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## DSWD DROMIC Preparedness for Response Report #98 on the Kanlaon Volcano Seismic Activity as of 29 September 2022, 6AM

### I. Brief Background on Kanlaon Volcano

- A stratovolcano (conical volcano built-up by many layers of hardened lava and tephra).
- Mount Kanlaon also known as Kanlaon Volcano covers 24,557.60 hectares of land area with rainforests and verdant vegetation cutting through the political boundaries of Cities of Bago, La Carlota, San Carlos, and Canlaon, and the towns of Murcia and La Castellana within the park and having 169 hectares as Buffer Zone. Mt. Kanlaon is a complex and active volcano surrounded by several craters and volcanic peaks. Volcanic features in the area include the cinder cone of the active center and craters at the summit. It is underlain by tropical volcanic materials composed of sheeted lava flows, lahar deposits, airfall tephra and apron pyroclastic materials.<sup>1</sup>
- Its last eruption was reported on 20 December 2017 characterized by small volcanic earthquakes with moderate emissions of white steam-laden plumes that rose to 400 meters from the summit.<sup>2</sup>
- Areas under the four (4)-kilometer (km) Permanent Danger Zone (PDZ) are 13 barangays of Canlaon City (Lumapao, Malaiba, Masulog and Pula), La Castellana (Biaknabato, Cabagnaan, Mansalanao, and Sag-ang), La Carlota City (Ara-al and Yubo), Bago City (Ilijan and Mailum), and San Carlos City with a combined population count of 76,656. A massive eruption may directly affect a total of 528,838<sup>3</sup> persons covering all barangays of the said one (1) municipality and four (4) cities.

### II. Situation Overview

- Kanlaon Volcano is at **Alert Level 1**, which means that it is at low-level volcanic unrest.<sup>4</sup>
- Alert Level 1 indicates slight increase in volcanic earthquake and steam/gas activity. Sporadic explosions from the summit crater or new vents. Notable increase in the temperature, acidity and volcanic gas concentrations of monitored springs and fumaroles. Slight inflation or swelling of the edifice.

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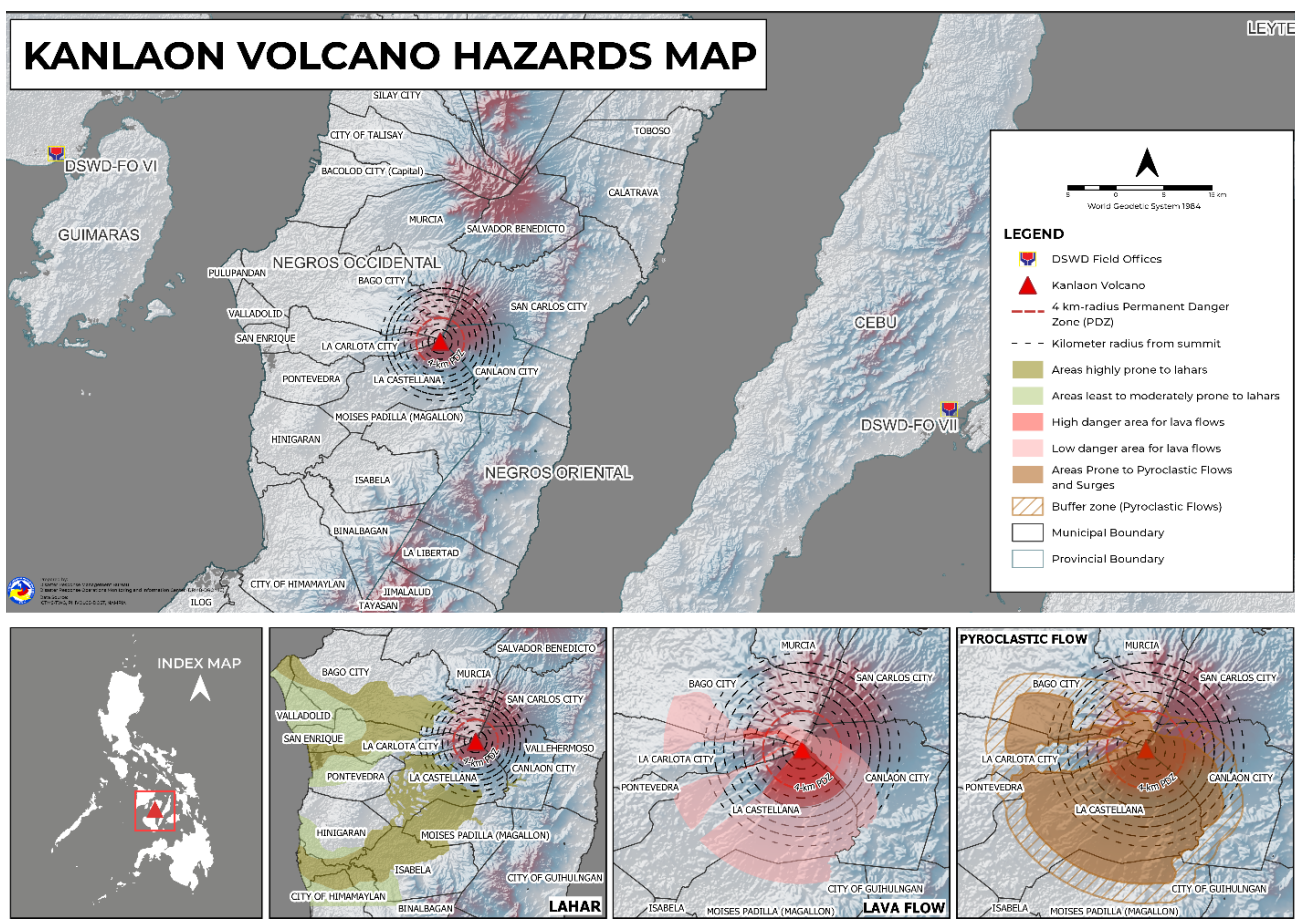
<sup>1</sup> Canlaon City Official website ([www.canlaoncity.gov.ph](http://www.canlaoncity.gov.ph))

<sup>2</sup> Department of Science and Technology - Philippine Institute of Volcanology and Seismology (DOST-PHIVOLCS)

<sup>3</sup> Philippine Statistics Authority (PSA), May 2020

<sup>4</sup> Based on the latest DOST-PHIVOLCS Advisory issued on 28 September 2022, 5AM

- The local government units (LGUs) and the public are strongly reminded that entry into the 4-km radius PDZ is strictly prohibited due to the further possibilities of sudden and hazardous steam-driven or phreatic eruptions.
- Civil aviation authorities must also advise pilots to avoid flying close to the volcano's summit as ejecta from any sudden phreatic eruption can be hazardous to aircraft.
- DOST-PHIVOLCS is closely monitoring Kanlaon Volcano's activity and any new development will be relayed to all concerned.



### III. Predictive Analytics for Humanitarian Response (PAHR)

A total of **15,331 families** or **76,656 persons** in **13 barangays** in **Regions VI and VII** lying within the 4- km PDZ are at high risk on Kanlaon's eruption. A massive eruption would directly affect **105,767 families** or **528,838 persons** spanning one (1) town and four (4) cities in Negros Occidental and Negros Oriental (see Table 1).

**Table 1. Projected Affected Population**

Affected Areas	4-km PDZ			Total Population		
	Barangays	Families	Persons	Barangays	Families	Persons
<b>TOTAL</b>	<b>13</b>	<b>15,331</b>	<b>76,656</b>	<b>149</b>	<b>105,767</b>	<b>528,838</b>

Affected Areas	4-km PDZ			Total Population		
	Barangays	Families	Persons	Barangays	Families	Persons
<b>Region VI (Negros Occidental)</b>	<b>9</b>	<b>11,513</b>	<b>57,565</b>	<b>137</b>	<b>94,003</b>	<b>470,016</b>
Bago City	2	2,683	13,416	24	38,242	191,210
La Castellana	4	4,914	24,570	13	15,898	79,492
La Carlota City	2	1,069	5,345	14	13,333	66,664
San Carlos City	1	2,847	14,234	86	26,530	132,650
<b>Region VII (Negros Oriental)</b>	<b>4</b>	<b>3,818</b>	<b>19,091</b>	<b>12</b>	<b>11,764</b>	<b>58,822</b>
Canlaon City	4	3,818	19,091	12	11,764	58,822

A total of **₱9,965,150.00** worth of **family food packs (FFPs)** is projected to be provided to **15,331 families** in **Regions VI and VII** based on the 4-km PDZ. A massive eruption would require **105,767 FFPs** for the same number of families that would be directly affected, costing **₱68,748,550.00** for a two (2)-day food requirement for a family of five (5) members (see Table 2).

**Table 2. Projected FFPs Requirement**

Affected Areas	4-km PDZ		PSA 2020	
	Families	FFP Cost	Families	FFP Cost
<b>TOTAL</b>	<b>15,331</b>	<b>9,965,150.00</b>	<b>105,767</b>	<b>68,748,550.00</b>
<b>Region VI (Negros Occidental)</b>	<b>11,513</b>	<b>7,483,450.00</b>	<b>94,003</b>	<b>61,101,950.00</b>
Bago City	2,683	1,743,950.00	38,242	24,857,300.00
La Castellana	4,914	3,194,100.00	15,898	10,333,700.00
La Carlota City	1,069	694,850.00	13,333	8,666,450.00
San Carlos City	2,847	1,850,550.00	26,530	17,244,500.00
<b>Region VII (Negros Oriental)</b>	<b>3,818</b>	<b>2,481,700.00</b>	<b>11,764</b>	<b>7,646,600.00</b>
Canlaon City	3,818	2,481,700.00	11,764	7,646,600.00

## IV. Response Actions and Interventions

### a. Standby Funds and Prepositioned Relief Stockpile

OFFICE	STANDBY FUNDS	STOCKPILE			TOTAL STANDBY FUNDS & STOCKPILE
		FAMILY FOOD PACKS		OTHER FOOD AND NON-FOOD ITEMS (FNIs)	
		QUANTITY	TOTAL COST		
TOTAL	186,429,629.22	510,522	308,468,528.29	674,143,185.20	1,169,041,342.71
DSWD CO	103,014,640.48	-	-	-	103,014,640.48
NRLMB NROC	-	33,189	21,741,858.00	142,240,083.70	163,981,941.70
NRLMB VDRC	-	25,829	16,559,910.00	41,459,281.50	58,019,191.50
DSWD FO VI	5,000,000.00	31,922	17,399,875.00	29,105,405.14	51,505,280.14
DSWD FO VII	5,000,000.00	30,294	17,731,720.00	48,311,632.73	71,043,352.73
Other FOs	73,414,988.74	389,288	235,035,165.29	413,026,782.13	721,476,936.16

Note: The Inventory Summary is as of 28 September 2022, 6PM.

Sources: DSWD-DRMB and DSWD-NRLMB

### 1. Standby Funds

- ₱103.01 million Quick Response Fund (QRF) at the DSWD Central Office.
- ₱10 million available at DSWD FOs VI and VII.
- ₱73.41 million in other DSWD FOs which may support the relief needs through inter-FO augmentation.

## 2. Prepositioned FFPs and Other Relief Items

- 59,018 FFPs available in Disaster Response Centers; of which, 33,189 FFPs are at the National Resource Operations Center (NROC), Pasay City and 25,829 FFPs are at the Visayas Disaster Resource Center (VDRC), Mandaue City.
- 62,216 FFPs available at DSWD FOs VI and VII.
- 389,288 FFPs in other DSWD FOs which may support the relief needs through inter-FO augmentation.
- ₱674.14 million worth of other FNIs at NROC, VDRC, and DSWD FO warehouses.

### b. Other Activities

#### DSWD-DRMB

DATE	SITUATIONS / ACTIONS UNDERTAKEN
29 September 2022	<ul style="list-style-type: none"> <li>• The Disaster Response Operations Monitoring and Information Center (DROMIC) of the DSWD-DRMB monitors and closely coordinates with concerned DSWD Field Offices for significant updates on preparedness measures and actions taken.</li> </ul>

#### DSWD FO VI

DATE	SITUATIONS / ACTIONS UNDERTAKEN
03 July 2022	<ul style="list-style-type: none"> <li>• DSWD FO VI coordinated with the City Social Welfare and Development Office (CSWDO) of Himamaylan, Talisay and Bago City for additional prepositioning of goods.</li> <li>• DSWD FO VI closely monitored the situation through coordination with PHIVOLCs and concerned LGUs for any reports on displacement of families and relief needs through the Quick Response Teams (QRTs) and Action Teams deployed at the local level.</li> </ul>

#### DSWD FO VII

DATE	SITUATIONS / ACTIONS UNDERTAKEN
12 July 2022	<ul style="list-style-type: none"> <li>• DSWD FO VII ensured continuous inspection and assessment of possible storage facilities for the prepositioning of FNIs in the LGUs of Canlaon City, Vallehermoso, La Libertad, Guihulngan City and Jimalalud, Negros Oriental.</li> <li>• DSWD FO VII finalized the Memorandum of Agreement (MOA) for the prepositioning of FNIs to Canlaon City. Coordination, discussion, and consultation meetings with the DSWD Legal Team were conducted.</li> <li>• At least 5,000 FFPs, hygiene kits, and family kits would be prepositioned in Canlaon City as part of the initial preparation.</li> </ul>
11 July 2022	<ul style="list-style-type: none"> <li>• DSWD FO VII personnel facilitated the ongoing five (5)-day Camp Coordination and Camp Management (CCCM) and Internally Displaced Persons (IDP) Training to 33 participants from the Local Social Welfare and Development Office (LSWDO), Local Disaster Risk Reduction and Management Office (LDRRMO), Department of Education (DepEd), and Philippine National Police (PNP) in Canlaon City, Negros Oriental.</li> </ul>



DATE	SITUATIONS / ACTIONS UNDERTAKEN
08 July 2022	<ul style="list-style-type: none"> <li>DSWD FO VII coordinated with the LDRRMO and LSWDO of Canlaon City. The NRLMB VDRC committed to provide technical assistance to Canlaon City in the assessment of identified warehouses and storage facilities, and in the identification of other facilities as option for secondary storage.</li> <li>DSWD FO VII and concerned stakeholders reviewed the provisions and roles of each party in the MOA relative to the prepositioning of FFPs, and the LGU of Canlaon City has to enter into a MOA with DSWD prior to the delivery of the projected 5,000 FFPs as prepositioned relief goods in the area.</li> </ul>
07 July 2022	<ul style="list-style-type: none"> <li>The LDRRM Operations Center continuously monitored the behavior and activities of the Kanlaon Volcano.</li> <li>The LDRRMO of Canlaon City conducted assessment in the barangays of Pula and Masulog. The team visited the Sitios located at the foot of the volcano where five (5) manifestations of felt earthquakes were recorded.</li> </ul>
06 July 2022	<ul style="list-style-type: none"> <li>DSWD FO VII convened a meeting with the member agencies of the Regional Disaster Risk Reduction and Management Council (RDRRMC)-7 Response Cluster at the Office of Civil Defense (OCD) VII in Lapu-Lapu City, Cebu to discuss the Contingency Plan for the Kanlaon Volcano seismic activity in line with the disaster preparedness of the RDRRMC-7.</li> </ul>
05 July 2022	<ul style="list-style-type: none"> <li>DSWD FO VII coordinated with the Local Disaster Risk Reduction and Management (LDRRM) Officer of Canlaon City. There was no significant rumbling or explosion in the area and unusual behavior observed on Mt. Kanlaon other than the earthquakes recorded by DOST-PHIVOLCS.</li> <li>DSWD FO VII through its Disaster Response Management Division conducted a meeting together with the Social Welfare and Development (SWAD) Team and warehouse personnel in Negros Oriental for the crafting of the Pre-Disaster and Preparedness Implementation Plan.</li> <li>The Regional Resource Operations Section (RROS) of DSWD FO VII would deploy its Provincial Warehouse Manager to Canlaon City to discuss preparations, check/inspect storage areas for the planned prepositioning of FNIs as well as check on evacuation camps' capacity for the deployment of tents. He would also be visiting the adjacent Municipality of Vallehermoso for the same purpose.</li> <li>DSWD FO VII would attend the Disaster Response Cluster meeting organized by the OCD VII to discuss the Central Visayas Contingency Plan for Mt. Kanlaon.</li> </ul>
03 July 2022	<ul style="list-style-type: none"> <li>DSWD FO VII closely monitored the situation through coordination with PHIVOLCS and concerned Local Disaster Risk Reduction and Management Councils (LDRRMCs) for any reports on displacement of families and relief needs through the QRTs and Negros Oriental Provincial and Canlaon City Action Teams.</li> </ul>

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*The Disaster Response Operations Monitoring and Information Center (DROMIC) of DSWD-DRMB is closely coordinating with DSWD FOs VI and VII for significant preparedness for response updates and technical assistance needed.*

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