



## NDRRMC UPDATE

### Severe Weather Bulletin No. 10 re Super Typhoon “LAWIN” (I.N. HAIMA)

Releasing Officer:

  
USEC. RICARDO B. JALAD  
Executive Director, NDRRMC and  
Administrator, OCD

DATE : 19 October 2016

Source: PAGASA-DOST

#### I. SITUATION OVERVIEW

**“LAWIN” intensified into a Super Typhoon and maintains its serious threat as it move closer to Cagayan-Isabela area.**

- Estimated rainfall amount is from moderate to heavy within the **800 km** diameter of the **Super** Typhoon.
- It is expected to make landfall over Cagayan - Isabela Area late tonight up to tomorrow early morning (October 20, 2016) then will cross Apayao and Ilocos Norte
- Possible to exit PAR tomorrow evening (20 October 2016) or on Friday early morning (21 October 2016)
- Sea travel is risky over the eastern seaboard of Southern Luzon and the northern and eastern seaboard of Samar

|                               |  |
|-------------------------------|--|
| <b>Location of Eye/Center</b> | At <b>1:00 PM</b> today, the eye of <b>Super</b> Typhoon “LAWIN” was located based on all available data at <b>300 km East of Casiguran, Aurora (16.5°N, 124.9°E)</b>  |
| <b>Strength</b>               | Maximum sustained winds of up to <b>225 kph</b> near the center and gustiness of up to <b>315 kph</b>  |
| <b>Forecast Movement</b>      | Forecast to move <b>West Northwest at 24 kph</b>   |
| <b>Forecast Positions</b>     | <ul style="list-style-type: none"><li>• <b>24 Hour (Tomorrow Morning):</b><br/><i>75 km West of Laoag City, Ilocos Norte (18.3°N, 119.9°E)</i></li><li>• <b>48 Hour (Friday Morning):</b><br/><i>640 km West Northwest of Laoag City, Ilocos Norte (OUTSIDE PAR) (21.0°N, 115.3°E)</i></li><li>• <b>72 Hour (Saturday Morning):</b><br/><i>1,050 km Northwest of Basco, Batanes (OUTSIDE PAR) (25.9°N, 113.6°E)</i></li><li>• <b>96 Hour (Sunday Morning):</b><br/><i>970 km North Northwest of Basco, Batanes (OUTSIDE PAR) (28.5°N, 118.4°E)</i></li><li>• <b>120 hour (Monday Morning):</b></li></ul> |

| 1,080 km North Northeast of Basco, Batanes (OUTSIDE PAR) (29.2°N, 126.6°E) |   |         |          |   |
|--|---|---------|----------|---|
| TROPICAL CYCLONE WARNING SIGNAL  |   |         |          |   |
| TCWS   | Luzon   | Visayas | Mindanao | Impacts of the wind   |
| <b>5 (More than 220 kph Expected in 12 hours)</b>                          | <b>Cagayan and Isabela</b>  |         |          | <ul style="list-style-type: none"> <li>• Widespread damage to high risk structures</li> <li>• Heavy damage to medium risk structures</li> <li>• Very heavy damage to low risk structures</li> <li>• Almost total damage to structures of light materials especially in highly exposed coastal areas</li> <li>• Complete roof failure on many residences and industrial building. Severe and extensive window and door damage</li> <li>• Most residential and institutional buildings of mixed construction may be severely damaged</li> <li>• Electrical power distribution and communication services severely disrupted</li> <li>• All signs and billboard blown down</li> <li>• Total damage to Banana plantation</li> <li>• Most tall trees are broken, uprooted or defoliated</li> <li>• Coconut trees are stooped, broken or uprooted</li> <li>• Few plants and trees survived</li> </ul> |
|  |   |         |          | <ul style="list-style-type: none"> <li>• <b>Wave Height: (Open Sea) &gt; 14.0 meters. Storm Surge 3 m possible at coastal areas.</b></li> </ul>   |
| <b>4 (171-220 kph Expected in 12 hours)</b>                                | <b>Apayao, Kalinga, Ilocos Norte, Abra, Ilocos Sur, Mt. Province, Ifugao and Calayan Group of Islands</b> |         |          | <ul style="list-style-type: none"> <li>• Very heavy damage to high risk structures.</li> <li>• Heavy damage to medium-risk structures.</li> <li>• Moderate damage to low risk structures.</li> <li>• Considerable damage to structures of light materials. Majority of all nipa and cogon houses may be unroofed or destroyed.</li> <li>• Houses of medium strength materials (old,</li> </ul>  |



|  |   |  |  |   |
|--|---|--|--|---|
|  |   |  |  | <p>timber or mixed timber-CHB structures, usually with G.I. roofing's); some warehouses or bodega-type structures are unroofed.</p> <ul style="list-style-type: none"> <li>• There may be widespread disruption of electrical power and communication services</li> <li>• Almost all banana plants are downed</li> <li>• Some big trees (acacia, mango, etc.) are broken or uprooted</li> <li>• Dwarf-type or hybrid coconut trees are tilted or downed</li> <li>• Rice and corn crops may suffer heavy losses</li> </ul>   |
| <p>• <b>Wave Height: (Open Sea) &gt; 14.0 meters. Storm Surge 2-3 m possible at coastal areas.</b></p> |   |  |  |   |
| <p><b>3</b><br/><b>(121-170</b><br/><b>kph</b><br/><b>Expected in</b><br/><b>18 hours)</b></p>         | <p><b>La Union,</b><br/><b>Benguet, Nueva</b><br/><b>Vizcaya, Quirino</b><br/><b>and Northern</b><br/><b>Aurora</b></p> |  |  | <ul style="list-style-type: none"> <li>• Heavy damage to high risk structures.</li> <li>• Moderate damage to medium-risk structures.</li> <li>• Light damage to low risk structures.</li> <li>• Increasing damage (up to more than 50%) to old dilapidated residential structures and houses of light materials. Majority of all nippa and cogon houses may be unroofed or destroyed.</li> <li>• Houses of medium strength materials (old, timber or mixed timber-CHB structures, usually with G.I. roofing's); some warehouses or bodega-type structures are unroofed.</li> <li>• There may be widespread disruption of electrical power and communication services</li> <li>• Almost all banana plants are downed</li> <li>• Some big trees (acacia, mango, etc.) are broken or uprooted</li> <li>• Dwarf-type or hybrid coconut trees are tilted or downed</li> <li>• Rice and corn crops may suffer heavy losses</li> </ul> |

|   |   |                |                 |   |
|---|---|----------------|-----------------|---|
|   |   |                |                 | <ul style="list-style-type: none"><li>• Damage to shrubbery and trees with foliage blown off; some large trees blown down.</li></ul>  |
| <b>Wave Height: (Open Sea) &gt; 14.0 meters. Storm Surge possible at coastal areas.</b> |   |                |                 |   |
| <b>2</b><br>(61-120 kph<br>Expected in<br>24 hours)                                     | <b>Batanes Group of Islands, Pangasinan, Rest of Aurora, Tarlac, Nueva Ecija, Northern Zambales, and Northern Quezon including Polillio Islands</b> |                |                 | <ul style="list-style-type: none"><li>• Light to moderate damage to high risk structures.</li><li>• Very light to light damage to medium-risk structures.</li><li>• No damage to very light damage to low risk structures.</li><li>• Unshielded, old dilapidated schoolhouses, makeshift shanties, and other structures of light materials are partially damaged or unroofed.</li><li>• A number of nipa and cogon houses may be partially or totally unroofed.</li><li>• Some old galvanized iron (G.I.) roofs may be peeled or blown off.</li><li>• Some wooden, old electric posts are tilted or downed.</li><li>• Some damage to poorly constructed signs/billboards.</li><li>• In general, the winds may bring light to moderate damage to the exposed communities. Most banana plants, a few mango trees, ipil-ipil and similar types of trees are downed or broken.</li><li>• Rice and corns may be adversely affected.</li><li>• Cosiderable damage to shrubbery and trees with some heavy-foliaged trees blown down.</li></ul> |
|   | <b>Wave Height: (Open Sea) 4.1-14.0 meters Storm surge possible at coastal areas</b>  |                |                 |   |
| <b>TROPICAL CYCLONE WARNING SIGNAL</b>  |   |                |                 |   |
| <b>TCWS</b>   | <b>Luzon</b>  | <b>Visayas</b> | <b>Mindanao</b> | <b>Impacts of the wind</b>  |
| <b>1</b><br>(30-60 kph<br>Expected in<br>36 hours)                                      | Rest of Zambales, Bulacan, Bataan, Pampanga, Rizal, <b>rest of</b> Quezon, Cavite, Laguna, <b>Batangas,</b>   |                |                 | <ul style="list-style-type: none"><li>• Very light or no damage to low risk structures.</li><li>• Light damage to medium to high risk structures</li><li>• Slight damage to some</li></ul>  |

|  |   |  |  |   |
|--|---|--|--|---|
|  | Camarines Norte,<br>Camarine Sur ,<br>Catanduanes,<br><b>Albay</b> , and Metro<br>Manila, |  |  | houses of very light materials or makeshift structures in exposed communities. Some banana plants are tilted, a few downed and leaves are generally damaged.<br>• Twigs of small trees maybe broken.<br>• Rice crops, however, may suffer significant damage when it is in its flowering stage. |
|  | Wave Height: (Open Sea) 1.25-4.0 meters   |  |  |   |

The public and the disaster risk reduction and management councils (DRRMCs) concerned are advised to take appropriate actions and watch for the next weather bulletin to be issued at **5 PM today**.

## II. ACTIONS TAKEN

- NDRRM Operations Center disseminated **Severe Weather Bulletin No. 10 for Super Typhoon "LAWIN"** to all OCD Regional Offices through SMS and facsimile and uploaded on the NDRRMC website for further dissemination to their respective local DRRMCs from the provincial down to the municipal levels.
- Directed RDRRMCs concerned through the OCD Regional Offices to undertake precautionary measures in their areas of responsibility (AOR) and subsequently advised local DRRMCs to initiate pre-emptive evacuation of families in low-lying areas and mountainous areas if situations warrants.