Global Food Security during COVID-19 Epidemic in 2020

Daniel Gustafson

Food and Agriculture Organization of the UN

The Impact of COVID-19 on Food Security and Nutrition in 2020: Making sense of what we know & what we expect when more data are available

- The impact of COVID-19 on Food Security and Nutrition is dramatic
- FSN indicators in 2019 and were already bad, and worsening from 2014
- Understanding the drivers of food insecurity and malnutrition helps understand how COVID-19 has impacted households and overall populations
- Most numbers so far are estimates of what we believe has happened in 2020 (and is happening in 2021).

Outline – The pieces of the puzzle

Indicators of food security and nutrition		Underlying causes of increases hunger and malnutrition		Current estimates + what we expect when final numbers are out	
	2019 Worsening numbers		How COVID-19 and related restrictions make things worse		

The Indicators --- two big divides

Food security (reliable, consistent, healthy, safe food access) versus

Malnutrition (anthropometric indicators, e.g. stunting and wasting)

and

Chronic (think of child stunting, longer-term vulnerabilities) versus

Acute (think of child wasting, the outcomes of crises and emergency situations)

Two main global FAO/UN annual reports:

- *The State of Food Insecurity and Nutrition in the World* (SOFI) <u>chronic</u>, historically mainly on food insecurity, now with much more on nutrition
- *Global Report on Food Crises* (GRFC) <u>acute</u>, both FS and Nutrition





SOFI – Contains two SDG2 food security indicators

Historical series on Prevalence of Undernutrition (POU), number and percentage, by country, dietary energy consumption = calories

- POU calculated about every year for every country, based on parameters that are relatively easy to obtain
- Adjustments to the series made as better information on the parameters is obtained (e.g., a big revision in 2019 based on better estimates on inequality of dietary energy consumption in China)

New Food Insecurity Experience Scale (FIES)

- Based on sampling and interviews regarding people's direct experience in their lives
- Two FIES numbers reported: Severe food insecurity and Moderate and Severe food insecurity

EXPLANATION OF FOOD-INSECURITY SEVERITY LEVELS MEASURED BY THE FIES IN SDG INDICATOR 2.1.2



The prevalence of moderate or severe food insecurity in the population based on the FIES

Global Food Crises Report

- Covers <u>Acute</u> Food Insecurity and Malnutrition
- Includes only <u>Countries in Crisis</u>, number changes from year to year
- <u>Consensus</u> views among multiple agencies on numbers and severity of crises across and within countries
- Based on IPC methodology (Integrated Phase Classification) levels 1-5: 1 - *Minimal*, 2 - *Stressed*, 3 - *Crisis*, 4 - *Emergency*, 5 - *Famine*
- Contains information on Acute Malnutrition (% < 5 children suffering degrees of wasting and other data), among other aspects which determine the classification level
- Aggregate numbers and in-depth discussion for each country included

IPC/CH acute food insecurity phase description and response objectives

Phase	Technical description	Priority response objective	
1 None/Minimal	Households are able to meet essential food and non-food needs without engaging in atypical and unsustainable strategies to access food and income.	Resilience building and disaster risk reduction.	
2 Stressed	Households have minimally adequate food consumption but are unable to afford some essential non-food expenditures without engaging in stress-coping strategies.	Disaster risk reduction and protection of livelihoods.	
3 Crisis	 Households either: Have food consumption gaps that are reflected by high or above-usual acute malnutrition; OR Are marginally able to meet minimum food needs but only by depleting essential livelihood assets or through crisis-coping strategies. 	URGENT ACTION REQUIRED to protect livelihoods and reduce food consumption gaps.	
4 Emergency	 Households either: Have large food consumption gaps which are reflected in very high acute malnutrition and excess mortality; <i>OR</i> Are able to mitigate large food consumption gaps but only by employing emergency livelihood strategies and asset liquidation. 	URGENT ACTION REQUIRED to save lives and livelihoods.	
5 Catastrophe/Famine	Households have an extreme lack of food and/or other basic needs even after full employment of coping strategies. Starvation, death, destitution and extremely critical acute malnutrition levels are evident. (For Famine classification, area needs to have extreme critical levels of acute malnutrition and mortality.)	URGENT ACTION REQUIRED to revert/prevent widespread death and total collapse of livelihoods.	















INTERNATIONAL FOOD POLICY RESEARCH INSTITUTE











for every child





GLOBAL REPORT ON FOOD CRISES 2020 | 1

2019 Numbers, Pre-COVID-19, reported in SOFI 2020

- 690 million people, 8.9% of the global population undernourished (POU) An increase of 10 million since 2018 and +60 million in five years
- FIES indicator 750 million affected by *severe* food insecurity
 2 000 million suffering from *severe or moderate* food insecurity
- 21.3% of children <5 stunted, 144 million; 6.9% were wasted, 47 million;
 5.6% overweight, 38.3 million

THE NUMBER OF UNDERNOURISHED PEOPLE IN THE WORLD CONTINUED TO INCREASE IN 2019. IF RECENT TRENDS ARE NOT REVERSED, THE SDG 2.1 ZERO HUNGER TARGET WILL NOT BE MET



A. NUMBER OF UNDERNOURISHED IN THE WORLD, WITH AND WITHOUT THE REVISION FOR CHINA



SOURCE: FAO.

India SOFI numbers for 2019 (note: not competing with much richer NSSO and hh surveys)

• POU 2004-2006 21.7% 2017-2019 14%

249.4 m 189.2 m

- FIES not reported
- <5 wasting 2019 17.3%
- <5 stunting 2012 47.8 2019 37.4%
- <5 overweight 2012 1.9% 2019 1.6%

Why the Increase in Food Insecurity since 2014? ...Increasing burdens on the most vulnerable

- Weak, stagnant, deteriorating economic conditions = less income, fewer remittances = increasing poverty and undernourishment
 - -- 10% of population remains below poverty line of USD 1.90/day
- Increasing debt burden in poorer economies
- Increasing extreme weather events, altered environments, spread of pests and diseases (e.g., desert locust)
- Growing inequality, uneven benefits of economic growth
- Conflict and violence, displacement of populations (70.8 m) 70% higher in 2018 than in 2010

Most countries where hunger increased in the last few years experienced economic slowdown or downturns – most are middle-income countries





Global Food Crises Report 2020



Numbers in previous years

2016 108M people in 48 countries

2017 124M people in 51 countries 2018 113M people in 53 countries

Numbers of acutely food-insecure people in Crisis or worse (IPC/CH Phase 3 or above)





These were the **10 worst food crises** in 2019 in terms of NUMBERS of people in Crisis or worse (IPC/CH Phase 3 or above)



Number of people (in millions) in Crisis or worse (IPC/CH Phase 3 or above)

Conflict/insecurity was still the main driver of food crises in 2019, but **weather extremes** and **economic shocks** became increasingly significant



Impact of COVID-19 and Lockdown/Restrictions

- Disruption in the food supply chain
- Reduced employment and income
- Reduced remittances
- Price increases and market closure, instability, increased cost of healthy food, impaired access
- Internal migration, spread of the disease, further impacts
- Diminished social services, health care and health services, school feeding, community-led services
- Deterioration of childcare practices due to quarantine, illness, death
- Many others, all increasing vulnerabilities of the most vulnerable

Uneven impact across gender and age groups Lockdowns halted movement of women more than men...

(percentage of people moving)



Sources: Vodafone, and IMF staff calculations.

Note: The sample includes Italy, Portugal, and Spain. The series are residualized with respect to province and day-of-the-week fixed effects. The x-axis is divided into 20 equally sized bins.

The dynamics of COVID-19 that threaten food security and nutrition



Impact of COVID-19: The Current Numbers 1. Chronic food insecurity – SOFI estimates

- A lot will depend on <u>economic growth</u> and increase in poverty any slowing of growth is bad, a <u>negative</u> number is **dramatic**
- The impacts continue into 2021
- The outlook remains uncertain
- Estimates of economic growth continue to be refined, January 2021 IMF estimates of economic growth are better than they looked in October and those were better than April 2020



Food and Agriculture Organization of the United Nations



October 2020, three global growth scenarios, impact on undernourished

COVID-19 pandemic may add between 83 and 132 million people to the total number of undernourished people in the world in 2020

-4.9% GDP decline > 83 million -7% decline > 102 million -10% decline > 132 million



WORLD ECONOMIC OUTLOOK UPDATE JANUARY 2021 GROWTH PROJECTIONS



Current Rough Estimate for 2020 Total Undernourished (POU)

2020 estimated economic decline from 2019 was

-3.5 percent Additional undernourished population of around 75 million people, an increase of 11% attributable to the pandemic.

An important number, but not the complete picture of COVID-19 impacts.

For that we will need FIES results, anthropometric data, new household surveys where available

Impact of COVID-19 (2): <u>Acute food insecurity</u> – IPC/CH latest reports

39 Countries analysed so far, additional 22.4 million people + 21%, IPC Phase 3 or above, with considerable variation due to national context and causes of crises.

If the similar increase applied to all 55 countries, global total would be around **163 million**

				% change	
	Country	2019	2020	in 2020	
				vs. 2019	
1	Afghanistan	11,286,353	13,154,519	17%	
2	Angola	562,000	562,000	0%	
3	Burkina Faso	1,219,079	3,280,800	169%	
4	Cabo Verde	9,871	10,012	1%	
5	Cameroon (7 regions)	1,368,372	2,685,039	96%	
6	Central African Republic	1,809,109	2,362,737	31%	
7	Chad	640,874	1,017,358	59%	
8	Côte d'Ivoire	59,028	229,552	289%	
9	DRC	15,577,676	21,834,713	40%	
10	El Salvador	302,258	684,118	126%	
11	eSwatini	232,373	366,261	58%	
12	Ethiopia	7,966,980	8,609,537	8%	
13	Gambia	187,564	136,586	-27%	
14	Guatemala	3,060,871	3,727,600	22%	
15	Guinea	286,553	267,170	-7%	
16	Guinea-Bissau	131,170	153,132	17%	
17	Haiti	3,673,127	4,101,280	12%	
18	Honduras*	963,908	XX	XX	
19	Kenya	3,096,614	1,883,261	-39%	
20	Lesotho	433,410	582,169	34%	
21	Liberia	41,411	450,736	988%	
22	Madagascar	1,306,975	1,063,000	-19%	
23	Malawi	3,306,405	2,549,703	-23%	
24	Mali	648,330	1,340,741	107%	
25	Mauritania	606,647	609,180	0%	
26	Mozambique	1,689,408	2,674,922	58%	
27	Namibia	429,268	440,610	3%	
28	Niger	1,444,905	2,012,367	39%	
29	Nigeria	4,997,836	9,206,125	84%	
30	Pakistan	3,067,706	1,236,107	-60%	
31	Senegal	359,646	766,725	113%	
32	Sierra Leone	347,934	1,304,985	275%	
33	Somalia	2,094,000	2,100,000	0%	
34	South Sudan	6,956,000	6,480,000	-7%	
35	Sudan	5,852,810	9,578,685	64%	
36	Tanzania	985,267	985,278	0%	
37	Yemen	15,900,000	13,479,500	-15%	
38	Zambia	2,278,098	2,278,098	0%	
39	Zimbabwe	3,580,214	4,341,420	21%	
	Total	108,760,050	131,146,027	21%	

Concluding Thoughts

- The pandemic made the world much more aware of the complexity of food systems (supply chains, institutional segment of the market, importance of school feeding, food sector employment, etc)
- Reinforced the importance of healthy diets and their affordability (far from acceptable)
- Vivid examples of vulnerabilities to adequate food and nutrition and the importance of social safety nets
- Recovery from the pandemic provides an opportunity to put these lessons learned into policy and practice.