



Republic of the Philippines  
**OFFICE OF THE SECRETARY**  
Elliptical Road, Diliman 1100 Quezon City  
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**DEPARTMENT OF AGRICULTURE**  
**Bulletin No. 5 on the Effects of El Niño**  
**Issued at 9:00 AM, March 14, 2024**

**DA distributes agri-inputs in El Niño-stricken areas**

The Department of Agriculture has provided a total of PhP 379.06M worth of assistance to affected farmers. Among the assistance provided were high value crops with less water requirement (e.g. mungbean) to affected farmers in Iloilo and Negros Occidental amounting to PhP 990,000. Moreover, the Department distributed hybrid rice seeds worth PhP 7.87 million and fertilizers worth PhP 7.63 million to non-vulnerable areas in Western Visayas for maximization of production to compensate for the losses. Also, financial assistance from the Rice Farmers Financial Assistance (RFFA) Program has been given to 71,795 farmers in Mimaropa Region, with a total amount of PhP 362.56 million.

On the other hand, a total of 35 rice and 16 corn farmers in Ilocos, Central Luzon and Mimaropa regions have been indemnified by the Philippine Crop Insurance Corporation (PCIC) with a total amount of PhP 1.24 million. DA is continuously coordinating with the concerned for the provision and fast-tracking of financial assistance to affected farmers.

Meanwhile, the DA-Bureau of Soils and Water Management (BSWM), in collaboration with relevant agencies like the Department of Science and Technology-Philippine Atmospheric Geophysical Astronomical Services Administration (DOST-PAGASA) and Department of National Defense-Philippine Air Force (DND-PAF), is conducting cloud seeding operations to ease water shortage, targeting agricultural areas in Southern Cagayan and Northern Isabela. As a result, light to moderate rainfall is experienced over these areas.

The National Irrigation Administration (NIA) has installed 570 water augmentation pumps in Ilocos, Cagayan Valley, Central Luzon, Mimaropa, and Western Visayas regions ensuring that there is water source in these areas prior to installation. Concreting of irrigation canals is also on-going, which improved 847.82 kilometers of irrigation canals, benefitting 40,621 farmers nationwide. Further, desiltation of irrigation canals is being undertaken, improving water flow of 3,167.95 kilometers of irrigation canals nationwide.

Farmers are continuously adopting the alternate wetting-and-drying method that reduced water consumption in 162,623 hectares of agricultural areas. Furthermore, the quick turnaround strategy was also implemented, benefitting 3,878.15 hectares of agricultural areas and 1,657 farmers in Cagayan Valley, Central Luzon, Mimaropa and Soccsksargen.

DA Regional Field Offices in Ilocos, Cagayan Valley and Mimaropa regions have started endorsing the list of affected farmers to the Department of Social Welfare and Development, and Department of Labor and Employment for other forms of assistance such as provision of food packs and cash for work programs.



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The latest El Niño bulletin estimates damage and losses to farms in eight (8) regions: Ilocos Region, Cagayan Valley, Central Luzon, Calabarzon, MIMAROPA, Western Visayas, Zamboanga Peninsula and Soccsksargen at **P1.75 billion with 29,437 farmers affected**. Potential production losses from **32,231 hectares** affected by the dry spell are estimated at **48,332 metric tons for palay, 18,966 MT for corn, and 7,794 MT for high value crops**.

The affected rice area of **18,651 hectares is 1.94%** of the total target area planted of 960,864.48 hectares, while the production loss of **48,332 MT** is equivalent to around **0.52%** of the target production of 9,218,358.28 MT, both for the dry cropping season this 2024.

As for corn, area affected by the dry spell is at **11,382 hectares or 1.03%** of the total target area planted of 1,101,695.90 hectares, while the production loss of **18,966 MT is 0.42%** of target production of 4,493,026.90 MT, both for the dry cropping season this 2024.

The DA-DRRM Operations Center will continuously provide updates regarding the effects of El Niño. For inquiries, you may contact (02) 8929-0140 / 09616965099.



**DEPARTMENT OF AGRICULTURE**  
Disaster Risk Reduction and Management Section

## **DA DRRM Operations Center Bulletin No. 05**

# **Effects of El Niño**

**March 14, 2024 | 09:00 AM**

 Elliptical Road, Quezon City

 @dadrrmopcen

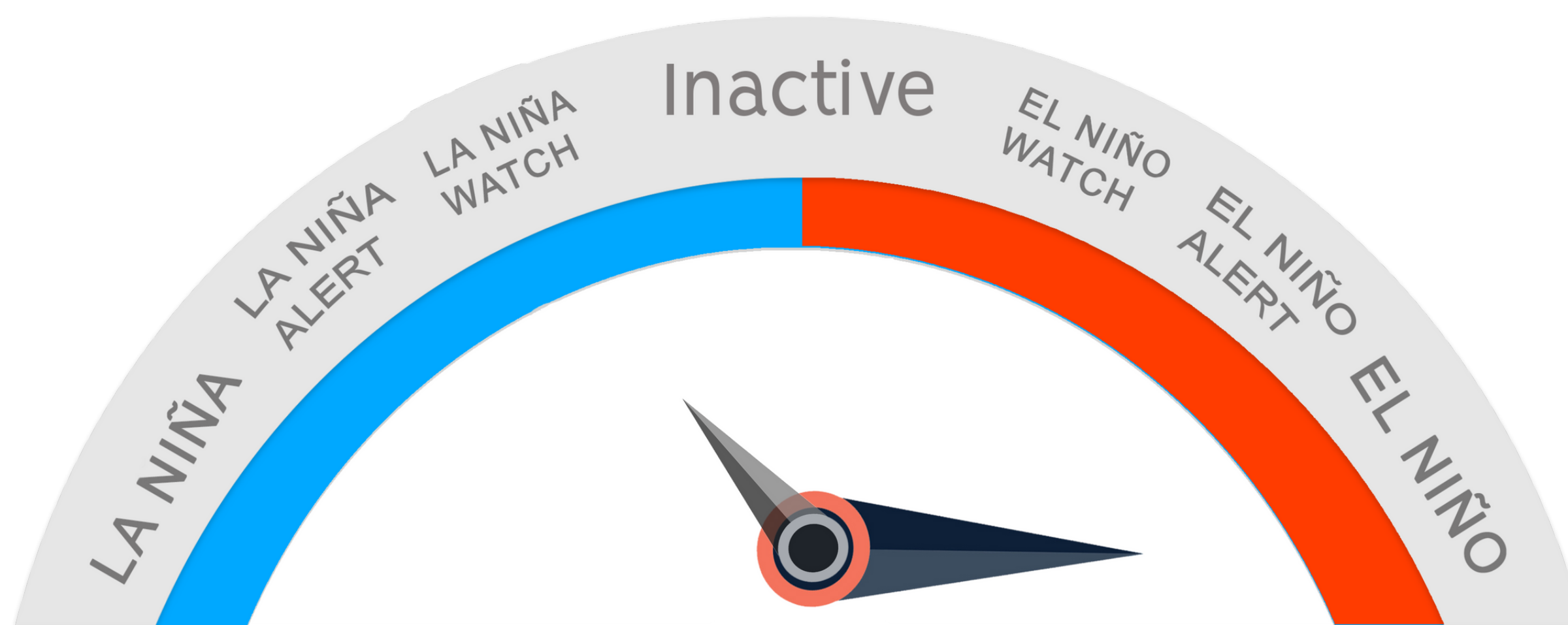
 drrmopcen@mail.da.gov.ph

 (02)8929-0140

**BULLETIN** **Effects of El Niño**  
**NO. 05** March 14, 2024 | 09:00 AM

**SITUATIONER REPORT**

**PAGASA ENSO Alert**  
**System Status**



El Niño across the tropical Pacific Ocean shows signs of weakening and is expected to persist until March-April-May (MAM) 2024 season. Majority of climate models suggest a transition to ENSO-neutral conditions during the April-May-June (AMJ) 2024 season (79% chance).

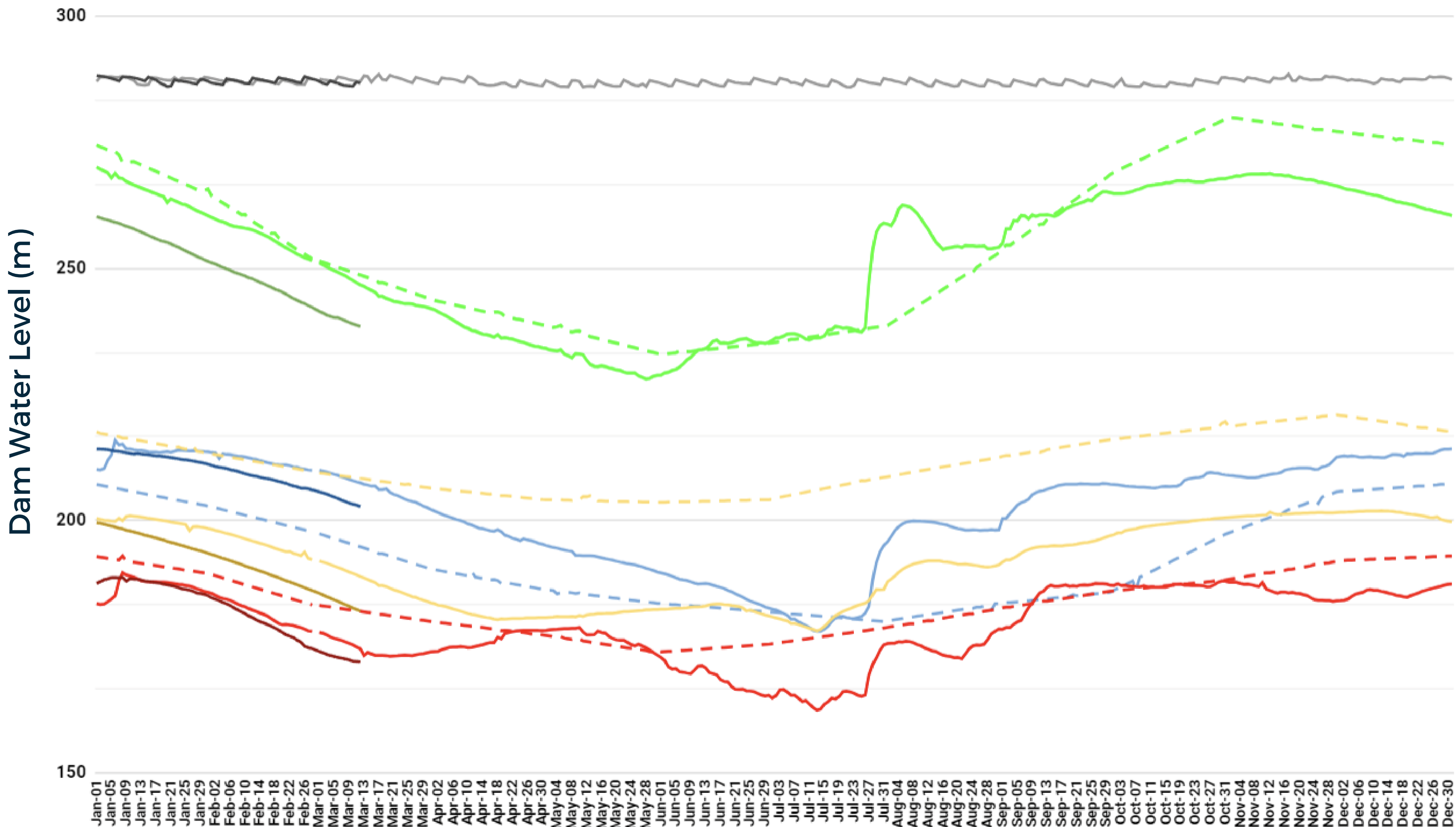
However, there is a likelihood for La Niña to develop (55% chance) during the June-July-August (JJA) 2024 season. With this development, the PAGASA ENSO Alert and Warning System is now raised to La Niña Watch.



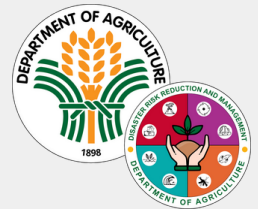
**BULLETIN NO. 05** **Effects of El Niño**  
March 14, 2024 | 09:00 AM

**Status of Dams**

- Angat Dam Rule Curve
- Angat Dam Water Level (2023)
- Angat Dam Water Level (2024)
- San Roque Dam Rule Curve
- San Roque Dam Water Level (2023)
- San Roque Dam Water Level (2024)
- Pantabangan Dam Rule Curve
- Pantabangan Dam Water Level (2023)
- Pantabangan Dam Water Level (2024)
- Magat Dam Rule Curve
- Magat Dam Water Level (2023)
- Magat Dam Water Level (2024)
- Caliraya Dam Water Level (2023)
- Caliraya Dam Water Level (2024)



As for the status of dams, the Reservoir Water Level (RWL) of Angat Dam as of March 11, 2024 is 203.78 m which is higher than its rule curve elevation of 195.05 m, while the following dams are reported to be below their rule curve elevation: San Roque: -10.21 m, Pantabangan: -26.11 m, and Magat: -10.07 m.

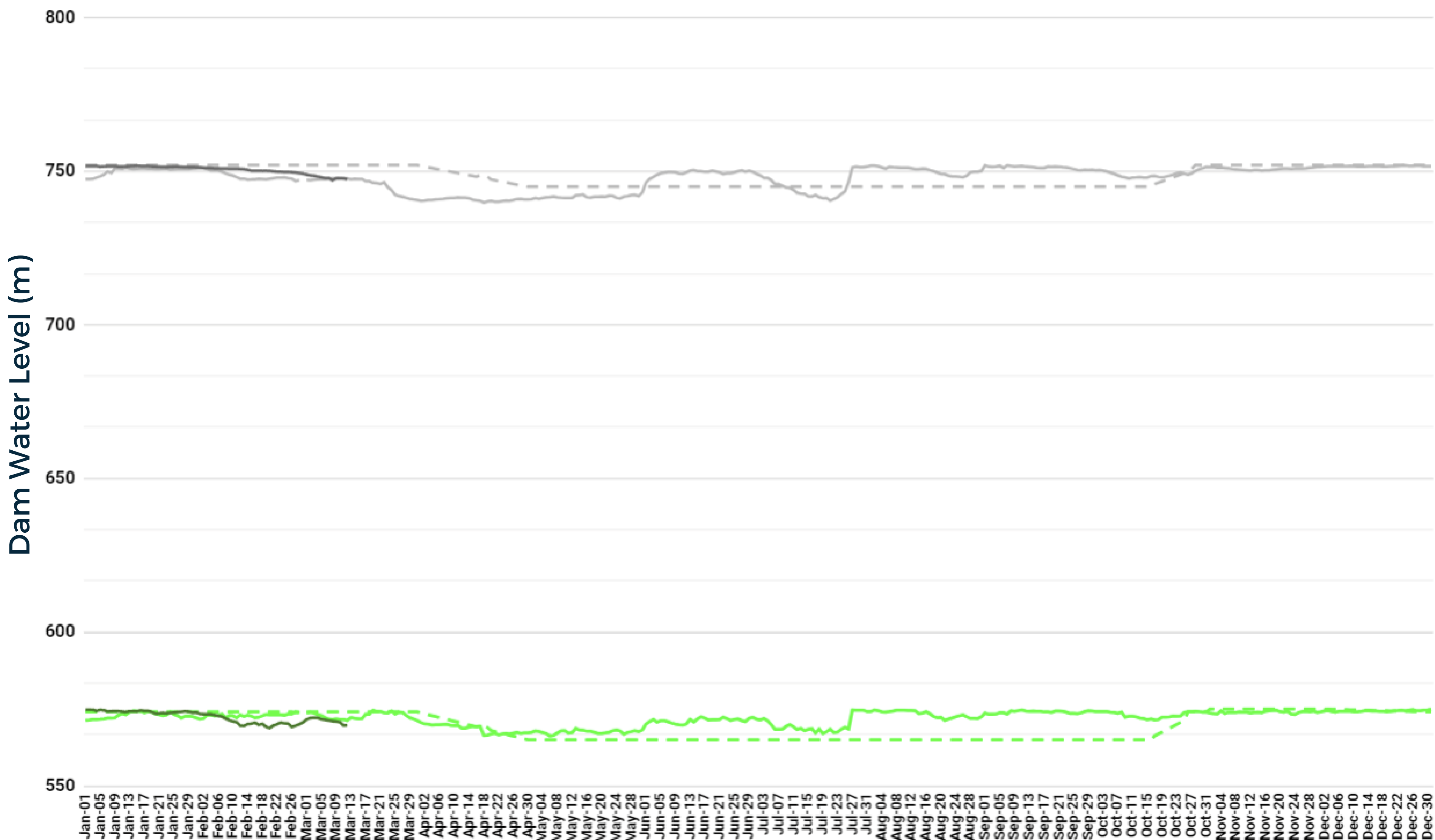


**BULLETIN** **Effects of El Niño**  
**NO. 05** March 14, 2024 | 09:00 AM

# SITUATIONER REPORT

## Status of Dams

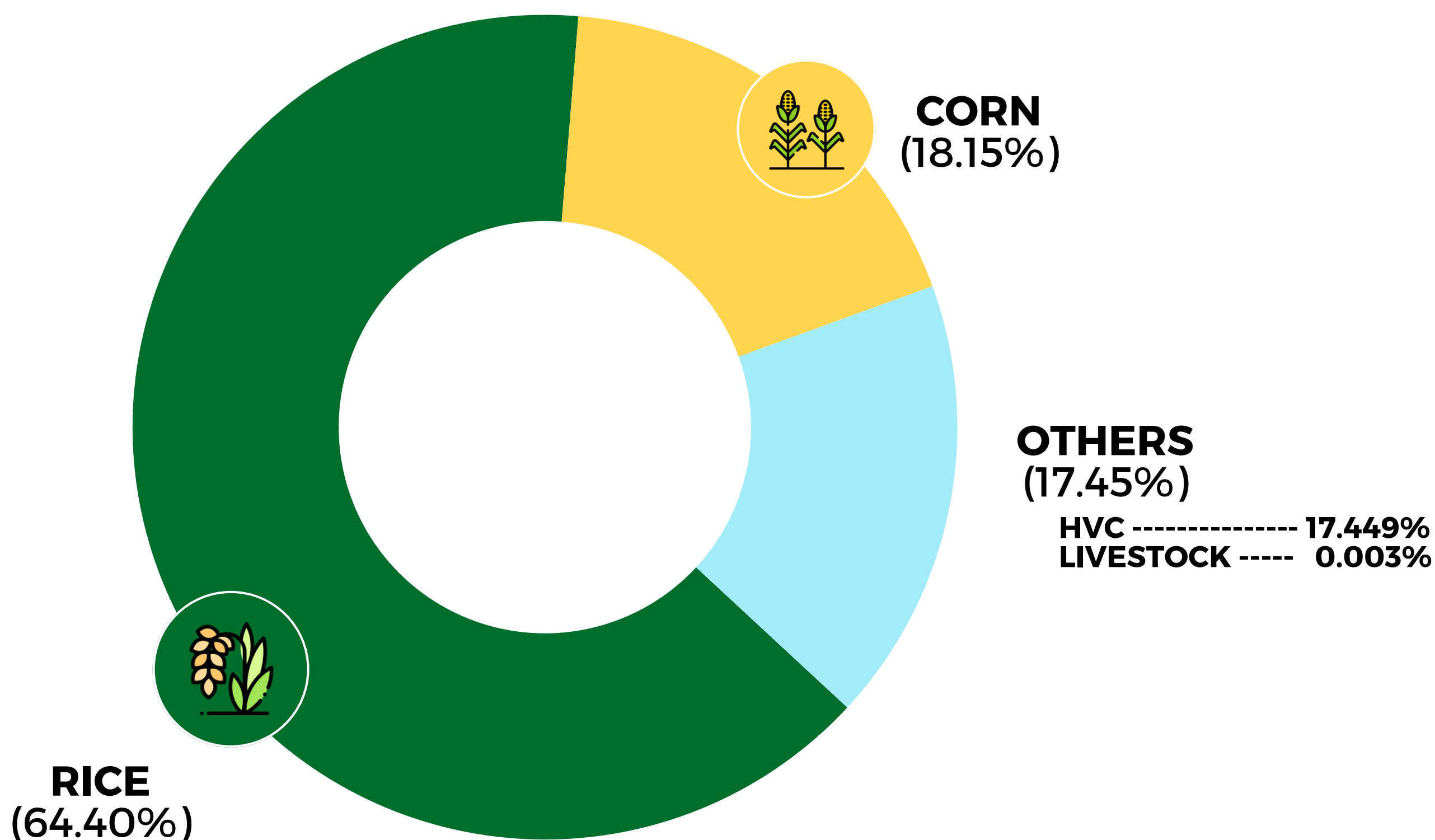
- Ambuklao Dam Rule Curve
- Ambuklao Dam Water Level (2023)
- Ambuklao Dam Water Level (2024)
- Binga Dam Rule Curve
- Binga Dam Water Level (2023)
- Binga Dam Water Level (2024)



**BULLETIN NO. 05** **Effects of El Niño**  
 March 14, 2024 | 09:00 AM

**DAMAGE AND LOSSES**

**PERCENTAGE DISTRIBUTION  
 PER COMMODITY (PHP)**



**29,437**  
 Farmers Affected



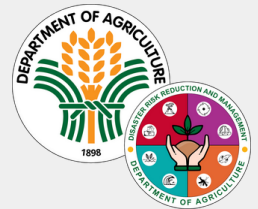
**32,231 Ha**  
 25,315 Ha (78.54%)  
 With chance of recovery  
 6,917 Ha (21.46%)  
 Without chance of recovery  
**Area Affected**



**75,092 MT**  
 Volume Loss

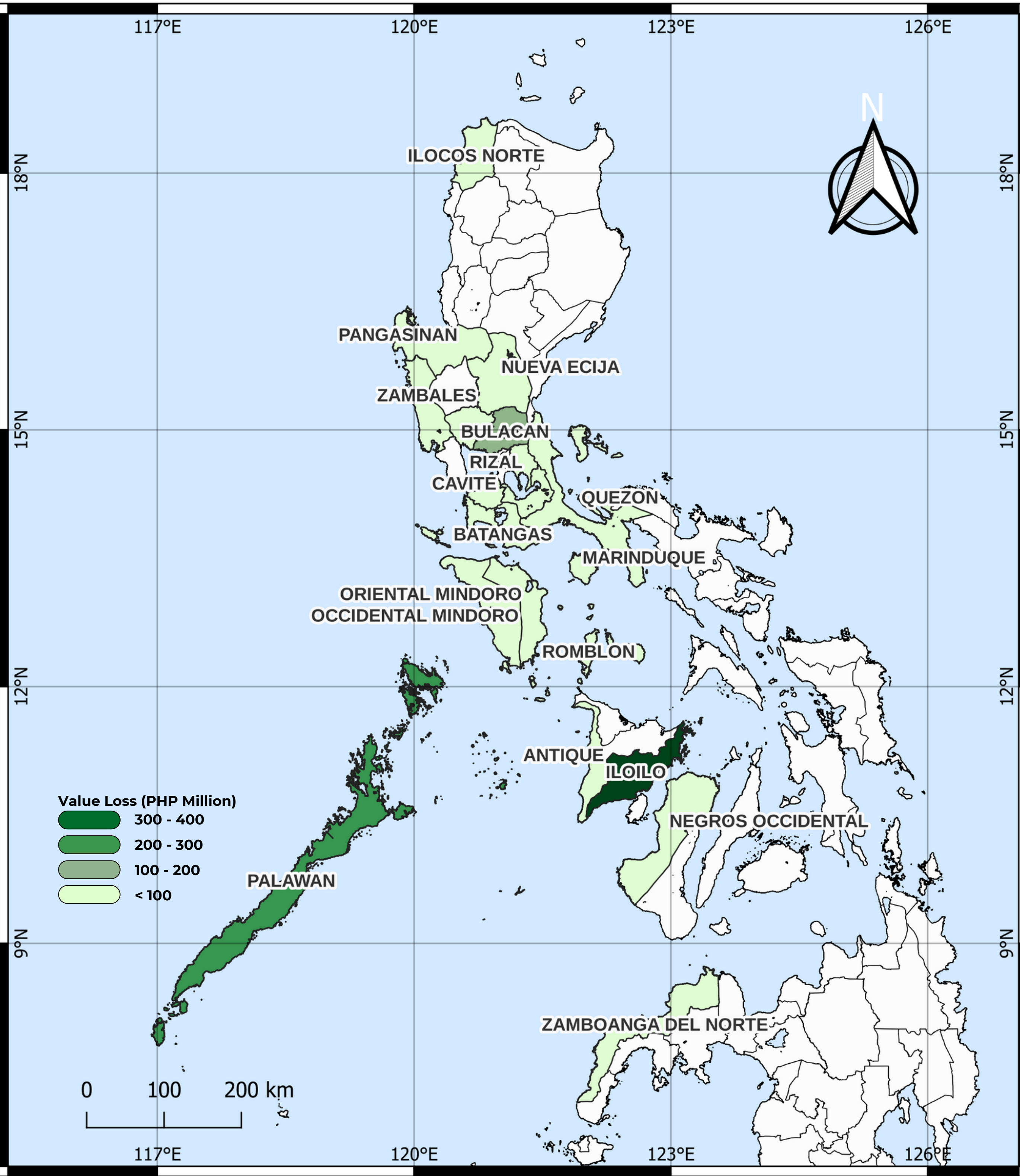


**₱1.75 B**  
 Value Loss



**BULLETIN NO. 05** **Effects of El Niño**  
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**DAMAGE AND LOSSES**



# RICE



## 18,651 Ha

12,332 Ha (66.12%) With Chance of Recovery  
6,320 Ha (33.88%) Without Chance of Recovery

### Area Affected



## 48,332 MT

Volume Loss



## ₱1.13B

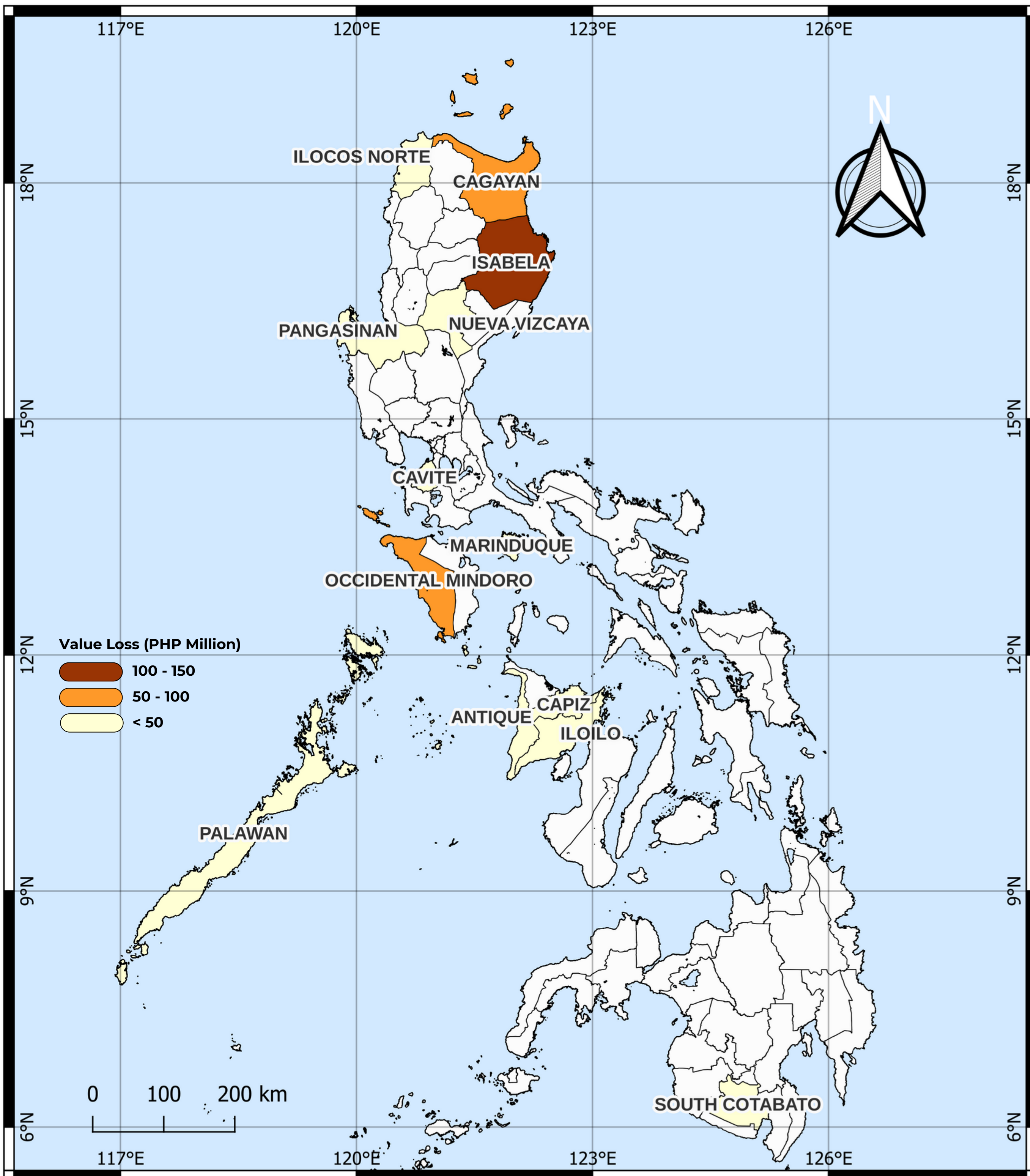
Total Value

- Most of the damage and losses on rice are in reproductive and maturity stages



**BULLETIN NO. 05** **Effects of El Niño**  
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**DAMAGE AND LOSSES**



**CORN**



**11,382 Ha**

**10,875 Ha (95.55%)**   **507 Ha (4.45%)**  
With Chance of Recovery   Without Chance of Recovery

**Area Affected**

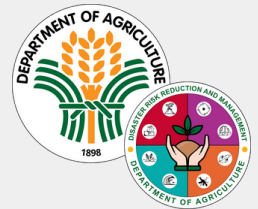


**18,966 MT**  
**Volume Loss**



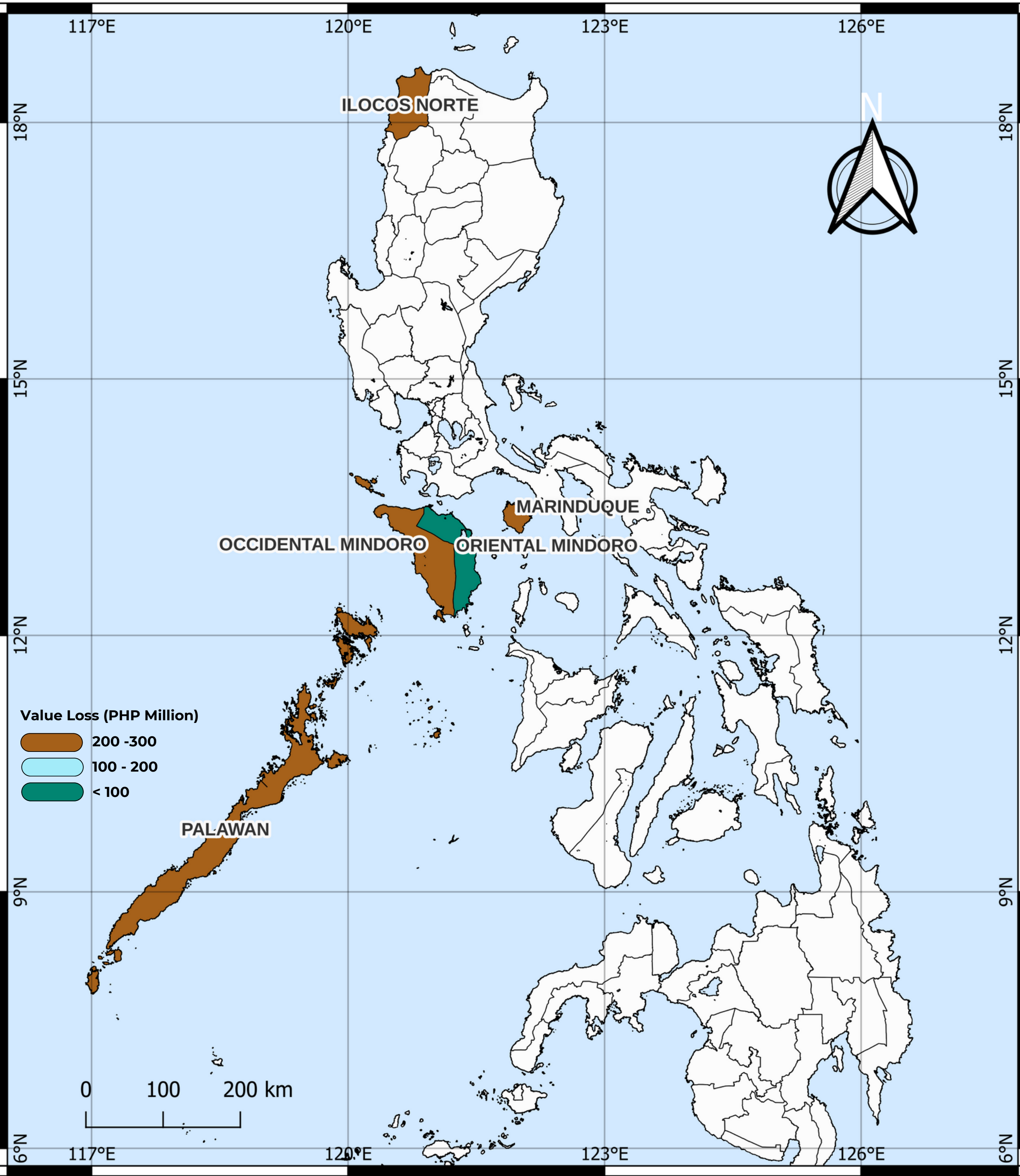
**₱317.86 M**  
**Total Value**

- Most of the damage and losses on corn are in reproductive and maturity stages



**BULLETIN NO. 05** **Effects of El Niño**  
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**DAMAGE AND LOSSES**



**HVC**

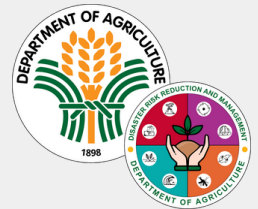
**2,198 Ha**

2,108 Ha (95.91%) With Chance of Recovery	90 Ha (4.09%) Without Chance of Recovery
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**Area Affected**

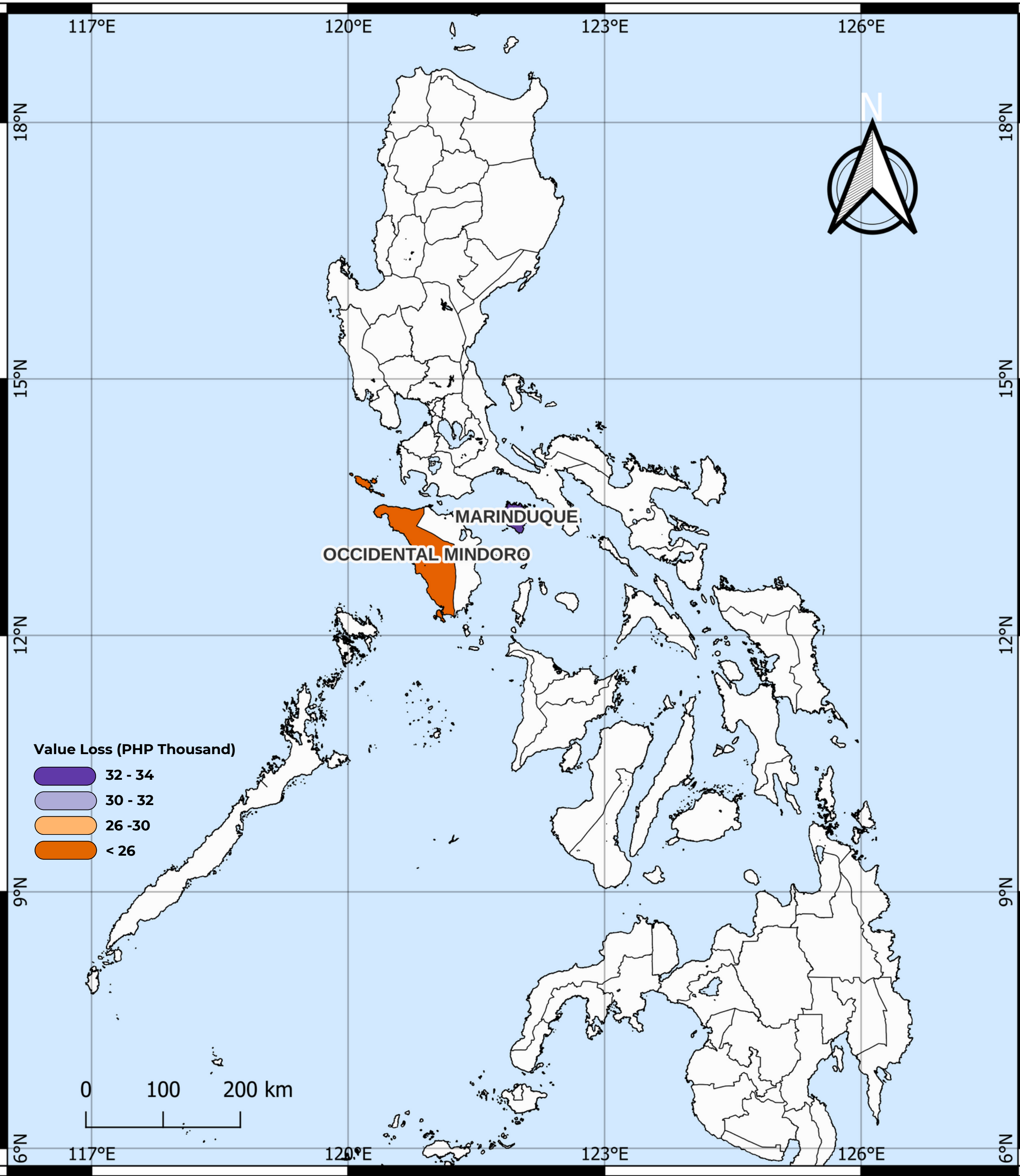
**7,794 MT**  
Volume Loss

**₱305.55 M**  
Total Value



**BULLETIN NO. 05** **Effects of El Niño**  
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**DAMAGE AND LOSSES**



**LIVESTOCK & POULTRY**



**32 Heads**  
No. Head



**₱59.6K**  
Total Value

**BULLETIN** **Effects of El Niño**  
**NO. 05** March 14, 2024 | 09:00 AM

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## **ASSISTANCE PROVIDED**

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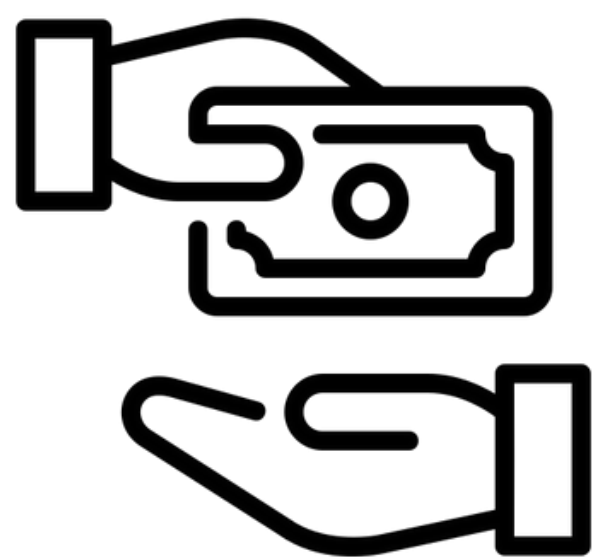
**PHP 379.06 M**  
worth of assistance provided by  
DA Regional Field Offices

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**PHP 16.49 M**

worth of mungbean, hybrid rice seeds and fertilizers  
Location: Region VI



**PHP 362.56 M**

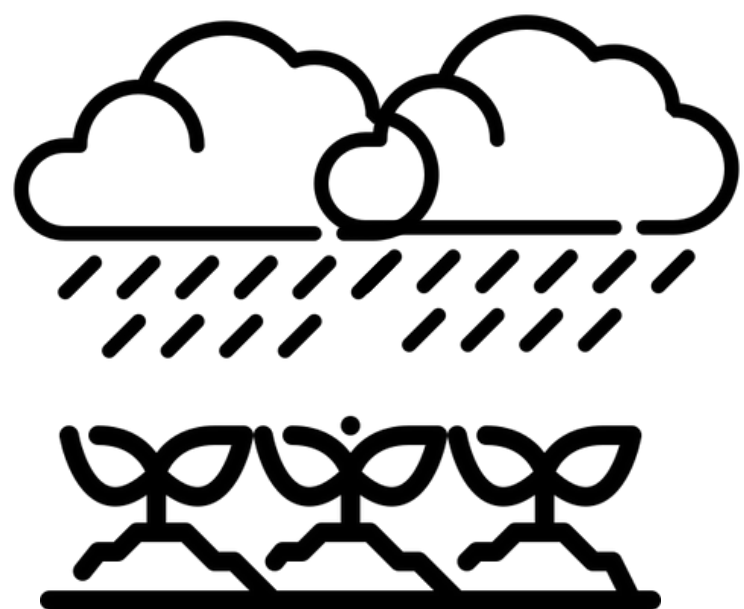
worth of financial assistance through RFFA  
Location: Region IV-B

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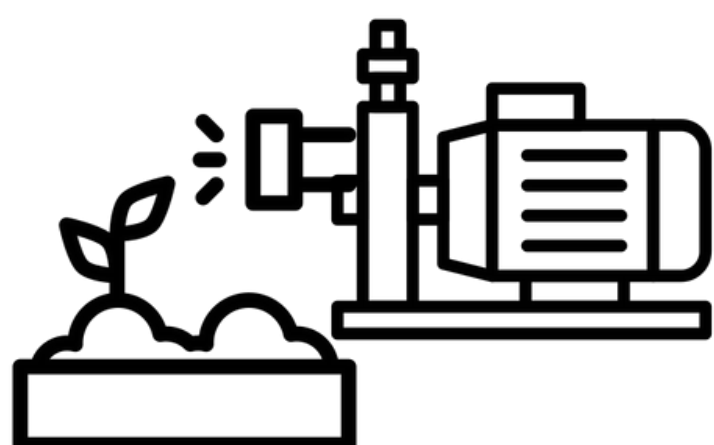
**ASSISTANCE PROVIDED**

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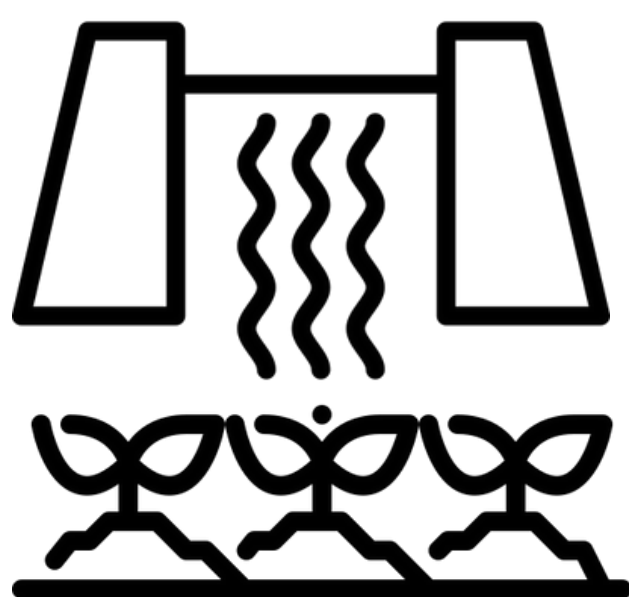
**Cloudseeding Operations<sup>1</sup>**

in collaboration with DOST-PAGASA & DND-PAF  
Location: Southern Cagayan & Northern Isabela  
in Region II



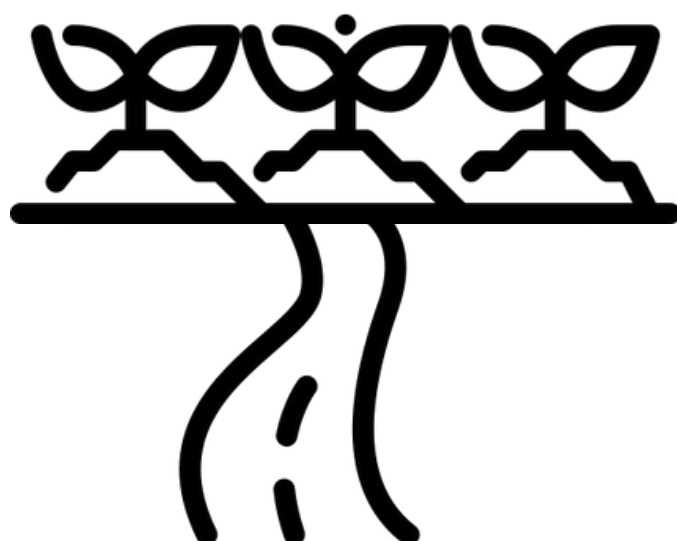
**570 water pumps<sup>2</sup>**

were distributed to augment water supply  
Location: Regions II, III, IV-B, and VI



**847.8 kilometers of irrigation canal<sup>2</sup>**

were concreted to improve water delivery to agri areas  
Location: Nationwide



**3,167.9 kilometers of irrigation canal<sup>2</sup>**

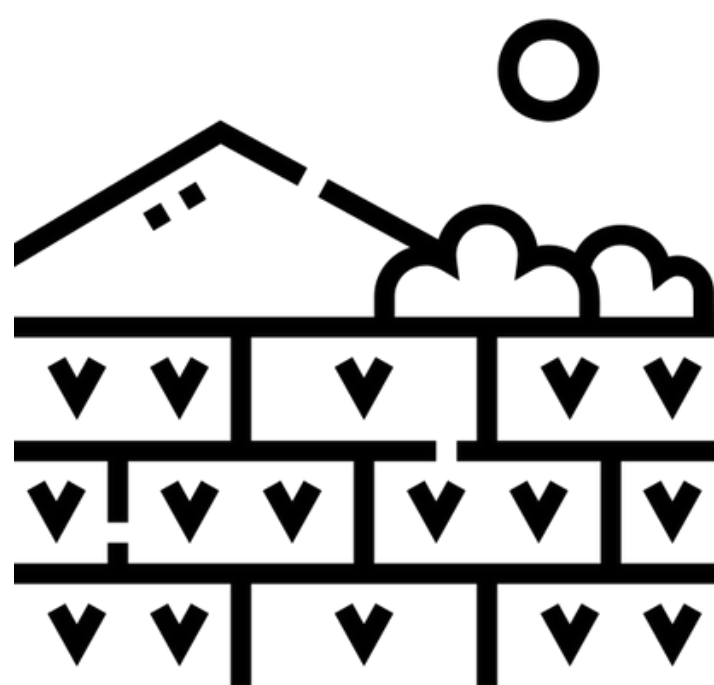
were desilted to improve water flow  
Location: Nationwide

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**ASSISTANCE PROVIDED**

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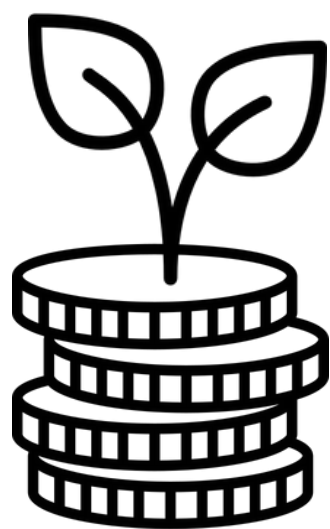
**162,623 hectares**

of agricultural areas reduced water consumption through alternate wetting-and-drying method  
Location: Regions I, MARIIS, III, UPRIIS, IV-A, IV-B, V, IX, X, XI, XII



**3,878 hectares**

implemented Quick Turnaround Strategy in farming  
Location: Regions II, III, IV-B, XI



**PhP 1.24 M**

worth of PCIC indemnification  
Location: Region I, III, and IV-B

DEPARTMENT OF AGRICULTURE  
 PROGRESS DAMAGE AND LOSSES REPORT  
 CAUSED BY EL NINO

**NATIONAL SUMMARY**

As of March 13, 2024 as of 5:00PM

COMMODITY	NO. OF FARMERS AFFECTED	AREA AFFECTED (HA)			VOLUME LOSS (MT)	VALUE LOSS (PhP)
		Totally Damaged	Partially Damaged	Total		
<b>PRODUCTION LOSSES</b>						
RICE	18,149	6,320	12,332	18,651	48,332	1,127,626,700
CORN	8,908	507	10,875	11,382	18,966	317,863,866
HVC	2,370	90	2,108	2,198	7,794	305,548,352
LIVESTOCK & POULTRY	10					59,600
<b>GRAND TOTAL</b>	<b>29,437</b>	<b>6,917</b>	<b>25,315</b>	<b>32,231</b>	<b>75,092</b>	<b>1,751,098,518</b>

REGION/ PROVINCE	TOTAL					
	NO. OF FARMERS/ FISHERFOLK AFFECTED	AREA AFFECTED (HA)			VOLUME LOSS (MT)	VALUE LOSS (PHP)
		TOTALLY DAMAGED	PARTIALLY DAMAGED	TOTAL		
<b>TOTAL</b>	<b>29,437</b>	<b>6,917</b>	<b>25,315</b>	<b>32,231</b>	<b>75,092</b>	<b>1,751,098,518</b>
<b>Region I</b>	<b>2,015</b>	<b>94</b>	<b>934</b>	<b>1,027</b>	<b>2,031</b>	<b>54,450,077</b>
Ilocos Norte	1,831	51	753	805	1,291	33,586,636
Pangasinan	184	42	180	223	741	20,863,440
<b>Region II</b>	<b>6,323</b>	<b>276</b>	<b>8,737</b>	<b>9,013</b>	<b>12,001</b>	<b>180,473,414</b>
Cagayan	1,969	276	1,915	2,191	3,117	51,579,814
Isabela	4,354	-	6,400	6,400	8,279	120,047,305
Nueva Vizcaya	-	-	422.1	422	605	8,846,295
<b>Region III</b>	<b>1,298</b>	<b>1,223</b>	<b>440</b>	<b>1,663</b>	<b>6,067</b>	<b>158,306,695</b>
Bulacan	1,150	1,158.6	305	1,464	5,921	152,323,772
Nueva Ecija	55	-	82	82	66	1,804,035
Pampanga	40	65	-	65	-	1,856,346
Zambales	53	-	53	53	80	2,322,542
<b>CALABARZON</b>	<b>110</b>	<b>26</b>	<b>103</b>	<b>129</b>	<b>326</b>	<b>7,380,860</b>
Batangas	9	1	8	9	25	475,950
Cavite	28	24	3	27	14	293,500
Laguna	55	1	72.2	73	248	5,508,355
Rizal	8	-	8	8	-	72,000
Quezon	10	0.4	12	12	39	1,031,055
<b>MIMAROPA</b>	<b>7,699</b>	<b>4,250</b>	<b>5,233</b>	<b>9,483</b>	<b>28,556</b>	<b>770,450,441</b>
Romblon	16	15	-	15	53	735,000
Occidental Mindoro	3,382	377	3,834	4,211	6,606	172,886,299
Oriental Mindoro	1,449	781	885	1,666	9,563	346,044,477
Palawan	2,477	3,009	438	3,447	12,129	245,501,966
Marinduque	375	68	76	144	205	5,282,699
<b>Region VI</b>	<b>11,661</b>	<b>1,006</b>	<b>9,512</b>	<b>10,519</b>	<b>25,428</b>	<b>564,056,192</b>
Antique	2,845	179	1,904	2,083	4,975	102,945,809
Capiz	30	-	48	48	135	2,702,000
Iloilo	8,225	792	7,080	7,872	19,353	434,182,674
Negros Occidental	561	35	480	515	965	24,225,710
<b>Region IX</b>	<b>280</b>	<b>36</b>	<b>288</b>	<b>324</b>	<b>547</b>	<b>13,609,747</b>
Zamboanga del Norte	280	36	288	324	547	13,609,747
<b>Region XII</b>	<b>51</b>	<b>6</b>	<b>67</b>	<b>73</b>	<b>135</b>	<b>2,371,092</b>
South Cotabato	51	6	67	73	135	2,371,092



REGION/ PROVINCE	RICE					
	NO. OF FARMERS AFFECTED	AREA AFFECTED (HA)			VOLUME LOSS (MT)	VALUE LOSS (PHP)
		TOTALLY DAMAGED	PARTIALLY DAMAGED	TOTAL		
<b>TOTAL</b>	<b>18,149</b>	<b>6,320</b>	<b>12,332</b>	<b>18,651</b>	<b>48,332</b>	<b>1,127,626,700</b>
<b>Region I</b>	<b>900</b>	<b>61</b>	<b>512</b>	<b>573</b>	<b>1,073</b>	<b>32,534,652</b>
Ilocos Norte	797	18	381	400	332	12,178,007
Pangasinan	103	42	131	174	741	20,356,645
<b>Region III</b>	<b>1,298</b>	<b>1,223</b>	<b>440</b>	<b>1,663</b>	<b>6,067</b>	<b>158,306,695</b>
Bulacan	1,150	1,159	305	1,464	5,921	152,323,772
Nueva Ecija	55	-	82	82	66	1,804,035
Pampanga	40	65	-	65	-	1,856,346
Zambales	53	-	53	53	80	2,322,542
<b>CALABARZON</b>	<b>83</b>	<b>2</b>	<b>100</b>	<b>102</b>	<b>313</b>	<b>7,099,260</b>
Batangas	9	1	8	9	25	475,950
Cavite	1	-	1	1	1	11,900
Laguna	55	1	72.2	73	248	5,508,355
Rizal	8	-	8	8	-	72,000
Quezon	10	0.4	12	12	39	1,031,055
<b>MIMAROPA</b>	<b>4,873</b>	<b>4,101</b>	<b>2,314</b>	<b>6,415</b>	<b>18,128</b>	<b>411,726,926</b>
Romblon	16	15	-	15	53	735,000
Occidental Mindoro	1,479	341	1,611	1,952	3,478	92,858,688
Oriental Mindoro	750	762	225	987	2,513	76,243,177
Palawan	2,325	2,936	407	3,343	11,898	236,992,862
Marinduque	303	47	71	118	188	4,897,199
<b>Region VI</b>	<b>10,715</b>	<b>897</b>	<b>8,676</b>	<b>9,573</b>	<b>22,203</b>	<b>504,349,420</b>
Antique	2,420	103	1,661	1,763	4,435	92,906,914
Iloilo	7,734	759	6,536	7,295	16,803	387,216,796
Negros Occidental	561	35	480	515	965	24,225,710
<b>Region IX</b>	<b>280</b>	<b>36</b>	<b>288</b>	<b>324</b>	<b>547</b>	<b>13,609,747</b>
Zamboanga del Norte	280	36	288	324	547	13,609,747

REGION/ PROVINCE	CORN					
	NO. OF FARMERS AFFECTED	AREA AFFECTED (HA)			VOLUME LOSS (MT)	VALUE LOSS (PHP)
		TOTALLY DAMAGED	PARTIALLY DAMAGED	TOTAL		
<b>TOTAL</b>	<b>8,908</b>	<b>507</b>	<b>10,875</b>	<b>11,382</b>	<b>18,966</b>	<b>317,863,866</b>
<b>Region I</b>	<b>1,010</b>	<b>33</b>	<b>402</b>	<b>435</b>	<b>897</b>	<b>18,383,580</b>
Ilocos Norte	929	33	353	386	897	17,876,785
Pangasinan	81	-	49	49	-	506,795
<b>Region II</b>	<b>6,323</b>	<b>276</b>	<b>8,737</b>	<b>9,013</b>	<b>12,001</b>	<b>180,473,414</b>
Cagayan	1,969	276	1,915	2,191	3,117	51,579,814
Isabela	4,354	-	6,400	6,400	8,279	120,047,305
Nueva Vizcaya	-	-	422	422	605	8,846,295
<b>CALABARZON</b>	<b>27</b>	<b>24</b>	<b>3</b>	<b>26</b>	<b>13</b>	<b>281,600</b>
Cavite	27	24	3	26	13	281,600
<b>MIMAROPA</b>	<b>551</b>	<b>59</b>	<b>830</b>	<b>889</b>	<b>2,695</b>	<b>56,647,409</b>
Occidental Mindoro	501	22	801	823	2,557	53,388,183
Palawan	45	37	27	64	129	3,171,726
Marinduque	5	1	2	3	9	87,500
<b>Region VI</b>	<b>946</b>	<b>110</b>	<b>836</b>	<b>946</b>	<b>3,225</b>	<b>59,706,772</b>
Antique	425	77	244	320	539	10,038,895
Capiz	30	-	48	48	135	2,702,000
Iloilo	491	33	544	577	2,550	46,965,878
<b>Region XII</b>	<b>51</b>	<b>6</b>	<b>67</b>	<b>73</b>	<b>135</b>	<b>2,371,092</b>
South Cotabato	51	6	67	73	135	2,371,092

REGION/ PROVINCE	HVC					
	NO. OF FARMERS AFFECTED	AREA AFFECTED (HA)			VOLUME LOSS (MT)	VALUE LOSS (PHP)
		TOTALLY DAMAGED	PARTIALLY DAMAGED	TOTAL		
<b>TOTAL</b>	<b>2,370</b>	<b>90</b>	<b>2,108</b>	<b>2,198</b>	<b>7,794</b>	<b>305,548,352</b>
<b>Region I</b>	<b>105</b>	<b>-</b>	<b>19</b>	<b>19</b>	<b>61</b>	<b>3,531,845</b>
Ilocos Norte	105	-	19	19	61	3,531,845
<b>MIMAROPA</b>	<b>2,265</b>	<b>90</b>	<b>2,089</b>	<b>2,179</b>	<b>7,733</b>	<b>302,016,507</b>
Occidental Mindoro	1,395	14	1,423	1,436	571	26,613,828
Oriental Mindoro	699	19	660	679	7,050	269,801,300
Palawan	107	37	4	40	102	5,337,379
Marinduque	64	21	3	23	9	264,000

REGION/ PROVINCE	LIVESTOCK & POULTRY		
	NO. OF FARMERS AFFECTED	NO. OF HEAD	ESTIMATED VALUE (PHP)
<b>TOTAL</b>	<b>10</b>	<b>32</b>	<b>59,600</b>
<b>MIMAROPA</b>	<b>10</b>	<b>32</b>	<b>59,600</b>
Occidental Mindoro	7	29	25,600
Marinduque	3	3	34,000

REGION/ PROVINCE	LIVESTOCK & POULTRY		
	NO. OF FARMERS AFFECTED	NO. OF HEAD	ESTIMATED VALUE (PHP)
<b>TOTAL</b>	<b>10</b>	<b>32</b>	<b>59,600</b>
<b>MIMAROPA</b>	<b>10</b>	<b>32</b>	<b>59,600</b>
Occidental Mindoro	7	29	25,600
Marinduque	3	3	34,000