



DEPARTMENT OF PUBLIC WORKS AND HIGHWAYS

Performance Governance System

Measure Profile



MEASURE

F11

What is the measure?

Number of flood-protected population due to the completed flood control projects under 18 major river basins based on Master Plan/Feasibility Study (MP/FS)

What strategic objective is the measure aligned?

Lives and properties protected from natural disasters

What is the rationale behind the measure?

This department-level outcome measure is an indicator on the effectiveness of the completed flood control projects in mitigating flood damages in the affected areas and basis for the project benefits/impacts.

How is the measure calculated? Clarify the terms in the formula

Total number of populations protected against flooding due to the completed flood control projects under the identified 18 major river basins based on the MP/FS. The flood simulation analyses are executed around target stretch at 2-, 5-, 10-, 20, 30-, 50-, 100-year return period with / without Project and the inundation maps are developed. Based on the flood simulation maps and GIS Data, the houses / residential structures in inundation areas are counted. The populations protected by the Project are differences between those who are in the inundation areas with and without the project.

How often is the measure updated/calculated? Indicate policy/law that is applicable.

Annually and after the events of large-scaled floodings

What is the unit?

Numerical Count

What data is required in calculating the measure?

Inundation areas within the river basins, Statistical data of number of households/populations affected by flooding, and GIS Data based on the detailed Census Surveys and Topo Surveys from the Feasibility Study

Where/how will it be acquired?

Project Situational Report submitted by the Project Engineers/Regional Offices/District Offices, Rapid Damage Assessment and Needs Analysis (RDANA) by Office of Civil Defense (OCD), Situational Report by Local Disaster Risk Reduction Management Office (LDRRMO)/Regional Disaster Risk Reduction Management Office (RDRRMO)/National Disaster Risk Reduction Management Council (NDRRMC), and Data Development Companies for GIS Data

Indicate policy/law that is applicable.

Republic Act 10121 of 2010, An Act Strengthening the Philippine Disaster Risk Reduction and Management System.....", Department Order No. 23 series of 2015 - Flood Control and Drainage/Slope Protection Projects Policies, Department Order No. 47 series of 2022 - Guidelines on the Conduct of Feasibility Studies for Roads, Bridge, Flood Control, Drainage and Other Water-Related Projects, Department Order No. 27 series of 2023 - DPWH Disaster and Incident Management Operations Manual (or most current versions), Design Guidelines, Criteria & Standards, Volume 3 Water Engineering Projects 2015, and PD 1067 (the Water Code of the Philippines) and Its Amended Implementing Rules and Regulations (2005)"

What is the basis in setting the targets?

Feasibility Studies/Project Impact Analysis (PIA)/Priority Infrastructure Flagship Programs (IFPs)/Public Investment Program (PIP)

Who is accountable for the targets?

UPMO-Flood Control Management Cluster

Who is responsible for tracking and reporting the annual accomplishments?

UPMO-Flood Control Management Cluster

Baseline	TARGET ¹					
	2023	2024	2025	2026	2027	2028
26,700	+342,970	+956,680	+0	+0	+20,310	+759,270
	<u>369,670</u>	<u>1,326,350</u>	<u>1,326,350</u>	<u>1,326,350</u>	<u>1,346,660</u>	<u>2,105,930</u>
	2,105,930	2,105,930	2,105,930	2,105,930	2,105,930	2,105,930

¹See attached Yearly Breakdown of Targets



Yearly Breakdown of Targets

Measure F11: Number of flood-protected population due to the completed flood control projects under 18 major river basins based on Master Plan/Feasibility Study (MP/FS) □

Name of Project and/or other details of target	Unit of Measurement	Implementing Office	Target					
			2023	2024	2025	2026	2027	2028
Flood Risk Improvement and Management Project for Cagayan de Oro River (FRIMP-CDOR), JICA, PH-259	Population	UPMO-FCMC	249,870	-	-	-	-	-
Integrated Disaster Risk Reduction and Climate Change Adaptation (IDRR-CCA) Measures in the Low-lying Areas of Pampanga Bay Project Stage II	Population	UPMO-FCMC	40,270	-	-	-	-	-
Pasig-Marikina River Channel Improvement Project, Phase V	Population	UPMO-FCMC	2,000	-	-	-	-	-
Construction of Flood Control Structure along Abra River, Mun. of Bucay, Langiden, Tayum, Sallapadan, Lagangilang, Manabo and La Paz, Abra	Population	UPMO-FCMC	24,150	-	-	-	-	-

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Name of Project and/or other details of target	Unit of Measurement	Implementing Office	Target					
			2023	2024	2025	2026	2027	2028
Agno River Basin Flood Control Project (Phase III)- Construction of Dike with protection works using Gabions and Matressses along a) Sta. Maria-Asingan, Sta. 24+600 to Sta. 28+600, Pangasinan; b) Asingan-Tayug, Sta. 29+776-Sta. 30 +900 and Sta. 33+840-Sta. 36+940, Pangasinan: and San Manuel, Sta. 36+940-Sta. 40+730, Pangasinan	Population	UPMO-FCMC	26,680	-	-	-	-	-
Metro Manila Flood Management Project, Phase I	Population	UPMO-FCMC	-	956,680	-	-	-	-
Cavite Industrial Area Flood Risk Management Project, JICA, PH-P265	Population	UPMO-FCMC	-	-	-	-	20,310	-
Pasig-Marikina River Channel Improvement Project, Phase IV, JICA, PH-P271	Population	UPMO-FCMC	-	-	-	-	-	719,000
Integrated Flood Resilience and Adaptation 1 (InFRA 1) Project, Abra River Basin Flood Control Project	Population	UPMO-FCMC	-	-	-	-	-	14,696

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Name of Project and/or other details of target	Unit of Measurement	Implementing Office	Target					
			2023	2024	2025	2026	2027	2028
Integrated Flood Resilience and Adaptation 1 (InFRA 1) Project, Tagum-Libuganon River Basin Flood Control Project	Population	UPMO-FCMC	-	-	-	-	-	11,450
Integrated Flood Resilience and Adaptation 1 (InFRA 1) Project, Ranao (Agus) River Basin Flood Control Project	Population	UPMO-FCMC	-	-	-	-	-	14,124
TOTAL			342,970	956,680	-	-	20,310	759,270