific case where a settlement combines a severity of 4 for indicators 17, 18 and 19 (indicative of severe hunger, practice of emergency level coping strategies and third-level negative behaviours to cope with lack of food) will receive a severity of 5 for the dimension.

4. Quarterly food security severity

The overall food security severity will consist of the average of all individual indicator severities, weighted so that each dimension has the same weight (0.25) in the overall severity.

Data Analysis Plan

#	Sector	Indicator	Assessment	Granularity	1. None/	2. Stress	3. Severe	4. Extreme	5.
		name	name		Minimal				Catastrophic
1	Food Access	% of	HSM	District	≥70%	40-69%	20-39%	10-19%	<10%
		settlements							
		with access to							
		a functioning							
		market							
2	Food Access	% of	HSM	District	The share of	No criteria	The share of	The share of	No criteria
		settlements			income spent		income spent	income spent	
		where most			on food		on food	on food	
		households			remained		increased	increased	
		experienced			stable or		AND	AND	
		an increase in			decreased		Food	Food	
		the share of					purchases	purchases	
		income spent					was NOT the	was the main	
		on food and					main reason	reason for	
		where food					for	households	
		purchases is					households	taking on	
		the most					taking on	debt	
		common					debt		
		reason for							
		taking on							
		debt							
3	Food Access	% of	HSM	District	Household	No criteria	Household	Household	Typical
		settlements			incomes		incomes	incomes	income
		where			remained the		decreased a	decreased a	sources aren't
		household					little	lot	

		incomes			same or				available
		decreased			increased				anymore
4	Food Access	% of	HSM	District	Almost all /	Many	Some	Few	No
		settlements			all	households	households	households (1	households
		by proportion			households	(51 - 75%)	(26 - 50%)	- 25%)	(0%)
		of			(76 - 100%)				
		households							
		able to access							
		enough food							
		to meet their							
		needs							
5	Food Access	% of	HSM	District	Humanitarian	Humanitarian	Humanitarian	Humanitarian	Humanitarian
		settlements			aid is not a	aid is a	aid is a	aid is a	aid is a
		where			source of	source of	source of	source of	source of
		humanitarian			income	income and	income and	income and	income and
		aid was				has not	has	has	has
		reported as a				changed or	decreased a	decreased a	completely
		primary or				increased	little	lot	stopped
		secondary							
		source of							
		income, and							
		which							
		experienced a							
		decreased in							
		provision of							
		humanitarian							
		aid							

6	Food Access	% of settlements where women lack access to incomegenerating activities	HSM	District	Yes	No criteria	No	No criteria	No criteria
7	Food Access	% of settlements where women have a limited or unsafe access to markets	HSM	District	Alone	When accompanied with either a male relative, female relative, or female friend	When accompanied with either a male relative, female relative, or female friend AND Avoid markets due to safety concerns	Only when accompanied with a male relative	Women not allowed access
8	Food Access	% of settlements where KIs report an increase in staple food prices	HSM	District	No change or decreased	Increased a little	Increased a lot	No criteria	No criteria

9	Food	% of	HSM	District	No	Few	Some	Many	Almost all /
	Availability	settlements			households	households (1	households	households	all
		by proportion			(0%)	- 25%)	(26 - 50%)	(51 - 75%)	households
		of							(76 - 100%)
		households							
		having							
		experienced a							
		decrease in							
		harvesting of							
		HALF or More							
		than half of							
		their							
		production in							
		the last							
		harvest							
		period							
		(among							
		settlement							
		reporting							
		agriculture as							
		a primary or							
		secondary							
		income							
		source) AND							
		% of							
		settlement							
		reporting a							
		decrease in							
		agricultural							
		production							

		by half or more in the last harvest.							
10	Food	% of	HSM	District	No	Few	Some	Many	Almost all /
	Availability	settlements			households	households (1	households	households	all
		by proportion of			(0%)	- 25%)	(26 - 50%)	(51 - 75%)	households
		households							(76 - 100%)
		having							
		experienced a							
		large							
		decrease in							
		the number							
		of livestock							
		owned in the							
		past 3							
		months							
		(among							
		settlement reporting							
		livestock as a							
		primary or							
		secondary							
		income							
		source)							

11	Food	% traders	JMMI	Province	All food	One or two	One food	Two food	Three or four
	Availability	reporting			basket items	food basket	basket	basket items	food basket
		unavailable			are widely	items have	component is	are	items are
		food basket			available	limited	completely	completely	completely
		items in				availability	unavailable	unavailable	unavailable
		markets					OR		
		Food basket					Three to four		
		items include					food basket		
		Wheat flour					items have		
		(local or					limited		
		imported),					availability		
		vegetable oil,							
		pulses (beans,							
		lentils or split							
		peas) and salt							
12	Food	% of	HSM	District	Water comes	No criteria	Water comes	Water comes	Water comes
	Utilization	settlements			from an		from an	from an	directly from
		where the			improved		improved	unimproved	rivers, lakes,
		majority of			source of		source of	water source	ponds
		households			acceptable		acceptable		
		do not have			Sphere		Sphere		
		access to a			standards		standards		
		sufficient			quality AND		quality AND		
		quality and			most		most		
		quantity of			households		households		
		water for			have enough		do NOT have		
		drinking,			water for all		enough water		
		cooking,			uses		for all uses		
		bathing,							
		washing or							

		other domestic use AND % of settlements by main source of drinking water used by most households							
13	Food Utilization	% of settlements by proportion of households with access to functioning hand- washing facilities with water and soap	HSM	District	Almost all / all households (75 - 100%)	Many households (51 - 75%)	Some households (26 - 50%)	Few households (1 - 25%)	No households (0%)
14	Food Utilization	% of settlements where the majority of households lack access to a functional and improved	HSM	District	The majority of households use an improved sanitation facility	No criteria	The majority of households DO NOT use an improved sanitation facility and settlement IS	The majority of households DO NOT use an improved sanitation facility and settlement IS	The majority of households practice open defecation

15	Food	sanitation facility AND % of settlements where most households have official permission to build and/or settle (formal settlement). % of	HSM	District	Most	No criteria	NOT an informal settlement	an informal settlement	No criteria
15	Utilization	settlements where most households lack access to a kitchen set and water storage devices	HSIM	District	households have access to both a kitchen set and water storage containers	No criteria	households have access to either a kitchen set or water storage containers	households lack access to both a kitchen set and water storage containers	No criteria
16	Access to healthcare	% of settlements where most households lack access to functional health facilities	HSM	District	Most households have access to a health center with no or limited systemic issues	No criteria	Most households have access to a health center with significant systemic issues	Most households do not have access to a health center	No criteria

17	Food	% of	HSM	District	No hunger or	Hunger is	Hunger is	Hunger is	No Criteria
	Consumption	settlements			almost no	minor - most	moderate -	severe - most	
		by reported			hunger - the	households	most	households	
		hunger levels			majority of	have only	households	have OFTEN	
		for most			households	RARELY no	have	no access to	
		households			had access to	access to	SOMETIMES	food (during	
					food	food (during	no access to	the last 30	
					everyday over	the last 30	food (during	days, most	
					the last 30	days, most	the last 30	households	
					days	households	days, most	had no access	
						had no access	households	to food	
						to food	had no access	during more	
						during a	to food	than 10 days	
						maximum of	during 3 to	in total)	
						2 days in	10 days in		
						total)	total)		
18	Food	% of	HSM	District	No negative	Stress coping	Crisis coping	Emergency	No criteria
	Consumption	settlements			coping	strategies:	strategies:	coping	
		by type of			strategies	sold	sold income	strategies:	
		Livelihood			adopted	household	generating	begging or	
		coping				assets, spent	equipment,	relying on	
		strategies				savings,	assets or	charity, entire	
		used by				borrowed	means of	hh migration	
		households				food or	transport,	or sold last	
						money to buy	decreased	female	
						food or sold	expenditures	animals	
						more animals	on health,		
						than usual or	education		
						earlier than	etc. or		
						usual	withdrew		

							children from school		
19	Food Consumption	% of settlements with households engaging in negative behaviors due to a lack of food	HSM	District	Not engaging in negative behaviors	Engaging in first-level negative behaviors: - Rely on less preferred and less expensive foods, and/or - Limit portion size at mealtimes, and/or - Reduce number of meals eaten in a day	Engaging in second-level negative behaviors: - Restrict consumption by adults in order for small children to eat	Engaging in third-level negative behaviors: - Skip entire days without eating	No Criteria
20	Coping	% of settlements with households involuntarily	HSM	District	No household involuntarily moved from	Few households (1-25%) involuntarily moved from	Some households (26-50%) or many households	Some households (26-50%) or many households	Almost all / all households (76 - 100%) involuntarily

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	moving due		the	the	(51 - 75%)	(51 - 75%)	moved from	
	to lack of		settlement	settlement	involuntarily	involuntarily	the	
	food				moved from	moved from	settlement	
					the	the		
					settlement	settlement		
					for not	due to lack of		
					related to	food		
					lack of food			