NMDS format for First Waterbody Census

Item No	Concept name	Definition	Guidelines
1	**Contact**		
1.1	Contact Organisation	Organisation of the contact point(s) for the data or metadata.	Department of Water Resources, RD & GR. Ministry of Jal Shakti
1.2	Compiling agency	Organisation collecting and/or elaborating the data being reported	Minor Irrigation Statistics Wing, Department of Water Resources, RD & GR, Ministry of Jal Shakti
1.3	Custodian agency	Refers to an institution or agency which has responsibility of managing use, disclosure and protection of data/statistics.	Minor Irrigation Statistics Wing, Department of Water Resources, RD & GR, Ministry of Jal Shakti
1.4	Contact Details	The details of the contact points for the data or metadata.	Deputy Director General, Minor Irrigation Statistics Wing, Department of Water Resources, RD & GR, Ministry of Jal Shakti Phone:011-24699496, Email: priyanka.kulshreshtha@nic.in NIC, Department of Water Resources, RD & GR, Ministry of Jal Shakti
2	**Data Description and Presentation**	**Description of the disseminated data which can be displayed to users as tables, graphs or maps**	
		Metadata element describing the main characteris	Waterbody Census broadly covers all natural or man-made units bounded on all sides with some or no masonry work used for storing water for irrigation or other purposes (e.g. industrial, pisciculture, domestic/

2.1	Data description	tics of the Data Set in an easily understandable manner, referring to the main data and indicators disseminated.	drinking, recreation, religious, ground water recharge etc.) will be treated as water bodies. If the waterbody is used for irrigation purpose, then comprehensive information relating to Culturable Command Area (CCA), Irrigation Potential Created (IPC), Water spread, Storage Capacity etc are collected.
2.2	System of Classification	Arrangement or division of objects into groups based on characteristics which the objects have in common	Village/block level/district/state wise data Rural/Urban wise data
2.3	International/ National Standards Classification etc.	An international statistical standard is an internationally agreed statistical macro-socio-economic output framework or a cross-functional framework. International/ National standard classification, is the primary tool for collecting and presenting internationally/nationally comparable statistics by economic activity.	NA
2.4	Sector coverage	Description of sectors covered by the statistics.	All natural or man-made units bounded on all sides with some or no masonry work used for storing water for irrigation or other purposes (e.g. industrial, pisciculture, domestic/drinking, recreation, religious, ground water recharge etc.) will be treated as water bodies All Water bodies are covered in this Censu

			s irrespective of their uses, whether for irri gation or other purposes (e.g. industrial, pi sciculture, domestic/ drinking, recreation, r eligious, ground water recharge etc.
2.5	Concepts a nd definition s	Characteristics of statistical obs ervations, or vari ables used	If the waterbody is used for irrigation purpo se, then comprehensive information relatin g to Culturable Command Area (CCA), Irrig ation Potential Created (IPC) etc are collec ted.
2.6	Unit of com pilation	Entity for which i nformation is so ught and for whi ch statistics are ultimately compi led.	The primary unit of enumeration in the survey is a waterbody
2.7	Population coverage	Definition of the main types of po pulation covered by the statistics or variables	The frame consists of all waterbodies existi ng in the State/UT
2.8	Reference Period	Timespan or poi nt in time to whi ch the measure d observation is intended to refer .	Reference period for 1st Census of Waterb odies was 2017-18 agricultural year.
2.9	Duration an d period of enumeratio n	Duration of enu meration refers t o the time taken to conduct the e numeration proc ess of all nature.	The enumeration period was 2019-2022
2.10	Sample siz e/Dataset S ize	Sample size is t he number of ob servations or ind ividuals included in a study or exp eriment.	Complete enumeration was adopted in 1st Waterbody census to cover all waterbodies exiting in states/UTs
2.11	Data Confid entiality	Rules applied fo r treating the dat asets to ensure statistical confid entiality and pre vent unauthorise d disclosure.	The data does not contain any confidential information.
		Law, set of rules or other formal set of instructions assi	

3	**Institutional Mandate**	**gning responsibility as well as the authority to an organisation for the collection, processing, and dissemination of statistics**	
3.1	Legal acts and other agreements	Legal acts or other formal or informal agreements that assign responsibility as well as the authority to an Agency for the collection, processing, and dissemination of statistics.	No Act/Rules
3.2	Data sharing/Data Dissemination	Exchange of data and/or metadata in a situation involving the use of open, freely available data formats and where process patterns are known and standard. Regular or *ad hoc* publications in which the data are made available to the public.	1. Unit level data through OGD Platform https://www.data.gov.in/catalog/first-census-water-bodies-data 2. Reports and tables through MI Census Website of the Ministry https://mowr.nic.in/irrigationcensus/
3.3	Release calendar	Schedule of release dates.	As per the target date fixed by the Ministry
3.4	Frequency of dissemination	The time interval at which the statistics are disseminated over a given time period.	Five yearly
3.5	Data acces	The conditions and modalities by which users can access, use and interpret data. Statistics should be easy to find and obtain, prese	Data on 1st Census of waterbodies is available in the OGD platform. https://www.data.gov.in/catalog/first-census-water-bodies-data For easy access of users, following details should also be mentioned about the dataset: **Title: First Census of Water Bodies Data** **Dataset Edition:** Final

	s	nted clearly and in a way that can be understood, and available and accessible to all users in line with open data standards.	**Dataset Reference data type:** Unit level data of 1st census of waterbodies can be downloaded/exported to different format as per the standard statistical software available such as .csv, .xml, .xls. .ODS etc. **Presentation Format:** Unit level data as per specified data structure **Dataset Language:** English **Status/Version:** NA
4	**Quality Management**	**Systems and frameworks in place within an organisation to manage the quality of statistical products and processes.**	
4.1	Documentation on methodology	Descriptive text and references to methodological documents available.	Concepts, definitions and methodologies adopted for 1st Waterbody Census are available in the published Reports. Published reports may be seen at the following link: https://mowr.nic.in/irrigationcensus/
4.2	Quality documentation	Documentation on procedures applied for quality management and quality assessment.	To ensure quality, monitoring is ensured at each step the of survey including field inspection, scrutiny, validation, checking for consistency of the tables, etc.
4.3	Quality assurance	Guidelines focusing on quality in general and dealing with quality of statistical programmes, including measures for ensuring the efficient use of resources.	Regional training workshops on concepts, definitions, data entry in the module etc. are provided to the States/UTs for data processing. Number of validation check points have been embedded data entry/compilation stage to ensure data quality. Apart from that, multi-layer scrutiny is carried out at different levels in the State Government for ensuring data quality. The precision of capturing Lat/Long is subject to the GPS capabilities of the smartphone based on software and hardware and other conditions including satellite visibility, obstructions (canopy) and weather conditions.
5	**Accuracy and Reliability**	**Statistics should accurately and reliably portray reality. Accuracy of data is the closeness of computations or estimates to the exact or true values that the statistics were intended to measure. Reliability of the data, defined as the closeness of the initial estimated value to the su**	

		bsequent estimated value.	
5.1	Sampling error	That part of the difference between a population value and an estimate thereof, derived from a random sample, which is due to the fact that only a subset of the population is enumerated.	Not applicable
5.2	Measures of reliability	Reliability refers to the consistency of a measure.	Not applicable
6	**Timeliness**	**Statistics should be made available to users with the shortest delay possible and be delivered on the promised, advertised or announced dates. The timeliness of the data collection release to be compiled.**	
6.1	Timeliness	Length of time between data availability and the event or phenomenon they describe.	Data collection period: 2019-22 Data Validation Period:2019-22 Release of data /report period: Jan 2023
7	**Coherence and Comparability**	**Coherence is the degree to which data that are derived from different sources or methods, but refer to the same topic, are similar. Comparability is the degree to which data can be compared over time and domain**	
7.1	Comparability – over	Extent to which differences between statistics can be attributed to differences	Data on 1st Census of waterbodies are broadly comparable over time.

	time	between the true values of the statistical characteristics.	
7.2	Coherence	Extent to which statistics are reconcilable with those obtained through other Data Sources or statistical domains.	Not applicable
8	**Data Processing**	**Any processing undertaken to finalise the data**	
8.1	Source data type	Characteristics and components of the raw statistical data used for compiling statistical aggregates.	Census data
8.2	Frequency of data collection	Time interval at which the source data are collected.	Five yearly
8.3	Mode and method of data collection	The different combinations of data collection modes, pre-contact and follow-up modes. Method applied for gathering data for official statistics	1st Census of waterbodies through a detailed questionnaire The questionnaire can be accessed at https://mowr.nic.in/irrigationcensus/sites/default/files/1st%20WB%20Schedule%20English.pdf

8.4	Data validation	Process of monitoring the results of data compilation and ensuring the quality of the statistical results.	Content checks, coverage checks, inter block and intra block consistency checks, howler checks, etc. are done at data entry and tabulation stage. Aggregate output data are compared with previous years' data.
8.5	Data compilation	Operations performed on data to derive new information according to a given set of rules.	No applicable
8.6	Data identifier(s)	The unique identifier for an administered item within a registration authority.	There is a unique identifier for waterbodies in 1st Census of waterbodies. State/District/Tehsil/Block/Village/serial number of WB/Lat/Long* Note: *Specific location identification of the waterbody may be done using the above unique ID

9	**Metadata Update**	**The date on which the metadata element was inserted or modified in the database.**	
9.1	Metadata last posted	Date of the latest dissemination of the metadata	19.01.2024
9.2	Metadata last update	Date of last update of the content of the metadata.	19.01.2024