



REPUBLIC OF THE PHILIPPINES
NATIONAL DISASTER RISK REDUCTION AND MANAGEMENT COUNCIL

National Disaster Risk Reduction and Management Center, Camp Aguinaldo, Quezon City, Philippines

NDRRMC UPDATE

Final Report re Preparedness Measures and Effects of El Niño (November 2018 to August 2019)

Releasing Officer:

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Administrator, OCD

Sources: DSWD, DILG, NWRB, PNP, NEDA, DOST-PAGASA, DA, MWSS, DILG, DOH, NEA, BFP, AFP-PAF, and OCDROs I, II, III, CAR, CALABARZON, MIMAROPA, V, VI, VIII, IX, X, XI, XII, BARMM, and NCR

I. SITUATION OVERVIEW:

- PAGASA's climate monitoring and analyses indicated that the unusually warm Sea Surface Temperatures (SSTs) in the Central and Eastern Equatorial Pacific (CEEP) which started since November 2018 was expected to become a full-blown El Niño.
- From November 2018 to January 2019, rainfall analyses showed that impacts of below normal rainfall conditions in provinces of Western Mindanao and Ilocos Norte were already experienced and were expected to continue.
- Rainfall assessment for February 2019 showed that most areas of the country received way below to below normal rainfall.
- Rainfall assessment for March 2019 showed that most areas of the country received way below to below normal rainfall except for most parts of Davao Region which received near normal rainfall.
- Rainfall assessment for April 2019 showed that most areas of the country received way below to below normal rainfall except for most parts of Northern Luzon, Southern Leyte, and Lanao del Sur which received near normal to above normal rainfall.
- Rainfall assessment for May 2019 showed that most areas of Luzon experienced near to above normal rainfall conditions except for parts of Central Luzon, CALABARZON, and MIMAROPA which received way below to below normal rainfall. Moreover, most parts of Visayas and Mindanao received way below to below normal rainfall except for parts of Western and Eastern Visayas and Davao Region where near to above normal rainfall conditions were experienced.
- In June 2019, near normal conditions were experienced in most areas of Western Luzon, Western and Eastern Visayas, and most parts of Mindanao. Meanwhile, Bataan, Zambales, Leyte, Southern Leyte, and Davao Region received above normal rainfall.
- In July 2019, rainfall conditions in most parts of Luzon were near to above normal except for the western and southern parts that received below normal rainfall.

- Rainfall for August 2019 was predicted to be generally near normal with areas of above normal rainfall conditions in CALABARZON, MIMAROPA, Bicol Region, Metro Manila, most parts of Eastern Visayas, and provinces of Nueva Vizcaya, Quirino, Bataan, Aurora, Agusan del Norte, and Surigao del Norte.

II. EFFECTS:

A. Affected Population (TAB A)

A total of **503,012 families / 2,444,959 persons** were affected by Drought/Dry Spell in Regions I, V, VI, VIII, IX, X, XI, XII, CARAGA, and CAR.

Source: DSWD DROMIC Report #16 on the Effects of El Niño as of 09 October 2019, 6:00 PM

B. Affected Farmers

A total of **247,610 farmers** were affected by Drought/Dry Spell in **Regions CAR, I, II, III, CALABARZON, MIMAROPA, V, VI, VIII, IX, X, XI, XII, CARAGA, and BARMM:**

Region	No. of Affected Farmers affected	Area affected (Has or Hectares)
Total	247,610	277,891
CAR	27,449	34,602
I	897	1,199
II	112,580	125,732
III	0	1,143
CALABARZON	5,257	5,509
MIMAROPA	13,204	17,847
V	22,902	26,676
VI	4,056	3,254
VIII	18,187	15,147
IX	6,859	7,230
X	5,085	6,498
XI	1,843	1,557
XII	8,655	9,977
CARAGA	2,213	2,525
BARMM	18,423	18,995

Source: Department of Agriculture (DA) as of 24 April 2019

C. Cost of Damage (TAB B)

An estimated **₱7,962,521,863.48** worth of damage to agriculture were reported in Regions CAR, I, II, III, CALABARZON, MIMAROPA, V, VI, VIII, IX, X, XI XII, and BARMM.

Source: Department of Agriculture (DA)

D. Declaration of State of Calamity (TAB C)

A total of **226 Cities/Municipalities** under the State of Calamity were reported.

Sources: OCDROs CAR, II, CALABARZON, MIMAROPA, V, VI, VII, VIII, IX, XI, XII, and BARMM.

E. Hospitals Affected

A total of **five (5) hospitals** were affected:

HOSPITAL	REMARKS
Rizal Medical Center (RMC)	As of 21 March 2019, all the DOH-retained hospitals have adequate water supply.
National Center for Mental Health (NCMH)	
National Kidney and Transplant Institute (NKTII)	

HOSPITAL	REMARKS
Philippine Children's Medical Center (PCMC)	
Quirino Memorial Medical Center (QMMC)	

Source: DOH-HEARS Plus Report dated 21 March 2019

III. ACTIONS TAKEN:

A. Cloud Seeding Operations (TAB D)

A total of **184 sorties** were conducted from 24 March 2019 to 27 June 2019 by DA Bureau of Soils and Water Management (BSWM) with technical assistance from PAF and in coordination with DA Regional Field Offices, LGUs, and other concerned agencies. These operations were conducted in various areas in Regions II, III, MIMAROPA, VII, XI, and XII.

Source: BSWM Memorandum on the Status of Cloud Seeding Operations as of 9 May 2019 and 19 June 2019

B. National Disaster Risk Reduction and Management Council (NDRRMC)

1. NDRRM Operations Center (NDRRMOC)

- a. Monitored and disseminated El Niño Advisories issued by DOST-PAGASA to NDRRMC member-agencies, stakeholders, and OCD Regional Offices concerned through facsimile, e-mail, and official social media websites for further dissemination to its respective Local Disaster Risk Reduction and Management Councils (LDRRMCs).
- b. Facilitated the conduct of Technical Management Group meeting re El Niño held on 05 March 2019, 10:00 AM and 13 March 2019, 2:00 PM, respectively at NDRRMOC Conference Room, NDRRMC Building, Camp General Emilio Aguinaldo, Quezon City.

2. Philippine Atmospheric, Geophysical, Astronomical Services Administration (DOST-PAGASA)

- a. Provided briefing on the possible effects and assessment re El Niño during the TMG meeting on 05 March 2019.
- b. Disseminated El Niño advisories and updates.

3. National Economic and Development Authority (NEDA)

- a. Formulated Roadmap for Addressing the Impact of El Niño (RAIN) which aim to mitigate the impacts of El Niño in four (4) critical areas namely: food security, energy security, health, and safety. Under Food security, it targeted the issue of reduced food production together with increasing food prices and decreased income of farmers and agricultural workers.
- b. Consolidated and presented accomplishments of member-agencies based on RAIN.

4. Department of the Interior and Local Government (DILG)

Cascaded El Niño Information and Education Campaign materials, preparedness actions, and responses and plans in the regional offices and LGUs.

5. Department of Social Welfare and Development (DSWD)

DSWD Central Office (CO), Field Offices (FOs), and National Resource Operations Center (NROC) ensured the availability of stockpiles and standby funds amounting to **₱1,841,197,425.14** with breakdown as follows:

- Standby Funds - **₱1,114,541,754.24** standby funds in the CO and FOs. Of which, **₱1,076,221,717.34** is the available QRF in the CO.
- Family Food Packs – **356,698 / ₱136,723,008.94**
- Other Food and Non-Food Items – **₱589,932,661.96**

6. Department of Agriculture (DA)

- Issued Special Order No. 945, s. 2019 re Creation of the DA National El Niño Task Force to monitor and coordinate the various El Niño programs/ projects/activities with DA units and NDRRMC.
- Coordinated with DOST-PAGASA, NDRRMC-OCD, NIA, Regional Field Offices (RFOs), and other concerned bureaus, attached agencies, and corporations.
- Released a total of ₱18.3M for cloud seeding operation.
- Monitored the water quantity and quality of fisheries sector in vulnerable areas.
- Crafted the El Niño Mitigation and Adaptation Plan.
- Advised farmer leaders, technicians, and other stakeholders to report damages and losses caused by El Niño.
- Monitored the affected/vulnerable areas through situation report and National Agricultural Drought (NAD) Monitor using satellite images.
- Monitored incidents relative to pests and diseases.
- Conducted crop intensification to compensate losses by affected areas (quick turn-around, rationing, no idle time and space).
- Promoted more efficient soil supplementation/fertilization strategies (soil amelioration, slow release of fertilizer, deep placement, and mulching).
- Conducted vaccination, deworming, and vitamins supplementation programs.
- Conducted massive information and education drive to create awareness on El Niño phenomenon and its impact in agriculture and fisheries sector.
- Motivated stakeholder's participation and mobilize LGUs and Civil Society to actively participate in planning and program implementation.
- Initiated nationwide water conservation.

7. Department of Health (DOH)

- Conducted health monitoring on the effects of El Niño due to sudden change of temperature.
- Provided food supplementation against increase malnutrition, information, and health campaign and health advisories.
- Alerted all hospitals and health facilities.
- Augmented funds and logistics to regional offices and hospitals.
- DOH HEMB coordinated with the DRRM-H Managers of the Centers for Health Development and DOH-Retained and Specialty hospitals regarding the incident.
- Sent three (3) HEMB Staff to attend El Niño Action Planning Meeting at Local Water Utilities Administration (LWUA).

8. National Water Resource Board (NWRB)

- Conducted reduction of water allocation from Angat Dam for Municipal Water Supply and Irrigation in the provinces of Bulacan and part of Pampanga farm areas.
- Monitored the water level of major dams.

- c. Conducted aggressive campaign on water conservation in coordination with Metro Manila LGUs and Government Institutions.
- d. Required water utilities/service providers (CPC Grantees) to prepare water conservation measures and submit the program to NWRB.

9. Metropolitan Waterworks and Sewerage System (MWSS)

- a. Assured water sufficiency and availability in Metro Manila.
- b. Managed water supply by reducing water pressure from 16 psi to 7 psi for water household consumption and irrigation.

10. National Electrification Administration (NEA)

- a. Placed electric cooperatives on alert.
- b. Ensured the availability of Cooperative Emergency Response and Action Plans.
- c. Established Task Force for quick response actions in relation to the effects of El Niño.

11. Bureau of Fire Protection (BFP)

- a. Conducted information campaign to indigenous communities in Pampanga due to the mode of cooking associated with grass and forest fires.
- b. Conducted Orientation on Safety Measures upon tourist registration prior to mountaineering activities.

12. Philippine National Police (PNP)

Placed assets (Utility Trucks, Light Trucks, Ambulance, Motorized Banca, Rubber Boats with OBM and Drum Boat) and search and rescue equipment (PNP Blue Box, Life Vest, Spine Board, Rescue Rope, Rappelling Set, Floaing Ring, Megaphone, Chainsaw, and Portable Electric Generator) on standby for possible mobilization.

13. Philippine Airforce (PAF)

A total of **seven (7) sorties** were accomplished by the Philippine Air Force as of 30 March 2019, in coordination with Bureau of Soils and Water Management over Region II.

C. Regional/Local Disaster Risk Reduction and Management Councils (R/LDRRMCs)

1. RDRRMC I

OCD I

- a. Disseminated warnings and other vital information regarding El Niño to all stakeholders.
- b. Coordinated with concerned RDRMMC member agencies and monitored their AOR.
- c. Conducted PDRA meeting for Dry Season on 12 April 2019 at Ariana Hotel, Bauang, La Union.

DSWD I

- a. Monitored the effects of El Niño with the Provincial Operations Offices (POOs), and ensured the submission of reports.
- b. Coordinated with the Office of Civil Defense – Region 1 as well as with the different Provincial/City/ Municipal Disaster Risk Reduction and

Management Councils (P/C/MDRRMCs) and Provincial/City/Municipal Social Welfare and Development Offices (P/C/MSWDOs) to synchronize plans and activities that would lessen the adverse effects brought by El Niño.

- c. Mainstreamed staff at the Provincial Operations Offices (POOs) and instructed to conduct validations of affected farmers and aquafarm operators initially reported by the DA for provision of appropriate assistance.

DA I

- a. Reactivated the El Niño Task Force.
- b. Coordinated with Local Government Units and monitored the AOR relative to the effects of El Niño.
- c. Provided quality seeds (Palay, Corn, Vegetables), soil ameliorants and veterinary drugs and medicine in non-vulnerable areas.
- d. Provided production inputs (Ammonium Sulfate), supplemental irrigation equipment, biological control agents, native pig, and silage package machine to vulnerable areas.
- e. Conducted pest surveillance, monitoring, and validation of emerging pests and diseases in vulnerable areas.
- f. Rehabilitated vulnerable areas through provision of palay seeds (Hybrid, Registered, Certified), installation of solar-powered irrigation system (SPIS), and establishment of rain harvesting facility and fuel subsidy.

BFAR I

- a. Activated BFAR RFO I Command Center.
- b. Disseminated advisories to the RDRRMC I.
- c. Placed response teams on standby for possible deployment.

NIA I

- a. Adjusted the cropping calendar and pattern of planting in some areas.
- b. Speed-up the program of land soaking.
- c. Implemented rotation of irrigation delivery (water rationing) by series of lateral.
- d. Maximized the use of water pumps to augment water supply.
- e. Maintained/cleaned canal for smooth flow of irrigation water.
- f. Conducted weekly coordination meeting with LGU to review and evaluate water delivery and resolve conflict.
- g. Monitored the water distribution on areas being affected particularly at the downstream areas by the field operation staff.
- h. Programmed other crops on areas that were located at the tail end portion.
- i. Constructed brush dam.

PIA I

Conducted information education campaigns through production of press releases, radio programs, text blasts (SMS), social media cards and situation gathering and reporting.

PDRRMC Pangasinan

- a. Conducted Information, Education and Communication (IEC) campaign on El Niño for Public Health.
- b. Installed shallow tube wells.
- c. Repaired and rehabilitated the Communal Irrigation System (CIS).
- d. Conducted fingerlings dispersal reforestation.
- e. Coordinated with NFA, BFAR, and NIA and monitored its respective AOR.

2. RDRRMC CAR

- a. Issued Cordillera RDRRMC Memorandum No. 8-b, s. 2019 regarding the heightening of Alert Status for the reduction of fire incidents and effects of El Niño Phenomenon in the Cordillera Administrative Region.
- b. Drafted Memorandum of Understanding re Constitution of an Inter-Agency Task Group for the Risk Reduction and Mitigation of Fire Incidents and Effects of El Niño Phenomenon in the Cordillera Administrative Region.
- c. Issued Cordillera RDRRMC Memorandum No. 13, s. 2019 regarding Reiteration on the Guidelines of Declaring and Lifting an Area Under State of Calamity.

OCD CAR

- a. Monitored the Cordillera Region on the possible threats and effects forest fires.
- b. Conducted a coordination meeting with various agencies relative to Emergency Preparedness Measures.
- c. Spearheaded the 24/7 skeletal force manning the Cordillera RDRRMC Emergency Operations Center.
- d. Coordinated with member-agencies such as PAGASA Baguio Synoptic Station and DENR-CAR and sent advisories to the public, LDRRMCs, and member-agencies of the Cordillera RDRRMC.
- e. Led the information campaign and issuance of advisories through text blast and social media.

Police Regional Office-Cordillera (PROCOR)

Coordinated with the Cordillera RDRRMC EOC and placed on standby mode for possible disaster operations, deployment, and augmentation.

BFP CAR

- a. Coordinated with the Cordillera RDRRMC EOC and placed on standby alert mode for possible disaster operations, deployment, and augmentation.
- b. Strengthened the Oplan Ligtas Pamayanan through its fire volunteers.

DOH CAR

Monitored uneventful health and health-related incidents, in close coordination with the Cordillera RDRRMC EOC.

NIA CAR

- a. Distributed water pump engines in the Province of Kalinga.
- b. Distributed brochures and other related documents to heighten stakeholder's awareness.
- c. Implemented the water management on the four national irrigation system.

PIA CAR

Disseminated safety tips, public advisories, and road alerts in close coordination with the Cordillera RDRRMC EOC.

PAGASA Baguio

Monitored weather updates and disseminated advisories to the general public and concerned LDRRMCs.

DSWD CAR

- a. Trainees from the Philippine National Police- Regional Training Center and Personnel from the Philippine Army joined forces with the personnel of DSWD CAR Regional Warehouse in repacking of 1,268 Family Food Packs (FFPs).
- b. Twenty-one (21) Bureau Fire Protection Cordillera Administrative Region (BFP CAR) personnel joined with DSWD CAR- RROS in repacking 1,223 FFPs.
- c. Transferred 100 FFPs (NROC items) to SWAD Abra.

DA CAR

- a. Reactivated the El Niño Task Force of the agency.
- b. Conducted weekly monitoring and updating of PAGASA Weather forecast and Water Level in Dams.
- c. Conducted updating Small-Scale Irrigation Projects (SSIPs) and inventory of distributed available irrigation pumps.
- d. Validated data on standing crops and inventory of animals in vulnerable areas by municipality and ecosystem.
- e. Mapped out vulnerable areas based on standing crops by province, municipality, barangay, and ecosystem.
- f. Conducted procurement of engine pumps to augment irrigation.
- g. Requested Bureau of Soils and Water Management (BSWM) to conduct cloud seeding in provinces with standing crops (Ifugao, Apayao and Kalinga).
- h. Conducted inventory of 798 units pump and engine set to determine the condition and its functionality.
- i. Distributed 92 units of water pumps under Corn Program and HVCDP.
- j. Procured 50 units of water pump for distribution and 96 rolls of HDPE/Plastic pipes.
- k. Installed 4 units of Solar Powered Irrigation System (SPIS) with 10 hectares service area per unit.
- l. Prepositioned seeds for immediate distribution to the affected farmers:
 - 9,000 kgs of hybrid yellow corn seeds
 - 279,300 kgs of certified and registered rice seeds
 - 470 kgs. of vegetable seeds
- m. Irrigation Support/Assistance distributed water pumps under Corn Program and HVCDP to Abra, Benguet, Apayao, Ifugao, Kalinga, and Mt. Province.
- n. Requested Bureau of Soils and Water Management (BSWM) to conduct cloud seeding in provinces with standing crops (Ifugao, Apayao, and Kalinga) and to facilitate immediate conduct of training/briefing on cloud seeding operation prior to actual implementation of CSO.
- o. Requested DA Central to release fund for the Cloud Seeding Operation.

Presidential Management Staff (PMS-CAR)

Attended the Emergency Meeting in formulating action plan on how to mitigate the effects of El Niño Phenomenon.

National Grid Corporation Philippines (NGCP)

Conducted clearing operations on vegetation near the transmission lines.

Benguet Electric Cooperative (BENECO)

Conducted thermal scanning of distribution lines and monitoring for loads of transformer to avoid overloading.

National Power Corporation (NPC)

- a. Conducted information, education campaign on the importance of watershed and forest not only in hydropower generation but also in sheltering lives.
- b. Placed on standby relative to the construction of fire line in case of forest fire.
- c. Organized Quick Response Teams of the Barangay Watershed Task Force.
- d. Strictly enforced Watershed Protection Law and other environmental laws.

Philippine Air Force Tactical Operations Group 1 (TOG1)

Placed on standby for the possible conduct of cloud seeding operations.

Local DRRM COUNCIL

Baguio CDRRMC monitored AOR.

Benguet PDRRMC

- a. Coordinated with MDRRMCs and monitored El Niño updates.
- b. Placed the Emergency Operations Center on Blue Alert status throughout the peak of the El Niño Phenomenon to provide timely, accurate, and appropriate coordination and monitoring services.

3. RDRRMC II**OCD II**

- a. Coordinated with concerned agencies and LGUs regarding its situation and monitoring.
- b. Discussed El Niño updates during the Cagayan Valley RDRRMC Meeting held on 14 March 2019.

DA II

- a. Conducted cloud seeding operations in certain parts of Baggao, Cagayan and in the cities/municipalities of Ilagan, Benito Soliven, and San Mariano, Isabela.
- b. Accomplished a total of three (3) sorties with a total amount of ₱4,185,216.00.
- c. Procured seed reserve.

DOST-PAGASA (Northern Luzon)

- a. Conducted and aired the Monthly Regular Climate Outlook via Radyo Panahon Program and Radyo Pilipinas Tuguegarao.
- b. Conducted Climate Outlook Forum in the following areas:

- Qurino – 11 March 2019
- Isabela – 12 March 2019
- Cagayan Valley RDRRMC and Gonzaga, Cagayan – 28 March 2019

NIA – MARIIS

- Conducted massive information campaign including conservation measures to all Irrigation Administration members.
- Maintained canal embankment and paddy bunds to minimize conveyance and farm losses.
- Encouraged farmers to plant early maturing and drought resistant rice variety.
- Implemented rotational scheme of irrigation by canal segment.
- Strictly enforced irrigation delivery schedule.
- Advised farmers to use pump drawing water from surface water source.
- Conducted cloud seeding operation.

PDRRMCs Isabela and Quirino

Monitored the effects brought by El Niño in their AOR.

CDRRMC Santiago, Isabela

Provided free gasoline and oil for water pumps to the affected farmers.

4. RDRRMC III

OCD III

Coordinated with concerned RDRMMC member agencies and monitored the AOR.

DA III

- Conducted initial assessment in affected areas with DA-LGU Mayantoc, Tarlac.
- Monitored the actual field situation to provide appropriate action in helping the affected farmers to recover from the damages incurred.

DRRMC San Fernando City, Pampanga

- Provided financial assistance to the affected farmers.
- Distributed farm machineries such as small irrigation facilities, tractors, mechanical transplanter, cultivator, seeds, knapsack sprayer, and power sprayer.

MDRRMC Gerona, Tarlac

- Conducted inspection in various barangays and coordinated with concerned departments regarding the effects of El Niño.
- Recommended that the sources of potable water in western barangays will be given priority to be addressed.
- Ensured adequate supply of potable water within the AOR.

5. RDRRMC CALABARZON

OCD CALABARZON

Coordinated with the LGUs relative to the status of the affected population.

DSWD CALABARZON

- a. Attended the regional Resource Operation Section (RROS) was alerted to ensure the availability of Family Food Packs (FFPs) and Non-Food Items (NFIs) should need arises.
- b. Coordinated with the LSWDOs, LDRRMOs, and regional offices of DA and NIA for updates, response, and interventions.

DA CALABARZON

A total of ₱107,991,801.60 for 4 identified major components/strategies as presented during the 2nd Quarter Committee on Disaster Response (CDR) Meeting held on 18 June 2019.

PDRRMC QUEZON

- a. Created Task Force El Niño and identified vulnerable and affected areas.
- b. Validated data on standing crops and made an inventory of functional irrigation facilities and machineries.
- c. Monitored pests and diseases such as Brontispa, CSI, Army worms, etc.
- d. Arranged an El Niño Awareness Campaign and Crop Insurance Coverage for farmers and fisherfolks.
- e. Distributed irrigation facilities and inputs for alternative crops.

6. RDRRMC MIMAROPA

OCD MIMAROPA

- a. Conducted ocular assessment and data gathering.
- b. Coordinated with PDRRMO and DA re the effects of El Niño.
- c. Provided fuel assistance and three (3) units of water bladder tank to the Province of Occidental Mindoro.
- d. Attended the Regional El Niño Task Force Meeting on 20 March 2019.

DA MIMAROPA

- a. Conducted inventory of delivered units of water pumps.
- b. Coordinated with insurance agencies for the crop insurance claims and loan facilitation.

DSWD MIMAROPA

- a. Validated the list of affected farmers in Sta. Cruz, Marinduque.

NEDA MIMAROPA

- a. Conducted Regional El Niño Task Force Meeting on 20 March 2019 in Calapan City, Oriental Mindoro.
- b. Reactivated the Regional El Niño Task Force – anticipating Quick Relief from the DSWD, DOLE, and BFAR.

BFP MIMAROPA

- a. Conducted water rationing in the Municipalities of Sablayan, Mamburao, Lubang, Rizal, and Magsaysay in the Province of Occidental Mindoro.
- b. Conducted water flushing to alleviate the dusty environment brought by the dry season to the different barangays of Rizal, Occidental Mindoro.

NIA MIMAROPA

Issued a memorandum to all Division Managers of the MIMAROPA Irrigation Management Officers on the Strategies to Mitigate the effects of El Niño Phenomenon on Systems Operations.

DTI MIMAROPA

Conducted monthly price monitoring.

PDRRMC Occidental Mindoro

- a. Created Provincial inter-agency El Niño Task Force in the Provinces of Occidental Mindoro and Oriental Mindoro.
- b. Provided fuel assistance to the farmers.
- c. Provided 700 sacks of palay seeds to the affected families in the Municipalities of Looc and Lubang.

PDRRMC Marinduque

- a. Coordinated with the Provincial Agriculture and Veterinary Office on the effects of drought on livestock, crops, and fisheries.
- b. Attended the Municipal Agriculture and Fisheries Council Meeting in the Municipality of Boac and Torrijos.
- c. Organized a Provincial El Niño Task Force with the Provincial Agriculture Office.

MDRRMCs Boac and Mogpog, Marinduque

- a. Conducted field visitations to rice fields and barangays affected by drought.
- b. Coordinated with the Municipal Agricultural Office (MAO).

MDRRMC Buenavista, Marinduque

- a. Conducted field visitations to rice fields and farms affected by drought.
- b. Coordinated with the Municipal Agricultural Office.
- c. Coordinated with BFP for water rationing.
- d. Monitored and recorded rainfall via digital rain gauges.

MDRRMC Gasan, Marinduque

- a. Coordinated with the Municipal Agricultural Office.
- b. Coordinated with waterworks department for possible water shortage.
- c. Coordinated with BFP for water rationing.

MDRRMC Sta. Cruz, Marinduque

- a. Conducted a meeting with Barangay Captains regarding the effects of drought on 07 March 2019.
- b. Conducted water rationing in affected barangays.
- c. Conducted visual assessment on the effects of drought in crops.

MDRRMC Torrijos, Marinduque

- a. Purchased four (4) sets of square white tanks with suction pump and hose for possible water rationing.
- b. Monitored and visited rivers, and conducted inspection in the newly constructed water tanks/reservoir in Brgy. Cabuyo.

7. RDRRMC V**OCD V**

- a. Coordinated with the Department of Agriculture (DA) Region V for the damages incurred by El Niño and for possible interventions.

- b. Monitored the effects brought by El Niño in the AOR.
- c. Coordinated with the DA Region V re the status of the affected population.

DA V

- a. Established Disaster Task Force.
- b. Mapped areas vulnerable to drought.
- c. Produced/distributed Information, Education, and Communication (IEC) materials.
- d. Provided quality seeds and ameliorants.
- e. Provided medium size tractor (36 hp) for dry land preparation.
- f. Provided appropriate seed varieties.
- g. Conducted initial validation on the reported crop damaged and dry-spell affected LGUs.

DSWD V

- a. Distributed Family Food Packs to the affected farmers.
- b. Augmented resources to the affected municipalities.
- c. Monitored the disaster relief operations at the provincial and city/municipality level.

PDRRMC Camarines Sur

- a. Conducted PDRRM Council meeting relative to El Niño and its effects in the Province.
- b. Coordinated with Provincial Agriculture Office for the damages brought by the dry season.
- c. Monitored the effects brought by El Niño in the entire Province.

PDRRMC Sorsogon

- a. Coordinated with the Provincial Agriculture for the damages brought by the dry season.
- b. Monitored the effects brought by El Niño in the entire Province.

PDRRMC Camarines Norte

Disseminated press statement and El Niño advisory.

8. RDRRMC VI

OCD VI

Coordinated with concerned PDRRMC for updates regarding ENSO.

DILG VI

- a. Allowed water concessionaires and water utilities to conduct emergency repair of leaks prior to securing the necessary excavation permit, provided the said permit shall be secured within a reasonable period from the commencement of the repair works.
- b. Implemented and updated existing contingency plans related to El Niño Phenomenon.
- c. Conducted mass Information, Education, and Communication campaigns in communities on the following:
 - Read monthly climate advisories issued by PAGASA
 - Check and immediately fix water leaks or report problems to appropriate authorities
 - Maximize rainwater harvesting and storage and water conservation measures

- Cooperate on local measures to help manage the impacts of El Niño
 - Get crop insurance and check advisories from local agricultural officials
- d. Disseminated and implemented water conservation tips to all concerned.

DA VI

- a. Conducted information campaign through regional technical group/coordination meetings.
- b. Instructed the Provincial / Municipal agriculturists and farmer representatives to undertake necessary measures within its respective LGUs.
- c. Established insurance package for DA Project.
- d. Provided mungbeans as alternative crop for rice to Aklan and Antique due to closure of irrigation facilities of NIA.
- e. Conducted cloud seeding with funds amounting to ₱ 2.5M.
- f. Ensured the availability of standby funds, ready for distribution as need arises.

DSWD VI

- a. Requested NHTS data on magnitude of poor families in Western Visayas with at least one family member aged 15 y/o and above who are farm worker, agricultural laborers, and fisherfolk to be used as basis in identifying numbers of small farmers/laborers affected in every municipality.
- b. Issued Memorandum to Regional, Provincial/Municipal QRT dated April 29 for the weekly submission of El Niño report.

PDRRMC Negros Occidental

Allocated funds for logistical support for cloud seeding operation and for procurement of water pumps to mitigate the effects of dry spell.

CDRRMC Sipalay City, Negros Occidental

Monitored and disseminated El Niño advisories.

Office of the Provincial Agriculturist, Negros Occidental

- a. Provincial Crop Protection Team conducted field validation on 27 February 2019.
- b. Disseminated information to field agriculturist regarding PAGASA advisory for weak El Niño.

9. RDRRMC VII

DSWD VII

- a. Coordinated with the Provincial Government for the latest situational reports from the LGUs.
- b. DSWD Regional Warehouse managed the packing of food packs and volunteers to aid in the repacking.

10. RDRRMC VIII

OCD RO VIII

- a. Monitored reported incidents related to El Niño phenomena in all provinces, cities, and municipalities in Eastern Visayas and respective

actions taken and preparedness measures in its respective Areas of Responsibilities (AORs).

- b. Disseminated advisories on weather updates to RDRRMC Member Agencies and P/C/MDRRMOs.

DSWD VIII

- a. Prepositioned standby funds worth ₱3,000,00.00 and stockpiled food and non-food items.
- b. Prepositioned 795 workforce are ready to provide augmentation assistance.
- c. Alerted and advised SWAD Teams and DRMD-PDOs assigned at the provinces to closely coordinate with P/C/MSWDOs and/or P/C/MDRRMOs to report immediately any eventualities happening on the ground.
- d. Alerted the Quick Response Team (QRT) members and the Disaster Response Management Division (DRMD) to render 24/7 duty.
- e. Disaster Response Information Management Section (DRIMS) monitored the weather condition in close coordination with SWADTs, QRTs and PDOs and gathered updates on the ground.
- f. Ensured that the Regional Resource Operation Section (RROS) ensured the availability of Food and Non-Food commodities whenever needed in the affected areas.
- g. Provincial Action Team in Biliran distributed 3,067 Family Food Packs to the affected farmers by the drought.
- h. LGU of Hinabangan recorded a remaining 198 unclaimed Family Food Packs for the beneficiaries affected by drought.

DA VIII

Coordinated with APCOs per province relative to the effect of the El Niño.

CDRRMO Calbayog

Conducted water level monitoring at all major water sources and in the city for human consumption and irrigation.

Calbayog City Water District (CCWD)

Implemented a 12-hour (6-hour interval) water interruption to almost 11 barangays in Calbayog City and 5 barangays of Sta. Margarita, Samar covered under the service area of CCWD.

11. RDRRMC IX

DSWD IX

Provided a total of 60,225 family food packs to the affected families

12. RDRRMC X

OCD X

- a. Monitored the AOR for any further effects of dry spell/drought.
- b. Disseminated Climate Advisories to all RDRRMC X member- agencies and Local DRRMCs.

DSWD X

- a. Facilitated the conduct of Disaster Response Committee Meeting on 26 March 2019.

- b. Prepositioned Food Items and Non-Food Items for affected LGUs amounting to ₱112,082,243.06
- c. Augmented support to disaster-affected families and provided aid to the LGU through Family Food Packs.

NEDA X

- a. Convened the Regional Development Council (RDC) X Economic Development Committee (EDC) to formulate an action plan to prepare for and mitigate the impacts of El Niño on 04 March 2019.
- b. NEDA Project Monitoring and Evaluation Division (PMED) monitored the implementation of items that were stipulated in the action plan.
- c. Reactivated the RAIN Technical Working Group on 18 March 2019.
- d. RAIN TWG coordinated with RDRRMC X to avoid duplication of efforts and resources.

DOST-PAGASA X

- a. Disseminated Climate Advisory: El Niño Impact and Climate Outlook.
- b. Conducted Information and Education Campaign (IEC) through the tri-media and social media.

DA X

- a. Intensified monitoring and validation of reports via the activation of Provincial DA DRRM validating teams.
- b. Coordinated with LGUs to establish master listing of recipients of the Survival and Recovery (SURE) assistance under Agricultural Credit Policy Council (ACPC).
- c. Conducted meeting with the Philippine Crop Insurance Corporation (PCIC) for the collaboration of master listing for claims of indemnity on insurance coverage and FA for milled rice stocks positioning and with NIA for water allocation strategies.
- d. Conducted IEC through local tri-media to provide information and proper advisory.
- e. Developed 3 springs and constructed 6 small farm reservoirs.
- f. Distributed the following:
 - 137 units of pumps and engines to the Provincial Government.
 - 100 bags of registered rice seeds
 - 16,344 bags of registered rice seeds
 - 2,487 bags of OPV corn seeds
 - 83,192 bags of Hybrid corn seeds
 - 5,529 packets of assorted vegetable seeds
 - 1,696 vials of drugs and biologics consisting of vaccines and multivitamins to the affected Provincial LGUs.
 - 250 Liters of Insecticides
 - 200 kgs. of Fungicides
 - 250 kgs. Of Rodenticides

DA-BFAR

- a. Monitored water parameters to prevent the decrease of dissolved oxygen level.
- b. Provided assistance to the affected LGUs.

CDRRMC Valencia City

- a. Conducted IEC through the tri-media, forums and meetings.

- b. Strengthened the forest fire prevention program.
- c. Conducted water rationing in Barangays Barobo, San Carlos, and Poblacion in Valencia City.
- d. Provided six (6) units of rain water collector in Dagat Kiddavao, Mt. Nebo, Laligan, and Banlag.

13. RDRRMC XI

OCD XI

- a. Monitored the AOR for any further effects of dry spell/drought in coordination with Local DRRMCs and DA XI.
- b. Disseminated Climate Advisories to all RDRRMC XI member- agencies and Local DRRMCs.

DA XI

- a. Monitored AOR for any further effects of dry spell/drought in coordination with Local DRRMCs and OCD XI
- b. Disseminated Climate Advisories to all and Local DRRMCs.
- c. Conducted Damage Assessment to all affected provinces in coordination with Local DRRMCs.
- d. Formulated DA XI El Nino Action Plan to provide assistance to all affected farmers in the region.
- e. Coordinated with OCD XI for the conduct of Cloud Seeding Operation as assistance to Davao del Sur Province.

DSWD XI

Distributed a total of 6,000 family food packs to affected families in Davao Oriental.

Local DRRMCs

- a. Monitored the AOR for any further effects of dry spell/drought in coordination with their P/MAGRO and DA XI.
- b. Conducted damage assessment together with P/MAGRO and DA XI.
- c. Davao del Sur PDRRMC provided food packs to affected farmers.

14. RDRRMC XII

OCD XII

- a. Coordinated with DA XII regarding the crop damage report in Cotabato Province.
- b. PDRRM Office and Office of the Provincial Agriculturist of Cotabato Province conducted assessment in the affected municipalities.

DA XII

- a. Conducted initial validation on the reported crop damage and dry-spell in the affected LGUs.
- b. Implemented the buffer stocking/prepositioning of rice and corn seeds.
- c. Provided mungo bean seeds and Shallow Tube Wells (STW) to affected farmers.
- d. Conducted cloudseeding operations with 5 sorties in the areas of Cotabato Province on 09 – 12 April 2019.
- e. Distributed 9,000 bags of palay seeds to severely affected areas.
- f. Conducted IEC to the farmers to prudently select drought-resilient crops such as rice varieties or plant legumes and root crops.

DSWD XII

In constant coordination with the Municipal Social Welfare and Development Offices (MSWDOs), Municipal Disaster Risk Reduction and Management Offices (MDRRMOs), and the Provincial Local Government Office (PLGU) of North Cotabato relative to the conduct of validation/ assessment.

15. RDRRMC CARAGA

DSWD CARAGA

- a. DRMD Personnel coordinated with the affected LGUs submitted by the Department of Agriculture for possible relief augmentation assistance.
- b. Provided a total of 1,299 FFPs as augmentation assistance to the affected families in Buenavista, Agusan del Norte amounting to ₱473,485.50.
- c. Advised the PDOs to follow-up updates regarding the effect of Weak El Niño to its assigned municipalities.
- d. Provided a total of 3,469 FFPs as augmentation assistance to the affected families in Las Nieves, Agusan del Norte amounting to ₱1,264,450.00.
- e. Conducted relief distribution of additional 6,938 FFPs to the affected families in Las Nieves, Agusan del Norte.
- f. Submitted the Work and Financial Plan/El Niño Action Plan for the provision of rice subsidy to the affected families.

16. RDRRMC BARMM

OCD BARMM

- a. Coordinated with Local DRRM Council concerned regarding the effects of El Niño in BARMM.
- b. Coordinated with all P/M/CDRRMC in BARMM for updates on actions taken to mitigate the effects of El Niño.
- c. Coordinated with the Ministry of Agriculture, Fisheries and Agrarian Reform (MOFAR) for gathering and consolidation of reports due to El Niño.
- d. Coordinated with the Ministry of Health (formerly known as DOH-ARMM) re actions taken to address the effects of El Niño.

Ministry of Local Government (formerly known as DILG-ARMM)

Issued a memorandum directing Local DRRM Chairpersons to conduct action planning in order to assess the possible extent of damage and conduct all necessary mitigation measures.

PDRRMC Maguindanao

PDRRMO Maguindanao conducted several assessments together with the Provincial and Municipal Agriculture Offices in the area regarding the extent of damages.

17. MMDRRMC

MMDA

- a. Presided the council meetings and gave guidance regarding the issues on the Metro Manila Water Supply Shortage.
- b. Continuous coordination with NWRB, MWSS, MWCII regarding the status of scheduled water interruptions.

OCD NCR

- a. Coordinated with the LGUs regarding the status of the affected population.
- b. Coordinated with NWRB, MWSS, MWCI regarding the status of scheduled water interruptions.
- c. Provided continues information/advisories to all concerned Agencies regarding advisories from PAGASA.
- d. Disseminated Manila Water Updates regarding the Notice of Scheduled Water Interruptions Notice.
- e. Conducted a full council meeting along with the water concessionaires.

DSWD NCR

- a. Prepositioned stockpile and provided status of commodities and Standby funds amounting to ₱3,292,543.50.
- b. Provided Disaster Assistance Family Access Card to requesting LGUs.
- c. Placed the Quick Response Teams of FO-NCR composed of organic staff from the Field Office and Centers and Residential Care Facilities (C/RCFs) on standby alert and were activated and mobilized in response to eventualities.

DILG NCR

- a. Sent information issued to all concerned DILG ROs and FOs regarding advisories issued by PAGASA.
- b. Issued Memorandum Circular for all LCEs to undertake preparedness measures for the El Niño Phenomenon.

DOST PAGASA NCR

- a. Issued the Climate Outlook for Metro Manila.
- b. Disseminated forecasts and advisories through press briefing/quad-media.

PIA NCR

- a. Released IECs on the effects of El Niño.
- b. Disseminated information through website, text blasts, social media platform and forums about water conservation.

Metro Manila Center for Health Development (MMCHD)

Provided Jerry Cans to the affected communities.

National Water Resources Board

Approved the use of water wells of concessionaires concerned and requested LGUs to send a letter for the use of its existing local government units-controlled water wells.

Civil Service Commission

- a. Provided 20,000 gallons/day and 2 tankers in service to augment the water requirement of heavily affected cities.

Manila Water Company

- a. Completed Cardona Water Treatment Plant on 31 March 2019-50 MLD.
- b. Conducted water Supply augmentation from Maynilad Water in March-April 2019 -50 MLD.
- c. Approved the temporary operations of Deep wells – 100 MLD.

d. In constant coordination with LGUs for the utilization of LGU Mobile Tankers.

Maynilad Water Services Incorporated

Augmented water supply from Laguna Lake.

IV. DISASTER RESPONSE:

A. Cost of Assistance (TAB E)

- DA provided crop insurance to **92,192 farmers and fisherfolk** affected by El Niño in Regions I, II, III, CALABARZON, MIMAROPA, V, VI, VII, VIII, IX, X, XI, and XII. A total of **₱725,705,549.94** worth of claims were paid through the Philippine Crop Insurance Corporation (PCIC).
 - Assistance from DSWD (**₱25,414,408.46**), LGU (**₱79,582,250.00**), and OCD (**₱299,995.10**) were provided to the affected families.
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Preparedness Measures and Effects of El Niño

AFFECTED POPULATION

November 2018 to August 2019

Region/Province/ Mun/City	AFFECTED		
	Brgys	Families	Persons
GRAND TOTAL	<u>4,265</u>	<u>503,012</u>	<u>2,444,959</u>
REGION I (ILOCOS REGION)	210	3,353	16,765
ILOCOS NORTE	32	677	3,385
LAOAG CITY	16	58	290
DINGRAS	7	199	995
PAGUDPUD	9	420	2,100
ILOCOS SUR	16	115	575
BURGOS	2	5	25
CABUGAO	6	64	320
GALIMUYOD	1	2	10
SALCEDO (BAUGEN)	2	32	160
SANTA CRUZ	5	12	60
LA UNION	94	1,320	6,600
SAN FERNANDO	1	3	15
AGOO	10	117	585
BACNOTAN	2	35	175
BALAOAN	13	130	650
BANGAR	12	339	1,695
LUNA	24	357	1,785
NAGUILIAN	-	3	15
SAN GABRIEL	9	43	215
SAN JUAN	12	91	455
SANTO TOMAS	7	23	115
SANTOL	1	30	150
SUDIPEN	3	149	745
PANGASINAN	68	1,241	6,205
BAYAMBANG	-	1	5
MANGALDAN	-	19	95
MANGATAREM	26	430	2,150
MAPANDAN	11	287	1,435
POZZORUBIO	11	154	770
SANTA BARBARA	20	350	1,750
REGION V (BICOL REGION)	662	22,687	113,435
ALBAY	243	6,938	34,690
BACACAY	6	79	395
CAMALIG	14	646	3,230
DARAGA	27	1,282	6,410
GUINOBATAN	15	363	1,815
JOVELLAR	16	225	1,125
LEGAZPI CITY	26	748	3,740
LIBON	47	1,450	7,250
LIGAO CITY	18	350	1,750
MALILIPOT	6	27	135

Region/Province/ Mun/City	AFFECTED		
	Brgys	Families	Persons
MALINAO	7	80	400
MANITO	5	68	340
OAS	26	464	2,320
PIO DURAN	14	426	2,130
SANTO DOMINGO (LIBOG)	4	75	375
TABACO CITY	4	373	1,865
TIWI	8	282	1,410
CAMARINES SUR	419	15,749	78,745
BAAO	2	52	260
BALATAN	11	38	190
BATO	12	215	1,075
BOMBON	7	127	635
BUHI	7	201	1,005
BULA	13	240	1,200
CABUSAO	4	142	710
CALABANGA	15	990	4,950
CAMALIGAN	7	187	935
CANAMAN	14	263	1,315
CARAMOAN	10	356	1,780
DEL GALLEGO	3	31	155
GAINZA	8	564	2,820
GARCHITORENA	6	411	2,055
GOA	3	165	825
IRIGA CITY	20	134	670
LAGONNOY	16	489	2,445
LIBMANAN	32	137	685
MAGARAO	8	451	2,255
MILAOR	18	468	2,340
MINALABAC	7	645	3,225
NABUA	9	144	720
NAGA CITY	9	378	1,890
OCAMPO	19	1,545	7,725
PAMPLONA	15	2,993	14,965
PASACAO	15	235	1,175
PILI	11	437	2,185
PRESENTACION (PARUBCAN)	2	19	95
RAGAY	37	1,456	7,280
SAGÑAY	7	148	740
SAN FERNANDO	12	424	2,120
SAN JOSE	15	200	1,000
SIPOCOT	22	1,233	6,165
SIRUMA	10	112	560
TIGAON	5	90	450
TINAMBAC	8	29	145
REGION VI (WESTERN VISAYAS)	1,039	126,139	610,644
ANTIQUE	10	897	4,967
SIBALOM	10	897	4,967
CAPIZ	243	31,449	155,995
CUARTERO	22	2,252	11,260
DAO	20	662	2,060
DUMARAO	16	1,985	9,925
JAMINDAN	16	618	3,090

Region/Province/ Mun/City	AFFECTED		
	Brgys	Families	Persons
MA-AYON	32	1,981	9,905
MAMBUSAO	26	921	4,605
PANAY	8	376	1,880
PANITAN	26	586	2,930
PILAR	24	10,120	50,600
PRESIDENT ROXAS	22	2,975	14,875
SAPI-AN	10	1,530	7,650
SIGMA	21	7,443	37,215
ILOILO	786	93,793	449,682
AJUY	23	835	4,175
BADIANGAN	26	1,404	7,020
BAROTAC VIEJO	19	1,534	7,670
CABATUAN	56	5,353	26,765
CALINOG	55	1,356	6,780
CARLES	22	1,425	5,525
DINGLE	21	1,717	7,726
DUEÑAS	47	1,034	5,203
IGBARAS	22	1,940	8,644
JANIUAY	60	4,829	24,239
LAMBUNAO	73	18,557	92,785
LEMERY	31	8,553	42,765
LEON	61	438	2,190
MAASIN	42	3,930	15,826
MIAGAO	26	1,990	8,574
NEW LUCENA	21	678	3,390
PASSI	48	12,175	60,865
POTOTAN	11	82	410
SAN DIONISIO	29	9,759	38,110
SAN RAFAEL	9	615	3,075
SARA	42	14,735	73,675
TUBUNGAN	42	854	4,270
REGION VIII (EASTERN VISAYAS)	882	54,202	270,510
BILIRAN	52	4,268	21,340
ALMERIA	8	78	390
BILIRAN	10	2,650	13,250
CABUCGAYAN	6	68	340
CAIBIRAN	8	477	2,385
CULABA	4	285	1,425
MARIPIPI	1	300	1,500
NAVAL	15	410	2,050
EASTERN SAMAR	16	437	2,685
ARTECHE	4	17	85
DOLORES	11	120	1,100
SALCEDO	1	300	1,500
LEYTE	259	33,471	167,355
BARUGO	19	231	1,155
CALUBIAN	27	416	2,080
CARIGARA	29	864	4,320
HILONGOS	18	288	1,440
HINDANG	1	3	15

Region/Province/ Mun/City	AFFECTED		
	Brgys	Families	Persons
INOPACAN	19	440	2,200
ISABEL	7	203	1,015
KANANGA	1	202	1,010
LEYTE	30	10,112	50,560
ORMOC	10	450	2,250
SAN ISIDRO	19	7,717	38,585
SAN MIGUEL	20	1,653	8,265
TABANGO	1	1,238	6,190
TACLOBAN	12	144	720
TANAUAN	1	13	65
TOLOSA	10	125	625
VILLABA	35	9,372	46,860
NORTHERN SAMAR	183	4,442	21,210
ALLEN	1	254	1,270
BIRI	4	24	120
BOBON	1	260	1,300
CAPUL	1	200	100
CATARMAN	17	501	2,505
CATUBIG	26	537	2,685
GAMAY	1	30	150
LAOANG	33	403	2,015
LAPINIG	5	34	170
LAS NAVAS	34	616	3,080
LAVEZARES	11	119	595
LOPE DE VEGA	5	22	110
MAPANAS	1	68	340
MONDRAGON	20	157	785
PALAPAG	1	227	1,135
PAMBUJAN	14	576	2,880
ROSARIO	1	40	100
SAN ANTONIO	1	25	125
SAN ISIDRO	3	20	100
SAN JOSE	1	150	750
SAN ROQUE	1	97	485
VICTORIA	1	82	410
SAMAR (WESTERN SAMAR)	314	10,418	52,090
CALBAYOG	51	400	2,000
CATBALOGAN	11	288	1,440
GANDARA	65	2,973	14,865
HINABANGAN	20	761	3,805
MATUGUINAO	20	342	1,710
MOTIONG	26	1,179	5,895
PAGSANGHAN	11	323	1,615
PINABACDAO	1	325	1,625
SAN JORGE	40	1,534	7,670
SAN SEBASTIAN	14	798	3,990
SANTA MARGARITA	12	212	1,060
TAGAPUL-AN	14	652	3,260
TARANGNAN	19	377	1,885
VILLAREAL	9	107	535
ZUMARRAGA	1	147	735

Region/Province/ Mun/City	AFFECTED		
	Brgys	Families	Persons
SOUTHERN LEYTE	58	1,166	5,830
BONTOC	7	125	625
LIBAGON	7	349	1,745
MAASIN	22	425	2,125
MACROHON	16	224	1,120
PADRE BURGOS	3	26	130
PINTUYAN	1	1	5
SAN JUAN (CABALIAN)	1	12	60
TOMAS OPPUS	1	4	20
REGION IX (ZAMBOANGA PENINSULA)	599	40,580	202,015
CITY OF ISABELA	49	1,755	8,775
ZAMBOANGA DEL NORTE	218	12,508	62,540
GUTALAC	23	63	315
KATIPUNAN	26	1,560	7,800
LABASON	15	959	4,795
LILLOY	20	165	825
PIÑAN (NEW PIÑAN)	22	402	2,010
PRES. MANUEL A. ROXAS	12	541	2,705
SERGIO OSMEÑA SR	39	2,939	14,695
SIAYAN	22	4,400	22,000
SINDANGAN	23	692	3,460
SIOCON	16	787	3,935
ZAMBOANGA DEL SUR	184	16,743	82,830
DIMATALING	22	1,050	4,365
DUMINGAG	44	5,664	28,320
PAGADIAN CITY	40	2,802	14,010
ZAMBOANGA CITY	78	7,227	36,135
ZAMBOANGA SIBUGAY	148	9,574	47,870
ALICIA	19	2,992	14,960
DIPLAHAN	18	1,154	5,770
IMELDA	18	669	3,345
NAGA	23	865	4,325
OLUTANGA	11	1,037	5,185
ROSELLER LIM	12	219	1,095
SIAY	18	903	4,515
TITAY	17	1,460	7,300
TUNGAWAN	12	275	1,375
REGION X (NORTHERN MINDANAO)	338	91,361	456,805
BUKIDNON	291	86,447	432,235
BAUNGON			
CABANGLASAN	-	2,208	11,040
DAMULOG	27	399	1,995
DANGCAGAN	14	625	3,125
KADINGILAN	17	2,090	10,450
KALILANGAN	12	1,684	8,420
KIBAWÉ	23	1,588	7,940
KITAOTAO	35	3,518	17,590
LANTAPAN	14	361	1,805
LIBONA	14	751	3,755
MALAYBALAY CITY	35	4,190	20,950

Region/Province/ Mun/City	AFFECTED		
	Brgys	Families	Persons
MALITBOG	-	572	2,860
PANGANTUCAN	16	3,146	15,730
QUEZON	23	6,150	30,750
SUMILAO	10	443	2,215
TALAKAG	20	3,522	17,610
VALENCIA	31	55,200	276,000
MISAMIS OCCIDENTAL	15	1,000	5,000
BALIANGAO	15	1,000	5,000
MISAMIS ORIENTAL	32	3,914	19,570
CAGAYAN DE ORO CITY	23	2,833	14,165
VILLANUEVA	9	1,081	5,405
REGION XI (DAVAO REGION)	95	70,696	306,618
DAVAO DEL SUR	74	61,972	262,998
BANSALAN	12	15,118	75,590
KIBLAWAN	4	827	1,556
MAGSAYSAY	11	13,667	68,335
MALALAG	-	2,494	8,264
MATANAO	33	13,230	38,411
PADADA	14	2,815	14,075
SANTA CRUZ	-	4,523	10,277
SULOP	-	9,298	46,490
DAVAO ORIENTAL	10	6,782	33,910
TARRAGONA	10	6,782	33,910
DAVAO OCCIDENTAL	11	1,942	9,710
SARANGANI	11	1,942	9,710
REGION XII (SOCCSKSARGEN)	110	71,909	359,545
COTABATO (NORTH COTABATO)	110	71,909	359,545
ALAMADA	17	15,655	78,275
ALEOSAN	19	10,447	52,235
KABACAN	10	883	4,415
PIGKAWAYAN	22	797	3,985
PIKIT	42	44,127	220,635
REGION XIII (CARAGA)	94	5,667	28,335
AGUSAN DEL NORTE	68	4,931	24,655
BUENAVISTA	7	433	2,165
BUTUAN CITY	30	744	3,720
KITCHARAO	10	188	940
LAS NIEVES	19	3,469	17,345
MAGALLANES	2	97	485
AGUSAN DEL SUR	26	736	3,680
ESPERANZA	15	369	1,845
TALACOGON	11	367	1,835
CAR	236	16,418	80,287
ABRA	40	1,051	4,853
BANGUED	13	157	542
LAGANGILANG	11	95	312
LANGIDEN	6	507	2,535
PEÑARRUBIA	1	219	1,099
PIDIGAN	9	73	365

Region/Province/ Mun/City	AFFECTED		
	Brgys	Families	Persons
APAYAO	39	2,916	13,174
FLORA	10	1,374	5,576
KABUGAO	18	954	4,658
SANTA MARCELA	11	588	2,940
BENGUET	1	89	445
BOKOD	1	89	445
IFUGAO	129	9,669	48,350
AGUINALDO	13	1,062	5,310
ALFONSO LISTA (POTIA)	20	2,897	14,485
ASIPULO	6	96	480
BANAUE	14	681	3,405
HINGYON	11	433	2,165
HUNGDUAN	9	2,763	13,815
KIANGAN	11	283	1,415
LAGAWE	17	713	3,565
LAMUT	15	607	3,035
MAYOYAO	13	134	675
KALINGA	18	837	4,185
BALBALAN	9	370	1,850
LUBUAGAN	9	467	2,335
MOUNTAIN PROVINCE	9	1,856	9,280
PARACELIS	9	1,856	9,280

Source: DSWD DROMIC Report No. 16 as of 09 October 2019, 6:00 PM

AFFECTED AREAS	
REGIONS	10
PROVINCES	33
CITIES	18
MUNICIPALITIES	257

Preparedness Measures and Effects of El Niño
COST OF DAMAGES
 November 2018 to August 2019

REGION/PROVINCE	RICE	CORN	HVC	FISHERIES	TOTAL DAMAGES TO AGRICULTURE
GRAND TOTAL	4,036,678,750.51	3,885,563,721.69	27,871,912.28	12,407,479.00	7,962,521,863.48
CAR	408,246,044.93	1,137,118,946.25	10,542,914.30	-	1,555,907,905.48
Abra	6,702,153.00	-	36,000.00	-	6,738,153.00
Apayao	251,465,112.93	366,447,894.50	10,506,914.30	-	628,419,921.73
Ifugao	43,373,100.00	333,650,206.75	-	-	377,023,306.75
Kalinga	105,983,179.00	277,621,845.00	-	-	383,605,024.00
Mt. Province	722,500.00	159,399,000.00	-	-	160,121,500.00
I	33,699,565.50	544,597.50	1,761,000.00	1,427,600.00	37,432,763.00
Ilocos Norte	11,393,460.00	165,262.50	-	261,000.00	11,819,722.50
La Union	12,174,445.50	379,335.00	1,761,000.00	1,166,600.00	15,481,380.50
Pangasinan	10,131,660.00	-	-	-	10,131,660.00
II	915,282,981.11	1,760,402,052.18	-	-	2,675,685,033.29
Cagayan	651,238,697.38	630,729,319.04	-	-	1,281,968,016.42
Isabela	178,936,693.33	867,473,616.14	-	-	1,046,410,309.47
Nueva Vizcaya	23,748,110.40	18,698,750.50	-	-	42,446,860.90
Quirino	61,359,480.00	243,500,366.50	-	-	304,859,846.50
III	5,544,624.02	-	-	-	5,544,624.02
Bulacan	5,544,624.02	-	-	-	5,544,624.02
CALABARZON	168,584,572.44	7,204,100.00	777,675.00	-	176,566,347.44
Batangas	275,200.00	-	-	-	275,200.00
Laguna	32,724,456.00	671,200.00	-	-	33,395,656.00
Rizal	7,710,300.00	-	777,675.00	-	8,487,975.00
Quezon	127,874,616.44	6,532,900.00	-	-	134,407,516.44
MIMAROPA	621,612,714.39	6,893,350.00	7,606,600.00	-	636,112,664.39
Romblon	4,508,400.00	-	-	-	4,508,400.00
Occidental Mindoro	261,767,425.00	5,966,350.00	7,606,600.00	-	275,340,375.00
Oriental Mindoro	30,292,870.72	-	-	-	30,292,870.72
Palawan	316,079,710.12	927,000.00	-	-	317,006,710.12
Marinduque	8,964,308.55	-	-	-	8,964,308.55
V	580,975,286.62	277,416,887.90	285,291.38	-	858,677,465.90
Albay	42,397,702.64	16,402,736.50	-	-	58,800,439.14
Camarines Norte	8,308,081.29	-	-	-	8,308,081.29
Camarines Sur	501,587,102.69	260,850,079.15	285,291.38	-	762,722,473.22
Masbate	28,682,400.00	164,072.25	-	-	28,846,472.25
VI	100,973,007.43	-	-	-	100,973,007.43
Antique	10,527,708.77	-	-	-	10,527,708.77
Capiz	6,616,470.00	-	-	-	6,616,470.00
Iloilo	68,069,924.20	-	-	-	68,069,924.20
Negros Occidental	15,758,904.46	-	-	-	15,758,904.46
VII	-	-	-	10,085,479.00	10,085,479.00
Cebu	-	-	-	10,085,479.00	10,085,479.00
VIII	337,443,679.41	843,050.00	-	-	338,286,729.41
Biliran	11,175,207.00	-	-	-	11,175,207.00
Leyte	68,525,614.81	843,050.00	-	-	69,368,664.81
Eastern Samar	113,184,191.00	-	-	-	113,184,191.00
Northern Samar	10,720,495.00	-	-	-	10,720,495.00
Samar	132,531,089.60	-	-	-	132,531,089.60
Southern Leyte	1,307,082.00	-	-	-	1,307,082.00
IX	292,813,246.15	17,100,474.72	-	894,400.00	310,808,120.87
Zambo. City	3,573,481.00	2,158,560.00	-	894,400.00	6,626,441.00
Zambo. del Norte	110,195,412.75	4,002,732.50	-	-	114,198,145.25
Zambo. del Sur	46,421,699.24	9,834,927.22	-	-	56,256,626.46

REGION/PROVINCE	RICE	CORN	HVC	FISHERIES	TOTAL DAMAGES TO AGRICULTURE
Zambo. Sibugay	132,622,653.16	1,104,255.00	-	-	133,726,908.16
X	11,489,943.43	327,549,317.90	6,898,431.60	-	345,937,692.93
Bukidnon	10,102,535.75	318,053,231.50	6,169,881.60	-	334,325,648.85
Misamis Oriental	1,387,407.68	9,496,086.40	728,550.00	-	11,612,044.08
XI	49,949,347.19	142,800.00	-	-	50,092,147.19
Davao del Sur	49,949,347.19	142,800.00	-	-	50,092,147.19
XII	43,542,878.49	88,036,908.50	-	-	131,579,786.99
North Cotabato	36,481,264.26	88,036,908.50	-	-	124,518,172.76
South Cotabato	1,597,250.40	-	-	-	1,597,250.40
Sultan Kudarat	5,464,363.83	-	-	-	5,464,363.83
XIII	92,402,603.92	175,801.00	-	-	92,578,404.92
Agusan del Norte	66,130,626.92	-	-	-	66,130,626.92
Agusan del Sur	26,271,977.00	175,801.00	-	-	26,447,778.00
BARMM	374,118,255.48	262,135,435.74	-	-	636,253,691.22
Lanao del Sur	161,545,680.00	71,366,996.00	-	-	232,912,676.00
Maguindanao	212,572,575.48	190,768,439.74	-	-	403,341,015.22

Source: DA update report on damages caused by El Niño as of 25 April 2019

**Preparedness Measures and Effects of El Niño
Declaration of State of Calamity
(November 2018 to August 2019)**

REGION / AREA	DATE	RESOLUTION NUMBER
CAR		
Paracelis, Mountain Province	18-Mar-19	SB Res. No. 2019-021
REGION II		
Dupax Del Norte, Nueva Vizcaya	15-Mar-19	Res. No. 2019-03
REGION CALABARZON		
Province of Quezon	20-Mar-19	Res. No. 2019-180
Infanta	03-Jun-19	Res. No. 2019-049
REGION MIMAROPA		
Province of Occidental Mindoro	19-Mar-19	SP Res No. 79
San Jose, Occidental Mindoro	05-Mar-19	SB Res. No. 5068
Rizal, Occidental Mindoro	07-Mar-19	SB Res. No. 2019-14
Sta. Cruz, Marinduque	19-Mar-19	SB Res. No. 109 s. of 2019
Aborlan, Palawan	20-Jun-19	SB Res . No. 2019-03
REGION V		
Province of Camarines Sur	20-Mar-19	Res. No. 920 S. of 2019
REGION VI		
Province of Iloilo	31-May-19	Res No. 2019-101
Lambunao, Iloilo	08-Apr-19	Res. No. 19-033
Bingawan, Iloilo	25-Mar-19	SB Res. No. 11-2019
Sta. Barbara, Iloilo	17-Apr-19	Res. No. 48-S-2019
Janiuay, Iloilo	17-Apr-19	Res. No. 2019-0115
Maasin, Iloilo	18-Apr-19	Res. No. 2019-039
Murcia, Negros Occidental	20-Mar-19	Res. No. 2019-017
REGION VII		
Cebu City	25-Mar-19	Res. No. 946-2019
Pres. Carlos P. Garcia, Bohol	09-Sep-19	Mun. Res. No. 15-124
REGION VIII		
San Isidro, Leyte	22-Apr-19	Res. No. 2019-059
REGION IX		
Zamboanga City	05-Mar-19	SP Res. No. 209
REGION XI		
Bansalan, Davao Del Sur	28-Jan-19	Res No. 31 s 2019
Matanao, Davao Del Sur	05-Mar-19	Res. No.18-741, s. of 2019
REGION XII		
Cotabato Province	12-Mar-19	SP Res. No. 178
Alamada, Cotabato	11-Feb-19	SB Res. No. 2019-577
M'lang, Cotabato	13-Feb-19	SB Res. No. 633-2019
Pikit, Cotabato	18-Feb-19	SB Res. No. 19-010
Aleoson, Cotabato	19-Feb-19	SB Res. No. C-421
Magpet, Cotabato	06-Mar-19	SB Res. No. 096 – 2019
Tulunang, Cotabato	07-Mar-19	SB Res. No. 966
Arakan, Cotabato	10-Mar-19	SB Res. No. 19-09-882
Matalam, Cotabato	13-Mar-19	SB Res No. 89 S, 2019
Kidapawan City, Cotabato	19-Mar-19	Res No. 19-106
T'Boli, South Cotobato	26-Mar-19	Municipal Res. No. 12 s. 2019
Alabel, Sarangani	20-Mar-19	Resolution No. 12-2019-929
Sultan Kudarat Province	25-Mar-19	Resolution No. 76 s. of 2019
Bagumbayan, Sultan Kudarat	19-Mar-19	Resolution No. 2019-22
Lutayan, Sultan Kudarat	13-Mar-19	Res No. 05, S. 2019
BARMM		
Province of Maguindanao	19-Mar-19	Resolution No. 316 S. 2019
Paglat, Maguindanao	19-Mar-19	Resolution No. 81 s. 2019
Sultan Kudarat, Maguindanao	14-Mar-19	Res. No. 19-08 s. 2019
Matanog, Maguindanao	25-Mar-19	Res. No. 109-'19
Municipality of Datu Abdullah Sangki, Maguindanao	13-Mar-19	Resolution No. 003-147 DASSB S. 2019
Pagalungan, Maguindanao	04-Mar-19	Resolution No. 01 s. 2019

REGION / AREA	DATE	RESOLUTION NUMBER
Upi, Maguindanao	06-Mar-19	SB Resolution No. 16 s. 2019
Municipality of Ampatuan, Maguindanao	25-Mar-19	Municipal Resolution No. 2019-31
Municipality of Wao, Lanao del Sur	11-Mar-19	Resolution No. 19 S. 2019
Province of Basilan	28-Mar-19	Resolution No. 2019-13 s. 2019

Sources: OCDROs CAR, II, CALABARZON, MIMAROPA, V, VI, VII, VIII, IX, XI, XII, and BARMM.

Preparedness Measures and Effects of El Niño
CLOUD SEEDING OPERATIONS (CSOps)
 November 2018 until August 2019

REGION / TARGET AREA	INCLUSIVE DATES OF OPERATION	AIRCRAFT USED	NO. OF SORTIES CONDUCTED and TOTAL TIME CONSUMED for the OPERATIONS	SUCCESS RATE	REMARKS	FUND SOURCE
Magat Watershed and Agricultural Areas in Region II	24 March - 4 June 2019	Piper Aztec of Pegasus Air Services, Inc.	67 sorties (75 hours)	62 out of 67 sorties (92.53%) produced light (Trace - 2.5mm) and moderate to heavy (>7.5mm) rainfall in the covered areas	For the period of 24 March to 4 June 2019 - Reservoir water level of Magat Dam increased by 24.44 meters. CSOps in Region II concluded on 4 June 2019	BSWM El Niño Fund downloaded to DA RFO II thru MOA
La Mesa Watershed (NCR) and Angat Watershed (Region III)	10 April - 30 July 2019	BN21 Islander of Flitelen Airways	60 sorties (75 hours and 38 minutes) •29 sorties- La Mesa Watershed •31 sorties- Angat Watershed	56 out of 60 sorties (93.33%) produced light (trace - 2.5mm) and moderate to heavy (>7.5mm) rainfall in the La Mesa and Angat Watershed	La Mesa Treatment Plant rain gauge* recorded 506mm (*no rain gauge in watershed area) and 367.75mm in Angat watershed from the start of operation to 25 June 2019	Manila Water Company, Inc.
Irawan Watershed, Puerto Princesa City, Palawan (MIMAROPA)	8 May - 6 June 2019	CESSNA 2016 of Fliteline Airways	37 sorties (40 hours)	28 out of 37 sorties (75.67%) produced moderate to heavy (>7.5mm) rainfall in Irawan Watershed	A total of 151mm rainfall was recorded in Campo Uno, 167.10mm in Urko, 51.30mm in IG, and 57.2mm in Tagaod Irawan Watershed from the start of operations. CSOps in Puerto Princesa City concluded on 6 June 2019	Puerto Princesa City Water District
Agricultural and watershed areas in Davao del Sur and North Cotabato (Regions XI and XII)	9 April - 21 May 2019	NOMAD Aircraft of the Philippine Air Force	8 sorties (10 hours 14 minutes)	7 out of 8 sorties (87.5%) produced light (Trace - 2.5mm) and moderate to heavy (>7.5mm) rainfall in the target areas	The CSOps were terminated on 15 May 2019 since there were natural rainfall occurrences in the target areas.	BSWM El Niño Fund and DA Corn Program Funds downloaded to PAF thru MOA

REGION / TARGET AREA	INCLUSIVE DATES OF OPERATION	AIRCRAFT USED	NO. OF SORTIES CONDUCTED and TOTAL TIME CONSUMED for the OPERATIONS	SUCCESS RATE	REMARKS	FUND SOURCE
Major dams, watershed, and agricultural areas in Bohol (Region VII)	19 June - 10 July 2019	Piper Cherokee RP-C2872 of Pegasus Air Services, Inc.	12 sorties (18 hours 17 minutes)	11 out of 12 sorties (91.67%) produced light (Trace - 2.5mm) and moderate to heavy (>7.5mm) rainfall in the watershed and agricultural areas in Bohol		

Source: BSWM Memorandum on the Status of Cloud Seeding Operations

Note: Total time consumed for the operations is inclusive of sorties, ferry flight from company hangar to base of operations, and guaranteed hours.

Preparedness Measures and Effects of El Niño

COST OF ASSISTANCE

November 2018 to 09 August 2019

REGION / PROVINCE / MUNICIPALITY	TOTAL COST OF ASSISTANCE (Php)				
	DSWD	LGU	OCD	DA through PCIC	GRAND TOTAL
GRAND TOTAL	25,414,408.46	79,582,250.00	299,995.10	725,705,549.95	831,002,203.51
REGION I	0.00	0.00	0.00	19,235,414.00	19,235,414.00
Abra	0.00	0.00	0.00	1,282,480.00	1,282,480.00
Benguet	0.00	0.00	0.00	806,850.00	806,850.00
Ilocos Norte	0.00	0.00	0.00	508,190.00	508,190.00
Ilocos Sur	0.00	0.00	0.00	9,990.00	9,990.00
La Union	0.00	0.00	0.00	3,133,980.00	3,133,980.00
Mt. Province	0.00	0.00	0.00	6,010,074.00	6,010,074.00
Pangasinan	0.00	0.00	0.00	7,483,850.00	7,483,850.00
REGION II				17,506,075.55	17,506,075.55
Apayao	0.00	0.00	0.00	1,459,235.00	1,459,235.00
Ifugao	0.00	0.00	0.00	1,190,371.50	1,190,371.50
Kalinga	0.00	0.00	0.00	623,874.60	623,874.60
Cagayan	0.00	0.00	0.00	7,329,036.10	7,329,036.10
Isabela	0.00	0.00	0.00	6,758,621.15	6,758,621.15
Nueva Vizcaya	0.00	0.00	0.00	144,937.20	144,937.20
REGION III				24,180,972.75	24,180,972.75
Bataan	0.00	0.00	0.00	105,711.00	105,711.00
Bulacan	0.00	0.00	0.00	4,211,526.00	4,211,526.00
Pampanga	0.00	0.00	0.00	5,548,053.00	5,548,053.00
Tarlac	0.00	0.00	0.00	4,732,718.00	4,732,718.00
Zambales	0.00	0.00	0.00	180,201.90	180,201.90
Aurora	0.00	0.00	0.00	1,791,036.00	1,791,036.00
Nueva Ecija	0.00	0.00	0.00	7,611,726.85	7,611,726.85
REGION CALABARZON				1,405,103.20	1,405,103.20
Cavite	0.00	0.00	0.00	54,937.60	54,937.60
Laguna	0.00	0.00	0.00	195,677.60	195,677.60
Batangas	0.00	0.00	0.00	173,121.60	173,121.60
Rizal	0.00	0.00	0.00	66,715.20	66,715.20
Quezon	0.00	0.00	0.00	914,651.20	914,651.20
REGION MIMAROPA			299,995.10	37,947,312.20	38,247,307.30
Occidental Mindoro	0.00	0.00	299,995.10	33,987,552.20	34,287,547.30
Oriental Mindoro	0.00	0.00	0.00	897,859.20	897,859.20
Marinduque	0.00	0.00	0.00	372,248.00	372,248.00
Romblon	0.00	0.00	0.00	201,220.80	201,220.80
Palawan	0.00	0.00	0.00	2,488,432.00	2,488,432.00
REGION V	4,882,574.30			60,489,589.09	65,372,163.39
Camarines Norte	0.00	0.00	0.00	4,590,407.70	4,590,407.70
Camarines Sur	0.00	0.00	0.00	44,853,804.24	44,853,804.24
Catanduanes	0.00	0.00	0.00	393,372.90	393,372.90
Masbate	0.00	0.00	0.00	2,326,061.50	2,326,061.50
Sorsogon	0.00	0.00	0.00	2,838,465.00	2,838,465.00
Albay	4,882,574.30	-	-	5,487,477.75	10,370,052.05
REGION VI				198,412,923.14	198,412,923.14
Aklan	0.00	0.00	0.00	7,645,031.52	7,645,031.52
Antique	0.00	0.00	0.00	7,958,119.50	7,958,119.50
Capiz	0.00	0.00	0.00	37,117,191.00	37,117,191.00
Guimaras	0.00	0.00	0.00	13,197,660.15	13,197,660.15
Iloilo	0.00	0.00	0.00	88,517,278.22	88,517,278.22
Negros Occidental	0.00	0.00	0.00	43,977,642.75	43,977,642.75
REGION VII				85,169,481.29	85,169,481.29
Bohol	0.00	0.00	0.00	58,460,497.26	58,460,497.26
Cebu	0.00	0.00	0.00	20,756,372.33	20,756,372.33
Negros Oriental	0.00	0.00	0.00	5,481,519.30	5,481,519.30
Siquijor	0.00	0.00	0.00	471,092.40	471,092.40
REGION VIII	7,249,362.36			42,207,742.61	49,457,104.97
Biliran	2,705,228.70	0.00	0.00	353,811.60	3,059,040.30
Eastern Samar	0.00	0.00	0.00	2,484,588.50	2,484,588.50
Leyte	867,408.00	0.00	0.00	30,225,018.06	31,092,426.06
Northern Samar	0.00	0.00	0.00	3,669,775.50	3,669,775.50
Southern leyte	0.00	0.00	0.00	102,791.00	102,791.00

REGION / PROVINCE / MUNICIPALITY	TOTAL COST OF ASSISTANCE (Php)				
	DSWD	LGU	OCD	DA through PCIC	GRAND TOTAL
Western Samar	3,676,725.66	0.00	0.00	5,371,757.95	9,048,483.61
REGION IX	4,641,840.00	-	-	42,253,296.30	46,895,136.30
Zamboanga del Norte	258,120.00	0.00	0.00	5,202,948.60	5,461,068.60
Zamboanga City	0.00	0.00	0.00	506,773.80	506,773.80
Misamis Occidental	0.00	0.00	0.00	1,137,026.70	1,137,026.70
Zamboanga del Sur	2,979,720.00	-	-	19,221,138.00	22,200,858.00
Zamboanga Sibugay	1,404,000.00	-	-	16,185,409.20	17,589,409.20
REGION X	2,560,181.00	78,616,000.00	0.00	116,589,946.48	197,766,127.48
Agusan del Norte	0.00	0.00	0.00	8,258,899.80	8,258,899.80
Agusan del Sur	0.00	0.00	0.00	32,013,046.80	32,013,046.80
Dinagat Islands	0.00	0.00	0.00	217,887.12	217,887.12
Surigao del Norte	0.00	0.00	0.00	416,201.15	416,201.15
Surigao del Sur	0.00	0.00	0.00	2,151,429.20	2,151,429.20
Bukidnon	0.00	78,616,000.00	0.00	70,284,399.41	148,900,399.41
Camiguin	0.00	0.00	0.00	-	0.00
Misamis Occidental	1,370,000.00	-	-	-	1,370,000.00
Misamis Oriental	1,190,181.00	-	-	3,248,083.00	4,438,264.00
REGION XI	4,259,014.80	-	-	71,160,703.34	75,419,718.14
South Cotabato	0.00	0.00	0.00	19,553,421.52	19,553,421.52
Compostella Valley	0.00	0.00	0.00	2,992,336.60	2,992,336.60
Davao del Norte	0.00	0.00	0.00	33,666,535.06	33,666,535.06
Davao Occidental	0.00	0.00	0.00	476,168.00	476,168.00
Sarangani	0.00	0.00	0.00	6,965,610.00	6,965,610.00
Davao del Sur	1,807,000.00	-	-	5,895,755.16	7,702,755.16
<i>Matanao</i>	<i>1,807,000.00</i>	-	-	-	<i>1,807,000.00</i>
Davao Oriental	2,452,014.80	-	-	1,610,877.00	4,062,891.80
<i>Tarragona</i>	<i>2,452,014.80</i>	-	-	-	<i>2,452,014.80</i>
REGION XII	83,500.00	-	-	9,146,990.00	9,230,490.00
Sultan Kudarat	0.00	0.00	0.00	1,850,850.00	1,850,850.00
Lanao del Norte	0.00	0.00	0.00	557,370.00	557,370.00
Lanao del Sur	0.00	0.00	0.00	43,120.00	43,120.00
Maguidanao	0.00	0.00	0.00	7,930.00	7,930.00
Cotabato	83,500.00	-	-	6,687,720.00	6,771,220.00
<i>Alamada</i>	<i>83,500.00</i>	-	-	-	<i>83,500.00</i>
CARAGA	1,737,936.00	0.00	0.00	0.00	1,737,936.00
Agusan del Norte	1,737,936.00	-	-	-	1,737,936.00
CAR	-	966,250.00	-	-	966,250.00
Abra	-	966,250.00	-	-	966,250.00
<i>Bangued (capital)</i>	-	<i>471,000.00</i>	-	-	<i>471,000.00</i>
<i>Lagangilang</i>	-	<i>14,250.00</i>	-	-	<i>14,250.00</i>
<i>Langiden</i>	-	<i>330,000.00</i>	-	-	<i>330,000.00</i>
<i>Pidigan</i>	-	<i>151,000.00</i>	-	-	<i>151,000.00</i>

Sources: DSWD DROMIC Report No. 16 as of 09 October 2019, 6:00 PM, and PCIC Claims Paid Caused by Drought per Province as of 21 June 2019