



## Dengue Surveillance Update

Dengue fever and the more severe form, dengue hemorrhagic fever, are caused by any of the four serotypes of dengue virus (types 1, 2, 3, and 4). An infected day-biting female Aedes mosquito transmits this viral disease to humans. This report provides data from the period of January 1 to November 24, 2018 or Morbidity Weeks 1 – 47.

## PIDSR Case Definition for Dengue Diseases

### Clinical Classification

- **Dengue Without Warning Signs**

A previously well person with acute febrile illness of 2-7 days duration plus two of the following:

- Headache
- Body malaise
- Myalgia
- Arthralgia
- Retro-orbital pain
- Anorexia
- Nausea
- Vomiting
- Diarrhea
- Flushed skin
- Rash (petechial, Herman's sign)

- **Dengue With Warning Signs**

A previously well person with acute febrile illness of 2-7 days duration plus any one of the following:

- Abdominal pain or tenderness
- Persistent vomiting
- Clinical signs of fluid accumulation
- Mucosal bleeding
- Lethargy, restlessness
- Liver enlargement
- Laboratory: increase in Hct and/or decreasing platelet count

- **Severe Dengue**

A previously well person with acute febrile illness of 2-7 days duration and any of the clinical manifestations for dengue with or without warning signs,

Plus any of the following:

**Severe plasma leakage leading to**

- Shock
- Fluid accumulation with respiratory distress

**Severe bleeding**

**Severe organ impairment**

- Liver: AST or ALT  $\geq 1000$
- CNS: e.g. seizures, impaired consciousness
- Heart: e.g. myocarditis
- Kidneys: e.g. renal failure

### Case Classification

- **Suspect**

A previously well person with acute febrile illness of 2-7 days duration with clinical signs and symptoms of dengue

- **Probable**

A suspect case plus:

Laboratory test, at least CBC (leucopenia with or without thrombocytopenia) and/or Dengue NS1, antigen test or dengue IgM antibody test (optional)

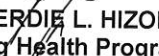
- **Confirmed**

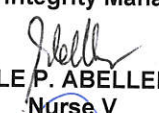
- Viral culture isolation,
- Polymerase Chain Reaction

### Editorial Board

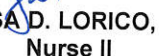
  
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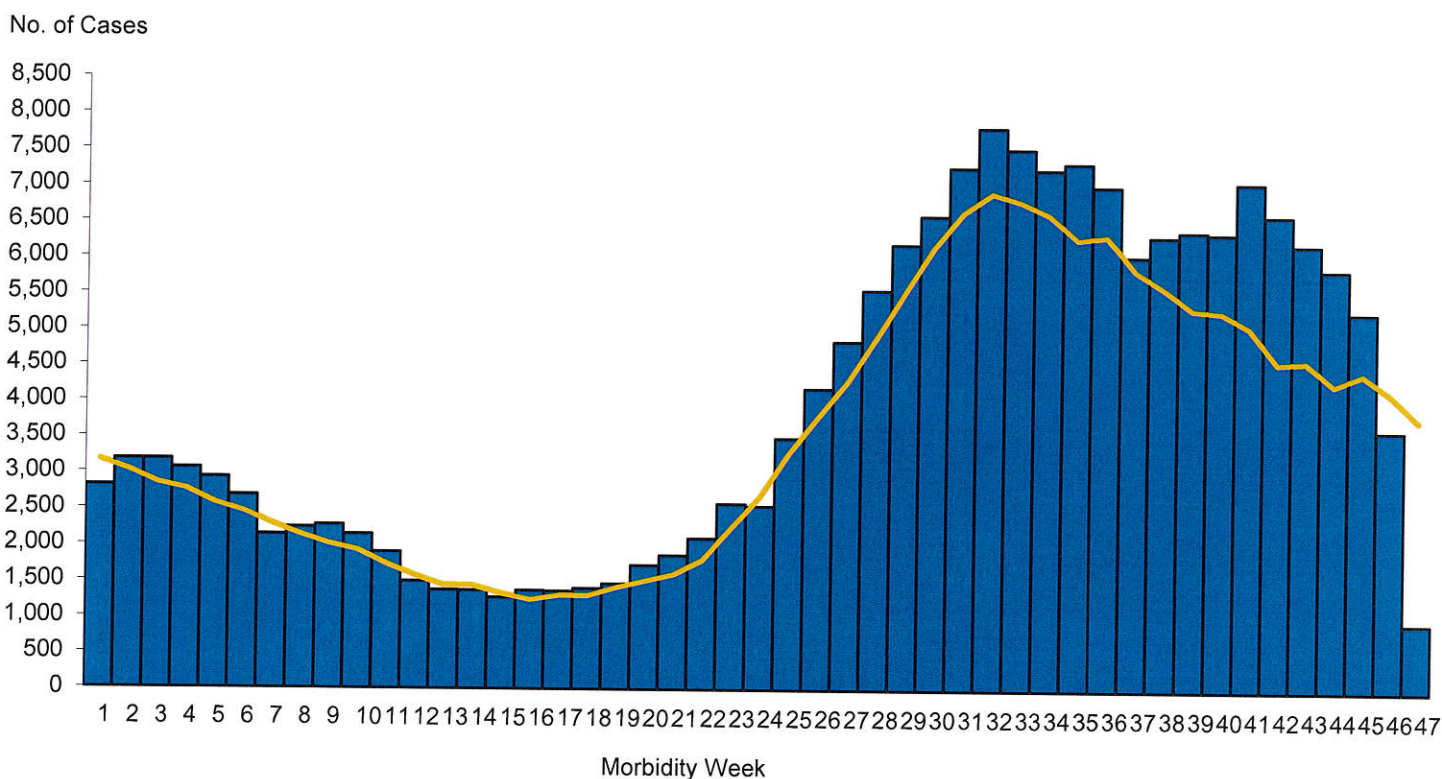




## I. Trend in the Philippines

A total of **186,319** Dengue cases were reported nationwide from January 1 to November 24, 2018. This is **34%** higher compared to the same period last year (**138,579**). Figure 1 shows weekly data of reported dengue cases in 2018 compared to 5-year average same time period.

**Figure 1. Reported Dengue Cases by Morbidity Week vs 5-Year Average**  
Philippines, January 1 - November 24, 2018 (N=186,319)



## II. Geographic Distribution

Table 1 shows that majority of the cases were from the following regions: **Region III** (15%), **NCR** (14%) **Region IV-A** (12%), **Region VI** and **Region VII** (8%).

The regions with the highest percent increase in the number of reported cases for this year compared to last year were: **ARMM** (392%), **MIMAROPA** (162%), **CARAGA** (115%), **Region VIII** (97%), **Region X** (95%), **Region I** (77%), **Region II** (66%), and **CAR** (57%).



**Table 1. Reported Dengue Cases by Region**  
Philippines, January 1 – November 24, 2018 vs January 1 – November 24, 2017

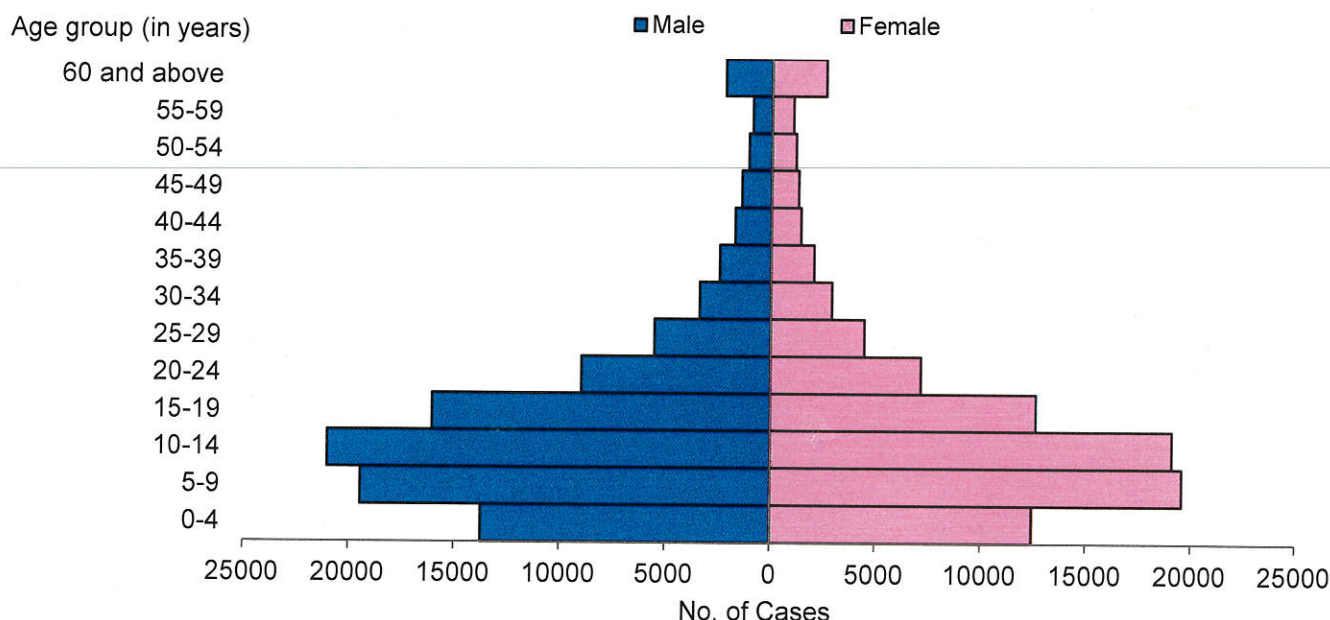
Region	2018		2017		% Change of Reported Cases
	Cases	Deaths	Cases	Deaths	
<b>PHILIPPINES</b>	<b>186,319</b>	<b>942</b>	<b>138,579</b>	<b>733</b>	<b>↑34</b>
<b>I</b>	<b>12,864, (7%)</b>	<b>44, (5%)</b>	<b>7,285, (5%)</b>	<b>19, (3%)</b>	<b>↑77</b>
<b>II</b>	<b>7,937, (4%)</b>	<b>27, (3%)</b>	<b>4,785, (3%)</b>	<b>32, (4%)</b>	<b>↑66</b>
<b>III</b>	<b>28,262, (15%)</b>	<b>70, (7%)</b>	<b>22,407, (16%)</b>	<b>71, (10%)</b>	<b>↑26</b>
<b>IV-A</b>	<b>22,623, (12%)</b>	<b>127, (13%)</b>	<b>19,403, (14%)</b>	<b>90, (12%)</b>	<b>↑17</b>
<b>MIMAROPA</b>	<b>6,660, (4%)</b>	<b>48, (5%)</b>	<b>2,540, (2%)</b>	<b>12, (2%)</b>	<b>↑162</b>
<b>V</b>	<b>2,809, (2%)</b>	<b>27, (3%)</b>	<b>2,831, (2%)</b>	<b>23, (3%)</b>	<b>↓1</b>
<b>VI</b>	<b>14,267, (8%)</b>	<b>88, (9%)</b>	<b>9,462, (7%)</b>	<b>78, (11%)</b>	<b>↑51</b>
<b>VII</b>	<b>15,623, (8%)</b>	<b>102, (11%)</b>	<b>12,741, (9%)</b>	<b>110, (15%)</b>	<b>↑23</b>
<b>VIII</b>	<b>7,779, (4%)</b>	<b>42, (4%)</b>	<b>3,943, (3%)</b>	<b>22, (3%)</b>	<b>↑97</b>
<b>IX</b>	<b>5,286, (3%)</b>	<b>53, (6%)</b>	<b>4,391, (3%)</b>	<b>26, (4%)</b>	<b>↑20</b>
<b>X</b>	<b>12,215, (7%)</b>	<b>63, (7%)</b>	<b>6,254, (5%)</b>	<b>24, (3%)</b>	<b>↑95</b>
<b>XI</b>	<b>4,987, (3%)</b>	<b>17, (2%)</b>	<b>3,271, (2%)</b>	<b>23, (3%)</b>	<b>↑52</b>
<b>XII</b>	<b>6,653, (4%)</b>	<b>27, (3%)</b>	<b>9,028, (7%)</b>	<b>35, (5%)</b>	<b>↓26</b>
<b>ARMM</b>	<b>2,120, (1%)</b>	<b>23, (2%)</b>	<b>431, (0.3%)</b>	<b>2, (0.3%)</b>	<b>↑392</b>
<b>CAR</b>	<b>5,651, (3%)</b>	<b>11, (1%)</b>	<b>3,610, (3%)</b>	<b>12, (2%)</b>	<b>↑57</b>
<b>CARAGA</b>	<b>5,312, (3%)</b>	<b>22, (2%)</b>	<b>2,465, (2%)</b>	<b>12, (2%)</b>	<b>↑115</b>
<b>NCR</b>	<b>25,271, (14%)</b>	<b>151, (16%)</b>	<b>23,732, (17%)</b>	<b>142, (19%)</b>	<b>↑6</b>

### III. Profile of Cases

#### A. Profile of Reported Dengue Cases

Age of suspect cases ranged from less than 1 month to 99 years (median age of 13 years). Majority of the cases (98,250, 53%) were male. Most of the cases belonged to the 10-14 years age group (40,104, 22%) (Figure 2).

**Figure 2. Reported Dengue Cases by Age Group and Sex (N= 186,319)**  
Philippines, January 1 – November 24, 2018



Case counts reported here do NOT represent the final number and are subject to change after inclusion of delayed reports and review of cases. All 2018 data reflects partial data only of all regions.

A PDF file of this report is available at [www.doh.gov.ph/statistics](http://www.doh.gov.ph/statistics).

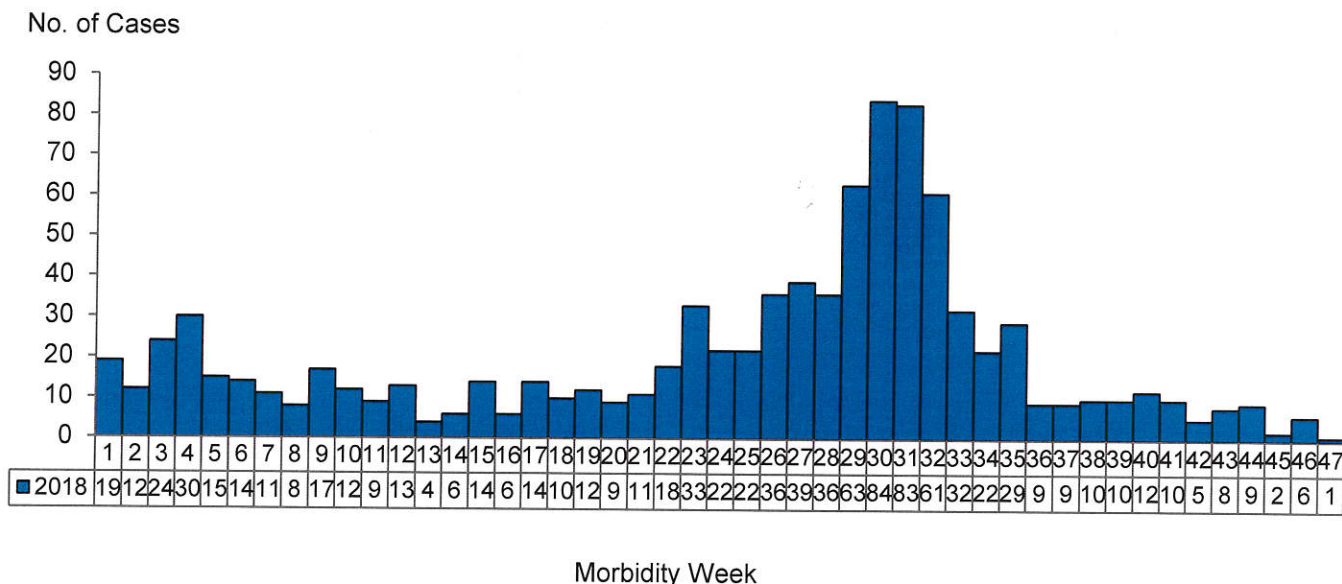




## B. Profile of Confirmed Dengue Cases

Out of 186,319 reported Dengue cases nationwide, **84,631 (45%) cases** were tested. Out of the tested, 941 (1%) cases were confirmed via PCR.

**Figure 3. Confirmed Dengue Cases by Morbidity Week (n=941)**  
Philippines, January 1 – November 24, 2018



Morbidity Week

Table 2 shows that majority of the confirmed Dengue cases were from the following regions: **Region III** (162, 17%), **NCR** (135, 14%), **Region XI** (114, 12%), and **Region I** (104, 11%). The predominant serotype from January 1 to November 24, 2018 is **DENV3** (575 cases, 61%) followed by **DENV 1** (198 cases, 21%), **DENV 2** (141 cases, 15%), **DENV4** (24 cases, 3%) and mixed serotype (3 cases, 0.3%)

**Table 2. Confirmed Dengue Cases by Region and Serotype (n=941)**  
Philippines, January 1 – November 24, 2018

Region	Serotype					Total
	Dengue 1	Dengue 2	Dengue 3	Dengue 4	Mixed Serotype	
<b>PHILIPPINES</b>	<b>198</b>	<b>141</b>	<b>575</b>	<b>24</b>	<b>3</b>	<b>941</b>
I	7	10	85	2	0	104
II	1	2	24	0	0	27
III	28	31	98	5	0	162
IV-A	10	8	49	2	1	70
MIMAROPA	6	3	2	0	0	11
V	4	0	23	0	0	27
VI	3	0	25	0	0	28
VII	1	11	17	3	0	32
VIII	1	9	29	0	0	39
IX	58	3	5	0	0	66
X	12	3	22	0	1	38
XI	32	21	56	5	0	114
XII	3	0	5	0	0	8
ARMM	7	7	16	0	0	30
CAR	7	2	26	2	0	37
CARAGA	3	9	1	0	0	13
NCR	15	22	92	5	1	135

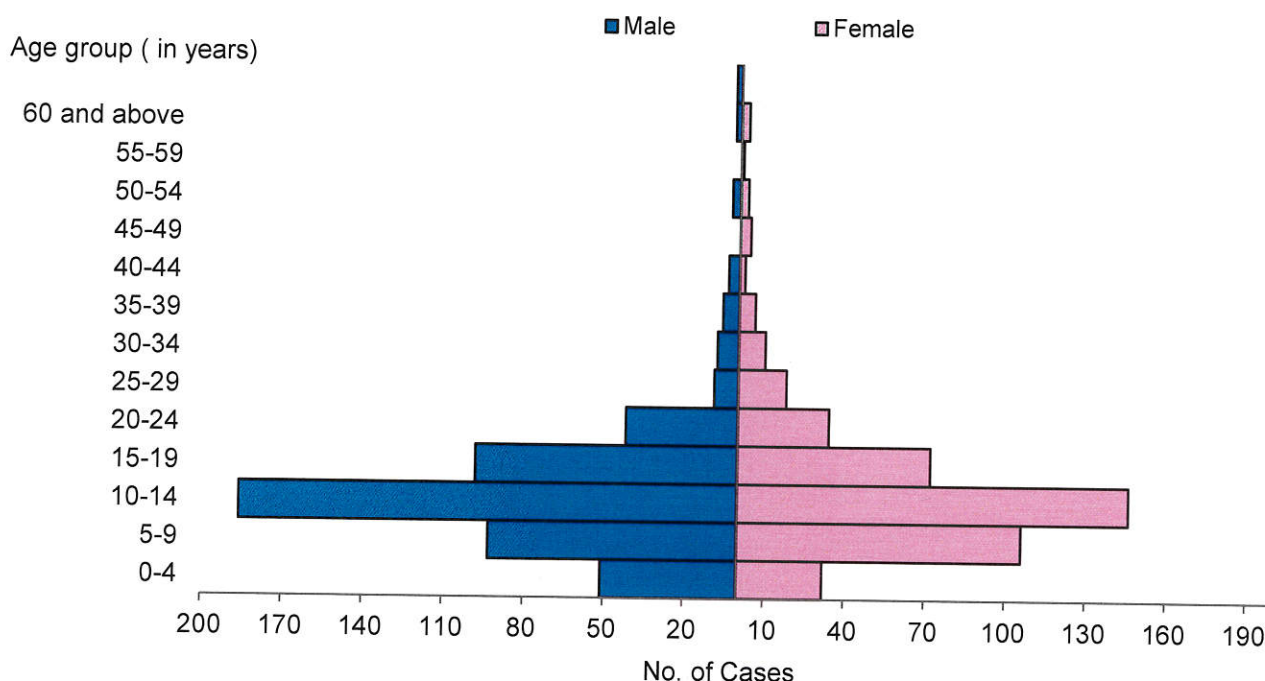
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Age of confirmed Dengue cases ranged from less than 1 year old to 84 years old (median year of 12 years). Majority of the confirmed cases (504, 54%) were male. 332 (35%) of the confirmed cases belonged to the 10-14 years age group (Figure 4).

**Figure 4. Confirmed Dengue Cases by Age Group and Sex (n=941)**  
Philippines, January 1 – November 24, 2018



### C. Profile of Reported Dengue Deaths

There were 942 deaths (CFR = 0.51%) reported from January 1 to November 24, 2018. The case fatality rate is lower compared to the same period last year, 733 deaths (CFR=0.53%). The provinces with the highest number of deaths were: **Rizal** (61 deaths, 6%), **Negros Occidental** (57 deaths, 6%), **Quezon City** (49 deaths, 5%), **Cebu** (45 deaths, 5%), and **Bohol** (43 deaths, 5%).

**Table 3. Top Provinces with Highest Reported Dengue Deaths (n=942)**  
Philippines January 1 – November 24, 2018

Province	Deaths	% among Deaths
Rizal	61	6
Negros Occidental	57	6
Quezon City	49	5
Cebu	45	5
Bohol	43	5



Age of deaths ranged from less than 1 year old to 93 years old (median age of 8 years). Majority (508, 54%) of the cases were female. Most of the reported Dengue deaths belonged to 5-9 years age group (363, 39%) (Figure 5).

**Figure 5. Reported Dengue Deaths by Age Group and Sex (n=942)**  
Philippines, January 1 – November 24, 2018

