

UKRAINE: MASTER DATASET

CODEBOOK V1.2

March 2023



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INTRODUCTION

This document provides the structure for the ACAPS Ukraine Master Dataset. This dataset consolidates key indicators of the Ukraine crisis for the regular comparison and analysis of available data and the tracking of historical data trends and changes in the humanitarian situation.

The dataset puts together a variety of indicators on the Ukrainian situation and a number of pre-existing datasets collected from ACAPS and external sources.

Disclaimer: the first release of the dataset has a set of quantitative indicators. It will be integrated with a qualitative component and modified if necessary, as more data will become available in the next months. This concern may also apply to past entries. Sub-indicator % variation in consumer prices is still under development and subject to modifications, and will be published soon.

Methodology

The core dataset puts together several ACAPS and non-ACAPS datasets, involving several data collection methodologies. ACAPS data collectors, trained on the relevant methodologies and indicators, are monitoring the situation in Ukraine and updating the indicators by inputting data under the correct indicators if applicable. The baseline data period is considered from 1 January to before 24 February 2022, the date of the start of the full-scale invasion. Data collection has been done retroactively to ensure coverage of the dataset since the beginning of the conflict. The data collected aims to cover both admin0 (country) and admin1 (oblast) levels. When this granularity is not available, data is logged at the admin0 level only. After being input, context-aware analysts then review the data under a quality check process, which is then made available through our API. The dataset is also published in CSV format.

The dataset is released monthly, and historical versions are available since January 2022.

API endpoints

To access the dataset from the API, users should subscribe at <http://api.acaps.org>.

The monthly reports are available at this endpoint: '<https://api.acaps.org/api/v1/ukraine/master-dataset/{date}/>'. 'Date' should be formatted as the following example: 'Mar2023' for March 2023.

The qualitative indicators repository is available at this endpoint: '<https://api.acaps.org/api/v1/protection-indicators-monitor/?country=Ukraine>'

Sources

Data is sourced from publicly available information, such as reports from international and local humanitarian organisations, international and local media, social media platforms, UN agencies, and official government websites. Analytical judgement is applied when deciding what data to include in the dataset. Some indicators rely instead on fixed sources, as will be outlined in the indicators list.

Limitations

ACAPS relies on open sources and the expert judgement of trained data collectors in selecting the most reliable sources. ACAPS has an operational presence, but we do not undertake primary data collection exercises, meaning some events might not be recorded. Data collectors have a range of language skills, but linguistic barriers might have prevented ACAPS from identifying all the available information. Considering the diversity and complexity of crises, certain types of events may appear to fall outside of this categorisation. If you identify information gaps or would like to suggest the inclusion of missing information, please contact us at info@acaps.org.

Updated total population data at the admin1 level became available from June 2023. Age and gender segregated data will be updated upon availability, therefore there is discrepancy between the total population and the age and gender population data. Crimea and Sevastopol admin areas have consistent limitations given the unavailability of data. The poverty rate for Ukraine is not logged because of inconsistency between different sources. The returnees tracked by IOM are logged under sub-indicator '# people moving back' because there is no data on whether these returns are sustainable.

Disclaimer: this dataset refrains from using the term 'returnee' to avoid implying that the analysed movements back to places of habitual residence within Ukraine are sustainable or permanent, as there is currently not enough evidence to support this assumption.

Table 2: Analysis framework

ACAPS identified six pillars to track the humanitarian situation in Ukraine over time. Each pillar contains a variety of indicators as outlined below. Please note that the list is not exhaustive and is open to additions.

PILLAR	EXPLANATION
Demography	This pillar provides demographic information on the Ukraine population.
Crisis impact	This pillar covers the scope and scale of the current crisis.
Conflict and areas of conflict	This pillar provides information about the conflict.
Humanitarian context	This pillar provides information on the humanitarian response and access.
Socioeconomic	This pillar provides information on the socioeconomic situation in Ukraine.
Protection	This pillar covers protection indicators.
Information landscape	This pillar covers information landscape indicators.

Dataset structure and indicators

The dataset is structured on monthly releases, where every line is an oblast (admin1) – with the exception of the first line, which is the country level Ukraine (admin0). Every column is one indicator, and it contains figures or are empty, which means no information is available.

Data collection is done at the oblast and country levels. The dataset is released in three components:

- Log, which contains the actual data points
- Quantitative monthly indicators report, which contains the latest value per indicator per month
- Qualitative repository, which contains a repository of thematic qualitative information since September 2022.

Table 1: Structure

VARIABLE NAME	FORMAT	DEFINITION	CODES	TYPE
ID	Numeric	Unique code for every entry	Progressive number	Integer
ISO	Text	Country ISO code		String
Country name	Text	Admin0 name (English standard)		String
Country level	Checkbox	Checkbox marked if the event affects all the admin1 in the country	Checklist	Boolean
Admin1	Text	Admin1 code	List of ADM1 – GADM standards (see annex)	String
Admin1 name	Text	Admin1 name (English standard)	List of ADM1 – GADM standards (see annex)	String
Sub-indicator	List	The list of sub-indicators	List of indicators (see table 3)	String
Indicator	List	The list of indicators	List of sub-indicators (see table 3)	String
Pillar	List	The list of pillars	See indicators list	String
Figure	Numeric	The numeric value of the sub-indicator		Integer/float
Justification	Text	Short narrative description of the sub-indicator figure		String
Source name	Text	Source name		String
Source date	Date	Publication source date	None	DD-MM-YYYY
Data date (if different)	Date	The date relevant to the data in the source, if different than the publication date	None	DD-MM-YYYY
Source link	Text	Source link	None	
_Created	Date	Date of entry	None	DD-MM-YYYY

Table 2: List of quantitative indicators

PILLAR	INDICATORS	SUB-INDICATORS	EXPLANATION	SOURCES	FREQUENCY
Demography	Population	# total population	This is the total (baseline) population in the country. The total population figure does not include population groups abroad (notably refugees), and the number of people moving back from abroad is added to the total population.	Gov't of Ukraine, UNFPA, IOM	Monthly / Quarterly since June 2023
Demography	Population	# female population	This is the total female population in the country before the crisis (baseline).	Gov't of Ukraine, UNFPA	Yearly / Upon availability
Demography	Population	# male population	This is the total male population in the country before the crisis (baseline).	Gov't of Ukraine, UNFPA	Yearly / Upon availability
Demography	Population	# female younger population (0–14 years)	This is the population of girls aged 0–14 in the country before the crisis (baseline).	UNFPA	Yearly / Upon availability
Demography	Population	# male younger population (0–14 years)	This is the population of boys aged 0–14 in the country before the crisis (baseline).	UNFPA	Yearly / Upon availability
Demography	Population	# total younger population (0–14 years)	This is the total population aged 0–14 in the country before the crisis (baseline).	UNFPA	Yearly / Upon availability
Demography	Population	# female older population (60 years and up)	This is the population of women aged 60 and up in the country before the crisis (baseline).	UNFPA	Yearly / Upon availability
Demography	Population	# male older population (60 years and up)	This is the population of men aged 60 and up in the country before the crisis (baseline).	UNFPA	Yearly / Upon availability
Demography	Population	# total older population (60 years and up)	This is the total population aged 60 and up in the country before the crisis (baseline).	UNFPA	Yearly / Upon availability
Crisis impact	Affected groups	# people displaced	This is the total number of people displaced because of the crisis, including refugees, IDPs, people moving back, and migrants (see the INFORM Severity Index methodology).	Multiple	Monthly
Crisis impact	Affected groups	# outgoing refugees since February 2022	This is the total number of Ukrainian refugees recorded across Europe.	UNHCR	Monthly
Crisis impact	Affected groups	# registered IDPs	This is the number of IDPs registered at the Ministry of Social Policy of Ukraine.	Multiple (UNHCR and mainly IOM since Sep 2022)	Monthly
Crisis impact	Affected groups	# people moving back	This is the total number of people moving back to their oblast of origin, from abroad or internally.	IOM	Upon availability
Crisis impact	Affected groups	# people exposed	This is the total number of people exposed to the crisis. The total population is considered exposed. (See the INFORM Severity Index methodology).	Multiple	Upon availability
Crisis impact	Affected groups	# people affected	This is the total number of people affected by the crisis. All people in need are considered affected, until data on the number of affected people is available. (See the INFORM Severity Index methodology).	Multiple	Upon availability
Crisis impact	Affected groups	# people in need	This is the total number of people in need (PIN) of humanitarian assistance.	OCHA	Yearly

Crisis impact	Affected groups	# people in level 1 humanitarian condition	This is calculated according to the INFORM Severity Index methodology.	Multiple	Upon availability
Crisis impact	Affected groups	# people in level 2 humanitarian condition	This is calculated according to the INFORM Severity Index methodology.	Multiple	Upon availability
Crisis impact	Affected groups	# people in level 3 humanitarian condition	This is calculated according to the INFORM Severity Index methodology.	Multiple	Yearly
Crisis impact	Affected groups	# people in level 4 humanitarian condition	This is calculated according to the INFORM Severity Index methodology.	Multiple	Yearly
Crisis impact	Affected groups	# people in level 5 humanitarian condition	This is calculated according to the INFORM Severity Index methodology.	Multiple	Yearly
Conflict and areas of control	Areas of control	# km ² landmass affected	This is the total landmass of Ukraine considered affected by the full-scale Russian invasion, in square kilometres (km ²).	OCHA	Ad hoc
Conflict and areas of control	Areas of control	# km ² controlled by Ukrainian authorities/forces	This is the total landmass controlled by Ukrainian forces in square kilometres (km ²).	ISWN, ISW, Live UA Map	Monthly
Conflict and areas of control	Areas of control	# km ² controlled by Russian forces	This is the total landmass controlled by Russian forces in square kilometres (km ²).	ISWN, ISW, Live UA Map	Monthly
Conflict and areas of control	Areas of control	# km ² unconfirmed control	This is the total landmass of unconfirmed control in square kilometres (km ²).	ISWN, ISW, Live UA Map	Monthly
Conflict and areas of control	Conflict events	# battles	This is the aggregation of the number of battles (see ACLED briefs on review and sourcing).	ACLED	Monthly
Conflict and areas of control	Conflict events	# explosions/remote violence	This is the aggregation of the number of explosions and remote violence incidents (see ACLED briefs on review and sourcing).	ACLED	Monthly
Conflict and areas of control	Conflict events	# violence against civilians	This is the aggregation of violent incidents against civilians during the month (see ACLED briefs on review and sourcing).	ACLED	Monthly
Conflict and areas of control	Conflict events	# fatalities	This is the aggregation of the number of fatalities (see ACLED Fatality Methodology brief and ACLED briefs on review and sourcing).	ACLED	Monthly
Conflict and areas of control	Conflict events	# civilian fatalities	This is the total number of civilian fatalities since the onset of the full-scale Russian invasion on 24 February 2022.	Office of the Prosecutor General of Ukraine	Upon availability
Conflict and areas of control	Conflict events	# civilian injuries	This is the total number of civilian injuries since the onset of the full-scale Russian invasion on 24 February 2022.	Office of the Prosecutor General of Ukraine	Upon availability
Crisis impact	Impact on infrastructure	# total infrastructure damage	This is the aggregation of all infrastructure damage recorded within the month (see the ACAPS Ukraine Hub infrastructure damage dataset).	ACAPS	Monthly
Crisis impact	Impact on infrastructure	# USD cost of damage	This is the cost of infrastructure damage in US dollars.	Kyiv School of Economics	Monthly
Humanitarian context	Access events	# total access events	This is the aggregation of access events tracked within the month (see the ACAPS access events dataset).	ACAPS	Monthly
Humanitarian context	Sectoral needs	# PIN food security and livelihoods	This is the total number of people in need of food security and livelihood assistance.	OCHA	Yearly
Humanitarian context	Sectoral needs	# PIN shelter and NFIs	This is the total number of people in need of shelter and NFIs.	OCHA	Yearly

Humanitarian context	Sectoral needs	# PIN CCCM	This is the total number of people in need of collective shelter assistance.	OCHA	Yearly
Humanitarian context	Sectoral needs	# PIN WASH	This is the total number of people in need of WASH assistance.	OCHA	Yearly
Humanitarian context	Sectoral needs	# PIN health	This is the total number of people in need of health assistance.	OCHA	Yearly
Humanitarian context	Sectoral needs	# PIN protection	This is the total number of people in need of protection assistance.	OCHA	Yearly
Humanitarian context	Sectoral needs	# PIN child protection	This is the total number of children in need of protection.	OCHA	Yearly
Humanitarian context	Sectoral needs	# PIN gender-based violence	This is the total number of people in need of protection assistance related to gender-based violence.	OCHA	Yearly
Humanitarian context	Sectoral needs	# PIN education	This is the total number of children in need of education assistance.	OCHA	Yearly
Humanitarian context	Sectoral needs	# PIN mine action	This is the total number of people in need of assistance related to mine action.	OCHA	Yearly
Humanitarian context	Sectoral needs	# PIN cash assistance	This is the total number of people in need of cash assistance.	OCHA	Yearly
Socioeconomic	Economy	# USD GDP per capita	This is Ukraine's gross domestic product (GDP) per capita in US dollars.	The World Bank	Upon availability
Socioeconomic	Economy	Poverty rate	The ratio of the number of people below the poverty line according to the World Bank.	The World Bank	Yearly
Socioeconomic	Economy	% inflation rate	This is the inflation rate in Ukraine.	National Bank of Ukraine	Monthly
Socioeconomic	Economy	# unemployed people	This is the number of officially registered unemployed people in Ukraine.	State Employment Service	Monthly
Socioeconomic	Economy	Consumer price index	This is the national consumer price index. 2010 is considered as reference (100).	State Employment Service	Monthly
Socioeconomic	Economy	% variation in raw food prices	This is the year-on-year percentage of increase in raw food prices.	National Bank of Ukraine	Monthly
Socioeconomic	Economy	% variation in administered prices	This is the year-on-year percentage of increase in the prices of products administered by the Government of Ukraine.	National Bank of Ukraine	Monthly
Socioeconomic	Economy	% variation in fuel prices	This is the year-on-year percentage of increase in fuel prices.	National Bank of Ukraine	Monthly
Socioeconomic	Economy	# USD cost of reconstruction and recovery	This is the total cost of reconstruction and recovery needed for Ukraine in US dollars.	The World Bank	Yearly
Socioeconomic	Economy	# EUR currency value	This is the value of Ukraine's hryvnia currency (UAH) in Euro.	National Bank of Ukraine	Yearly (for 2021 and 2022); monthly since 2023
Socioeconomic	Economy	# USD currency value	This is the value of Ukraine's hryvnia currency (UAH) in US dollars.	National Bank of Ukraine	Yearly (for 2021 and 2022); monthly since 2023
Socioeconomic	Social protection	# USD in minimum wage	This is the minimum legal wage (income) in Ukraine.	Gov't of Ukraine	Yearly
Socioeconomic	Social protection	# USD in minimum pension	This is the minimum retirement pension in Ukraine.	Gov't of Ukraine	Yearly
Socioeconomic	Social protection	# USD in living wage	This is the living wage in Ukraine in US dollars (minimum income to meet basic needs).	Gov't of Ukraine	Yearly

Table 3: List of qualitative indicators

PILLAR	INDICATORS	SUB-INDICATORS	EXPLANATION	SOURCE	FREQUENCY
Protection	Protection	List of 21 indicators in the ACAPS Protection Indicators Monitor dataset codebook	The explanation of each indicator is in the ACAPS Protection Indicators Monitor dataset codebook.	Multiple	Active
Information landscape	Information disorders	Disinformation	The explanation of each indicator is in the ACAPS Information Landscape Dataset codebook.	Multiple	Active
Information landscape	Information disorders	Misinformation	The explanation of each indicator is in the ACAPS Information Landscape Dataset codebook.	Multiple	Active
Information landscape	Information disorders	Malinformation	The explanation of each indicator is in the ACAPS Information Landscape Dataset codebook.	Multiple	Active
Information landscape	Access to information	Telecommunications infrastructures damage or limitations	The explanation of each indicator is in the ACAPS Information Landscape Dataset codebook.	Multiple	Active
Information landscape	Access to information	Accessible, safe and accurate information	The explanation of each indicator is in the ACAPS Information Landscape Dataset codebook.	Multiple	Active
Information landscape	Access to information	Trust in information	The explanation of each indicator is in the ACAPS Information Landscape Dataset codebook.	Multiple	Active
Information landscape	Access to information	Information literacy	The explanation of each indicator is in the ACAPS Information Landscape Dataset codebook.	Multiple	Active
Information landscape	Access to information	Digital literacy	The explanation of each indicator is in the ACAPS Information Landscape Dataset codebook.	Multiple	Active
Information landscape	Vulnerability of specific groups within the context / safety and dignity of people accessing information	Stigma trends	The explanation of each indicator is in the ACAPS Information Landscape Dataset codebook.	Multiple	Active
Information landscape	Vulnerability of specific groups within the context / safety and dignity of people accessing information	Hate-speech	The explanation of each indicator is in the ACAPS Information Landscape Dataset codebook.	Multiple	Active
Information landscape	Information freedom and security	Journalist safety	The explanation of each indicator is in the ACAPS Information Landscape Dataset codebook.	Multiple	Active
Information landscape	Information freedom and security	Censorship and self-censorship	The explanation of each indicator is in the ACAPS Information Landscape Dataset codebook.	Multiple	Active
Information landscape	Information freedom and security	Digital security	The explanation of each indicator is in the ACAPS Information Landscape Dataset codebook.	Multiple	Active
Information landscape	Information freedom and security	Deliberate communication shutdown / restrictions from entities with malicious intentions	The explanation of each indicator is in the ACAPS Information Landscape Dataset codebook.	Multiple	Active

Table 4: Admin areas

ADM1 – GADM	ADMIN1 NAME	ADMIN1 PCODE
UKR.4_1	Autonomous Republic of Crimea	UA01
UKR.24_1	Vinnytska	UA05
UKR.25_1	Volynska	UA07
UKR.5_1	Dnipropetrovska	UA12
UKR.6_1	Donetska	UA14
UKR.27_1	Zhytomyrska	UA18
UKR.23_1	Zakarpatska	UA21
UKR.26_1	Zaporizka	UA23
UKR.7_1	Ivano-Frankivska	UA26
UKR.12_1	Kyivska	UA32
UKR.13_1	Kirovohradska	UA35
UKR.15_1	Luhanska	UA44
UKR.14_1	Lvivska	UA46
UKR.16_1	Mykolaivska	UA48
UKR.17_1	Odeska	UA51
UKR.18_1	Poltavska	UA53
UKR.19_1	Rivnenska	UA56
UKR.21_1	Sumska	UA59
UKR.22_1	Ternopilska	UA61
UKR.8_1	Kharkivska	UA63
UKR.9_1	Khersonska	UA65
UKR.10_1	Khmelnyska	UA68
UKR.1_1	Cherkaska	UA71
UKR.3_1	Chernivetska	UA73
UKR.2_1	Chernihivska	UA74
UKR.11_1	Kyiv city	UA80