**DSWD-DROMIC Preparedness for Response Report #5 on the**

**Kanlaon Volcano Seismic Activity**

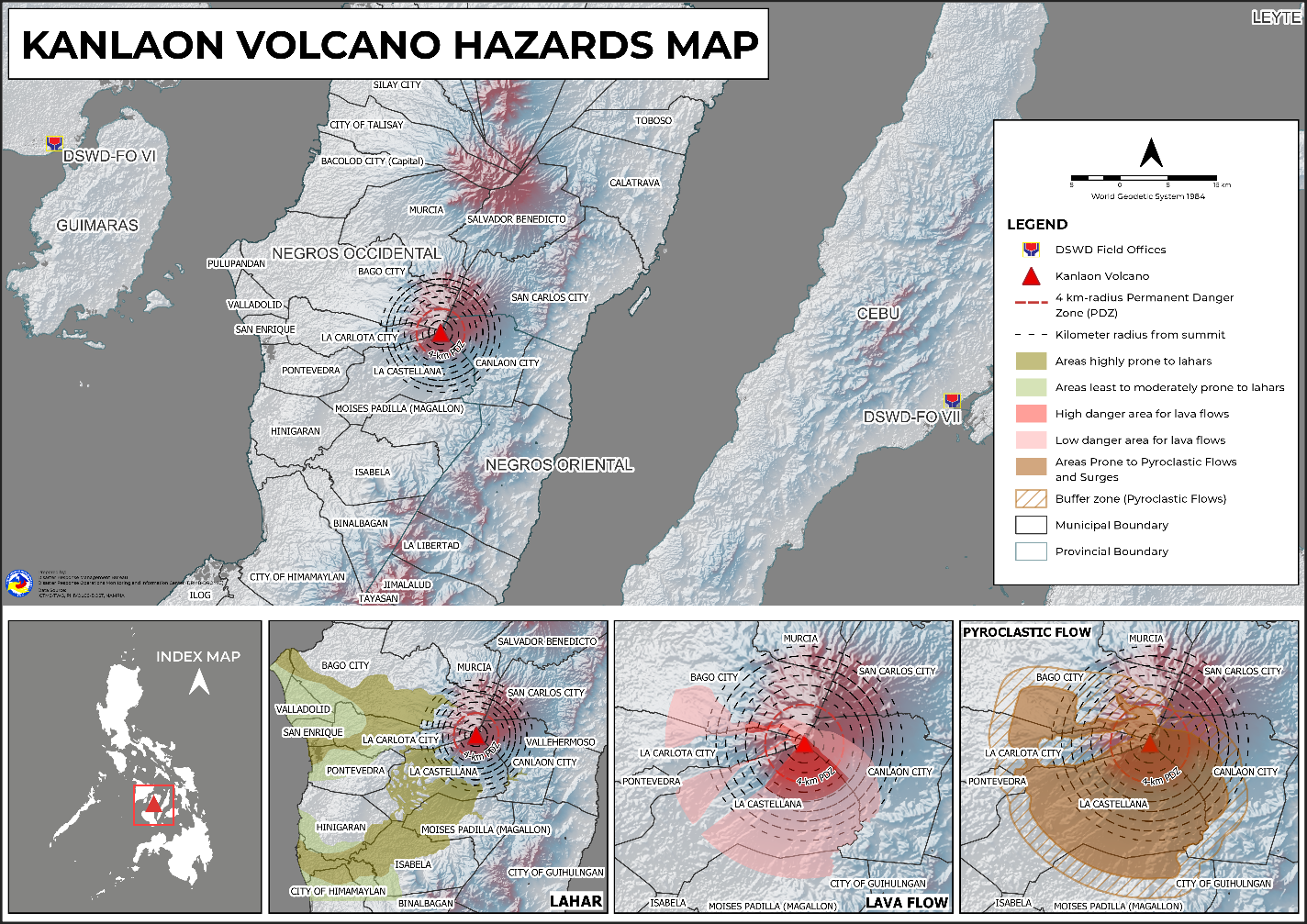
as of 05 July 2022, 6PM

1. **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]](#footnote-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]](#footnote-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 528,838[[3]](#footnote-3) persons covering all barangays of the said one (1) municipality and four (4) cities.

1. **Situation Overview**

* Kanlaon Volcano is at **Alert Level 1**, which means that it is at low-level volcanic unrest[[4]](#footnote-4);
* 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;
* 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.



1. **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***

| **Affected Areas** | **4-km PDZ** | | | **Total Population** | | |
| --- | --- | --- | --- | --- | --- | --- |
| **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 **₱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** |
| **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 |

1. **Response Actions and Interventions**
2. **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** | **625,241,540.63** | **537,613** | **334,001,688.57** | **645,476,177.19** | **1,604,719,406.39** |
| DSWD CO | 548,378,151.49 | - | - | - | 548,378,151.49 |
| NRLMB NROC | - | 100,764 | 65,356,120.00 | 108,138,933.36 | 173,495,053.36 |
| NRLMB VDRC | - | 51,729 | 32,729,910.00 | 47,584,005.80 | 80,313,915.80 |
| DSWD FO VI | 5,000,000.00 | 29,891 | 14,672,592.00 | 30,476,866.78 | 50,149,458.78 |
| DSWD FO VII | 5,000,000.00 | 8,675 | 4,944,750.00 | 16,492,982.13 | 26,437,732.13 |
| Other FOs | 66,863,389.14 | 346,554 | 216,298,316.57 | 442,783,389.12 | 725,945,094.83 |

*Note: The Inventory Summary is as of 05 July 2022, 4 PM.*

*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.
     + ₱66.86 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.
     + 38,566 FFPs available at DSWD FOs VI and VII.
     + 346,554 FFPs in other DSWD FOs which may support the relief needs through inter-FO augmentation.
     + ₱646.48 million worth of other FNIs at NROC, VDRC and DSWD FO warehouses.

1. **Other Activities**

**DSWD-DRMB**

| **DATE** | **SITUATIONS / ACTIONS UNDERTAKEN** |
| --- | --- |
| 05 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** |
| 03 July 2022 | * DSWD-FO VI coordinated with the City Social Welfare and Development 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** |
| 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. |

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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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1. *Canlaon City Official website (www.canlaoncity.gov.ph)* [↑](#footnote-ref-1)
2. *Department of Science and Technology - Philippine Institute of Volcanology and Seismology (DOST-PHIVOLCS)* [↑](#footnote-ref-2)
3. *Philippine Statistics Authority (PSA), May 2020* [↑](#footnote-ref-3)
4. *Based on the latest DOST-PHIVOLCS Advisory issued on 05 July 2022, 5AM* [↑](#footnote-ref-4)