= Typhoon Lynn (1987) =

Typhoon Lynn , more commonly known in the Philippines as Typhoon Pepang , was responsible for the worst flooding in Taiwan in 40 years . Typhoon Lynn originated from an area of disturbed weather in the central north Pacific in mid @-@ October 1987 . On October 15 , the system was upgraded into a tropical storm . Moving west @-@ northwest , it slowly deepened over the next few days , though the intensification process briefly stopped on October 15 . Two days later , Lynn was upgraded into a typhoon , while passing northwest of Guam . Lynn maintained low @-@ end typhoon strength until October 19 , when the storm began to rapidly intensify . On October 21 , Lynn attained its peak intensity while tracking towards the west . Weakening then commenced soon after Lynn interacted with Luzon . However , the core of the typhoon remained well offshore both the Philippines and Taiwan . On October 25 , Lynn weakened to a severe tropical storm . Three days later , it dissipated , though its remains later brought rain to China .

While passing near Guam , power was knocked out and 40 residents were evacuated . Throughout the Mariana Islands , 15 families were rendered homeless and damage totaled $ 2 million (1987 USD) . After brushing Luzon , seven people perished , over 30 @,@ 000 homes were damaged , 100 houses were destroyed , and 7 @,@ 000 individuals were left homeless . Damage in the Philippines totaled to $ 25 @.@ 3 million . Even though Lynn passed a bit south of Taiwan , the storm brought widespread damage to the nation . Nine children were swept away and killed on a field trip , while the other 72 survived and were evacuated . In Taipei , 13 persons perished and 2 @,@ 230 people were rescued . Lynn was considered the worst tropical cyclone to affect the city in four decades . Nationwide , 168 @,@ 000 people lost power and 42 casualties occurred .

= = Meteorological history = =

Typhoon Lynn originated from a broad , poorly organized area of convection situated within the monsoon trough roughly 370 km (230 mi) north @-@ northeast of the Marshall Islands in the middle of October 1987 . The Joint Typhoon Warning Center (JTWC) started monitoring the system on October 14 , and later that day , the Japan Meteorological Agency (JMA) followed suit . Following an increase in convection and outflow , the JTWC issued a Tropical Cyclone Formation Alert (TCFA) for the system at 0300 UTC on October 15 about 670 km (415 mi) north @-@ northwest of Pohnpei of the eastern Carolina Islands at the time . Three hours later , the JTWC classified the system as Tropical Storm Lynn based on Dvorak estimates of 65 km / h (40 mph) . At midday , the JMA followed suit and upgraded the system into a tropical storm .

Tracking along the southern periphery of a subtropical ridge , the cyclone decelerated . Lynn gradually intensified , though this process briefly halted on October 17 . Early the next day , the JMA reported that Lynn had deepened into a severe tropical storm . Shortly thereafter , radar data and satellite imagery revealed the formation of an eye 37 km (23 mi) in diameter , and thus the JTWC upgraded Lynn into a typhoon , though post @-@ storm analysis noted that Lynn could have been a typhoon before then . Also around this time , the JMA designated Lynn as a typhoon . At midday , Lynn made its closest approach to Guam , passing around 150 km (95 mi) northeast of the island . Three hours later , Lynn passed 28 km (17 mi) southwest of Tinian before proceeding west @-@ northwest .

After moving away from the Mariana Islands , Lynn initially maintained its intensity , but on August 19 , it began to rapidly intensify . Later that day , the JTWC upgraded Lynn to a super typhoon and early on August 20 , Typhoon Lynn attained winds of 185 km / h (115 mph) according to the JMA . After leveling off in intensity for roughly 24 hours , the JMA estimates that Lynn reached its peak intensity of 195 km / h (120 mph) and a minimum barometric pressure of 920 mbar (27 inHg) . At 0000 UTC on August 21 , the JTWC indicated that Lynn reached its peak intensity of 255 km / h (160 mph) , equivalent to a Category 5 hurricane on the Saffir @-@ Simpson hurricane wind scale . According to the JTWC , Typhoon Lynn was the third typhoon in 1987 to attain such intensity . Meanwhile , the Philippine Atmospheric , Geophysical and Astronomical Services Administration (PAGASA) also monitored the storm and assigned it with the local name Pepang .

Shortly after attaining maximum intensity , Lynn began to track westward while steadily weakening . Initially , the JTWC predicted Lynn to take a more west @-@ northwesterly course , but the European Center for Medium @-@ Range Weather Forecasting (ECMWF) correctly predicted Lynn to move due west due to a subtropical ridge situated north of the cyclone . On October 22 , the JMA indicated that Lynn leveled off in intensity , though at 0000 UTC on October 23 , the cyclone deteriorated slightly . Roughly 24 hours later , the JMA reduced the intensity of Lynn to 145 km / h (90 mph) ; by this time , the typhoon entered the Luzon Straits . Over the next two days , Lynn interacted with mountainous terrain of the Philippines ; however , at its closest approach , the core of the system remained over 200 km (120 mi) offshore . Meanwhile , the weakening process accelerated , and on October 25 , the JMA reported that Lynn was no longer a typhoon . Furthermore , the storm exited PAGASA 's warning zone . Increased wind shear took toll on Lynn , and the next day , satellite imagery indicated that all of the storm 's deep convection was confined north @-@ northeast of the center . At 0000 UTC on October 27 , the JTWC ceased watching the system , though the JMA continued tracking it until the morning of August 28 . The remnants of the storm later brought showers to China .

= = Impact = =

= = = Mariana Islands = = =

Although the eye of Lynn passed just offshore Guam , it brought violent conditions to the island . There , a maximum sustained wind speed of 67 km / h (42 mph) and a peak wind gust of 105 km / h (65 mph) was recorded in Agana . Moreover , 154 @.@ 4 mm (6 @.@ 08 in) of rain fell at a nearby air force base . Power was briefly knocked out for the entire island , though by October 20 , electricity had been restored to most of the island . Around 40 residents were evacuated to shelter along low @-@ lying areas . Several homes sustained serious damages while many others suffered roof damage . The banana and papaya crops were largely destroyed by the typhoon , but damage to other crops was minimal . No one in Guam was injured by Lynn .

After passing near Saipan , winds of 80 km / h (50 mph) and gusts of 121 km / h (75 mph) were observed . All commercial flights to and from the island , as well as all schools and government offices , were cancelled on both October 19 and 20 . Both Saipan and Rota experienced island @-@ wide power outages on the evening of October 18 . Saipan bore the most significant effects from the cyclone ; four people were hurt and two homes were destroyed . Several homes and office buildings on the island were also damaged . Elsewhere , around 10 families fled to shelter as a result of strong winds . Although damage in Rota was minor , the island of Tinian received considerable damage and all of the island 's 2 @,@ 000 residents were briefly left without electricity . Heavy rains resulted in flooding that destroyed several dwellings and deluged many more .

Throughout the Mariana Islands , agriculture damage was estimated at $ 2 million (1987 USD) and 15 families were displaced from their homes . Roughly 100 people sought help from the Red Cross . A few weeks later , the Northern Marianas Islands were declared a major disaster area by the Federal Emergency Management Agency (FEMA) .

= = = Philippines = = =

On October 23 , most of Luzon was placed under weather alerts . Due to the threat of both storm surge and high waves , low @-@ lying residents were advised to evacuate their homes . A total of five towns flooded in the Cagayan and Ilocos Norte provinces , while Lynn triggered landslides in Benguet . In the mountain resort of Baguio City , communication and power lines sustained damage and many roads outside of Manila were destroyed ; over 200 homes were damaged and 100 others were demolished . Nationwide , 79 people were hurt and 31 @,@ 557 homes were partially damaged , while 18 @,@ 396 were " totally " damaged . Furthermore , around 6 @,@ 000 were rendered homeless and seven fatalities occurred . Damage totaled $ 25 @.@ 3 million , mostly due

to public infrastructure and agriculture .

= = = Taiwan = = =

In preparation for Lynn , typhoon warnings were issued . Despite not striking the country directly , Typhoon Lynn brought torrential rains to much of the island , including a maximum of 1 @,@ 700 mm (67 in) in Taipei . Two fourth graders and seven third graders were swept out to sea due to 20 ft (6 @.@ 1 m) waves while on a field trip in Maopitou , a scenic spot in Kenting National Park . However , on October 24 , the bodies of two girls and a boy were found near Hengchun while the remaining were presumed dead . The other 72 students on the trip were safely evacuated . Elsewhere , a 31 @-@ year @-@ old man was killed due to falling debris in Hualien . Two people were killed and four others were buried in Keelung , where several cargo containers were swept offshore . Damage in Keelung totaled $ 5 million . In Pingtung , 30 @,@ 000 houses were flooded . Across northern Taiwan , nine people were killed . In Taipei , torrential rains deluged the city and resulted in landslides that destroyed numerous dwellings and took 13 lives . City @-@ wide , 2 @,@ 230 people were rescued by police , while after supply in the capital was cut by 75 % . In all , Lynn was considered the worst system to affect Taipei in 40 years .

Throughout the island , domestic flights and train service was cancelled . At the northern port of Ilan , about 60 fishing boats were lost . Three fishermen were rescued after their boat capsized . A total of 168 @,@ 000 people lost power at some point during the storm 's passage , though by October 27 , power was restored to all but 88 @,@ 000 . Overall , 42 people were killed nationwide .