



DSWD-DROMIC Preparedness for Response Report #8 on the Kanlaon Volcano Seismic Activity

as of 07 July 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;¹
- 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;² and,
- Areas under the four (4)-kilometer permanent danger zones are thirteen (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 528,838³ 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 unrest⁴;
- 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;

¹ Canlaon City Official website (www.canlaoncity.gov.ph)

² Department of Science and Technology - Philippine Institute of Volcanology and Seismology (DOST-PHIVOLCS)

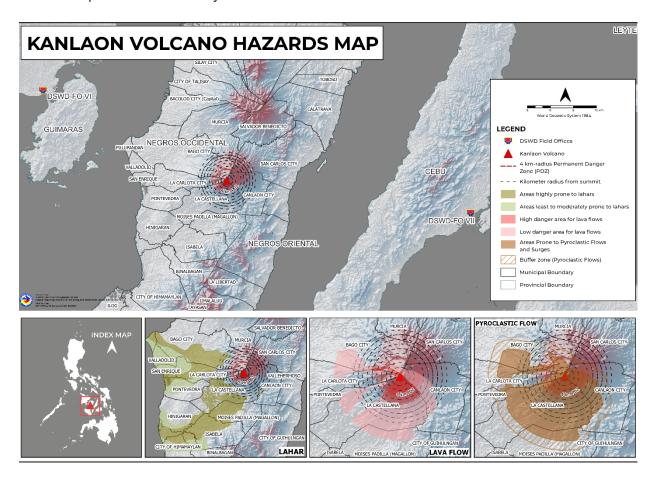
³ Philippine Statistics Authority (PSA), May 2020

⁴ Based on the latest DOST-PHIVOLCS Advisory issued on 06 July 2022, 5AM





- The local government units (LGUs) and the public are strongly reminded that entry into the 4-kilometer radius Permanent Danger Zone (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; and,
- 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-kilometer (km) Permanent Danger Zone (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





| Afficient Augus | 4-km PDZ | | | Total Population | | |
|----------------------------|-----------|----------|---------|------------------|----------|---------|
| Affected Areas | Barangays | Families | Persons | Barangays | Families | Persons |
| TOTAL | 13 | 15,331 | 76,656 | 149 | 105,767 | 528,838 |
| Region VI (Negros Occ.) | 9 | 11,513 | 57,565 | 137 | 94,003 | 470,016 |
| 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 |
| Region VII (Negros Or.) | 4 | 3,818 | 19,091 | 12 | 11,764 | 58,822 |
| Canlaon City | 4 | 3,818 | 19,091 | 12 | 11,764 | 58,822 |

A total of \$\mathbb{P}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 \$\mathbb{P}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 Avece | 4-km | PDZ | PSA 2020 | | |
|-------------------------|----------|--------------|----------|---------------|--|
| Affected Areas | Families | FFP Cost | Families | FFP Cost | |
| TOTAL | 15,331 | 9,965,150.00 | 105,767 | 68,748,550.00 | |
| Region VI (Negros Occ.) | 11,513 | 7,483,450.00 | 94,003 | 61,101,950.00 | |
| 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 | |
| Region VII (Negros Or.) | 3,818 | 2,481,700.00 | 11,764 | 7,646,600.00 | |
| 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





| | | | TOTAL | | |
|-------------|------------------|----------|----------------|--------------------------|--|
| OFFICE | STANDBY FUNDS | FAMILY F | OOD PACKS | OTHER FOOD AND | TOTAL STANDBY FUNDS & STOCKPILE |
| | | QUANTITY | TOTAL COST | NON-FOOD ITEMS (FNIs) | |
| TOTAL | 619,540,300.38 | 541,557 | 337,216,838.99 | 645,476,177.19 | 1,602,233,316.56 |
| DSWD CO | 548,378,151.49 | - | - | - | 548,378,151.49 |
| NRLMB NROC | - | 100,764 | 65,387,320.00 | 108,138,933.36 | 173,526,253.36 |
| NRLMB VDRC | - | 51,729 | 32,729,910.00 | 47,584,005.80 | 80,313,915.80 |
| DSWD FO VI | 5,000,000.00 | 30,199 | 14,821,664.00 | 30,476,866.78 | 50,298,530.78 |
| DSWD FO VII | 5,000,000.00 | 8,675 | 4,944,750.00 | 16,492,982.13 | 26,437,732.13 |
| Other FOs | 61,162,148.89 | 350,190 | 219,333,194.99 | 442,783,389.12 | 723,278,733.00 |

Note: The Inventory Summary is as of 07 July 2022, 10PM.

Sources: DSWD-DRMB and DSWD-NRLMB

1. Standby Funds

- ₱548.38 million Quick Response Fund (QRF) at the DSWD Central Office.
- ₱10 million available at DSWD FOs VI and VII.
- ₱61.16 million in other DSWD FOs which may support the relief needs through inter-FO augmentation.

2. Prepositioned FFPs and Other Relief Items

- 152,493 FFPs available in Disaster Response Centers; of which, 100,764 FFPs are at the National Resource Operations Center (NROC), Pasay City and 51,729 FFPs are at the Visayas Disaster Resource Center (VDRC), Mandaue City.
- 38,874 FFPs available at DSWD FOs VI and VII.
- 350,190 FFPs in other DSWD FOs which may support the relief needs through inter-FO augmentation.
- ₱645.48 billion worth of other FNIs at NROC, VDRC and DSWD FO warehouses.

b. Other Activities

DSWD-DRMB

| DATE | SITUATIONS / ACTIONS UNDERTAKEN |
|--------------|---|
| 07 July 2022 | The Disaster Response Operations Monitoring and Information Center (DROMIC) of the DSWD-DRMB is virtually monitoring and closely coordinating with concerned DSWD Field Offices for significant updates on preparedness measures and actions taken. |

DSWD-FO VI

| DATE SITUATIONS / ACTIONS UNDERTAKEN |
|--------------------------------------|
|--------------------------------------|





| | DSWD-FO VI coordinated with the City Social Welfare and Development |
|--------------|---|
| 03 July 2022 | Office (CSWDO) of Himamaylan, Talisay and Bago City for additional |
| | prepositioning of goods. |
| | DSWD-FO VI closely monitored the situation through coordination with |
| | PHIVOLCs and concerned local government units (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. |

DSWD-FO VII

| DATE | SITUATIONS / ACTIONS UNDERTAKEN |
|--------------|--|
| 06 July 2022 | DSWD -FO VII convenes a meeting with member agencies under the Regional Disaster Risk Reduction Management Council (RDRRMC-7) Response Cluster at the Office of Civil Defense 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. |
| 05 July 2022 | 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. 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. 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. DSWD-FO VII would attend the Disaster Response Cluster meeting organized by the Office of Civil Defense (OCD) VII to discuss the Central Visayas Contingency Plan for Mt. Kanlaon. |
| 03 July 2022 | 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. |

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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PHOTO DOCUMENTATION

06 JULY 2022

DSWD Field Office VII conducts a meeting with member agencies under Regional Disaster Risk Reduction Management Council (RDRRMC-7) Response Cluster to discuss the Contingency Plan for Kanlaon Volcano seismic activity.



06 JULY 2022

DSWD Field Office VII staff, in coordination with the City Social Welfare Development Office (CSWDO), inspects storage facilities and evacuation camps as part of its Pre-Disaster and Preparedness Implementation Plan for Kanlaon Volcano seismic activity.

