



MINISTRY OF ECONOMY
DEPARTMENT OF STATISTICS MALAYSIA

22nd MEETING OF THE TECHNICAL WORKING GROUP (TWG) ON DISASTER-RELATED STATISTICS

IMPACT OF FLOODS IN MALAYSIA 2022: MALAYSIA'S EXPERIENCE

DEPARTMENT OF STATISTICS, MALAYSIA
31 MAY 2023 (WEDNESDAY) | 3.00 – 4.30 PM (MYT)



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1. Introduction
2. Governance
3. Objective & Methodology of the Survey
4. Finding
5. Moving Forward





1. INTRODUCTION



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1. INTRODUCTION



1

Mandate:

- DOSM was mandated to assess the lost due to flood by the Minister in the Prime Minister's Department (Economy) in December 2021.
- Persistent torrential rainfall in middle of December 2021 have caused exceptional floods in the Klang Valley, southern Malaysia, the east coast, Sabah and Sarawak.

2

First Report:

- Special Report on the Impact of Floods in Malaysia in 2021.
- The survey is carried out for the following years.



2. GOVERNANCE



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National Disaster Management Committee

1 Chaired by Deputy Prime Minister of Malaysia

2 DOSM was appointed to the committee in 2022.

3 To present the Special report on flood losses in Malaysia



3. OBJECTIVE & METHODOLOGY



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3. SURVEY OBJECTIVE & SCOPE



Survey objective: estimate the loss and damage due to the flood disaster that hit the country

Scope of evaluation:

- i. living quarters ; 
 - ii. vehicles; 
 - iii. business premises; 
 - iv. manufacturing industries; 
 - v. agriculture; and 
 - vi. public assets and infrastructure 
- DOSM
→ DOSM
→ DOSM
→ DOSM
→ MAFS
→ PWD & DID



3. STUDY BY DOSM: METHODOLOGY



1 ▶

2 sets of questionnaire:

- a. Set 1 (living quarters & vehicles)
- b. Set 2 (business premises)

2 ▶

Study period:

- a. Nov. 2021 – 7 Jan. 2022 (for 2021 report)
- b. 8 Jan. 2022 – Dis. 2022 (for 2022 report)

3 ▶

Data collection:

- a. Throughout the year after the flood disaster
- b. Data collected by state offices

4 ▶

Coverage:

All localities affected by floods

5 ▶

Using administrative data:

- a. Number of victims in Temporary Relocation Center (source: NADMA); and
- b. Newspaper reports.



3. DEFINITION OF LOSSES



DOSM

- a. Living quarters: the cost of structural damage to living quarters including property such as furniture, electrical appliances and others
- b. Vehicles: cost of vehicle repairs
- c. Business premises: value of loss of income, stock of goods, damage to business premises including equipment/furniture.
- d. Manufacturing sector: loss of sales revenue



3. DEFINITION OF LOSSES (CONT'D.)



PWD and DID

Infrastructure & public assets: road and slope repair costs, drainage/ditching, roads and bridges, sewers, shorelines (erosion), riverbanks, pump houses and hydrological stations.

MAFS

Agricultural sector : assessment of agri-food losses by agencies based on land area, types of crops and livestock, crop period, age of livestock and damage to fishing boats, nets, engines etc.



4. FINDINGS





Highlight main findings 2022

- The amount of loss and the number of living quarters, vehicles and business premises affected by floods in 2022 was lower than 2021.
- Number of states and districts experiencing floods was higher in 2022.



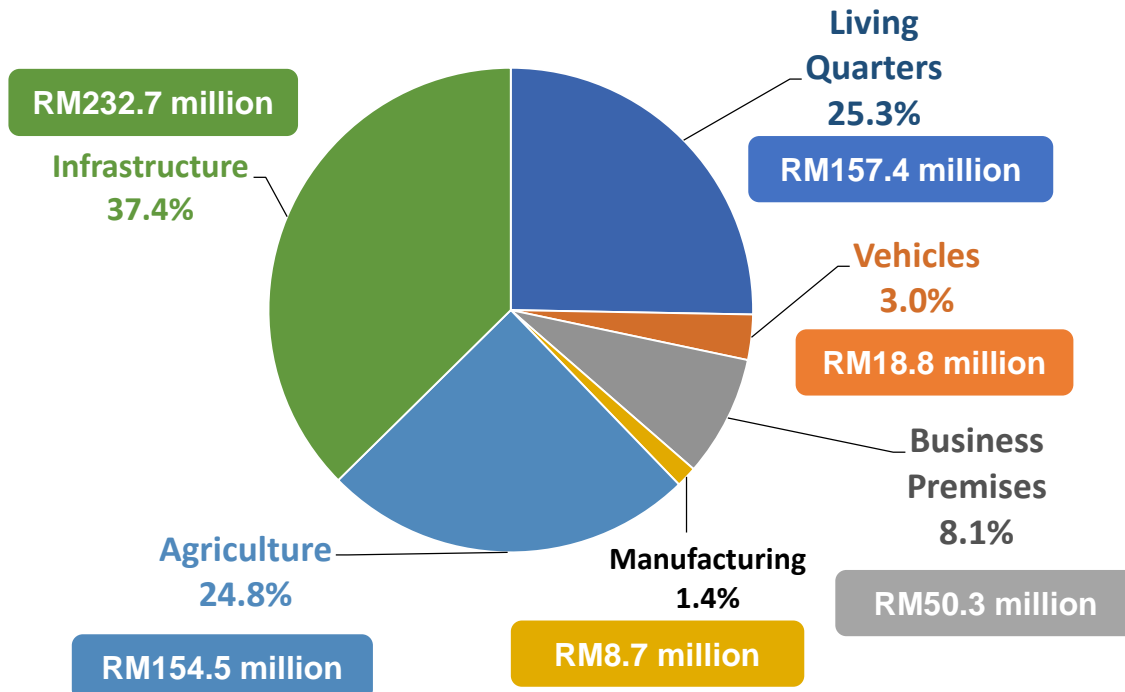


4. COMPARISON OF FLOOD LOSSES IN MALAYSIA



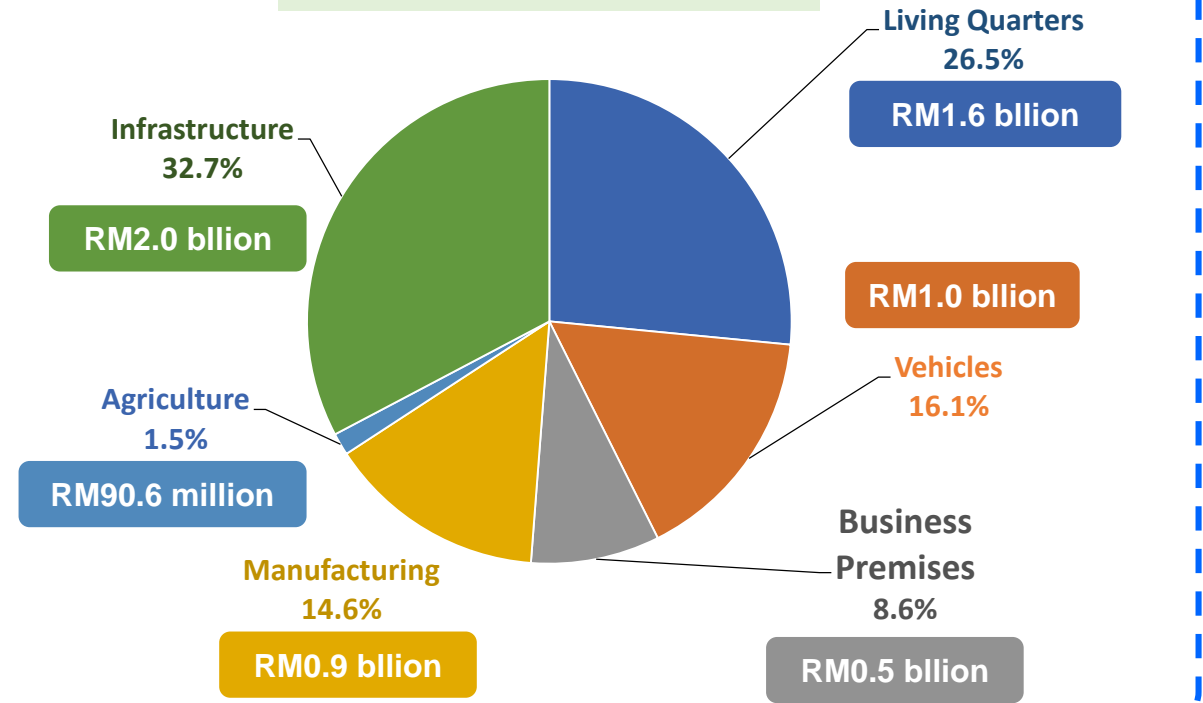
Total Losses due to Floods in Malaysia 2022

Total Losses: RM622.4 million



Total Losses due to Floods in Malaysia 2021

Total Losses: RM6.1 billion



Note. The figures displayed are for statistical purposes only



4. TOTAL LOSS BY CATEGORY

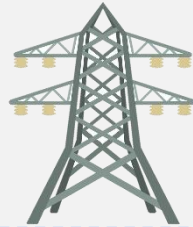


2022: RM622.4 mil

2021: RM6,112.4 mil

Value of loss
by type/
category

***Public asset and infrastructure**



2022 : RM232.7 mil
2021 : RM2,000.0 mil

Living quarters



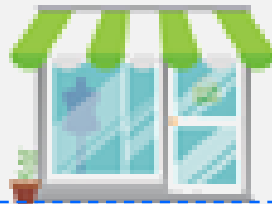
2022 : RM157.4 mil
2021 : RM1,622.0 mil

****Agriculture sector**



2022 : RM154.5 mil
2021 : RM90.6 mil

Business premises



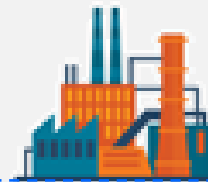
2022 : RM50.3 mil
2021 : RM525.8 mil

Vehicle



2022 : RM18.8 mil
2021 : RM982.8 mil

Manufacturing sector



2022 : RM8.6 mil
2021 : RM891.4 mil

Note.

* Source: Malaysian Public Works Department (JKR)

** Source: Ministry of Agriculture and Food Security (MAFS)

Note. The figures displayed are for statistical purposes only



4. COMPARISON OF UNITS FOR FLOOD DISASTERS



NUMBER OF AFFECTED DISTRICTS

2022: 88

2021: 66

Total districts: 160

NUMBER OF AFFECTED STATES

2022: *14

2021: 12

* Additional 2 states : Pulau Pinang and Perlis



5. MOVING FORWARD



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5. MOVING FORWARD



DOSM will release:

- Special Report Impact of Floods in Malaysia 2023 on 23 Feb. 2024 (Friday)

THANK YOU



   
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