

POST TROPICAL CYCLONE REPORT

Storm Name	Tropical Storm Hilary
NWS Office	WFO Los Angeles / Oxnard
Begin/End Date	08/20/23 - 08/21/2023
Fatalities	0 - Direct 0 - Indirect
Tornadoes	0

Event Summary

Tropical Storm Hilary affected southern CA with the main impacts across the WFO LOX CWA occurring from Sunday through Sunday night August 20, 2023. Tropical Storm Hilary produced wind gusts in the 40-50 mph range with the highest gusts of 60-70 mph over the San Gabriel Mountains. Peak gust was 87 mph at the Magic Mountain Truck Trail (SCE) site. Other peak gusts include 66 mph at Camp 9 RAWS and 55 mph at Browns Canyon (SCE). High-intensity rainfall occurred over many areas during the storm (0.50-1.00 inch/hour). The highest intensity observed was 1.20 inches/hour at Leo Carrillo on the coast in far southwestern Los Angeles County in Deal Flats in Ventura County across the western Santa Monica Mountains. Rainfall in August across southwestern CA is typically less than 0.05 inch, as was the case this month. The rain from Tropical Storm Hilary was the first measurable rain for the month for many areas. Record daily and monthly rainfall occurred at many sites in Ventura and Los Angeles Counties as a result of Hilary. New August monthly rainfall records include 2.99 inches at Downtown Los Angeles, 2.55 inches at Los Angeles International Airport, 2.63 inches at Long Beach, 3.56 inches at Burbank, 3.94 inches at Palmdale, 4.65 inches at Woodland Hills (Pierce College), 4.74 inches at UCLA, and 1.77 inches at Oxnard NWS. Note: Downtown Los Angeles has records dating back to 1877, the longest period of record in this area.

NOTE: It is unlikely that the point-based observations provided in this report sampled the peak values for the event.

Highest 10 Land Winds (kts)*

<i>Station</i>	<i>State</i>	<i>Type</i>	<i>Sustained</i>	<i>Gust</i>
SCE Magic Mtn Truck Trail	CA	SCE	51	76
SCE N3 Highway	CA	SCE	40	54
SCE Sombrero Rd	CA	SCE	38	56
MALIBU HILLS	CA	RAWS	35	48
SCE Sierra Pelona West	CA	SCE	34	42
SCE Browns Canyon	CA	SCE	33	48
CAMP 9	CA	RAWS	33	57
SCE Rose Hills	CA	SCE	33	46
SCE Sierra Pelona	CA	SCE	33	43

SCE Cochran St
* Anemometer heights < 20 m

CA

SCE

32

42

Highest 10 Marine Winds (kts)*

<i>Station</i>	<i>Type</i>	<i>Sustained</i>	<i>Gust</i>
Los Angeles Pier F	NOS	28.2	32
Los Angeles Pier J	NOS	27	31
Angels Gate	NOS	25.1	30
Los Angeles Badger Avenue Bridge	NOS	24.1	33
Los Angeles Pier 400	NOS	22.7	31
Los Angeles Pier S	NOS	18.7	26
Santa Barbara	NOS	18.1	25
Los Angeles Berth 161	NOS	15.6	26

* Anemometer heights < 20 m

Highest 10 Rainfall Totals

<i>Station</i>	<i>State</i>	<i>Type</i>	<i>Inches</i>
Mount Wilson	CA	CA_COOP	8.56
Lewis Ranch	CA	Alert	7.04
Santa Clarita-Valencia Meadows	CA	COCORAHS	7.02
Leona Valley Fire Station	CA	Alert	6.97
Crystal Lake	CA	RAWS	6.97
Cogswell Dam	CA	USACE	6.69
1.5 SE Van Nuys	CA	HADS	6.61
Santa Anita Dam	CA	USACE	6.53
0.9 N Monrovia (RR)	CA	ALERT	6.50
Saugus	CA	RAWS	6.46

Highest NOAA Tide Gage Observations

<i>Station</i>	<i>State</i>	<i>Datum</i>	<i>Water Level (ft)</i>
Santa Monica	CA	MHHW	0.52
Los Angeles	CA	MHHW	0.48
Santa Barbara	CA	MHHW	0.45

Lowest 10 Pressures

<i>Station</i>	<i>State</i>	<i>Type</i>	<i>Millibars</i>
Angels Gate	CA	NOS	993.7
Los Angeles Pier F	CA	NOS	995.0
Santa Monica Apt	CA	ASOS	996.7
Long Beach Apt	CA	ASOS	996.7
L.A. Intl Apt	CA	ASOS	996.7
Santa Monica	CA	NOS	997.0
Hawthorne Apt.	CA	ASOS	997.0
Los Angeles	CA	ASOS	997.0
Hollywood-Burbank Airport	CA	ASOS	997.1
Catalina Apt.	CA	ASOS	997.2

Report Last Updated on 08/24/2023:

The following files have been updated: Wind and Pressure, Rainfall, Water Level, Tornadoes, Impact Narratives