

**DOCKETED**

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<b>Project Title:</b>	Compliance - Watson Cogeneration Company AFC
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<b>Document Title:</b>	ANNUAL COMPLIANCE REPORT- 2022
<b>Description:</b>	Annual Compliance Report - 2022
<b>Filer:</b>	Anwar Ali
<b>Organization:</b>	California Energy Commission
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**Watson Cogeneration Company**

22850 South Wilmington Avenue  
Carson, CA 90740-6203

**Michael Milos**  
Adv. Sr. Analyst  
310.816.8815

March 30, 2023

Mr. Anwar Ali  
Compliance Project Manager  
California Energy Commission  
1516 Ninth Street  
Sacramento, CA 95814

**Subject: 2022 Annual Compliance Report  
Watson Cogeneration Project (85-AFC-01C)**

Dear Mr. Ali,

Attached is the Annual Compliance Report for 2022 pursuant to the requirements of the California Energy Commission's Conditions of Certification for the Watson Cogeneration Company.

If you have any questions regarding this report, please contact me via telephone at (310) 816-8815 or via e-mail at [MJMilos@Marathonpetroleum.com](mailto:MJMilos@Marathonpetroleum.com).

Sincerely,

*Michael J. Milos*

Michael Milos  
Adv. Sr. Analyst  
Watson Cogeneration Company

## AIR QUALITY CONDITIONS OF CERTIFICATION

**AQ-25** A continuous monitoring system must be installed and operated to monitor and record the fuel consumption and the mass ratio of steam-to-fuel for each fuel being fired in each gas Turbines 1, 2, 3, 4 and 5. This system must be accurate to within +5.0 percent and calibrated once every 12 months.

**Verification:** The owner/operator shall maintain records of continuous fuel consumption and the steam-to-fuel mass ratio monitoring. These records will be maintained on file for at least two years and shall be made available to the SCAQMD and CEC staff upon request. CEM Relative Accuracy Test report will be submitted to the CEC annually.

**Response:** Instrumentation is in place for the purpose of continuous monitoring and recording of fuel consumption and steam injection to each of the four gas turbines at the facility (#5 was never constructed). The systems undergo regular calibration. A summary of fuel consumption and steam injection to each of the turbines is included below.

AQ-25	Unit 91					Unit 92				
	NG/RFG	Butane	Total Fuel	DeNOx Steam	Steam : Fuel	NG/RFG	Butane	Total Fuel	DeNOx Steam	Steam : Fuel
	lb/sec	lb/sec	lb/sec	lb/sec	Ratio	lb/sec	lb/sec	lb/sec	lb/sec	Ratio
Jan-22	11.541	0.239	11.780	14.233	1.208	11.533	0.679	12.212	14.372	1.177
Feb-22	11.475	0.183	11.658	15.498	1.329	11.494	0.579	12.073	14.692	1.217
Mar-22	11.621	0.219	11.840	16.668	1.408	11.023	0.591	11.614	15.139	1.300
Apr-22	11.410	0.183	11.593	16.515	1.424	10.819	0.597	11.416	15.282	1.335
May-22	10.871	0.299	11.170	15.485	1.382	4.580	0.323	4.902	6.314	1.663
Jun-22	10.624	0.159	10.784	15.469	1.432	10.403	0.480	10.884	14.846	1.360
Jul-22	9.198	0.141	9.339	12.339	1.318	9.345	0.477	9.822	12.774	1.298
Aug-22	9.101	0.116	9.216	12.490	1.354	9.215	0.391	9.606	12.807	1.332
Sep-22	8.723	0.569	9.292	13.025	1.400	9.178	0.381	9.558	13.088	1.367
Oct-22	6.999	0.122	7.121	10.351	2.717	9.233	0.448	9.680	13.847	1.431
Nov-22	8.769	0.101	8.870	12.499	1.409	8.885	0.497	9.382	12.804	1.364
Dec-22	6.599	0.069	6.669	9.870	1.961	4.187	6.226	10.414	14.955	1.432

AQ-25	Unit 93					Unit 94				
	NG/RFG	Butane	Total Fuel	DeNOx Steam	Steam : Fuel	NG/RFG	Butane	Total Fuel	DeNOx Steam	Steam : Fuel
	lb/sec	lb/sec	lb/sec	lb/sec	Ratio	lb/sec	lb/sec	lb/sec	lb/sec	Ratio
Jan-22	0.000	0.036	0.036	0.206	5.760	11.540	0.452	11.992	14.509	1.210
Feb-22	7.301	0.160	7.462	9.253	2.810	11.532	0.316	11.847	14.776	1.247
Mar-22	6.520	0.171	6.691	8.587	4.497	11.670	0.307	11.977	16.694	1.394
Apr-22	10.838	0.360	11.197	14.830	1.523	9.129	0.125	9.254	13.118	1.876
May-22	11.576	0.449	12.025	16.651	1.385	11.553	0.241	11.794	16.777	1.423
Jun-22	10.548	0.367	10.914	15.118	1.382	10.392	0.209	10.601	14.781	1.391
Jul-22	9.152	0.313	9.465	12.402	1.309	9.374	0.227	9.601	12.728	1.323
Aug-22	9.316	0.254	9.570	13.007	1.358	9.286	0.245	9.531	12.902	1.353
Sep-22	7.413	1.007	8.419	11.644	1.499	9.211	0.333	9.544	13.006	1.359
Oct-22	9.303	0.282	9.586	13.657	1.424	9.506	0.305	9.811	14.022	1.427
Nov-22	9.137	0.272	9.409	12.998	1.381	9.266	0.184	9.450	13.145	1.389
Dec-22	3.274	7.353	10.627	15.497	1.453	9.514	0.109	9.623	14.157	1.469

**AQ-42** No more than one of the cogeneration units 1, 2, 3, 4 or 5 shall startup or shutdown in any one day. For Turbine Trains 1, 2, 3 and 4, start up shall not exceed 8 hours and shutdown shall not exceed 4 hours. For Turbine Train 5, neither start up nor shutdown shall exceed 4 hours in duration.

**Verification:** The owner/operator shall maintain an operation log for the facility which, at a minimum, will identify startup and shutdown occurrences for each cogeneration unit. The owner/operator shall submit in its Annual Compliance Report to the CEC a summary of the operational log demonstrating compliance with this condition 5. (97-0924-4; 88-0525-18b)

**Response:** In the 2022 calendar year, APCC/Watson had 13 startups and 12 shutdowns. No startups exceeded an 8 hour duration and no shutdowns exceeded a 4 hour duration. Startup and shutdown dates shown in the tables below.

<b>AQ-42: Shutdown Summary 2022</b>			<b>AQ-42: Startup Summary 2022</b>		
<b>Unit</b>	<b>Date</b>	<b>Duration &lt; 4 Hours</b>	<b>Unit</b>	<b>Date</b>	<b>Duration &lt; 8 Hours</b>
93	3/1/2022	Yes	93	2/11/2022	Yes
93	3/25/2022	Yes	93	3/10/2022	Yes
93	3/25/2022	Yes	93	3/30/2022	Yes
94	4/6/2022	Yes	94	4/12/2022	Yes
93	4/29/2022	Yes	93	5/1/2022	Yes
92	5/8/2022	Yes	92	5/25/2022	Yes
92	5/27/2022	Yes	92	5/28/2022	Yes
93	7/13/2022	Yes	93	7/14/2022	Yes
93	9/8/2022	Yes	93	9/11/2022	Yes
91	10/21/2022	Yes	91	10/27/2022	Yes
91	12/4/2022	Yes	91	12/9/2022	Yes
91	12/10/2022	Yes	91	12/10/2022	Yes
91	12/20/2022	Yes	91	12/22/2022	Yes

**AQ-43** The duct burner of the cogeneration units 1, 2, 3, 4 and 5 shall not be fired during the startup mode of operation.

**Verification:** The owner/operator shall maintain an operation log for the facility which, at minimum will identify the hours of operation of the duct burners. The owner/operator shall submit in its Annual Compliance Report to the CEC a summary of the operational log demonstrating compliance with this condition.

**Response:** During the 2022 calendar year, APCC/Watson had 13 startups. Duct burners were not fired during the startup mode of operation for any of the 13 startup events. Startup dates shown in the table below.

<b>AQ-43: Startup Summary 2022</b>		
<b>Unit</b>	<b>Date</b>	<b>Duct Fuel After Startup</b>
93	2/11/2022	Yes
93	3/10/2022	Yes
93	3/30/2022	Yes
94	4/12/2022	Yes
93	5/1/2022	Yes
92	5/25/2022	Yes
92	5/28/2022	Yes
93	7/14/2022	Yes
93	9/11/2022	Yes
91	10/27/2022	Yes
91	12/9/2022	Yes
91	12/10/2022	Yes
91	12/22/2022	Yes

## BIOLOGICAL RESOURCES CONDITIONS OF CERTIFICATION

**BIO-3** APPC shall monitor daily the zinc content, total volume and duration of all discharges from the ARCO Watson Refinery into the Dominguez Channel, which contain commingled cogeneration project cooling tower blowdown. The initial period of monitoring shall cover the first three years during which water is discharged into the Dominguez Channel. The need for subsequent monitoring will be determined by the CEC based on an evaluation of the zinc content of samples collected during the first three years of discharge. APPC shall take remedial action if monitored zinc levels exceed the EPA standard for salt water aquatic life.

**Verification:** APPC shall notify the CEC within 30 days of any discharge which exceeds EPA levels for zinc describing the cause of the exceedance and action taken to prevent similar occurrences. APPC shall submit written reports for the first three years during which APPC discharges to Dominguez Channel. The report shall contain the date, time, volume, duration and zinc content of the discharge. These reports can be appended to the annual compliance report for the years during which discharges to Dominguez Channel occurred. The reports shall be Submitted to the CEC and the Port of Los Angeles.

**Response:**

APPC does not have its own NPDES Permit. Low Volume Waste (LVW; boiler blowdown) from the Cogen are authorized to be discharged to the Dominguez Channel under the Tesoro Los Angeles Refinery – Carson Operations NPDES permit (Order No. R4-2015-0259, NPDES No. CA0000680). Zinc is listed in the permit with an effluent limitation; therefore, a discharge would be analyzed for zinc. A copy of the annual NPDES report is attached to this submittal.

## COGENERATION CONDITIONS OF CERTIFICATION

**COG-1** ARCO Petroleum Products Company (APPC) shall operate the facility as a cogeneration system in accordance with the definition of cogeneration contained in PRC Section 25134(a) and (b) and Title 18 CFR, Section 292.205(a)(1) and (a)(2)(i)(B).

**Verification:** APPC shall file with the CEC during each calendar year an annual report in which monthly average values of the following plant operating parameters will be given:

- a. Gas turbine, MW (gross) at the generator terminals for each unit
- b. Gas turbine operating hours for each unit
- c. For each CTG and each HRSG duct burner provide fuel input including:
  - type, natural gas, refinery gas or butane
  - rate, lb/hr
  - heating value (low), Btu/lb
  - firing hours
- d. Inlet air flow, lb/hr
- e. Combustion turbine exhaust gas temperature, Deg F
- f. NOx steam injection rate, lb/hr
- g. Stack exiting flue gas temperature, Deg F
- h. Steam turbine, MW (gross)
- i. Steam turbine operating hours
- j. Plant auxiliary load, MW (total)
- k. For the process steam:
  - process steam demand, lb/hr
  - demand hours
  - process steam temperature (Deg F), quality (%), pressure (PSIA) and enthalpy (Btu/lb) at plant boundary
- l. Feedwater rate (lb/hr), temperature (Deg F)
- m. Condensate return rate (lb/hr), temperature (Deg F)
- n. Process steam from auxiliary boilers, lb/hr; auxiliary boiler's operating hours

Or APPC may, with CEC concurrence, submit the following operating parameters:

- o. Monthly fuel use (includes quantity and Btu value) as evidenced by an invoice from the gas supplier
- p. Monthly electrical sales (includes kWh) as evidenced by an invoice to Southern California Edison Company
- q. Monthly steam sales (includes quantity and Btu value) as evidenced by an invoice (or equivalent) to APPC
- r. If the rate of items o, p, or q above differs by more than +5, +15, and +10 percent, respectively, from rated conditions, APPC shall provide, at the specific written request of the CEC Staff, an explanation of such anomaly
- s. Feedwater rate (lb/hr) and temperature (Deg F)
- t. Condensate return rate (lbs/hr) and temperature (Deg F)
- u. Process steam from auxiliary boilers, lb/hr; auxiliary boiler's operating hours.

Not less than thirty (30) days prior to the scheduled date for the CEC Decision on the AFC, APPC shall notify the CEC of APPC's preference for either conditions a-n, or o-u.

This report shall also provide information for each month on any partial or total power and/or process steam production curtailment, including duration of curtailment and reasons for curtailment. The report shall be certified by the plant manager.

**Response:** Monthly average values of the above listed plant operating parameters are included in the tables below. Please note that parameter n. (auxiliary boilers) is not applicable, as there

are no auxiliary boilers at this location.

COG-1 (a-n)	Unit 91													
Subsection:	a	b	c							d	e	f	g	
			GTG				HRSG			Inlet	GTG	DeNOx	Stack	
			NG/RFG	Butane	Total	HHV	Firing	NG/RFG	HHV	Firing	Air Flow	Exhaust	Steam	Exhaust
	MW	Op Hours	lb/hr	lb/hr	lb/hr	BTU/lb	Hours	lb/hr	BTU/lb	Hours	lb/hr	deg F	lb/sec	deg F
Jan-22	85.9	744	41549	860	42409	20134	744	8557	20134	744	2293699	1009	14.2	335
Feb-22	85.6	672	41312	658	41969	20213	672	4919	20213	672	2293699	1000	15.5	338
Mar-22	85.9	743	41835	789	42624	20185	743	6220	20185	743	2293699	1006	16.7	336
Apr-22	84.3	720	41078	659	41737	20217	720	5318	20217	720	2293699	1014	16.5	335
May-22	79.6	744	39136	1076	40212	20282	744	7416	20282	744	2293699	1027	15.5	330
Jun-22	77.7	720	38248	573	38821	20329	720	5552	20329	720	2293699	1036	15.5	327
Jul-22	64.3	744	33114	507	33621	20399	744	8119	20399	744	2293699	1037	12.3	322
Aug-22	63.5	744	32763	416	33179	20374	744	8236	20374	744	2293699	1028	12.5	322
Sep-22	64.4	720	31404	2049	33453	20508	720	8798	20508	720	2293699	1041	13.0	323
Oct-22	50.3	611	25198	439	25636	21616	611	5885	21616	610	2293699	851	10.4	284
Nov-22	62.0	720	31570	363	31933	20853	720	7438	20853	720	2293699	997	12.5	324
Dec-22	48.9	562	23758	250	24008	20963	562	4360	20963	560	2293699	816	9.9	276

COG-1 (a-n)	Unit 92													
Subsection:	a	b	c							d	e	f	g	
			GTG				HRSG			Inlet	GTG	DeNOx	Stack	
			NG/RFG	Butane	Total	HHV	Firing	NG/RFG	HHV	Firing	Air Flow	Exhaust	Steam	Exhaust
	MW	Op Hours	lb/hr	lb/hr	lb/hr	BTU/lb	Hours	lb/hr	BTU/lb	Hours	lb/hr	deg F	lb/sec	deg F
Jan-22	87.3	744	41518	2444	43962	20134	744	8557	20134	744	2293699	1031	14.4	340
Feb-22	87.0	672	41379	2085	43465	20213	672	4919	20213	672	2293699	1023	14.7	343
Mar-22	82.0	743	39682	2127	41809	20185	743	6220	20185	743	2293699	1037	15.1	336
Apr-22	80.3	720	38950	2150	41099	20217	720	5318	20217	720	2293699	1039	15.3	337
May-22	33.3	335	16487	1161	17648	20282	335	7416	20282	416	2293699	489	6.3	206
Jun-22	77.1	720	37452	1729	39181	20329	720	5552	20329	720	2293699	1035	14.8	333
Jul-22	66.8	744	33642	1718	35360	20399	744	8119	20399	744	2293699	1028	12.8	333
Aug-22	65.2	744	33172	1407	34580	20374	744	8236	20374	744	2293699	1022	12.8	334
Sep-22	66.0	720	33040	1370	34410	20508	720	8798	20508	720	2293699	1028	13.1	335
Oct-22	68.8	744	33237	1612	34850	21616	744	5885	21616	744	2293699	1017	13.8	339
Nov-22	63.4	720	31987	1788	33775	20853	720	7438	20853	720	2293699	996	12.8	336
Dec-22	71.9	743	15074	22415	37489	20963	743	4360	20963	743	2293699	1011	15.0	338

COG-1 (a-n)	Unit 93													
Subsection:	a	b	c							d	e	f	g	
			GTG				HRSG			Inlet	GTG	DeNOx	Stack	
			NG/RFG	Butane	Total	HHV	Firing	NG/RFG	HHV	Firing	Air Flow	Exhaust	Steam	Exhaust
	MW	Op Hours	lb/hr	lb/hr	lb/hr	BTU/lb	Hours	lb/hr	BTU/lb	Hours	lb/hr	deg F	lb/sec	deg F
Jan-22	0.3	6	0	130	130	20134	6	362	20134	0	2293699	58	0.2	61
Feb-22	53.1	422	26285	578	26863	20213	422	1520	20213	421	2293699	634	9.3	248
Mar-22	46.5	415	23473	616	24089	20185	415	1844	20185	411	2293699	603	8.6	248
Apr-22	82.1	693	39016	1295	40311	20217	693	4682	20217	693	2293699	980	14.8	340
May-22	85.1	737	41674	1615	43289	20282	737	7296	20282	736	2293699	982	16.7	337
Jun-22	76.4	720	37972	1320	39292	20329	720	4695	20329	720	2293699	1030	15.1	335
Jul-22	63.5	732	32948	1127	34075	20399	732	5387	20399	731	2293699	1012	12.4	330
Aug-22	64.7	744	33536	915	34451	20374	744	5714	20374	744	2293699	1030	13.0	333
Sep-22	56.9	657	26686	3624	30310	20508	657	5431	20508	656	2293699	949	11.6	317
Oct-22	67.6	744	33492	1016	34508	21616	744	5334	21616	744	2293699	1031	13.7	336
Nov-22	64.3	720	32892	979	33871	20853	720	7395	20853	720	2293699	1015	13.0	333
Dec-22	74.5	743	11787	26471	38259	20963	743	6946	20963	743	2293699	1018	15.5	339

COG-1 (a-n)	Unit 94													
Subsection:	a	b	c							d	e	f	g	
			GTG				HRSG			Inlet	GTG	DeNOx	Stack	
			NG/RFG	Butane	Total	HHV	Firing	NG/RFG	HHV	Firing	Air Flow	Exhaust	Steam	Exhaust
	MW	Op Hours	lb/hr	lb/hr	lb/hr	BTU/lb	Hours	lb/hr	BTU/lb	Hours	lb/hr	deg F	lb/sec	deg F
Jan-22	85.4	744	41543	1628	43171	20134	744	8505	20134	744	2293699	1032	14.5	342
Feb-22	85.5	672	41514	1136	42650	20213	672	4822	20213	672	2293699	1025	14.8	345
Mar-22	85.9	743	42013	1105	43119	20185	743	6153	20185	743	2293699	1028	16.7	344
Apr-22	66.5	567	32864	451	33316	20217	567	3046	20217	566	2293699	848	13.1	308
May-22	85.3	744	41591	868	42459	20282	744	7411	20282	744	2293699	1032	16.8	342
Jun-22	75.3	720	37413	751	38164	20329	720	4725	20329	720	2293699	1042	14.8	334
Jul-22	65.7	744	33746	818	34564	20399	744	5628	20399	744	2293699	1041	12.7	333
Aug-22	64.9	744	33430	882	34312	20374	744	5757	20374	744	2293699	1040	12.9	333
Sep-22	65.2	720	33159	1200	34359	20508	720	6608	20508	720	2293699	1036	13.0	337
Oct-22	70.1	744	34220	1098	35318	21616	744	5463	21616	744	2293699	1026	14.0	340
Nov-22	65.7	720	33358	664	34022	20853	720	7417	20853	720	2293699	1015	13.1	336
Dec-22	72.6	743	34251	392	34643	20963	743	6934	20963	743	2293699	1029	14.2	338



COG-1 (a-n)	Total Feedwater	Total Condensate		Aux
Subsection:	l	m	m	n
	deg F	mlb/hr	deg F	
Jan-22	250	508	-	N/A
Feb-22	250	526	-	N/A
Mar-22	250	523	-	N/A
Apr-22	250	482	-	N/A
May-22	250	482	-	N/A
Jun-22	250	422	-	N/A
Jul-22	250	414	-	N/A
Aug-22	250	402	-	N/A
Sep-22	250	435	-	N/A
Oct-22	250	415	-	N/A
Nov-22	250	492	-	N/A
Dec-22	250	473	-	N/A

## DEMAND CONFORMANCE CONDITIONS OF CERTIFICATION

**DC-2** The Energy Commission shall retain jurisdiction to require ARCO to periodically report on the performance of its facility and the payments made by SCE to purchase power from the facility.

**Verification:** On an annual basis following construction, ARCO shall report the monthly generation provided to SCE and the monthly payments received from SCE. Payments shall be disaggregated by capacity (firm and as-available), start-up and energy. ARCO shall provide the CEC a copy of the Prescribed Dispatch Schedule for the facility.

**Response:** Monthly values for generation provided to SCE and monthly payments disaggregated by capacity (firm and as-available) are included in the table below. Watson no longer follows a Prescribed Dispatch Schedule from SCE. All power is baseload firm under current PPA.

Month	SCE Sales Volume MWh	Energy Payment \$	Capacity Payment Firm \$	Capacity Payment - As Available \$
Jan-22	132,708	\$7,040,932.29	\$140,033.52	\$0.00
Feb-22	155,590	\$7,431,352.92	\$268,656.32	\$0.00
Mar-22	163,942	\$7,841,527.94	\$297,283.64	\$0.00
Apr-22	165,732	\$10,883,494.49	\$354,542.36	\$0.00
May-22	149,460	\$11,740,739.74	\$225,887.44	\$0.00
Jun-22	162,669	\$12,964,710.08	\$3,913,392.58	\$0.00
Jul-22	131,814	\$9,378,497.63	\$2,180,750.00	\$0.00
Aug-22	131,638	\$12,684,633.47	\$2,180,750.00	\$0.00
Sep-22	129,935	\$11,649,815.85	\$2,180,750.00	\$0.00
Oct-22	137,641	\$8,299,214.05	\$2,180,750.00	\$0.00
Nov-22	126,791	\$10,663,674.89	\$899,750.00	\$0.00
Dec-22	130,412	\$35,866,737.04	\$899,750.00	\$0.00
<b>Total</b>	<b>1,718,331</b>	<b>\$146,445,330.39</b>	<b>\$15,722,295.86</b>	<b>\$0.00</b>

## PUBLIC HEALTH CONDITIONS OF CERTIFICATION

**PH-2** APPC shall comply with all emission regulations established by the U.S. Environmental Protection Agency (EPA), South Coast Air Quality Management District (SCAQMD), and the California Air Resources Board (CARB) regarding the use of a non-chromium treatment method as an anti-fouling/corrosive agent in the cooling towers, and the prohibition of Hexavalent Chromium additives.

**Verification:** APPC shall submit to the CEC, within the Annual Compliance Report, documentation of their compliance with all EPA, SCAQMD, and CARB emission regulations for use of antifouling/corrosive agents in the cooling towers.

**Response:** In compliance with EPA, SCAQMD and CARB emission regulations for the use of antifouling/corrosive agents in cooling towers, APPC/Watson does not use any chemical products that contain chromium in its cooling towers. It is currently using Solenis Performax CC6200, a non-chromium product, as an anti-fouling agent in its cooling towers.

## POWER PLANT RELIABILITY CONDITIONS OF CERTIFICATION

**RELI-3** APPC shall file with the CEC an annual report documenting the plant availability and capacity factors achieved.

**Verification:** Beginning with commercial operation, APPC shall file an annual report containing the following:

- a. Operating hours, outage hours, cause of outage and downtime for each piece of major equipment including the following:
  - Combustion turbine/generators - Heat recovery steam generators
  - Feedwater pumps
  - Steam turbine/generators
  - Condensers
  - Condensate pumps
  - Cooling water pumps
  - Controls
- b. For each forced outage, a precise identification of the equipment whose failure resulted in the forced outage and the resulting forced outage hours.
- c. Identification of equipment or other causes (such as curtailment) for which planned outage was instituted in any given month.
- d. Annual plant availability and capacity factors, per EPRI definitions.

**Response:** Information regarding operating hours, outage causes, downtime and annual plant availability and capacity factors are shown in the two tables below.

CEC Generator Unit ID	Event Type	Start Date	End Date	Duration	Cause Code
GN95	RS - Reserve Shutdown	01/01/2022 00:00 PPT	02/22/2022 08:00 PPT	8:00	0000 - Reserve shutdown
GN95	PO - Planned	02/22/2022 08:00 PPT	06/28/2022 16:25 PPT	7:25	7950 - Major overhaul B
GN95	RS - Reserve Shutdown	06/29/2022 18:16 PPT	06/30/2022 08:40 PPT	14:24:00	0000 - Reserve shutdown
GN95	RS - Reserve Shutdown	07/02/2022 00:23 PPT	08/08/2022 14:07 PPT	901:44:00	0000 - Reserve shutdown
GN95	U1 - Forced - Immediate	09/22/2022 10:45 PPT	10/14/2022 12:35 PPT	529:50:00	3681 - Other voltage system breakers
GN95	RS - Reserve Shutdown	11/16/2022 17:51 PPT	01/01/2023 00:00 PPT	6:09	0000 - Reserve shutdown
GN96	RS - Reserve Shutdown	08/08/2022 14:45 PPT	09/01/2022 18:10 PPT	579:25:00	0000 - Reserve shutdown
GN96	SF - Startup Failure	09/01/2022 18:10 PPT	11/16/2022 12:48 PPT	19:38	3681 - Other voltage system breakers
GN96	RS - Reserve Shutdown	12/10/2022 07:00 PPT	01/01/2023 00:00 PPT	17:00	0000 - Reserve shutdown
GN91	U3 - Forced - Postponed	10/21/2022 22:23 PPT	10/27/2022 10:42 PPT	132:19:00	6090 - Other HRSG tube Problems
GN91	U3 - Forced - Postponed	12/04/2022 21:10 PPT	12/09/2022 18:49 PPT	21:39	6090 - Other HRSG tube Problems
GN91	U1 - Forced - Immediate	12/10/2022 07:01 PPT	12/10/2022 08:40 PPT	1:39:00	3631 - 480-volt circuit breakers
GN91	U3 - Forced - Postponed	12/20/2022 02:05 PPT	12/22/2022 16:35 PPT	62:30:00	5017 - Low pressure compressor bleed valves
GN92	PO - Planned	05/08/2022 21:01 PPT	05/25/2022 11:58 PPT	14:57	5670 - Hot end inspection A
GN92	U2 - Forced - Delayed	05/27/2022 21:00 PPT	05/28/2022 12:39 PPT	15:39:00	4289 - Other lube oil system problems
GN93	PO - Planned	01/01/2022 00:00 PPT	02/11/2022 11:10 PPT	995:10:00	5260 - Major overhaul (use for non-specific overhaul only; see page B-1) A
GN93	U2 - Forced - Delayed	03/01/2022 16:33 PPT	03/10/2022 18:21 PPT	217:48:00	4551 - Generator bearings
GN93	MO - Maintenance	03/25/2022 21:06 PPT	03/30/2022 13:41 PPT	112:35:00	5479 - Other combustor problems A
GN93	MO - Maintenance	04/29/2022 21:02 PPT	05/01/2022 08:35 PPT	35:33:00	4860 - Generator Neutral Grounding Equipment
GN93	U3 - Forced - Postponed	07/13/2022 23:09 PPT	07/14/2022 11:32 PPT	12:23:00	4284 - Lube oil pump drive
GN93	U3 - Forced - Postponed	09/08/2022 23:02 PPT	09/11/2022 14:46 PPT	63:44:00	6090 - Other HRSG tube Problems
GN94	U1 - Forced - Immediate	04/06/2022 09:39 PPT	04/12/2022 14:59 PPT	149:20:00	3621 - Unit auxiliaries transformer

<b>CEC Generator Unit ID</b>	<b>2022 Operating Hours</b>	<b>2022 Availability</b>
GN91	8,444	96.5%
GN92	8,350	95.4%
GN93	7,329	83.6%
GN94	8,609	98.3%
GN95	1,923	21.9%
GN96	5,842	66.9%
<b>2022 Annual Plant Availability</b>		<b>77.09%</b>
<b>2022 Capacity Factor</b>		<b>70.45%</b>

## PUBLIC AND WORKER SAFETY CONDITIONS OF CERTIFICATION

**SAFETY-11** APPC and the Los Angeles County Fire Department shall annually reexamine the fire protection program.

**Verification:** APPC shall note and summarize the joint re-examination to the fire protection program in its annual compliance report to the CEC.

**Response:** APPC/Watson's fire protection program is covered by a permit issued by the County of Los Angeles Fire Department and follows their standard review/renewal cycle. This review/renewal process is jointly conducted with the on-site Fire Chief responsible for the APPC/Watson facility. Fire protection equipment at the facility is inspected, tested and maintained in accordance with NFPA, ANSI and OSHA standards.

**SAFETY-13** APPC shall facilitate onsite worker safety inspections conducted by Cal/DOSH during construction and operation of the facility when an employee complaint has been received.

**Verification:** APPC shall request Cal/DOSH to notify the CEC in writing in the event of a violation that will involve Cal/DOSH action affecting the construction and operation schedule and shall notify the CEC of the necessary corrective action. APPC shall note any Cal/DOSH inspections and actions in its periodic compliance reports.

**Response:** In the calendar year of 2022, APPC/Watson Cogen has not had any violations and has not received any complaints that would warrant reporting to Cal/DOSH.

## TRAFFIC AND TRANSPORTATION CONDITIONS OF CERTIFICATION

**TRANS-1** ARCO Petroleum Products Corporation (APPC) shall comply with the California Department of Transportation (Caltrans) and Los Angeles County restrictions on oversize or overweight vehicles using state, county and City of Carson roadways. APPC shall obtain overload permits, as necessary, from Caltrans and the County of Los Angeles.

**Verification:** APPC shall in its annual compliance report, notify the California Energy Commission (CEC) of any overload permits obtained from Caltrans and the County of Los Angeles.

**Response:** In the 2022 calendar year, APPC/Watson is not aware of any overload permits being obtained from Caltrans and the County of Los Angeles.

**TRANS-2** APPC shall comply with the City of Carson encroachment and excavation permit and franchise requirements for installation of utility services (transmission line, natural gas pipeline) of the proposed project in or over city-owned rights-of-way.

**Verification:** APPC shall, in its annual compliance report, notify the CEC that the requirements for obtaining encroachment and excavation permits from the City of Carson have been satisfied. APPC shall file any required or requested information with the City of Carson.

**Response:** In the 2022 calendar year, APPC/Watson is not aware of any filings for encroachment and/or excavation permits from the City of Carson.

## WASTE MANAGEMENT CONDITIONS OF CERTIFICATION

**WASTE-5** If APPC intends to store hazardous wastes on-site for more than 90 days, it shall obtain a determination from DHS that the requirements of a hazardous waste facility have been satisfied. Storage of such wastes shall be in accordance with DHS regulations. APPC shall file any required or requested information with the Los Angeles County Fire Department, Hazardous Materials Unit.

**Verification:** APPC shall notify the CEC in the Annual Compliance Report if APPC applies for, or obtains, a Hazardous Waste Facility permit.

**Response:** APPC/Watson does not store bulk hazardous waste onsite for more than 90 days and therefore does not require a Hazardous Waste Facility Permit.

**WASTE-6** APPC shall ensure that hazardous wastes are hauled by a permitted hazardous wastes hauler and disposed of in a proper manner at a site permitted by DHS and the Regional Water Quality Control Board, Los Angeles Region, for the disposal of hazardous wastes.

**Verification:** In the Annual Compliance Report, APPC shall submit to the CEC a verification that hazardous wastes have been transported by a DHS-licensed hazardous waste hauler, and that the wastes were disposed of at appropriate sites.

**Response:** Hazardous waste generated by APPC/Watson is transported by a DTSC licensed hazardous waste hauler and is disposed of in a proper manner at permitted hazardous waste facilities.



## WATER QUALITY CONDITIONS OF CERTIFICATION

**WQ-4** The project owner shall provide a copy of the revised or new National Pollutant Discharge Elimination System Permit for the Watson Cogeneration Project and the ARCO Los Angeles Refinery approved by the Los Angeles Regional Water Quality Control Board to the CEC Compliance Project Manager. The project owner shall also provide a copy of the annual monitoring report required by the NPDES Permit for all wastewater, with the exception of stormwater runoff, that is commingled with cooling tower blowdown from the Watson Cogeneration Plant and discharged to the Dominguez Channel.

**Verification:** The project owner shall provide a copy of the new NPDES Permit to the CEC Compliance Project Manager within one month of its approval by the Los Angeles Regional Water Quality Control Board. Annual NPDES Permit monitoring reports shall be provided to the CEC Compliance Project Manager with the annual compliance report.

**Response:** Annual NPDES reports for the Carson facility are submitted electronically on the California Integrated Water Quality System (CIWQS). A copy of the annual report is attached to this submittal. A copy of the updated NPDES permit can be provided if requested by the CEC.

## **WATER RESOURCES CONDITIONS OF CERTIFICATION**

**WATER-3** The project owner will demonstrate that all feasible and practical measures to reduce additional water demand have been incorporated into the design of the fifth train. The measures may include, but are not limited to, recycling and reuse.

**Verification:** The project owner shall submit a report discussing all measures, whether adopted or not, considered to reduce project water demand. This report shall be contained in the first annual compliance report following the start of operation of the fifth train.

**Response:** Water-3 is not applicable as APPC/Watson did not construct a fifth train.



Robert Nguyen  
Environmental Department

**Tesoro Refining & Marketing Company LLC**  
A subsidiary of Marathon Petroleum Corporation

Los Angeles Refinery – Carson Operations  
2350 E. 223<sup>rd</sup> Street  
Carson, California 90810  
310-816-8100

January 24, 2023

**NPDES Permit No. CA0000680**  
**Order No. R4-2015-0259**

California Regional Water Quality Control Board  
Los Angeles Region  
320 W. 4<sup>th</sup> Street, Suite 200  
Los Angeles, CA 90013

**NO DISCHARGE DURING  
REPORTING PERIOD**

**Re: 2022 Annual NPDES Self-Monitoring Report**  
Tesoro Refining and Marketing Company LLC  
Los Angeles Refinery – Carson Operations  
1801 East Sepulveda Boulevard, Carson, California

To Whom It May Concern:

Please find enclosed the Annual NPDES Self-Monitoring Report for the Tesoro Los Angeles Refinery – Carson Operations for the period of January 1 through December 31, 2022.

During the 2022 reporting period all process wastewater and wastewater commingled with storm water was discharged to the Los Angeles Sanitation District (LACSD) in compliance with Industrial Wastewater Permit No. 21299. Discharge of Low Volume Waste to the Dominguez Channel from any of the permitted Outfalls did not occur during the 2022 reporting period.

If you have any questions, please contact Nate Busch at 310-522-6245.

Sincerely,

Robert Nguyen  
Environmental Manager

ecc: 2022 LARC Annual NPDES Report

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**NPDES Annual Self-Monitoring Report**

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**Tesoro Refining & Marketing Company LLC  
Tesoro Los Angeles Refinery – Carson Operations  
1801 East Sepulveda Boulevard  
Carson, California 90749**

**NPDES Permit No. CA0000680  
Order No. R4-2015-0259**

**Reporting Period:  
January 1, 2022 – December 31, 2022**

**Report Prepared On:  
January 24, 2023**

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**Certification.....4**

**Attachments**

**Attachment 1: Annual Comprehensive Site Compliance Evaluation**

**Attachment 2: Annual Rainfall Data**

## **Part 1 – Compliance Summary**

### 1. NPDES Permit Compliance Summary

There were no discharges of Low Volume Wastes through Discharge Points 001, 002, 003, 004 or 005 or Process Wastewater Commingled with Storm Water and Boiler Blowdown through Discharge Points 003 or 004 to the Dominguez Channel at the Los Angeles Refinery – Carson Operations (LARC) in calendar year 2022. Therefore, there were no violations of the discharge limits or Waste Discharge Requirements (WDRs).

### 2. NPDES Incident Release Report

There were no incidental releases to the Dominguez Channel Estuary during calendar year 2022.

## **Part 2 – Summary of Monitoring Parameters**

### 1. Presentation of Effluent Monitoring Data

There were no discharges of Low Volume Wastes through Discharge Points 001, 002, 003, 004 or 005 or Process Wastewater Commingled with Storm Water and Boiler Blowdown through Discharge Points 003 or 004 to the Dominguez Channel Estuary at LARC in calendar year 2022. Therefore, no effluent monitoring was required.

### 2. Changes in Discharge

There were no discharges of Low Volume Wastes through Discharge Points 001, 002, 003, 004 or 005 or Process Wastewater Commingled with Storm Water and Boiler Blowdown through Discharge Points 003 or 004 to the Dominguez Channel at LARC in calendar year 2022. There were no changes in the discharge as described in Order R4-2015-0259.

## **Part 3 – Other Monitoring**

### 1. SWPPP, BMPP, and Spill Contingency Plan and Effectiveness Report

There were no discharges of Low Volume Wastes through Discharge Points 001, 002, 003, 004 or 005 or Process Wastewater Commingled with Storm Water and Boiler Blowdown through Discharge Points 003 or 004 to the Dominguez Channel Estuary at LARC in calendar year 2022. Therefore, there were no issues with the effectiveness of the SWPPP, BMPP, or Spill Contingency Plan. However, internal policy dictates the annual review of all facility environmental plans.

### 2. Chemical Use Report

See Table 2 for the chemical usage report summarizing the quantities of all chemicals which are used at the facility and which are discharged or have the potential to be discharged. There were no discharges of Low Volume Wastes, including chemicals, through Discharge Points 001, 002, 003, 004 or 005 to the Dominguez Channel Estuary at LARC in calendar year 2022. The Refinery diverts cooling tower blowdown, boiler blowdown, and commingled storm water / wastewater to the wastewater treatment system before discharging to the Los Angeles County Sanitation District (LACSD Permit No. 21299).

**TABLE 2: 2022 Chemical Usage**

Chemical	Usage (lbs)
ADJUNCT H LIQUID IBC 1000L	3,320
ADVANTAGE PLUS 1465M IBC 1000L	2,400
AMERCOR 8240 IBC 1000L	15,050
AMEROYAL C610 IBC 1000L	5,500
AMEROYAL D200 IBC 1000L	5,560
AMERTROL HT3510 IBC 1000L	103,801
BIOSPERSE CN2150 IBC 1000L US	11,000
BIOSPERSE CN5500 IBC 1000L 1109.5KG US	10,030
CHARGEPAK 12 IBC 1000L	278,171
DREWAMINE 1791 IBC 980L	8,800
DREWCOR 2130 IBC 980L	162,413
DREWFLOC 2445 IBC 1000L C	18,320
DREWFLOC 2449-VA IBC 1040KG C	43,559
DREWGARD 315 PAIL 20L	753
DREWPLUS L718 DRUM 200L	2,640
DREWPLUS L718 PAIL 25L	990
MEKOR 6701 IBC 980L	47,521
MILLSPERSE MS7400 IBC 1000L	214,876
PERFORMAX CC6200 IBC 1000L 3PWH	217,502
PERFORMAX CC6200 IBC 1000L C	60,000
PERFORMAX CC6203 IBC 1000L	14,551
PERFORMAX CL4291 IBC 1000L	34,651
PERFORMAX DC5511 IBC 1000L	461,190
PERFORMAX SR5600 IBC 1000L C	6,600
PERFORMAX SR8315 IBC 1000L	11,255
ZALTA MF5148 IBC 1040KG 3PWH	73,370
ZALTA MF5260 IBC 1000L 3PWH	32,060
Bleach <sup>1</sup>	5,642,520
Sulfuric Acid <sup>2</sup>	187,184

<sup>1</sup> This quantity assumes 20% of total annual facility bleach usage for use in cooling towers and boilers

<sup>2</sup> This quantity assumes 1% of total annual facility sulfuric acid usage for use in cooling towers and boilers.

### 3. Receiving Water Monitoring

There were no discharges of Low Volume Wastes through Discharge Points 001, 002, 003, 004 or 005 or Process Wastewater Commingled with Storm Water and Boiler Blowdown through Discharge Points 003 or 004 to the Dominguez Channel Estuary at LARC in calendar year 2022. Therefore, no receiving water sampling and associated visual observation was required.

Visual observations of the upstream and downstream receiving water sampling points was performed during 2022. Visual observations were performed at least monthly during

January through December. No findings related to facility operations were reported on the visual observation logs.

4. Annual Comprehensive Compliance Evaluation

The Annual Comprehensive Compliance Evaluation (ACCE) was conducted by qualified personnel on January 24, 2023. See Attachment 1 for documentation.

5. Storm Water / Rainfall Monitoring

The daily rainfall data for calendar year 2022 are included in Attachment 2.

6. Sediment Monitoring

There were no discharges of wastewater or storm water to the Dominguez Channel from Discharge Point 001-005 at LARC in calendar year 2022. All wastewater and storm water were discharged to the LACSD treatment system (Permit No. 21299); therefore, no sediment monitoring was required.

**Certification**

We report that there were no discharges of Low Volume Wastes through Discharge Points 001, 002, 003, 004 or 005 or Process Wastewater Commingled with Storm Water and Boiler Blowdown through Discharge Points 003 or 004 at LARC to the Dominguez Channel during the reporting period of January 1, 2022 – December 31, 2022, under the above-mentioned order.

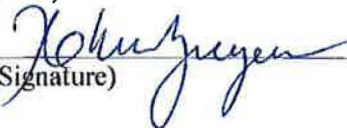
“I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.”

Robert Nguyen

\_\_\_\_\_  
(Print Name)

Environmental Manager

\_\_\_\_\_  
(Title)

  
\_\_\_\_\_  
(Signature)



## Attachment 1



**Annual Comprehensive Site Compliance Evaluation (ACSCE) continued**

Attach an explanation page if more room is needed. Please make copy of form if more rows are needed.

Page 2 of 2

Potential Pollutant Source/Industrial Activity (as identified in your SWPPP)  Northeast Area -Flares -Cooling Towers -Ineos -Discharge Points 1, 2, & 3	Have any BMPs not been fully implemented? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	If yes, to any of the three questions, complete the next two columns of this form.	Describe deficiencies in BMPs or BMP implementation	Describe additional/revised BMPs or corrective actions and their date(s) of implementation
	Are any BMPs not effective in reducing and preventing pollutants in storm water discharges and NSWDS? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO			
	Are additional/revised BMPs necessary? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO			
Potential Pollutant Source/Industrial Activity (as identified in your SWPPP)  Northwest Area -Flares -Cooling Towers -Cogen -Maintenance -Discharge Points 4 & 5	Have any BMPs not been fully implemented? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	If yes, to any of the three questions, complete the next two columns of this form.	Describe deficiencies in BMPs or BMP implementation	Describe additional/revised BMPs or corrective actions and their date(s) of implementation
	Are any BMPs not effective in reducing and preventing pollutants in storm water discharges and NSWDS? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO			
	Are additional/revised BMPs necessary? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO			
Potential Pollutant Source/Industrial Activity (as identified in your SWPPP)  Tank Farms	Have any BMPs not been fully implemented? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	If yes, to any of the three questions, complete the next two columns of this form.	Describe deficiencies in BMPs or BMP implementation	Describe additional/revised BMPs or corrective actions and their date(s) of implementation
	Are any BMPs not effective in reducing and preventing pollutants in storm water discharges and NSWDS? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO			
	Are additional/revised BMPs necessary? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO			

## Attachment 2

# National Weather Service Weather Forecast Office Los Angeles, CA

## WFO Monthly/Daily Climate Data

Issued by NWS

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CXUS56 KLOX 011255

CF6LGB

PRELIMINARY LOCAL CLIMATOLOGICAL DATA (WS FORM: F-6)

STATION: LONG BEACH AIRPORT CA  
MONTH: JANUARY  
YEAR: 2022  
LATITUDE: 33 49 N  
LONGITUDE: 118 9 W

TEMPERATURE IN F:		:PCPN:	SNOW:	WIND:	:SUNSHINE:	SKY:	:PK WND											
1	2	3	4	5	6A	6B	7	8	9	10	11	12	13	14	15	16	17	18
=====																		
12Z AVG MX 2MIN																		
DY	MAX	MIN	AVG	DEP	HDD	CDD	WTR	SNW	DPTH	SPD	SPD	DIR	MIN	PSBL	S-S	WX	SPD	DR
=====																		
1	63	45	54	-3	11	0	0.00	M	M	2.6	10	200	M	M	1	18	14	200
2	66	41	54	-3	11	0	0.00	M	M	4.3	12	290	M	M	0		15	300
3	64	39	52	-5	13	0	0.00	M	M	2.9	13	290	M	M	0		15	290
4	63	43	53	-4	12	0	0.00	M	M	2.2	8	290	M	M	1		10	180
5	66	43	55	-2	10	0	0.00	M	M	1.5	9	190	M	M	0	128	11	200
6	70	48	59	2	6	0	0.00	M	M	1.4	8	180	M	M	6	128	10	190
7	55	48	52	-5	13	0	0.00	M	M	2.8	9	130	M	M	10	128	14	130
8	63	49	56	-1	9	0	0.00	M	M	2.2	9	200	M	M	4	18	13	210
9	76	44	60	3	5	0	0.00	M	M	3.6	10	310	M	M	0	18	12	310
10	74	50	62	5	3	0	0.00	M	M	5.5	13	30	M	M	0		15	60
11	80	48	64	7	1	0	0.00	M	M	5.9	15	100	M	M	0		19	90
12	77	47	62	5	3	0	0.00	M	M	4.1	12	290	M	M	0		13	290
13	68	53	61	4	4	0	0.00	M	M	1.9	10	290	M	M	4	8	11	290
14	73	50	62	5	3	0	0.00	M	M	2.6	12	200	M	M	0	8	14	210
15	68	55	62	5	3	0	0.01	M	M	4.0	9	350	M	M	7		11	330
16	73	56	65	8	0	0	0.00	M	M	3.9	10	220	M	M	5	1	13	190
17	64	59	62	5	3	0	T	M	M	3.5	12	190	M	M	10		14	170
18	64	55	60	3	5	0	0.00	M	M	3.9	10	300	M	M	8	8	13	300
19	65	51	58	1	7	0	0.00	M	M	3.3	12	290	M	M	5	18	14	280
20	77	47	62	5	3	0	0.00	M	M	3.7	12	290	M	M	0	18	14	290
21	67	46	57	0	8	0	0.00	M	M	3.6	16	10	M	M	1		20	10
22	72	51	62	5	3	0	0.00	M	M	4.6	20	10	M	M	0		27	20
23	75	46	61	4	4	0	0.00	M	M	3.6	15	280	M	M	0		20	280
24	65	45	55	-2	10	0	0.00	M	M	3.2	9	150	M	M	1	1	12	190
25	63	46	55	-2	10	0	0.00	M	M	2.1	8	200	M	M	2	128	12	190
26	72	46	59	2	6	0	0.00	M	M	2.6	10	80	M	M	3	128	14	80
27	72	43	58	1	7	0	0.00	M	M	3.9	10	300	M	M	2	12	12	320
28	73	46	60	3	5	0	0.00	M	M	7.0	18	90	M	M	0		23	90
29	68	48	58	1	7	0	0.00	M	M	3.8	8	210	M	M	1		10	220
30	66	41	54	-3	11	0	0.00	M	M	2.3	13	200	M	M	0		16	200
31	60	45	53	-4	12	0	0.00	M	M	1.9	8	220	M	M	2	128	10	220
=====																		
SM	2122	1474			208	0	0.01	M		104.4			M		73			
=====																		
AV	68.5	47.5								3.4	FASTST	M	M	2				MAX(MPH)
=====																		
MISC ----> 20 10 27 20																		
=====																		

NOTES:

# LAST OF SEVERAL OCCURRENCES

COLUMN 17 PEAK WIND IN M.P.H.

PRELIMINARY LOCAL CLIMATOLOGICAL DATA (WS FORM: F-6) , PAGE 2

STATION: LONG BEACH AIRPORT CA  
MONTH: JANUARY  
YEAR: 2022  
LATITUDE: 33 49 N  
LONGITUDE: 118 9 W

[TEMPERATURE DATA] [PRECIPITATION DATA] SYMBOLS USED IN COLUMN 16

AVERAGE MONTHLY: 58.0	TOTAL FOR MONTH: 0.01	1 = FOG OR MIST
DPTR FM NORMAL: 0.9	DPTR FM NORMAL: -2.88	2 = FOG REDUCING VISIBILITY
HIGHEST: 80 ON 11	GRTST 24HR 0.12 ON 17-17	TO 1/4 MILE OR LESS
LOWEST: 39 ON 3		3 = THUNDER
	SNOW, ICE PELLETS, HAIL	4 = ICE PELLETS
	TOTAL MONTH: M	5 = HAIL

GRTST 24HR M ON M 6 = FREEZING RAIN OR DRIZZLE  
 GRTST DEPTH: M ON M 7 = DUSTSTORM OR SANDSTORM;  
 VSBY 1/2 MILE OR LESS  
 8 = SMOKE OR HAZE  
 9 = BLOWING SNOW  
 X = TORNADO

[NO. OF DAYS WITH] [WEATHER - DAYS WITH]  
 MAX 32 OR BELOW: 0 0.01 INCH OR MORE: 1  
 MAX 90 OR ABOVE: 0 0.10 INCH OR MORE: 0  
 MIN 32 OR BELOW: 0 0.50 INCH OR MORE: 0  
 MIN 0 OR BELOW: 0 1.00 INCH OR MORE: 0

[HDD (BASE 65) ]  
 TOTAL THIS MO. 208 CLEAR (SCALE 0-3) 22  
 DPTR FM NORMAL -39 PTCLDY (SCALE 4-7) 7  
 TOTAL FM JUL 1 631 CLOUDY (SCALE 8-10) 2  
 DPTR FM NORMAL -16

[CDD (BASE 65) ]  
 TOTAL THIS MO. 0  
 DPTR FM NORMAL -4 [PRESSURE DATA]  
 TOTAL FM JAN 1 0 HIGHEST SLP 30.32 ON 10  
 DPTR FM NORMAL -4 LOWEST SLP 29.87 ON 1

[REMARKS]  
 #FINAL-01-22#

National Weather Service  
 Los Angeles, CA Weather Forecast Office  
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# National Weather Service Weather Forecast Office Los Angeles, CA

## Climatological Report (Monthly)

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 CXUSS6 KLOX 011730  
 CLMLGB

CLIMATE REPORT  
 NATIONAL WEATHER SERVICE LOS ANGELES/OXNARD  
 930 AM PST TUE FEB 01 2022

.....  
 ...THE LONG BEACH AIRPORT CA CLIMATE SUMMARY FOR THE MONTH OF JANUARY 2022...

CLIMATE NORMAL PERIOD: 1991 TO 2020  
 CLIMATE RECORD PERIOD: 1958 TO 2022

WEATHER	OBSERVED VALUE	DATE(S)	NORMAL VALUE	DEPART FROM NORMAL	LAST YEAR'S VALUE
---------	-------------------	---------	-----------------	--------------------------	----------------------

TEMPERATURE (F)					
HIGHEST	80	01/11			
LOWEST	39	01/03			
AVG. MAXIMUM	68.5		67.4	1.1	
AVG. MINIMUM	47.5		46.9	0.6	
MEAN	58.0		57.1	0.9	
DAYS MAX >= 90	0				
DAYS MAX <= 32	0				
DAYS MIN <= 32	0				
DAYS MIN <= 0	0				

PRECIPITATION (INCHES)					
TOTALS	0.01		2.89	-2.88	
DAILY AVG.	0.00				
DAYS >= .01	1				
DAYS >= .10	0				
DAYS >= .50	0				
DAYS >= 1.00	0				
GREATEST					
24 HR. TOTAL	0.01	01/15 TO 01/15			
STORM TOTAL	0.01				

DEGREE DAYS					
HEATING TOTAL	208		247	-39	242
SINCE 7/1	631		647	-16	MM
COOLING TOTAL	0		4	-4	14
SINCE 1/1	0		4	-4	MM

WIND (MPH)					
AVERAGE WIND SPEED			3.4		
HIGHEST WIND SPEED/DIRECTION			20/010	DATE	01/22
HIGHEST GUST SPEED/DIRECTION			27/020	DATE	01/22

SKY COVER					
POSSIBLE SUNSHINE (PERCENT)	MM				
AVERAGE SKY COVER			0.23		
NUMBER OF DAYS FAIR			22		
NUMBER OF DAYS PC			6		
NUMBER OF DAYS CLOUDY			3		

AVERAGE RH (PERCENT) 59

WEATHER CONDITIONS. NUMBER OF DAYS WITH					
THUNDERSTORM	0	MIXED PRECIP			0
HEAVY RAIN	0	RAIN			0
LIGHT RAIN	2	FREEZING RAIN			0
LT FREEZING RAIN	0	HAIL			0
HEAVY SNOW	0	SNOW			0
LIGHT SNOW	0	SLEET			0
FOG	14	FOG W/VIS <= 1/4 MILE			7
HAZE	14				

- INDICATES NEGATIVE NUMBERS.  
 R INDICATES RECORD WAS SET OR TIED.  
 MM INDICATES DATA IS MISSING.  
 T INDICATES TRACE AMOUNT.

\$\$

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# National Weather Service Weather Forecast Office Los Angeles, CA

## WFO Monthly/Daily Climate Data

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000  
CXUS56 KLOX 011255  
CF6LGB  
PRELIMINARY LOCAL CLIMATOLOGICAL DATA (WS FORM: F-6)

STATION: LONG BEACH AIRPORT CA  
MONTH: FEBRUARY  
YEAR: 2022  
LATITUDE: 33 49 N  
LONGITUDE: 118 9 W

TEMPERATURE IN F:		:PCPN:		SNOW:		WIND:		:SUNSHINE:		SKY:		:PK WND:						
1	2	3	4	5	6A	6B	7	8	9	10	11	12	13	14	15	16	17	18
=====																		
12Z AVG MX 2MIN																		
DY	MAX	MIN	AVG	DEP	HDD	CDD	WTR	SNW	DPHT	SPD	SPD	DIR	MIN	PSBL	S-S	WX	SPD	DR
=====																		
1	62	49	56	-1	9	0	0.00	M	M	2.5	10	210	M	M	3	18	13	200
2	67	44	56	-1	9	0	0.00	M	M	2.6	13	100	M	M	0	18	16	110
3	67	42	55	-2	10	0	0.00	M	M	4.1	13	300	M	M	0	0	14	300
4	71	42	57	0	8	0	0.00	M	M	3.7	17	100	M	M	0	0	22	90
5	73	42	58	1	7	0	0.00	M	M	4.6	14	290	M	M	0	0	16	300
6	78	41	60	3	5	0	0.00	M	M	3.0	12	310	M	M	0	0	13	310
7	80	48	64	7	1	0	0.00	M	M	5.2	16	290	M	M	0	0	19	290
8	82	46	64	7	1	0	0.00	M	M	3.8	14	300	M	M	0	0	17	290
9	86	48	67	10	0	2	0.00	M	M	3.9	12	300	M	M	0	0	14	310
10	88	53	71	14	0	6	0.00	M	M	4.6	17	290	M	M	0	0	21	290
11	81	50	66	9	0	1	0.00	M	M	2.5	12	200	M	M	0	0	15	210
12	89	50	70	13	0	5	0.00	M	M	3.4	13	280	M	M	0	0	16	290
13	87	51	69	12	0	4	0.00	M	M	4.7	18	290	M	M	0	0	20	290
14	71	48	60	3	5	0	0.00	M	M	3.2	14	300	M	M	0	1	16	310
15	62	47	55	-3	10	0	0.04	M	M	7.7	22	10	M	M	7	3	29	280
16	63	42	53	-5	12	0	0.00	M	M	4.6	13	200	M	M	0	0	17	150
17	73	45	59	1	6	0	0.00	M	M	5.7	17	80	M	M	0	8	22	90
18	75	44	60	2	5	0	0.00	M	M	4.4	16	290	M	M	0	0	20	280
19	76	45	61	3	4	0	0.00	M	M	4.4	16	290	M	M	0	0	19	290
20	63	49	56	-2	9	0	0.00	M	M	4.2	15	200	M	M	3	8	20	200
21	62	53	58	0	7	0	0.00	M	M	5.1	17	280	M	M	7	8	22	290
22	60	47	54	-4	11	0	0.02	M	M	9.7	24	290	M	M	7	0	30	260
23	58	45	52	-6	13	0	0.02	M	M	10.6	22	300	M	M	4	0	28	300
24	62	39	51	-7	14	0	0.00	M	M	5.5	18	290	M	M	0	0	22	290
25	65	40	53	-5	12	0	0.00	M	M	3.2	15	290	M	M	0	0	17	290
26	72	40	56	-2	9	0	0.00	M	M	4.1	18	290	M	M	0	0	22	280
27	77	47	62	4	3	0	0.00	M	M	4.7	15	290	M	M	0	0	18	280
28	82	47	65	7	0	0	0.00	M	M	3.4	12	200	M	M	0	0	15	200
=====																		
SM	2032	1284			170	18	0.08	M		129.1			M		31			
=====																		
AV	72.6	45.9								4.6	FASTST	M	M	1		MAX(MPH)		
=====																		
MISC ----> 24 290 30 260																		
=====																		

NOTES:  
# LAST OF SEVERAL OCCURRENCES

COLUMN 17 PEAK WIND IN M.P.H.

PRELIMINARY LOCAL CLIMATOLOGICAL DATA (WS FORM: F-6) , PAGE 2

STATION: LONG BEACH AIRPORT CA  
MONTH: FEBRUARY  
YEAR: 2022  
LATITUDE: 33 49 N  
LONGITUDE: 118 9 W

[TEMPERATURE DATA] [PRECIPITATION DATA] SYMBOLS USED IN COLUMN 16

AVERAGE MONTHLY: 59.2	TOTAL FOR MONTH: 0.08	1 = FOG OR MIST
DPTR FM NORMAL: 1.6	DPTR FM NORMAL: -2.94	2 = FOG REDUCING VISIBILITY
HIGHEST: 89 ON 12	GRTST 24HR 0.04 ON 15-15	TO 1/4 MILE OR LESS
LOWEST: 39 ON 24		3 = THUNDER
	SNOW, ICE PELLETS, HAIL	4 = ICE PELLETS
	TOTAL MONTH: M	5 = HAIL
	GRTST 24HR M ON M	6 = FREEZING RAIN OR DRIZZLE
	GRTST DEPTH: M ON M	7 = DUSTSTORM OR SANDSTORM:
		VSBY 1/2 MILE OR LESS

[NO. OF DAYS WITH]	[WEATHER - DAYS WITH]	8 = SMOKE OR HAZE
		9 = BLOWING SNOW
		X = TORNADO
MAX 32 OR BELOW: 0	0.01 INCH OR MORE: 3	
MAX 90 OR ABOVE: 0	0.10 INCH OR MORE: 0	
MIN 32 OR BELOW: 0	0.50 INCH OR MORE: 0	
MIN 0 OR BELOW: 0	1.00 INCH OR MORE: 0	
[HDD (BASE 65) ]		
TOTAL THIS MO. 170	CLEAR (SCALE 0-3) 22	
DPTR FM NORMAL -43	PTCLDY (SCALE 4-7) 6	
TOTAL FM JUL 1 801	CLOUDY (SCALE 8-10) 0	
DPTR FM NORMAL -60		
[CDD (BASE 65) ]		
TOTAL THIS MO. 18		
DPTR FM NORMAL 12	[PRESSURE DATA]	
TOTAL FM JAN 1 18	HIGHEST SLP 30.38 ON 4	
DPTR FM NORMAL 14	LOWEST SLP 29.74 ON 15	
[REMARKS]		
#FINAL-02-22#		

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# National Weather Service Weather Forecast Office Los Angeles, CA

## Climatological Report (Monthly)

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 CXUS56 KLOX 011730  
 CLMLGB

CLIMATE REPORT  
 NATIONAL WEATHER SERVICE LOS ANGELES/OXNARD  
 930 AM PST TUE MAR 01 2022

...THE LONG BEACH AIRPORT CA CLIMATE SUMMARY FOR THE MONTH OF FEBRUARY 2022...

CLIMATE NORMAL PERIOD: 1991 TO 2020  
 CLIMATE RECORD PERIOD: 1958 TO 2022

WEATHER	OBSERVED VALUE	DATE(S)	NORMAL VALUE	DEPART FROM NORMAL	LAST YEAR'S VALUE
---------	-------------------	---------	-----------------	--------------------------	----------------------

.....  
 TEMPERATURE (F)

HIGHEST	89	02/12			
LOWEST	39	02/24			
AVG. MAXIMUM	72.6		66.8	5.8	
AVG. MINIMUM	45.9		48.4	-2.5	
MEAN	59.3		57.6	1.7	
DAYS MAX >= 90	0				
DAYS MAX <= 32	0				
DAYS MIN <= 32	0				
DAYS MIN <= 0	0				

PRECIPITATION (INCHES)

TOTALS	0.08		3.02	-2.94	
DAILY AVG.	0.00				
DAYS >= .01	3				
DAYS >= .10	0				
DAYS >= .50	0				
DAYS >= 1.00	0				
GREATEST					
24 HR. TOTAL	0.04	02/22 TO 02/23			
STORM TOTAL	0.04				

DEGREE DAYS

HEATING TOTAL	170		213	-43	168
SINCE 7/1	801		861	-60	MM
COOLING TOTAL	18		6	12	2
SINCE 1/1	18		4	14	MM

WIND (MPH)

AVERAGE WIND SPEED	4.6				
HIGHEST WIND SPEED/DIRECTION	24/290	DATE	02/22		
HIGHEST GUST SPEED/DIRECTION	30/260	DATE	02/22		

SKY COVER

POSSIBLE SUNSHINE (PERCENT)	MM
AVERAGE SKY COVER	0.12
NUMBER OF DAYS FAIR	24
NUMBER OF DAYS PC	4
NUMBER OF DAYS CLOUDY	0

AVERAGE RH (PERCENT) 48

WEATHER CONDITIONS. NUMBER OF DAYS WITH

THUNDERSTORM	1	MIXED PRECIP	0
HEAVY RAIN	0	RAIN	0
LIGHT RAIN	2	FREEZING RAIN	0
LT FREEZING RAIN	0	HAIL	0
HEAVY SNOW	0	SNOW	0
LIGHT SNOW	0	SLEET	0
FOG	3	FOG W/VIS <= 1/4 MILE	0
HAZE	5		

- INDICATES NEGATIVE NUMBERS.  
 R INDICATES RECORD WAS SET OR TIED.  
 MM INDICATES DATA IS MISSING.  
 T INDICATES TRACE AMOUNT.

\$\$

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# National Weather Service Weather Forecast Office Los Angeles, CA

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000

CXUS56 KLOX 011155

CF6LGB

PRELIMINARY LOCAL CLIMATOLOGICAL DATA (WS FORM: F-6)

STATION: LONG BEACH AIRPORT CA

MONTH: MARCH

YEAR: 2022

LATITUDE: 33 49 N

LONGITUDE: 118 9 W

		TEMPERATURE IN F:					PCPN:	SNOW:	WIND		SUNSHINE:		SKY	PK WND				
1	2	3	4	5	6A	6B	7	8	9	10	11	12	13	14	15	16	17	18
12Z																		
AVG	MX	2MIN																
12Z	SNW	DPTH	SPD	SPD	DIR	MIN	PSBL	S-S	WX	SPD	DR							

1	85	48	67	8	0	2	0.00	M	M	4.1	16	290	M	M	0		19	300
2	76	49	63	4	2	0	0.00	M	M	3.5	10	190	M	M	0	1	14	180
3	62	52	57	-2	8	0	0.00	M	M	6.9	15	180	M	M	8	128	21	160
4	65	52	59	0	6	0	0.01	M	M	7.2	17	280	M	M	6		26	270
5	59	49	54	-5	11	0	T	M	M	13.3	32	290	M	M	4		37	290
6	60	42	51	-8	14	0	0.00	M	M	5.4	13	180	M	M	0		15	180
7	72	44	58	-1	7	0	0.00	M	M	3.8	18	290	M	M	0		22	290
8	72	46	59	0	6	0	0.00	M	M	4.5	18	300	M	M	0		22	310
9	64	45	55	-4	10	0	0.00	M	M	4.9	13	210	M	M	1		17	190
10	68	53	61	2	4	0	0.00	M	M	5.1	15	300	M	M	2		19	210
11	75	47	61	1	4	0	0.00	M	M	6.3	18	290	M	M	0		21	300
12	78	48	63	3	2	0	0.00	M	M	6.4	20	290	M	M	0		24	290
13	70	49	60	0	5	0	0.00	M	M	5.1	15	290	M	M	0		17	290
14	74	54	64	4	1	0	0.00	M	M	5.4	13	290	M	M	3			M M
15	74	51	63	3	2	0	0.00	M	M	4.6	9	290	M	M	0	18		M M
16	75	55	65	5	0	0	0.00	M	M	6.8	18	280	M	M	2		20	270
17	84	53	69	9	0	4	0.00	M	M	6.9	21	280	M	M	0		25	280
18	73	52	63	3	2	0	0.00	M	M	4.0	10	290	M	M	0			M M
19	66	54	60	0	5	0	0.14	M	M	5.8	14	290	M	M	3	1		M M
20	72	54	63	3	2	0	T	M	M	11.7	24	290	M	M	1		32	290
21	76	52	64	4	1	0	0.00	M	M	3.6	17	300	M	M	0		23	160
22	87	53	70	10	0	5	0.00	M	M	3.9	15	300	M	M	0		18	150
23	85	57	71	11	0	6	0.00	M	M	5.0	17	290	M	M	0		21	290
24	84	57	71	10	0	6	0.00	M	M	5.0	14	290	M	M	0	8	17	300
25	80	53	67	6	0	2	0.00	M	M	4.2	15	290	M	M	2	128	17	280
26	66	54	60	-1	5	0	0.00	M	M	4.9	9	200	M	M	4	18		M M
27	64	57	61	0	4	0	0.00	M	M	7.2	10	220	M	M	7			M M
28	63	56	60	-1	5	0	0.72	M	M	9.1	23	150	M	M	8	13	31	130
29	67	52	60	-1	5	0	0.03	M	M	4.8	16	280	M	M	2	1	21	290
30	71	55	63	2	2	0	0.00	M	M	5.2	14	300	M	M	4		19	300
31	64	57	61	0	4	0	T	M	M	5.3	12	200	M	M	10	1	16	180

SM 2231 1600 117 25 0.90 M 179.9 M 67

AV 72.0 51.6 5.8 FASTST M M 2 MAX(MPH) 37 290  
MISC ----> 32 290

### NOTES:

# LAST OF SEVERAL OCCURRENCES

COLUMN 17 PEAK WIND IN M.P.H.

PRELIMINARY LOCAL CLIMATOLOGICAL DATA (WS FORM: F-6) , PAGE 2

STATION: LONG BEACH AIRPORT CA

MONTH: MARCH

YEAR: 2022

LATITUDE: 33 49 N

LONGITUDE: 118 9 W

[TEMPERATURE DATA]

[PRECIPITATION DATA]

SYMBOLS USED IN COLUMN 16

AVERAGE MONTHLY: 61.8

TOTAL FOR MONTH: 0.90

1 = FOG OR MIST

DPTR FM NORMAL: 1.9

DPTR FM NORMAL: -0.75

2 = FOG REDUCING VISIBILITY

HIGHEST: 87 ON 22

GRTST 24HR 0.75 ON 28-29

TO 1/4 MILE OR LESS

LOWEST: 42 ON 6

SNOW, ICE PELLETS, HAIL

3 = THUNDER

TOTAL MONTH: M

4 = ICE PELLETS

5 = HAIL

Text Products for CF6 Issued by LGB

GRTST 24HR M ON M 6 = FREEZING RAIN OR DRIZZLE  
 GRTST DEPTH: M ON M 7 = DUSTSTORM OR SANDSTORM:  
 VSBY 1/2 MILE OR LESS  
 8 = SMOKE OR HAZE  
 9 = BLOWING SNOW  
 X = TORNADO

[NO. OF DAYS WITH] [WEATHER - DAYS WITH]  
 MAX 32 OR BELOW: 0 0.01 INCH OR MORE: 4  
 MAX 90 OR ABOVE: 0 0.10 INCH OR MORE: 2  
 MIN 32 OR BELOW: 0 0.50 INCH OR MORE: 1  
 MIN 0 OR BELOW: 0 1.00 INCH OR MORE: 0

[HDD (BASE 65) ]  
 TOTAL THIS MO. 117 CLEAR (SCALE 0-3) 21  
 DPTR FM NORMAL -52 PTCLDY (SCALE 4-7) 8  
 TOTAL FM JUL 1 918 CLOUDY (SCALE 8-10) 2  
 DPTR FM NORMAL -108

[CDD (BASE 65) ]  
 TOTAL THIS MO. 25  
 DPTR FM NORMAL 14 [PRESSURE DATA]  
 TOTAL FM JAN 1 43 HIGHEST SLP 30.31 ON 11  
 DPTR FM NORMAL 22 LOWEST SLP 29.75 ON 28

[REMARKS]  
 #FINAL-03-22#

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# National Weather Service Weather Forecast Office Los Angeles, CA

## Climatological Report (Monthly)

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 CXUSS6 KLOX 011630  
 CLMLGB

CLIMATE REPORT  
 NATIONAL WEATHER SERVICE LOS ANGELES/OXNARD  
 930 AM PDT FRI APR 01 2022

.....  
 ...THE LONG BEACH AIRPORT CA CLIMATE SUMMARY FOR THE MONTH OF MARCH 2022...

CLIMATE NORMAL PERIOD: 1991 TO 2020  
 CLIMATE RECORD PERIOD: 1958 TO 2022

WEATHER	OBSERVED VALUE	DATE(S)	NORMAL VALUE	DEPART FROM NORMAL	LAST YEAR'S VALUE
---------	-------------------	---------	-----------------	--------------------------	----------------------

.....  
 TEMPERATURE (F)

HIGHEST	87	03/22			
LOWEST	42	03/06			
AVG. MAXIMUM	72.0		68.6	3.4	
AVG. MINIMUM	51.6		51.2	0.4	
MEAN	61.8		59.9	1.9	
DAYS MAX >= 90	0				
DAYS MAX <= 32	0				
DAYS MIN <= 32	0				
DAYS MIN <= 0	0				

PRECIPITATION (INCHES)

TOTALS	0.90		1.65	-0.75	
DAILY AVG.	0.03				
DAYS >= .01	4				
DAYS >= .10	2				
DAYS >= .50	1				
DAYS >= 1.00	0				
GREATEST					
24 HR. TOTAL	0.75	03/28 TO 03/29			
STORM TOTAL	0.72				

DEGREE DAYS

HEATING TOTAL	117		169	-52	227
SINCE 7/1	918		1026	-108	MM
COOLING TOTAL	25		11	14	11
SINCE 1/1	43		21	22	MM

.....  
 WIND (MPH)

AVERAGE WIND SPEED		5.8			
HIGHEST WIND SPEED/DIRECTION		32/290	DATE	03/05	
HIGHEST GUST SPEED/DIRECTION		37/290	DATE	03/05	

SKY COVER

POSSIBLE SUNSHINE (PERCENT)	MM
AVERAGE SKY COVER	0.22
NUMBER OF DAYS FAIR	23
NUMBER OF DAYS PC	5
NUMBER OF DAYS CLOUDY	3

AVERAGE RH (PERCENT) 61

WEATHER CONDITIONS. NUMBER OF DAYS WITH

THUNDERSTORM	1	MIXED PRECIP	0
HEAVY RAIN	1	RAIN	1
LIGHT RAIN	5	FREEZING RAIN	0
LT FREEZING RAIN	0	HAIL	0
HEAVY SNOW	0	SNOW	0
LIGHT SNOW	0	SLEET	0
FOG	9	FOG W/VIS <= 1/4 MILE	2
HAZE	5		

- INDICATES NEGATIVE NUMBERS.  
 R INDICATES RECORD WAS SET OR TIED.  
 MM INDICATES DATA IS MISSING.  
 T INDICATES TRACE AMOUNT.

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National Weather Service  
Los Angeles, CA Weather Forecast Office  
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 CLMLGB

CLIMATE REPORT  
 NATIONAL WEATHER SERVICE LOS ANGELES/OXNARD  
 930 AM PDT SUN MAY 01 2022

.....  
 ...THE LONG BEACH AIRPORT CA CLIMATE SUMMARY FOR THE MONTH OF APRIL 2022...

CLIMATE NORMAL PERIOD: 1991 TO 2020  
 CLIMATE RECORD PERIOD: 1958 TO 2022

WEATHER	OBSERVED VALUE	DATE(S)	NORMAL VALUE	DEPART FROM NORMAL	LAST YEAR'S VALUE
---------	-------------------	---------	-----------------	--------------------------	----------------------

.....  
 TEMPERATURE (F)

HIGHEST	101	04/08			
LOWEST	48	04/13			
AVG. MAXIMUM	74.4		71.4	3.0	
AVG. MINIMUM	55.3		53.9	1.4	
MEAN	64.9		62.7	2.2	
DAYS MAX >= 90	3				
DAYS MAX <= 32	0				
DAYS MIN <= 32	0				
DAYS MIN <= 0	0				

PRECIPITATION (INCHES)

TOTALS	0.15		0.56	-0.41	
DAILY AVG.	0.01				
DAYS >= .01	1				
DAYS >= .10	1				
DAYS >= .50	0				
DAYS >= 1.00	0				
GREATEST					
24 HR. TOTAL	0.15	04/22 TO 04/22			
STORM TOTAL	0.15				

DEGREE DAYS

HEATING TOTAL	58		100	-42	78
SINCE 7/1	976		1129	-153	MM
COOLING TOTAL	60		30	30	40
SINCE 1/1	103		51	52	MM

.....  
 WIND (MPH)

AVERAGE WIND SPEED		6.9			
HIGHEST WIND SPEED/DIRECTION		31/280	DATE	04/12	
HIGHEST GUST SPEED/DIRECTION		37/290	DATE	04/12	

SKY COVER

POSSIBLE SUNSHINE (PERCENT)	MM
AVERAGE SKY COVER	0.23
NUMBER OF DAYS FAIR	23
NUMBER OF DAYS PC	6
NUMBER OF DAYS CLOUDY	1

AVERAGE RH (PERCENT) 61

WEATHER CONDITIONS, NUMBER OF DAYS WITH

THUNDERSTORM	0	MIXED PRECIP	0
HEAVY RAIN	0	RAIN	1
LIGHT RAIN	3	FREEZING RAIN	0
LT FREEZING RAIN	0	HAIL	0
HEAVY SNOW	0	SNOW	0
LIGHT SNOW	0	SLEET	0
FOG	9	FOG W/VIS <= 1/4 MILE	1
HAZE	10		

- INDICATES NEGATIVE NUMBERS.  
 R INDICATES RECORD WAS SET OR TIED.  
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# National Weather Service Weather Forecast Office Los Angeles, CA

## WFO Monthly/Daily Climate Data

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CXUS56 KLOX 011155

CF6LGB

PRELIMINARY LOCAL CLIMATOLOGICAL DATA (WS FORM: F-6)

STATION: LONG BEACH AIRPORT CA

MONTH: APRIL

YEAR: 2022

LATITUDE: 33 49 N

LONGITUDE: 118 9 W

TEMPERATURE IN F:		:PCPN:		SNOW:		WIND:		:SUNSHINE:		SKY:		:PK WND:						
1	2	3	4	5	6A	6B	7	8	9	10	11	12	13	14	15	16	17	18
MAX	MIN	AVG	DEP	HDD	CDD	WTR	SNW	DPTH	SPD	SPD	DIR	MIN	PSBL	S-S	WX	SPD	DR	
1	69	54	62	1	3	0	0.00	M	M	5.8	15	290	M	M	2	18	17	290
2	65	56	61	0	4	0	0.00	M	M	5.4	14	290	M	M	9	8	16	300
3	68	56	62	1	3	0	0.00	M	M	8.2	15	300	M	M	7		20	290
4	69	55	62	0	3	0	0.00	M	M	3.9	10	240	M	M	3		17	130
5	70	54	62	0	3	0	0.00	M	M	5.5	12	170	M	M	1	18	15	180
6	91	57	74	12	0	9	0.00	M	M	3.5	10	290	M	M	0	18	14	290
7	100	56	78	16	0	13	0.00	M	M	5.2	20	290	M	M	1	12	22	290
8	101	64	83	21	0	18	0.00	M	M	7.1	21	290	M	M	0		24	290
9	75	61	68	6	0	3	0.00	M	M	6.8	14	160	M	M	1	18	19	160
10	69	61	65	3	0	0	0.00	M	M	7.3	14	210	M	M	6		17	200
11	68	55	62	0	3	0	0.00	M	M	9.6	21	270	M	M	7	8	28	270
12	71	53	62	0	3	0	T	M	M	17.2	31	280	M	M	1		37	290
13	70	48	59	-3	6	0	0.00	M	M	8.0	18	320	M	M	0		23	320
14	70	51	61	-1	4	0	0.00	M	M	5.6	16	290	M	M	0	8	22	290
15	72	53	63	1	2	0	0.00	M	M	6.4	16	290	M	M	2		20	290
16	70	56	63	0	2	0	T	M	M	7.2	21	280	M	M	5		26	290
17	72	55	64	1	1	0	0.00	M	M	7.1	16	310	M	M	3	1	19	310
18	75	53	64	1	1	0	0.00	M	M	4.8	16	290	M	M	0		19	290
19	74	58	66	3	0	1	0.00	M	M	5.5	21	290	M	M	0		24	300
20	67	56	62	-1	3	0	0.00	M	M	7.8	14	300	M	M	3		19	190
21	71	51	61	-2	4	0	T	M	M	7.6	21	300	M	M	2		24	220
22	66	54	60	-3	5	0	0.15	M	M	12.7	25	290	M	M	2	1	33	250
23	76	53	65	1	0	0	0.00	M	M	6.2	21	290	M	M	1		25	280
24	87	55	71	7	0	6	0.00	M	M	6.4	22	290	M	M	0		27	290
25	87	57	72	8	0	7	0.00	M	M	5.4	18	290	M	M	0		23	290
26	74	57	66	2	0	1	0.00	M	M	6.2	14	80	M	M	0	8	18	110
27	67	57	62	-2	3	0	0.00	M	M	7.1	13	200	M	M	4	18	20	180
28	68	56	62	-2	3	0	0.00	M	M	6.8	15	290	M	M	5		18	210
29	73	53	63	-1	2	0	0.00	M	M	5.6	16	290	M	M	2		19	290
30	78	55	67	3	0	2	0.00	M	M	5.3	15	280	M	M	0	18	20	290
SM	2233	1660			58	60	0.15	M		207.2			M		67			
AV	74.4	55.3								6.9	FASTST	M	M	2	MAX(MPH)			
										MISC	---->	31	280		37	290		

NOTES:

# LAST OF SEVERAL OCCURRENCES

COLUMN 17 PEAK WIND IN M.P.H.

PRELIMINARY LOCAL CLIMATOLOGICAL DATA (WS FORM: F-6) , PAGE 2

STATION: LONG BEACH AIRPORT CA

MONTH: APRIL

YEAR: 2022

LATITUDE: 33 49 N

LONGITUDE: 118 9 W

[TEMPERATURE DATA]	[PRECIPITATION DATA]	SYMBOLS USED IN COLUMN 16
AVERAGE MONTHLY: 64.9	TOTAL FOR MONTH: 0.15	1 = FOG OR MIST
DPTR FM NORMAL: 2.2	DPTR FM NORMAL: -0.41	2 = FOG REDUCING VISIBILITY TO 1/4 MILE OR LESS
HIGHEST: 101 ON 8	GRST 24HR 0.15 ON 21-22	3 = THUNDER
LOWEST: 48 ON 13		4 = ICE PELLETS
	SNOW, ICE PELLETS, HAIL	5 = HAIL
	TOTAL MONTH: M	6 = FREEZING RAIN OR DRIZZLE
	GRST 24HR M ON M	

GRTST DEPTH: M ON M 7 = DUSTSTORM OR SANDSTORM:  
 VSBY 1/2 MILE OR LESS  
 8 = SMOKE OR HAZE  
 9 = BLOWING SNOW  
 X = TORNADO

[NO. OF DAYS WITH] [WEATHER - DAYS WITH]  
 MAX 32 OR BELOW: 0 0.01 INCH OR MORE: 1  
 MAX 90 OR ABOVE: 3 0.10 INCH OR MORE: 1  
 MIN 32 OR BELOW: 0 0.50 INCH OR MORE: 0  
 MIN 0 OR BELOW: 0 1.00 INCH OR MORE: 0

[HDD (BASE 65) ]  
 TOTAL THIS MO. 58 CLEAR (SCALE 0-3) 23  
 DPTR FM NORMAL -42 PTCLDY (SCALE 4-7) 6  
 TOTAL FM JUL 1 976 CLOUDY (SCALE 8-10) 1  
 DPTR FM NORMAL -153

[CDD (BASE 65) ]  
 TOTAL THIS MO. 60  
 DPTR FM NORMAL 30 [PRESSURE DATA]  
 TOTAL FM JAN 1 103 HIGHEST SLP 30.17 ON 17  
 DPTR FM NORMAL 52 LOWEST SLP 29.75 ON 9

[REMARKS]  
 #FINAL-04-22#

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# National Weather Service Weather Forecast Office Los Angeles, CA

## Climatological Report (Monthly)

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CLIMATE REPORT  
 NATIONAL WEATHER SERVICE LOS ANGELES/OXNARD  
 930 AM PDT WED JUN 01 2022

...THE LONG BEACH AIRPORT CA CLIMATE SUMMARY FOR THE MONTH OF MAY 2022...

CLIMATE NORMAL PERIOD: 1991 TO 2020  
 CLIMATE RECORD PERIOD: 1958 TO 2022

WEATHER	OBSERVED VALUE	DATE(S)	NORMAL VALUE	DEPART FROM NORMAL	LAST YEAR'S VALUE
---------	----------------	---------	--------------	--------------------	-------------------

TEMPERATURE (F)

HIGHEST	91	05/14			
LOWEST	51	05/10			
		05/11			
AVG. MAXIMUM	72.5		73.1	-0.6	
AVG. MINIMUM	57.8		57.9	-0.1	
MEAN	65.2		65.5	-0.3	
DAYS MAX >= 90	1				
DAYS MAX <= 32	0				
DAYS MIN <= 32	0				
DAYS MIN <= 0	0				

PRECIPITATION (INCHES)

TOTALS	T		0.26	-0.26	
DAILY AVG.	T				
DAYS >= .01	0				
DAYS >= .10	0				
DAYS >= .50	0				
DAYS >= 1.00	0				
GREATEST					
24 HR. TOTAL	T	05/20 TO 05/20			
STORM TOTAL	0.00				

DEGREE DAYS

HEATING TOTAL	30		40	-10	17
SINCE 7/1	1006		1170	-164	MM
COOLING TOTAL	42		55	-13	30
SINCE 1/1	145		106	39	MM

WIND (MPH)

AVERAGE WIND SPEED	6.4				
HIGHEST WIND SPEED/DIRECTION	33/280	DATE	05/11		
HIGHEST GUST SPEED/DIRECTION	38/290	DATE	05/11		

SKY COVER

POSSIBLE SUNSHINE (PERCENT)	MM
AVERAGE SKY COVER	0.38
NUMBER OF DAYS FAIR	15
NUMBER OF DAYS PC	13
NUMBER OF DAYS CLOUDY	3

AVERAGE RH (PERCENT) 65

WEATHER CONDITIONS. NUMBER OF DAYS WITH

THUNDERSTORM	0	MIXED PRECIP	0
HEAVY RAIN	0	RAIN	0
LIGHT RAIN	1	FREEZING RAIN	0
LT FREEZING RAIN	0	HAIL	0
HEAVY SNOW	0	SNOW	0
LIGHT SNOW	0	SLEET	0
FOG	7	FOG W/VIS <= 1/4 MILE	0
HAZE	8		

- INDICATES NEGATIVE NUMBERS.  
 R INDICATES RECORD WAS SET OR TIED.  
 MM INDICATES DATA IS MISSING.

T INDICATES TRACE AMOUNT.

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Los Angeles, CA Weather Forecast Office  
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## WFO Monthly/Daily Climate Data

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CF6LGB  
PRELIMINARY LOCAL CLIMATOLOGICAL DATA (WS FORM: F-6)

STATION: LONG BEACH AIRPORT CA  
MONTH: MAY  
YEAR: 2022  
LATITUDE: 33 49 N  
LONGITUDE: 118 9 W

		TEMPERATURE IN F:					PCPN:	SNOW:	WIND		SUNSHINE:		SKY	PK WND				
1	2	3	4	5	6A	6B	7	8	9	10	11	12	13	14	15	16	17	18
									12Z		AVG MX 2MIN							
DY	MAX	MIN	AVG	DEP	HDD	CDD	WTR	SNW	DPTH	SPD	SPD	DIR	MIN	PSBL	S-S	WX	SPD	DR
1	68	58	63	-1	2	0	0.00	M	M	5.6	13	120	M	M	6		16	200
2	70	59	65	1	0	0	0.00	M	M	6.4	14	290	M	M	5		18	190
3	68	59	64	0	1	0	0.00	M	M	6.3	15	200	M	M	4		19	190
4	79	56	68	3	0	3	0.00	M	M	5.9	15	320	M	M	1		19	320
5	77	57	67	2	0	2	0.00	M	M	5.5	14	320	M	M	4	1	18	320
6	72	56	64	-1	1	0	0.00	M	M	5.1	13	200	M	M	2	18	16	200
7	70	60	65	0	0	0	0.00	M	M	7.2	13	170	M	M	3		19	210
8	68	57	63	-2	2	0	0.00	M	M	8.6	16	300	M	M	5	18	23	280
9	68	54	61	-4	4	0	0.00	M	M	8.1	20	290	M	M	2		26	290
10	70	51	61	-4	4	0	0.00	M	M	7.6	22	300	M	M	0	8	27	290
11	71	51	61	-4	4	0	0.00	M	M	10.7	33	280	M	M	0		38	290
12	83	52	68	3	0	3	0.00	M	M	8.4	24	290	M	M	0		29	310
13	86	57	72	7	0	7	0.00	M	M	5.7	21	300	M	M	0		24	300
14	91	59	75	10	0	10	0.00	M	M	4.7	16	310	M	M	0		19	320
15	80	59	70	4	0	5	0.00	M	M	5.1	14	280	M	M	1	1	18	200
16	73	59	66	0	0	1	0.00	M	M	6.2	12	180	M	M	4		16	220
17	69	59	64	-2	1	0	0.00	M	M	6.2	13	200	M	M	5		19	190
18	71	59	65	-1	0	0	0.00	M	M	5.7	12	150	M	M	6		16	170
19	64	59	62	-4	3	0	0.00	M	M	5.1	9	220	M	M	10	18	12	170
20	66	58	62	-4	3	0	T	M	M	6.6	16	150	M	M	10	18	22	150
21	69	61	65	-1	0	0	0.00	M	M	6.9	14	210	M	M	7		19	170
22	74	57	66	0	0	1	0.00	M	M	6.5	17	300	M	M	0		22	300
23	66	58	62	-4	3	0	0.00	M	M	5.4	12	210	M	M	7		15	200
24	71	59	65	-1	0	0	0.00	M	M	4.8	13	190	M	M	5	8	16	150
25	68	60	64	-2	1	0	0.00	M	M	5.7	13	180	M	M	4	8	18	180
26	72	61	67	1	0	2	0.00	M	M	6.4	15	190	M	M	6	18	19	170
27	72	61	67	1	0	2	0.00	M	M	7.5	16	300	M	M	5		20	230
28	69	59	64	-2	1	0	0.00	M	M	5.6	13	310	M	M	9		16	290
29	70	59	65	-1	0	0	0.00	M	M	6.8	14	200	M	M	2		19	200
30	76	61	69	3	0	4	0.00	M	M	6.2	15	280	M	M	3		20	310
31	75	58	67	1	0	2	0.00	M	M	5.8	13	310	M	M	2		15	180
SM	2246	1793			30	42		T	M	198.3			M		118			

AV 72.5 57.8 6.4 FASTST M M 4 MAX(MPH)  
MISC ----> 33 280 38 290

NOTES:  
# LAST OF SEVERAL OCCURRENCES

COLUMN 17 PEAK WIND IN M.P.H.

PRELIMINARY LOCAL CLIMATOLOGICAL DATA (WS FORM: F-6) , PAGE 2

STATION: LONG BEACH AIRPORT CA  
MONTH: MAY  
YEAR: 2022  
LATITUDE: 33 49 N  
LONGITUDE: 118 9 W

[TEMPERATURE DATA] [PRECIPITATION DATA] SYMBOLS USED IN COLUMN 16

AVERAGE MONTHLY: 65.1 TOTAL FOR MONTH: T 1 = FOG OR MIST  
DPTR FM NORMAL: -0.4 DPTR FM NORMAL: -0.26 2 = FOG REDUCING VISIBILITY  
HIGHEST: 91 ON 14 GRTST 24HR T ON 11-11 TO 1/4 MILE OR LESS  
LOWEST: 51 ON 11,10 3 = THUNDER  
SNOW, ICE PELLETS, HAIL 4 = ICE PELLETS  
TOTAL MONTH: M 5 = HAIL

Text Products for CF6 Issued by LGB

GRTST 24HR M ON M 6 = FREEZING RAIN OR DRIZZLE  
 GRTST DEPTH: M ON M 7 = DUSTSTORM OR SANDSTORM:  
 VSBY 1/2 MILE OR LESS  
 8 = SMOKE OR HAZE  
 9 = BLOWING SNOW  
 X = TORNADO

[NO. OF DAYS WITH] [WEATHER - DAYS WITH]  
 MAX 32 OR BELOW: 0 0.01 INCH OR MORE: 0  
 MAX 90 OR ABOVE: 1 0.10 INCH OR MORE: 0  
 MIN 32 OR BELOW: 0 0.50 INCH OR MORE: 0  
 MIN 0 OR BELOW: 0 1.00 INCH OR MORE: 0

[HDD (BASE 65) ]  
 TOTAL THIS MO. 30 CLEAR (SCALE 0-3) 14  
 DPTR FM NORMAL -10 PTCLDY (SCALE 4-7) 14  
 TOTAL FM JUL 1 1006 CLOUDY (SCALE 8-10) 3  
 DPTR FM NORMAL -164

[CDD (BASE 65) ]  
 TOTAL THIS MO. 42  
 DPTR FM NORMAL -13 [PRESSURE DATA]  
 TOTAL FM JAN 1 145 HIGHEST SLP 30.16 ON 12  
 DPTR FM NORMAL 39 LOWEST SLP 29.76 ON 30

[REMARKS]  
 #FINAL-05-22#

National Weather Service  
 Los Angeles, CA Weather Forecast Office  
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 Oxnard, CA 93030  
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 Page last modified: Jun 8th, 2022 15:44 UTC

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# National Weather Service Weather Forecast Office Los Angeles, CA

## Climatological Report (Monthly)

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000  
 CXUS56 KLOX 011918  
 CLMLGB

CLIMATE REPORT  
 NATIONAL WEATHER SERVICE LOS ANGELES/OXNARD  
 1218 PM PDT FRI JUL 01 2022

...THE LONG BEACH AIRPORT CA CLIMATE SUMMARY FOR THE MONTH OF JUNE 2022...

CLIMATE NORMAL PERIOD: 1991 TO 2020  
 CLIMATE RECORD PERIOD: 1958 TO 2022

WEATHER	OBSERVED VALUE	DATE(S)	NORMAL VALUE	DEPART FROM NORMAL	LAST YEAR'S VALUE
---------	-------------------	---------	-----------------	--------------------------	----------------------

.....  
 TEMPERATURE (F)

HIGHEST	92	06/20			
LOWEST	59	06/01			
AVG. MAXIMUM	79.7		76.1	3.6	
AVG. MINIMUM	62.7		61.3	1.4	
MEAN	71.2		68.7	2.5	
DAYS MAX >= 90	1				
DAYS MAX <= 32	0				
DAYS MIN <= 32	0				
DAYS MIN <= 0	0				

PRECIPITATION (INCHES)

TOTALS	0.12		0.07	0.05	
DAILY AVG.	0.00				
DAYS >= .01	2				
DAYS >= .10	1				
DAYS >= .50	0				
DAYS >= 1.00	0				
GREATEST					
24 HR. TOTAL	0.11	06/22 TO 06/22			
STORM TOTAL	0.11				

DEGREE DAYS

HEATING TOTAL	0		6	-6	3
SINCE 7/1	1006		1169	-163	MM
COOLING TOTAL	197		117	80	121
SINCE 1/1	342		223	119	MM

.....  
 WIND (MPH)

AVERAGE WIND SPEED	6.0				
HIGHEST WIND SPEED/DIRECTION	21/290	DATE	06/19		
HIGHEST GUST SPEED/DIRECTION	25/280	DATE	06/19		

SKY COVER

POSSIBLE SUNSHINE (PERCENT)	MM
AVERAGE SKY COVER	0.31
NUMBER OF DAYS FAIR	16
NUMBER OF DAYS PC	14
NUMBER OF DAYS CLOUDY	0

AVERAGE RH (PERCENT) 67

WEATHER CONDITIONS. NUMBER OF DAYS WITH

THUNDERSTORM	1	MIXED PRECIP	0
HEAVY RAIN	0	RAIN	0
LIGHT RAIN	2	FREEZING RAIN	0
LT FREEZING RAIN	0	HAIL	0
HEAVY SNOW	0	SNOW	0
LIGHT SNOW	0	SLEET	0
FOG	12	FOG W/VIS <= 1/4 MILE	0
HAZE	9		

- INDICATES NEGATIVE NUMBERS.  
 R INDICATES RECORD WAS SET OR TIED.  
 MM INDICATES DATA IS MISSING.  
 T INDICATES TRACE AMOUNT.

\$\$

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Los Angeles, CA Weather Forecast Office  
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# National Weather Service Weather Forecast Office Los Angeles, CA

## WFO Monthly/Daily Climate Data

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000  
CXUS56 KLOX 011155  
CF6LGB  
PRELIMINARY LOCAL CLIMATOLOGICAL DATA (WS FORM: F-6)

STATION: LONG BEACH AIRPORT CA  
MONTH: JUNE  
YEAR: 2022  
LATITUDE: 33 49 N  
LONGITUDE: 118 9 W

TEMPERATURE IN F:		:PCPN:		SNOW:		WIND		:SUNSHINE:		SKY		:PK WND						
1	2	3	4	5	6A	6B	7	8	9	10	11	12	13	14	15	16	17	18
=====																		
12Z AVG MX 2MIN																		
DY	MAX	MIN	AVG	DEP	HDD	CDD	WTR	SNW	DPTH	SPD	SPD	DIR	MIN	PSBL	S-S	WX	SPD	DR
=====																		
1	74	59	67	0	0	2	0.00	M	M	6.0	14	150	M	M	3	8	17	150
2	71	60	66	-1	0	1	0.00	M	M	6.9	14	180	M	M	6		18	180
3	74	60	67	0	0	2	0.00	M	M	5.8	14	290	M	M	6		17	300
4	73	62	68	1	0	3	0.00	M	M	5.6	15	310	M	M	7		21	300
5	73	62	68	1	0	3	0.00	M	M	5.8	15	210	M	M	4		20	210
6	78	63	71	4	0	6	0.00	M	M	6.5	12	200	M	M	4		16	210
7	80	63	72	5	0	7	0.00	M	M	5.6	12	180	M	M	6	8	16	170
8	78	62	70	3	0	5	0.00	M	M	6.1	12	130	M	M	6		18	180
9	73	63	68	0	0	3	0.00	M	M	6.0	13	180	M	M	5	18	18	150
10	76	63	70	2	0	5	0.00	M	M	5.8	13	180	M	M	2	18	17	180
11	84	64	74	6	0	9	0.00	M	M	4.1	13	300	M	M	3	18	14	310
12	75	62	69	1	0	4	0.00	M	M	5.4	12	190	M	M	4	1	16	200
13	76	63	70	2	0	5	0.01	M	M	6.8	13	290	M	M	6	1	17	220
14	78	65	72	4	0	7	0.00	M	M	5.8	13	200	M	M	4		19	180
15	76	64	70	2	0	5	0.00	M	M	5.6	13	170	M	M	4		17	180
16	78	65	72	3	0	7	0.00	M	M	5.7	12	300	M	M	7		15	200
17	76	64	70	1	0	5	0.00	M	M	7.7	16	290	M	M	4		22	280
18	77	62	70	1	0	5	0.00	M	M	6.0	17	300	M	M	3		21	300
19	81	60	71	2	0	6	0.00	M	M	6.2	21	290	M	M	0		25	280
20	92	61	77	8	0	12	0.00	M	M	5.5	18	300	M	M	0		21	300
21	78	65	72	2	0	7	0.00	M	M	5.8	12	150	M	M	0	1	19	230
22	85	64	75	5	0	10	0.11	M	M	7.7	14	280	M	M	2	13	16	290
23	87	64	76	6	0	11	0.00	M	M	7.1	17	290	M	M	0	18	23	280
24	88	62	75	5	0	10	0.00	M	M	6.9	16	300	M	M	0	1	19	310
25	87	61	74	4	0	9	0.00	M	M	6.4	15	310	M	M	2	18	17	290
26	86	61	74	4	0	9	0.00	M	M	5.8	12	300	M	M	1	18	15	310
27	88	63	76	5	0	11	0.00	M	M	5.1	13	310	M	M	1	18	17	330
28	84	65	75	4	0	10	0.00	M	M	5.1	12	150	M	M	0		15	150
29	81	65	73	2	0	8	0.00	M	M	5.8	12	200	M	M	3		20	110
30	84	65	75	4	0	10	0.00	M	M	6.6	14	290	M	M	2		16	290
=====																		
SM	2391	1882			0	197	0.12	M		181.2			M		95			
=====																		
AV	79.7	62.7								6.0	FASTST	M	M	3		MAX(MPH)		
=====																		
MISC ----> 21 290 25 280																		
=====																		

NOTES:  
# LAST OF SEVERAL OCCURRENCES  
COLUMN 17 PEAK WIND IN M.P.H.

PRELIMINARY LOCAL CLIMATOLOGICAL DATA (WS FORM: F-6) , PAGE 2

STATION: LONG BEACH AIRPORT CA  
MONTH: JUNE  
YEAR: 2022  
LATITUDE: 33 49 N  
LONGITUDE: 118 9 W

[TEMPERATURE DATA] [PRECIPITATION DATA] SYMBOLS USED IN COLUMN 16

AVERAGE MONTHLY: 71.2	TOTAL FOR MONTH: 0.12	1 = FOG OR MIST
DPTR FM NORMAL: 2.5	DPTR FM NORMAL: 0.05	2 = FOG REDUCING VISIBILITY
HIGHEST: 92 ON 20	GRTST 24HR 0.11 ON 22-22	TO 1/4 MILE OR LESS
LOWEST: 59 ON 1		3 = THUNDER
	SNOW, ICE PELLETS, HAIL	4 = ICE PELLETS
	TOTAL MONTH: M	5 = HAIL
	GRTST 24HR M ON M	6 = FREEZING RAIN OR DRIZZLE

GRTST DEPTH: M ON M 7 = DUSTSTORM OR SANDSTORM:  
 VSBY 1/2 MILE OR LESS  
 8 = SMOKE OR HAZE  
 9 = BLOWING SNOW  
 X = TORNADO

[NO. OF DAYS WITH] [WEATHER - DAYS WITH]  
 MAX 32 OR BELOW: 0 0.01 INCH OR MORE: 2  
 MAX 90 OR ABOVE: 1 0.10 INCH OR MORE: 1  
 MIN 32 OR BELOW: 0 0.50 INCH OR MORE: 0  
 MIN 0 OR BELOW: 0 1.00 INCH OR MORE: 0

[HDD (BASE 65) ]  
 TOTAL THIS MO. 0 CLEAR (SCALE 0-3) 16  
 DPTR FM NORMAL -6 PTCLDY (SCALE 4-7) 14  
 TOTAL FM JUL 1 1006 CLOUDY (SCALE 8-10) 0  
 DPTR FM NORMAL -163

[CDD (BASE 65) ]  
 TOTAL THIS MO. 197  
 DPTR FM NORMAL 80 [PRESSURE DATA]  
 TOTAL FM JAN 1 342 HIGHEST SLP 30.03 ON 30  
 DPTR FM NORMAL 119 LOWEST SLP 29.74 ON 8

[REMARKS]  
 #FINAL-06-22#

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# National Weather Service Weather Forecast Office Los Angeles, CA

## Climatological Report (Monthly)

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 CXUS56 KLOX 090942  
 CLMLGB

CLIMATE REPORT  
 NATIONAL WEATHER SERVICE LOS ANGELES/OXNARD CA  
 232 AM PDT SAT JUL 9 2022

...THE LONG BEACH AIRPORT CA CLIMATE SUMMARY FOR THE MONTH OF NOVEMBER 2021...

CLIMATE NORMAL PERIOD 1981 TO 2010  
 CLIMATE RECORD PERIOD 1958 TO 2020

WEATHER	OBSERVED VALUE	DATE(S)	NORMAL VALUE	DEPART FROM NORMAL	LAST YEAR'S VALUE
---------	-------------------	---------	-----------------	--------------------------	----------------------

.....  
 TEMPERATURE (F)

HIGHEST	MM				
LOWEST	MM				
AVG. MAXIMUM	MM		72.1	MM	
AVG. MINIMUM	MM		50.8	MM	
MEAN	MM		61.4	MM	
DAYS MAX >= 90	0				
DAYS MAX <= 32	0				
DAYS MIN <= 32	0				
DAYS MIN <= 0	0				

PRECIPITATION (INCHES)

TOTALS	MM		1.00	MM	
DAILY AVG.	MM				
DAYS >= .01	0				
DAYS >= .10	0				
DAYS >= .50	0				
DAYS >= 1.00	0				
GREATEST					
24 HR. TOTAL	MM				
STORM TOTAL	MM				
(MM/DD(HH))					

DEGREE\_DAYS

HEATING TOTAL	MM		128	MM	MM
SINCE 7/1	MM		149	MM	MM
COOLING TOTAL	MM		21	MM	MM
SINCE 1/1	MM		1125	MM	MM

.....  
 WIND (MPH)

AVERAGE WIND SPEED	MM				
HIGHEST WIND SPEED/DIRECTION	MM		DATE	MM	
HIGHEST GUST SPEED/DIRECTION	MM		DATE	MM	

SKY COVER

POSSIBLE SUNSHINE (PERCENT)	MM				
AVERAGE SKY COVER	MM				
NUMBER OF DAYS FAIR	MM				
NUMBER OF DAYS PC	MM				
NUMBER OF DAYS CLOUDY	MM				

AVERAGE RH (PERCENT) MM

WEATHER CONDITIONS. NUMBER OF DAYS WITH

THUNDERSTORM	MM	MIXED PRECIP	MM
HEAVY RAIN	MM	RAIN	MM
LIGHT RAIN	MM	FREEZING RAIN	MM
LT FREEZING RAIN	MM	HAIL	MM
HEAVY SNOW	MM	SNOW	MM
LIGHT SNOW	MM	SLEET	MM
FOG	MM	FOG W/VIS <= 1/4 MILE	MM
HAZE	MM		

- INDICATES NEGATIVE NUMBERS.  
 R INDICATES RECORD WAS SET OR TIED.  
 MM INDICATES DATA IS MISSING.

# National Weather Service Weather Forecast Office Los Angeles, CA

## WFO Monthly/Daily Climate Data

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000  
CXUS56 KLOX 011155  
CF6LGB  
PRELIMINARY LOCAL CLIMATOLOGICAL DATA (WS FORM: F-6)

STATION: LONG BEACH AIRPORT CA  
MONTH: JULY  
YEAR: 2022  
LATITUDE: 33 49 N  
LONGITUDE: 118 9 W

TEMPERATURE IN F:		:PCPN:	SNOW:	WIND	:SUNSHINE:	SKY	:PK WND											
1	2	3	4	5	6A	6B	7	8	9	10	11	12	13	14	15	16	17	18
12Z AVG MX 2MIN																		
DY	MAX	MIN	AVG	DEP	HDD	CDD	WTR	SNW	DPTH	SPD	SPD	DIR	MIN	PSBL	S-S	WX	SPD	DR
1	82	65	74	3	0	9	0.00	M	M	6.0	13	290	M	M	2		16	100
2	82	64	73	1	0	8	0.00	M	M	5.7	14	290	M	M	0		16	160
3	76	64	70	-2	0	5	0.00	M	M	6.2	14	310	M	M	3		17	310
4	77	63	70	-2	0	5	0.00	M	M	5.8	16	310	M	M	2	8	19	310
5	81	64	73	1	0	8	0.00	M	M	6.3	17	290	M	M	2	8	21	300
6	81	65	73	1	0	8	0.00	M	M	6.0	15	290	M	M	4		19	290
7	85	64	75	3	0	10	0.00	M	M	6.2	13	290	M	M	0		16	290
8	79	63	71	-1	0	6	0.00	M	M	5.7	13	300	M	M	3		16	170
9	83	64	74	1	0	9	0.00	M	M	6.0	14	310	M	M	3	18	18	290
10	85	62	74	1	0	9	0.00	M	M	5.8	12	280	M	M	2	128	14	300
11	82	63	73	0	0	8	0.00	M	M	5.1	12	290	M	M	3	18	15	310
12	78	63	71	-2	0	6	0.00	M	M	6.3	12	310	M	M	4		17	190
13	79	63	71	-2	0	6	0.00	M	M	6.6	16	310	M	M	3	8	20	290
14	74	64	69	-4	0	4	0.00	M	M	5.9	13	190	M	M	1		17	210
15	82	65	74	1	0	9	0.00	M	M	6.3	13	130	M	M	0		18	130
16	83	64	74	1	0	9	0.00	M	M	5.4	15	180	M	M	4	18	19	180
17	81	64	73	-1	0	8	0.00	M	M	6.3	16	200	M	M	1	18	22	180
18	88	68	78	4	0	13	0.00	M	M	5.8	10	290	M	M	0		M	M
19	90	68	79	5	0	14	0.00	M	M	5.8	13	300	M	M	0		17	300
20	86	69	78	4	0	13	0.00	M	M	5.6	15	170	M	M	0		17	210
21	81	67	74	0	0	9	0.00	M	M	5.9	14	150	M	M	0		17	150
22	80	65	73	-1	0	8	0.00	M	M	6.4	12	190	M	M	4		16	180
23	80	68	74	0	0	9	0.00	M	M	6.4	14	200	M	M	5		17	200
24	81	67	74	0	0	9	0.00	M	M	5.5	13	290	M	M	6		16	180
25	83	67	75	1	0	10	0.00	M	M	5.6	13	290	M	M	6		17	290
26	83	65	74	0	0	9	0.00	M	M	6.3	15	290	M	M	4		18	300
27	84	64	74	0	0	9	0.00	M	M	4.8	15	280	M	M	3	8	18	290
28	79	65	72	-2	0	7	0.00	M	M	4.6	12	210	M	M	1		14	180
29	79	66	73	-1	0	8	0.00	M	M	6.0	14	170	M	M	0		18	170
30	84	68	76	2	0	11	0.00	M	M	5.0	14	180	M	M	1		18	180
31	89	70	80	6	0	15	0.00	M	M	4.7	13	290	M	M	1		14	300
SM	2537	2021			0	271	0.00	M		180.0			M		68			
AV	81.8	65.2								5.8	FASTST		M	M	2	MAX(MPH)		
								MISC	----	17	290					22	180	

NOTES:  
# LAST OF SEVERAL OCCURRENCES

COLUMN 17 PEAK WIND IN M.P.H.

PRELIMINARY LOCAL CLIMATOLOGICAL DATA (WS FORM: F-6) , PAGE 2

STATION: LONG BEACH AIRPORT CA  
MONTH: JULY  
YEAR: 2022  
LATITUDE: 33 49 N  
LONGITUDE: 118 9 W

[TEMPERATURE DATA] [PRECIPITATION DATA] SYMBOLS USED IN COLUMN 16

AVERAGE MONTHLY: 73.5 TOTAL FOR MONTH: 0.00 1 = FOG OR MIST  
DPTR FM NORMAL: 0.4 DPTR FM NORMAL: -0.05 2 = FOG REDUCING VISIBILITY  
HIGHEST: 90 ON 19 GRTST 24HR 0.00 ON 1- 1 TO 1/4 MILE OR LESS  
LOWEST: 62 ON 10 3 = THUNDER  
SNOW, ICE PELLETS, HAIL 4 = ICE PELLETS  
TOTAL MONTH: M 5 = HAIL

GRTST 24HR M ON M 6 = FREEZING RAIN OR DRIZZLE  
 GRTST DEPTH: M ON M 7 = DUSTSTORM OR SANDSTORM:  
 VSBY 1/2 MILE OR LESS  
 8 = SMOKE OR HAZE  
 9 = BLOWING SNOW  
 X = TORNADO

[NO. OF DAYS WITH] [WEATHER - DAYS WITH]  
 MAX 32 OR BELOW: 0 0.01 INCH OR MORE: 0  
 MAX 90 OR ABOVE: 1 0.10 INCH OR MORE: 0  
 MIN 32 OR BELOW: 0 0.50 INCH OR MORE: 0  
 MIN 0 OR BELOW: 0 1.00 INCH OR MORE: 0

[HDD (BASE 65) ]  
 TOTAL THIS MO. 0 CLEAR (SCALE 0-3) 21  
 DPTR FM NORMAL 0 PTCLDY (SCALE 4-7) 10  
 TOTAL FM JUL 1 0 CLOUDY (SCALE 8-10) 0  
 DPTR FM NORMAL 0

[CDD (BASE 65) ]  
 TOTAL THIS MO. 271  
 DPTR FM NORMAL 18 [PRESSURE DATA]  
 TOTAL FM JAN 1 613 HIGHEST SLP 30.11 ON 9  
 DPTR FM NORMAL 137 LOWEST SLP 29.79 ON 22

[REMARKS]  
 #FINAL-07-22#

National Weather Service  
 Los Angeles, CA Weather Forecast Office  
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# National Weather Service Weather Forecast Office Los Angeles, CA

## Climatological Report (Monthly)

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 CXUS56 KLOX 011630  
 CLMLGB

CLIMATE REPORT  
 NATIONAL WEATHER SERVICE LOS ANGELES/OXNARD  
 930 AM PDT MON AUG 01 2022

.....  
 ...THE LONG BEACH AIRPORT CA CLIMATE SUMMARY FOR THE MONTH OF JULY 2022...

CLIMATE NORMAL PERIOD: 1991 TO 2020  
 CLIMATE RECORD PERIOD: 1958 TO 2022

WEATHER	OBSERVED VALUE	DATE(S)	NORMAL VALUE	DEPART FROM NORMAL	LAST YEAR'S VALUE
---------	-------------------	---------	-----------------	--------------------------	----------------------

.....  
 TEMPERATURE (F)  
 HIGHEST 90 07/19  
 LOWEST 62 07/10  
 AVG. MAXIMUM 81.8 81.4 0.4  
 AVG. MINIMUM 65.2 64.9 0.3  
 MEAN 73.5 73.1 0.4  
 DAYS MAX >= 90 1  
 DAYS MAX <= 32 0  
 DAYS MIN <= 32 0  
 DAYS MIN <= 0 0

PRECIPITATION (INCHES)  
 TOTALS 0.00 0.05 -0.05  
 DAILY AVG. 0.00  
 DAYS >= .01 0  
 DAYS >= .10 0  
 DAYS >= .50 0  
 DAYS >= 1.00 0  
 GREATEST  
 24 HR. TOTAL 0.00 06/30 TO 06/30  
 STORM TOTAL 0.00

DEGREE DAYS  
 HEATING TOTAL 0 0 0 0  
 SINCE 7/1 0 0 0 MM  
 COOLING TOTAL 271 253 18 275  
 SINCE 1/1 613 476 137 MM

.....  
 WIND (MPH)  
 AVERAGE WIND SPEED 5.8  
 HIGHEST WIND SPEED/DIRECTION 17/290 DATE 07/05  
 HIGHEST GUST SPEED/DIRECTION 22/180 DATE 07/17

SKY COVER  
 POSSIBLE SUNSHINE (PERCENT) MM  
 AVERAGE SKY COVER 0.22  
 NUMBER OF DAYS FAIR 23  
 NUMBER OF DAYS PC 8  
 NUMBER OF DAYS CLOUDY 0  
 AVERAGE RH (PERCENT) 66

WEATHER CONDITIONS. NUMBER OF DAYS WITH  
 THUNDERSTORM 0 MIXED PRECIP 0  
 HEAVY RAIN 0 RAIN 0  
 LIGHT RAIN 0 FREEZING RAIN 0  
 LT FREEZING RAIN 0 HAIL 0  
 HEAVY SNOW 0 SNOW 0  
 LIGHT SNOW 0 SLEET 0  
 FOG 5 FOG W/VIS <= 1/4 MILE 1  
 HAZE 9

- INDICATES NEGATIVE NUMBERS.  
 R INDICATES RECORD WAS SET OR TIED.  
 MM INDICATES DATA IS MISSING.  
 T INDICATES TRACE AMOUNT.



# National Weather Service Weather Forecast Office Los Angeles, CA

## WFO Monthly/Daily Climate Data

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CXUS56 KLOX 011155

CF6LGB

PRELIMINARY LOCAL CLIMATOLOGICAL DATA (WS FORM: F-6)

STATION: LONG BEACH AIRPORT CA  
MONTH: AUGUST  
YEAR: 2022  
LATITUDE: 33 49 N  
LONGITUDE: 118 9 W

TEMPERATURE IN F:		:PCPN:		SNOW:		WIND		:SUNSHINE:		SKY		:PK WND							
1	2	3	4	5	6A	6B	7	8	9	10	11	12	13	14	15	16	17	18	
DY MAX MIN		AVG DEP		HDD CDD		WTR		SNW DPTH		SPD SPD DIR		MIN PSBL		S-S WX		SPD DR			
1	89	70	80	6	0	15	0.00	M	M	6.9	15	300	M	M	0		17	300	
2	88	68	78	4	0	13	0.00	M	M	7.1	17	310	M	M	0	8	19	320	
3	84	68	76	2	0	11	0.00	M	M	5.8	12	300	M	M	0		15	130	
4	82	68	75	1	0	10	0.00	M	M	5.6	14	290	M	M	1		16	320	
5	88	68	78	4	0	13	0.00	M	M	6.1	18	280	M	M	0	8	23	280	
6	86	67	77	3	0	12	0.00	M	M	7.4	20	300	M	M	0		22	310	
7	92	65	79	5	0	14	0.00	M	M	4.7	15	290	M	M	0		17	270	
8	82	68	75	1	0	10	0.00	M	M	6.1	12	210	M	M	1	18	17	200	
9	90	72	81	7	0	16	0.00	M	M	4.5	14	290	M	M	0		17	290	
10	94	72	83	9	0	18	0.00	M	M	5.7	17	290	M	M	0		20	290	
11	92	68	80	6	0	15	0.00	M	M	5.8	17	290	M	M	0		24	330	
12	90	68	79	5	0	14	0.00	M	M	4.8	14	290	M	M	0		17	300	
13	91	68	80	6	0	15	0.00	M	M	4.3	12	170	M	M	0		15	150	
14	89	69	79	5	0	14	0.00	M	M	4.5	13	300	M	M	0	18	14	280	
15	89	68	79	5	0	14	0.00	M	M	4.6	13	310	M	M	0		15	300	
16	91	68	80	6	0	15	0.00	M	M	4.3	13	190	M	M	0		17	290	
17	89	69	79	5	0	14	0.00	M	M	5.5	15	310	M	M	0		17	320	
18	86	66	76	2	0	11	0.00	M	M	6.6	14	290	M	M	0	18	19	290	
19	84	66	75	1	0	10	0.00	M	M	5.1	12	180	M	M	1		15	170	
20	77	69	73	-1	0	8	0.00	M	M	6.8	13	160	M	M	6		17	190	
21	77	69	73	-1	0	8	0.00	M	M	6.4	10	180	M	M	6		14	210	
22	84	67	76	2	0	11	0.00	M	M	4.8	13	300	M	M	5	8	16	320	
23	83	67	75	1	0	10	0.00	M	M	4.9	13	180	M	M	4	18	17	200	
24	79	70	75	1	0	10	0.00	M	M	5.6	12	170	M	M	4		17	200	
25	86	69	78	4	0	13	0.00	M	M	4.9	13	300	M	M	0		16	200	
26	87	68	78	4	0	13	0.00	M	M	6.3	15	310	M	M	2	8	18	300	
27	83	69	76	2	0	11	0.00	M	M	5.3	13	310	M	M	3		16	310	
28	80	68	74	0	0	9	0.00	M	M	5.7	13	300	M	M	5		15	210	
29	83	67	75	1	0	10	0.00	M	M	6.6	16	300	M	M	3		19	300	
30	87	67	77	3	0	12	0.00	M	M	5.7	20	300	M	M	0		22	310	
31	95	70	83	9	0	18	0.00	M	M	6.0	22	300	M	M	0		25	300	
SM	2677	2116			0	387	0.00	M		174.4			M		41				
AV	86.4	68.3								5.6	FASTST	M	M	1		MAX(MPH)			
											MISC --->	22	300					25	300

NOTES:

# LAST OF SEVERAL OCCURRENCES

COLUMN 17 PEAK WIND IN M.P.H.

PRELIMINARY LOCAL CLIMATOLOGICAL DATA (WS FORM: F-6) , PAGE 2

STATION: LONG BEACH AIRPORT CA  
MONTH: AUGUST  
YEAR: 2022  
LATITUDE: 33 49 N  
LONGITUDE: 118 9 W

[TEMPERATURE DATA] [PRECIPITATION DATA] SYMBOLS USED IN COLUMN 16

AVERAGE MONTHLY: 77.3 TOTAL FOR MONTH: 0.00 1 = FOG OR MIST  
DPTR FM NORMAL: 3.0 DPTR FM NORMAL: -0.01 2 = FOG REDUCING VISIBILITY  
HIGHEST: 95 ON 31 GRTST 24HR T ON 5- 5 TO 1/4 MILE OR LESS  
LOWEST: 65 ON 7 3 = THUNDER  
SNOW, ICE PELLETS, HAIL 4 = ICE PELLETS  
TOTAL MONTH: M 5 = HAIL

Text Products for CF6 Issued by LGB

GRTST 24HR M ON M 6 = FREEZING RAIN OR DRIZZLE  
 GRTST DEPTH: M ON M 7 = DUSTSTORM OR SANDSTORM:  
 VSBY 1/2 MILE OR LESS  
 8 = SMOKE OR HAZE  
 9 = BLOWING SNOW  
 X = TORNADO

[NO. OF DAYS WITH] [WEATHER - DAYS WITH]  
 MAX 32 OR BELOW: 0 0.01 INCH OR MORE: 0  
 MAX 90 OR ABOVE: 8 0.10 INCH OR MORE: 0  
 MIN 32 OR BELOW: 0 0.50 INCH OR MORE: 0  
 MIN 0 OR BELOW: 0 1.00 INCH OR MORE: 0

[HDD (BASE 65) ]  
 TOTAL THIS MO. 0 CLEAR (SCALE 0-3) 25  
 DPTR FM NORMAL 0 PTCLDY (SCALE 4-7) 6  
 TOTAL FM JUL 1 0 CLOUDY (SCALE 8-10) 0  
 DPTR FM NORMAL 0

[CDD (BASE 65) ]  
 TOTAL THIS MO. 387  
 DPTR FM NORMAL 97 [PRESSURE DATA]  
 TOTAL FM JAN 1 1000 HIGHEST SLP 30.07 ON 21  
 DPTR FM NORMAL 234 LOWEST SLP 29.72 ON 31

[REMARKS]  
 #FINAL-08-22#

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# National Weather Service Weather Forecast Office Los Angeles, CA

## Climatological Report (Monthly)

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CXUS56 KLOX 011630  
CLMLGB

CLIMATE REPORT  
NATIONAL WEATHER SERVICE LOS ANGELES/OXNARD  
930 AM PDT THU SEP 01 2022

.....  
...THE LONG BEACH AIRPORT CA CLIMATE SUMMARY FOR THE MONTH OF AUGUST 2022...

CLIMATE NORMAL PERIOD: 1991 TO 2020  
CLIMATE RECORD PERIOD: 1958 TO 2022

WEATHER	OBSERVED VALUE	DATE(S)	NORMAL VALUE	DEPART FROM NORMAL	LAST YEAR'S VALUE
---------	-------------------	---------	-----------------	--------------------------	----------------------

.....  
TEMPERATURE (F)

HIGHEST	95	08/31			
LOWEST	65	08/07			
AVG. MAXIMUM	86.4		83.2	3.2	
AVG. MINIMUM	68.3		65.5	2.8	
MEAN	77.4		74.3	3.1	
DAYS MAX >= 90	8				
DAYS MAX <= 32	0				
DAYS MIN <= 32	0				
DAYS MIN <= 0	0				

PRECIPITATION (INCHES)

TOTALS	T		0.01	-0.01	
DAILY AVG.	0.00				
DAYS >= .01	0				
DAYS >= .10	0				
DAYS >= .50	0				
DAYS >= 1.00	0				
GREATEST					
24 HR. TOTAL	T	08/05 TO 08/05			
STORM TOTAL	0.00				

DEGREE DAYS

HEATING TOTAL	0		0	0	0
SINCE 7/1	0		0	0	MM
COOLING TOTAL	387		290	97	296
SINCE 1/1	1000		766	234	MM

.....  
WIND (MPH)

AVERAGE WIND SPEED	5.6				
HIGHEST WIND SPEED/DIRECTION	22/300	DATE	08/31		
HIGHEST GUST SPEED/DIRECTION	25/300	DATE	08/31		

SKY COVER

POSSIBLE SUNSHINE (PERCENT)	MM
AVERAGE SKY COVER	0.13
NUMBER OF DAYS FAIR	25
NUMBER OF DAYS PC	6
NUMBER OF DAYS CLOUDY	0

AVERAGE RH (PERCENT) 61

WEATHER CONDITIONS. NUMBER OF DAYS WITH

THUNDERSTORM	0	MIXED PRECIP	0
HEAVY RAIN	0	RAIN	0
LIGHT RAIN	0	FREEZING RAIN	0
LT FREEZING RAIN	0	HAIL	0
HEAVY SNOW	0	SNOW	0
LIGHT SNOW	0	SLEET	0
FOG	4	FOG W/VIS <= 1/4 MILE	0
HAZE	8		

- INDICATES NEGATIVE NUMBERS.  
R INDICATES RECORD WAS SET OR TIED.  
MM INDICATES DATA IS MISSING.  
T INDICATES TRACE AMOUNT.

# National Weather Service Weather Forecast Office Los Angeles, CA

## WFO Monthly/Daily Climate Data

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CXUSS6 KLOX 011155

CF6LGB

PRELIMINARY LOCAL CLIMATOLOGICAL DATA (WS FORM: F-6)

STATION: LONG BEACH AIRPORT CA  
MONTH: SEPTEMBER  
YEAR: 2022  
LATITUDE: 33 49 N  
LONGITUDE: 118 9 W

TEMPERATURE IN F:		:PCPN:		SNOW:		WIND		:SUNSHINE:		SKY		:PK WND						
1	2	3	4	5	6A	6B	7	8	9	10	11	12	13	14	15	16	17	18
12Z AVG MX 2MIN																		
DY	MAX	MIN	AVG	DEP	HDD	CDD	WTR	SNW	DPTH	SPD	SPD	DIR	MIN	PSBL	S-S	WX	SPD	DR
1	86	70	78	4	0	13	0.00	M	M	5.0	12	150	M	M	0	8	14	140
2	93	73	83	9	0	18	0.00	M	M	4.6	14	260	M	M	0	8	17	190
3	100	75	88	14	0	23	0.00	M	M	4.9	17	310	M	M	0	0	21	320
4	109	75	92	18	0	27	0.00	M	M	6.1	20	180	M	M	0	0	26	190
5	97	75	86	12	0	21	0.00	M	M	5.2	12	190	M	M	0	0	15	190
6	97	75	86	12	0	21	0.00	M	M	5.2	12	310	M	M	0	0	14	180
7	99	75	87	13	0	22	0.00	M	M	4.9	14	310	M	M	0	0	17	290
8	102	74	88	14	0	23	0.00	M	M	6.6	21	290	M	M	0	8	25	300
9	101	72	87	13	0	22	0.20	M	M	6.4	30	110	M	M	3	178	39	110
10	81	73	77	3	0	12	T	M	M	4.6	12	190	M	M	6	0	16	150
11	90	76	83	9	0	18	T	M	M	5.8	16	290	M	M	5	0	24	290
12	89	74	82	8	0	17	0.00	M	M	6.8	18	300	M	M	1	0	22	310
13	83	72	78	4	0	13	0.00	M	M	5.0	13	150	M	M	0	0	17	200
14	79	69	74	0	0	9	0.00	M	M	6.3	13	300	M	M	1	0	16	170
15	79	67	73	0	0	8	0.00	M	M	5.0	15	310	M	M	2	0	17	290
16	80	65	73	0	0	8	0.00	M	M	5.9	15	290	M	M	1	8	17	290
17	77	66	72	-1	0	7	0.00	M	M	5.0	13	210	M	M	4	0	16	170
18	76	68	72	-1	0	7	0.00	M	M	7.2	14	210	M	M	4	0	18	220
19	81	63	72	-1	0	7	0.00	M	M	5.3	16	290	M	M	1	8	21	290
20	83	67	75	2	0	10	0.00	M	M	6.9	18	280	M	M	1	0	22	290
21	82	64	73	0	0	8	0.00	M	M	8.0	20	290	M	M	0	0	23	290
22	87	63	75	3	0	10	0.00	M	M	4.0	16	300	M	M	0	0	19	280
23	90	63	77	5	0	12	0.00	M	M	4.4	14	290	M	M	0	8	16	300
24	91	70	81	9	0	16	0.00	M	M	6.3	17	290	M	M	0	0	21	290
25	91	69	80	8	0	15	0.00	M	M	6.2	20	290	M	M	0	0	23	290
26	91	69	80	8	0	15	0.00	M	M	4.1	16	320	M	M	0	0	19	280
27	92	69	81	9	0	16	0.00	M	M	3.9	14	310	M	M	0	0	17	300
28	88	68	78	7	0	13	0.00	M	M	4.8	13	160	M	M	3	128	16	160
29	82	69	76	5	0	11	0.00	M	M	4.9	13	180	M	M	4	18	16	300
30	75	69	72	1	0	7	0.00	M	M	4.3	12	190	M	M	5	0	16	170

SM 2651 2097 0 429 0.20 M 163.6 M 41  
 AV 88.4 69.9 5.5 FASTST M M 1 MAX(MPH)  
 MISC ----> 30 110 39 110

NOTES:  
# LAST OF SEVERAL OCCURRENCES

COLUMN 17 PEAK WIND IN M.P.H.

PRELIMINARY LOCAL CLIMATOLOGICAL DATA (WS FORM: F-6) , PAGE 2

STATION: LONG BEACH AIRPORT CA  
MONTH: SEPTEMBER  
YEAR: 2022  
LATITUDE: 33 49 N  
LONGITUDE: 118 9 W

[TEMPERATURE DATA] [PRECIPITATION DATA] SYMBOLS USED IN COLUMN 16

AVERAGE MONTHLY: 79.1 TOTAL FOR MONTH: 0.20 1 = FOG OR MIST  
 DPTR FM NORMAL: 6.0 DPTR FM NORMAL: 0.12 2 = FOG REDUCING VISIBILITY  
 HIGHEST: 109 ON 4 GRTST 24HR 0.20 ON 9- 9 TO 1/4 MILE OR LESS  
 LOWEST: 63 ON 23,22 3 = THUNDER  
 SNOW, ICE PELLETS, HAIL 4 = ICE PELLETS  
 TOTAL MONTH: M 5 = HAIL  
 GRTST 24HR M ON M 6 = FREEZING RAIN OR DRIZZLE

GRTST DEPTH: M ON M 7 = DUSTSTORM OR SANDSTORM:  
 VSBY 1/2 MILE OR LESS  
 8 = SMOKE OR HAZE  
 9 = BLOWING SNOW  
 X = TORNADO

[NO. OF DAYS WITH] [WEATHER - DAYS WITH]  
 MAX 32 OR BELOW: 0 0.01 INCH OR MORE: 1  
 MAX 90 OR ABOVE: 14 0.10 INCH OR MORE: 1  
 MIN 32 OR BELOW: 0 0.50 INCH OR MORE: 0  
 MIN 0 OR BELOW: 0 1.00 INCH OR MORE: 0

[HDD (BASE 65) ]  
 TOTAL THIS MO. 0 CLEAR (SCALE 0-3) 24  
 DPTR FM NORMAL -1 PTCLDY (SCALE 4-7) 6  
 TOTAL FM JUL 1 0 CLOUDY (SCALE 8-10) 0  
 DPTR FM NORMAL 0

[CDD (BASE 65) ]  
 TOTAL THIS MO. 429  
 DPTR FM NORMAL 184 [PRESSURE DATA]  
 TOTAL FM JAN 1 1429 HIGHEST SLP 30.01 ON 25  
 DPTR FM NORMAL 418 LOWEST SLP 29.51 ON 9

[REMARKS]  
 #FINAL-09-22#

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# National Weather Service Weather Forecast Office Los Angeles, CA

## WFO Monthly/Daily Climate Data

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CXUS56 KLOX 011155

CF6LGB

PRELIMINARY LOCAL CLIMATOLOGICAL DATA (WS FORM: F-6)

STATION: LONG BEACH AIRPORT CA  
MONTH: OCTOBER  
YEAR: 2022  
LATITUDE: 33 49 N  
LONGITUDE: 118 9 W

TEMPERATURE IN F:		:PCPN:	SNOW:	WIND	:SUNSHINE:	SKY	:PK WND											
1	2	3	4	5	6A	6B	7	8	9	10	11	12	13	14	15	16	17	18
12Z AVG MX 2MIN																		
DY	MAX	MIN	AVG	DEP	HDD	CDD	WTR	SNW	DPTH	SPD	SPD	DIR	MIN	PSBL	S-S	WX	SPD	DR
1	75	67	71	0	0	0	0.00	M	M	5.7	13	200	M	M	7		16	180
2	80	68	74	3	0	9	0.00	M	M	5.7	15	290	M	M	5	8	18	310
3	80	65	73	2	0	8	0.00	M	M	3.9	14	310	M	M	0	8	16	300
4	81	65	73	3	0	8	0.00	M	M	4.0	12	170	M	M	0		15	220
5	79	69	74	4	0	9	0.00	M	M	4.3	12	190	M	M	6	8	16	210
6	77	69	73	3	0	8	0.00	M	M	3.6	12	200	M	M	8	8	15	180
7	80	68	74	4	0	9	0.00	M	M	4.6	13	300	M	M	4	8	16	200
8	83	67	75	5	0	10	0.00	M	M	4.3	12	290	M	M	3	8	15	300
9	80	66	73	3	0	8	0.00	M	M	5.2	14	260	M	M	5	8	17	260
10	77	66	72	3	0	7	0.00	M	M	3.7	12	290	M	M	6		15	210
11	75	68	72	3	0	7	0.01	M	M	3.9	21	280	M	M	7	3	25	270
12	77	68	73	4	0	8	0.10	M	M	5.5	20	330	M	M	5	138	22	320
13	72	67	70	1	0	5	0.00	M	M	3.9	10	190	M	M	9	8	14	200
14	72	66	69	0	0	4	0.00	M	M	3.5	9	210	M	M	10	18	12	170
15	73	65	69	0	0	4	0.07	M	M	4.0	13	240	M	M	9	138	16	250
16	75	62	69	1	0	4	0.00	M	M	4.1	13	290	M	M	4	18	15	290
17	81	60	71	3	0	6	0.00	M	M	3.8	14	300	M	M	0		19	290
18	94	63	79	11	0	14	0.00	M	M	4.3	16	300	M	M	0	8	19	310
19	95	65	80	12	0	15	0.00	M	M	3.7	14	210	M	M	0	8	18	200
20	92	68	80	12	0	15	0.00	M	M	4.5	18	290	M	M	0		22	300
21	76	66	71	3	0	6	0.00	M	M	5.5	10	170	M	M	6	1	14	210
22	72	64	68	1	0	3	T	M	M	6.0	15	220	M	M	9	8	19	200
23	72	60	66	-1	0	1	T	M	M	4.5	15	300	M	M	2	8	19	310
24	80	56	68	1	0	3	0.00	M	M	5.9	16	290	M	M	0	8	19	320
25	77	55	66	-1	0	1	0.00	M	M	2.6	13	200	M	M	0	8	15	200
26	73	57	65	-2	0	0	0.00	M	M	2.9	13	180	M	M	1		15	180
27	74	59	67	0	0	2	0.00	M	M	3.2	13	300	M	M	3		16	190
28	77	57	67	1	0	2	0.00	M	M	3.6	15	300	M	M	0	8	19	280
29	80	56	68	2	0	3	0.00	M	M	3.2	15	300	M	M	0	8	17	300
30	78	56	67	1	0	2	0.00	M	M	3.0	13	310	M	M	0	8	14	320
31	77	57	67	1	0	2	0.00	M	M	2.9	9	210	M	M	1	18	12	220
SM	2434	1965				0	189	0.18	M	129.5			M		110			
AV	78.5	63.4								4.2	FASTST	M	M	4	MAX(MPH)			
										MISC	---->	21	280			25	270	

NOTES:  
# LAST OF SEVERAL OCCURRENCES

COLUMN 17 PEAK WIND IN M.P.H.

PRELIMINARY LOCAL CLIMATOLOGICAL DATA (WS FORM: F-6) , PAGE 2

STATION: LONG BEACH AIRPORT CA  
MONTH: OCTOBER  
YEAR: 2022  
LATITUDE: 33 49 N  
LONGITUDE: 118 9 W

[TEMPERATURE DATA] [PRECIPITATION DATA] SYMBOLS USED IN COLUMN 16

AVERAGE MONTHLY: 71.0 TOTAL FOR MONTH: 0.18 1 = FOG OR MIST  
DPTR FM NORMAL: 2.6 DPTR FM NORMAL: -0.35 2 = FOG REDUCING VISIBILITY  
HIGHEST: 95 ON 19 GRTST 24HR 0.11 ON 11-12 TO 1/4 MILE OR LESS  
LOWEST: 55 ON 25 3 = THUNDER  
SNOW, ICE PELLETS, HAIL 4 = ICE PELLETS  
TOTAL MONTH: M 5 = HAIL

Text Products for CF6 Issued by LGB

GRTST 24HR M ON M 6 = FREEZING RAIN OR DRIZZLE  
 GRTST DEPTH: M ON M 7 = DUSTSTORM OR SANDSTORM:  
 VSBY 1/2 MILE OR LESS  
 8 = SMOKE OR HAZE  
 9 = BLOWING SNOW  
 X = TORNADO

[NO. OF DAYS WITH] [WEATHER - DAYS WITH]  
 MAX 32 OR BELOW: 0 0.01 INCH OR MORE: 3  
 MAX 90 OR ABOVE: 3 0.10 INCH OR MORE: 1  
 MIN 32 OR BELOW: 0 0.50 INCH OR MORE: 0  
 MIN 0 OR BELOW: 0 1.00 INCH OR MORE: 0

[HDD (BASE 65) ]  
 TOTAL THIS MO. 0 CLEAR (SCALE 0-3) 14  
 DPTR FM NORMAL -19 PTCLDY (SCALE 4-7) 13  
 TOTAL FM JUL 1 0 CLOUDY (SCALE 8-10) 4  
 DPTR FM NORMAL -17

[CDD (BASE 65) ]  
 TOTAL THIS MO. 189  
 DPTR FM NORMAL 65 [PRESSURE DATA]  
 TOTAL FM JAN 1 1618 HIGHEST SLP 30.17 ON 28  
 DPTR FM NORMAL 483 LOWEST SLP 29.74 ON 22

[REMARKS]  
 #FINAL-10-22#

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# National Weather Service Weather Forecast Office Los Angeles, CA

## Climatological Report (Monthly)

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CXUSS6 KLOX 011630  
CLMLGB

CLIMATE REPORT  
NATIONAL WEATHER SERVICE LOS ANGELES/OXNARD  
930 AM PDT TUE NOV 01 2022

.....  
...THE LONG BEACH AIRPORT CA CLIMATE SUMMARY FOR THE MONTH OF OCTOBER 2022...

CLIMATE NORMAL PERIOD: 1991 TO 2020  
CLIMATE RECORD PERIOD: 1958 TO 2022

WEATHER	OBSERVED VALUE	DATE(S)	NORMAL VALUE	DEPART FROM NORMAL	LAST YEAR'S VALUE
---------	-------------------	---------	-----------------	--------------------------	----------------------

.....  
TEMPERATURE (F)

HIGHEST	95	10/19			
LOWEST	55	10/25			
AVG. MAXIMUM	78.5		77.7	0.8	
AVG. MINIMUM	63.4		59.1	4.3	
MEAN	71.0		68.4	2.6	
DAYS MAX >= 90	3				
DAYS MAX <= 32	0				
DAYS MIN <= 32	0				
DAYS MIN <= 0	0				

PRECIPITATION (INCHES)

TOTALS	0.18		0.53	-0.35	
DAILY AVG.	0.01				
DAYS >= .01	3				
DAYS >= .10	1				
DAYS >= .50	0				
DAYS >= 1.00	0				
GREATEST					
24 HR. TOTAL	0.11	10/11 TO 10/12			
STORM TOTAL	0.10				

DEGREE DAYS

HEATING TOTAL	0		19	-19	35
SINCE 7/1	0		17	-17	MM
COOLING TOTAL	189		124	65	92
SINCE 1/1	1618		1135	483	MM

.....  
WIND (MPH)

AVERAGE WIND SPEED	4.2				
HIGHEST WIND SPEED/DIRECTION	21/280	DATE	10/11		
HIGHEST GUST SPEED/DIRECTION	25/270	DATE	10/11		

SKY COVER

POSSIBLE SUNSHINE (PERCENT)	MM				
AVERAGE SKY COVER	0.35				
NUMBER OF DAYS FAIR	16				
NUMBER OF DAYS PC	10				
NUMBER OF DAYS CLOUDY	5				

AVERAGE RH (PERCENT) 65

WEATHER CONDITIONS. NUMBER OF DAYS WITH

THUNDERSTORM	3	MIXED PRECIP	0
HEAVY RAIN	0	RAIN	0
LIGHT RAIN	5	FREEZING RAIN	0
LT FREEZING RAIN	0	HAIL	0
HEAVY SNOW	0	SNOW	0
LIGHT SNOW	0	SLEET	0
FOG	6	FOG W/VIS <= 1/4 MILE	0
HAZE	22		

- INDICATES NEGATIVE NUMBERS.

R INDICATES RECORD WAS SET OR TIED.

MM INDICATES DATA IS MISSING.

T INDICATES TRACE AMOUNT.



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# National Weather Service Weather Forecast Office Los Angeles, CA

## WFO Monthly/Daily Climate Data

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CXUS56 KLOX 011255

CF6LGB

PRELIMINARY LOCAL CLIMATOLOGICAL DATA (WS FORM: F-6)

STATION: LONG BEACH AIRPORT CA  
MONTH: NOVEMBER  
YEAR: 2022  
LATITUDE: 33 49 N  
LONGITUDE: 118 9 W

TEMPERATURE IN F:		:PCPN:		SNOW:		WIND		:SUNSHINE:		SKY		:PK WND						
1	2	3	4	5	6A	6B	7	8	9	10	11	12	13	14	15	16	17	18
12Z AVG MX 2MIN																		
DY	MAX	MIN	AVG	DEP	HDD	CDD	WTR	SNW	DPTH	SPD	SPD	DIR	MIN	PSBL	S-S	WX	SPD	DR
1	71	63	67	1	0	2	T	M	M	4.9	15	150	M	M	7	8	20	130
2	71	60	66	1	0	1	0.02	M	M	11.0	24	290	M	M	4	18	33	300
3	67	52	60	-5	5	0	0.00	M	M	12.6	24	280	M	M	0		30	280
4	70	48	59	-6	6	0	0.00	M	M	3.3	15	290	M	M	0		17	290
5	71	50	61	-4	4	0	0.00	M	M	2.2	12	210	M	M	0		15	180
6	70	53	62	-2	3	0	0.00	M	M	2.5	12	200	M	M	0	18	14	210
7	67	56	62	-2	3	0	0.03	M	M	6.5	13	190	M	M	8	18	18	180
8	69	54	62	-2	3	0	0.86	M	M	8.7	25	290	M	M	9	1	33	280
9	65	52	59	-5	6	0	0.05	M	M	4.8	17	290	M	M	3	1	22	310
10	69	47	58	-6	7	0	0.00	M	M	3.6	12	290	M	M	0		13	290
11	74	48	61	-2	4	0	0.00	M	M	5.1	14	80	M	M	0		17	70
12	68	47	58	-5	7	0	0.00	M	M	2.6	10	200	M	M	0		14	180
13	70	50	60	-3	5	0	0.00	M	M	4.3	14	290	M	M	1		17	260
14	71	48	60	-2	5	0	0.00	M	M	3.4	12	300	M	M	0	8	12	300
15	74	48	61	-1	4	0	0.00	M	M	2.6	14	290	M	M	0	8	16	290
16	79	48	64	2	1	0	0.00	M	M	4.1	21	120	M	M	0		25	130
17	78	48	63	1	2	0	0.00	M	M	5.7	18	290	M	M	0		21	280
18	68	48	58	-3	7	0	0.00	M	M	2.3	8	200	M	M	0	18	14	150
19	77	48	63	2	2	0	0.00	M	M	6.2	18	80	M	M	0	18	23	80
20	81	49	65	4	0	0	0.00	M	M	5.3	14	290	M	M	0		15	300
21	80	52	66	5	0	1	0.00	M	M	2.9	10	290	M	M	0		12	280
22	75	48	62	2	3	0	0.00	M	M	2.1	10	300	M	M	0		12	190
23	70	45	58	-2	7	0	0.00	M	M	1.7	9	200	M	M	0	18	11	180
24	82	46	64	4	1	0	0.00	M	M	4.0	20	110	M	M	0	18	25	120
25	79	50	65	5	0	0	0.00	M	M	4.6	16	290	M	M	0		19	290
26	69	47	58	-1	7	0	0.00	M	M	1.5	9	190	M	M	0	18	12	190
27	71	47	59	0	6	0	0.00	M	M	2.2	12	300	M	M	1	128	13	300
28	65	56	61	2	4	0	0.00	M	M	3.9	12	210	M	M	7	18	16	210
29	66	50	58	-1	7	0	0.00	M	M	2.6	10	150	M	M	3	8	14	190
30	65	51	58	0	7	0	0.00	M	M	4.2	13	200	M	M	6	18	18	160
SM	2152	1509			116	4	0.96	M		131.4			M		49			
AV	71.7	50.3								4.4	FASTST	M	M	2	MAX(MPH)			
								MISC	---->	25	290				#	33	300	

NOTES:

# LAST OF SEVERAL OCCURRENCES

COLUMN 17 PEAK WIND IN M.P.H.

PRELIMINARY LOCAL CLIMATOLOGICAL DATA (WS FORM: F-6) , PAGE 2

STATION: LONG BEACH AIRPORT CA  
MONTH: NOVEMBER  
YEAR: 2022  
LATITUDE: 33 49 N  
LONGITUDE: 118 9 W

[TEMPERATURE DATA]	[PRECIPITATION DATA]	SYMBOLS USED IN COLUMN 16
AVERAGE MONTHLY: 61.0	TOTAL FOR MONTH: 0.96	1 = FOG OR MIST
DPTR FM NORMAL: -1.0	DPTR FM NORMAL: 0.21	2 = FOG REDUCING VISIBILITY
HIGHEST: 82 ON 24	GRTST 24HR 0.90 ON 8- 9	TO 1/4 MILE OR LESS
LOWEST: 45 ON 23		3 = THUNDER
	SNOW, ICE PELLETS, HAIL	4 = ICE PELLETS
	TOTAL MONTH: M	5 = HAIL
	GRTST 24HR M ON M	6 = FREEZING RAIN OR DRIZZLE

GRTST DEPTH: M ON M 7 = DUSTSTORM OR SANDSTORM:  
 VSBY 1/2 MILE OR LESS  
 8 = SMOKE OR HAZE  
 9 = BLOWING SNOW  
 X = TORNADO

[NO. OF DAYS WITH] [WEATHER - DAYS WITH]  
 MAX 32 OR BELOW: 0 0.01 INCH OR MORE: 4  
 MAX 90 OR ABOVE: 0 0.10 INCH OR MORE: 1  
 MIN 32 OR BELOW: 0 0.50 INCH OR MORE: 1  
 MIN 0 OR BELOW: 0 1.00 INCH OR MORE: 0

[HDD (BASE 65) ]  
 TOTAL THIS MO. 116 CLEAR (SCALE 0-3) 24  
 DPTR FM NORMAL -2 PTCLDY (SCALE 4-7) 4  
 TOTAL FM JUL 1 116 CLOUDY (SCALE 8-10) 2  
 DPTR FM NORMAL -23

[CDD (BASE 65) ]  
 TOTAL THIS MO. 4  
 DPTR FM NORMAL -25 [PRESSURE DATA]  
 TOTAL FM JAN 1 1622 HIGHEST SLP 30.29 ON 25  
 DPTR FM NORMAL 458 LOWEST SLP 29.76 ON 8

[REMARKS]  
 #FINAL-11-22#

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# National Weather Service Weather Forecast Office Los Angeles, CA

## Climatological Report (Monthly)

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CXUS56 KLOX 011730  
CLMLGB

CLIMATE REPORT  
NATIONAL WEATHER SERVICE LOS ANGELES/OXNARD  
930 AM PST THU DEC 01 2022

...THE LONG BEACH AIRPORT CA CLIMATE SUMMARY FOR THE MONTH OF NOVEMBER 2022...

CLIMATE NORMAL PERIOD: 1991 TO 2020  
CLIMATE RECORD PERIOD: 1958 TO 2022

WEATHER	OBSERVED VALUE	DATE(S)	NORMAL VALUE	DEPART FROM NORMAL	LAST YEAR'S VALUE
---------	----------------	---------	--------------	--------------------	-------------------

.....  
TEMPERATURE (F)

HIGHEST	82	11/24			
LOWEST	45	11/23			
AVG. MAXIMUM	71.7		72.5	-0.8	
AVG. MINIMUM	50.3		51.6	-1.3	
MEAN	61.0		62.0	-1.0	
DAYS MAX >= 90	0				
DAYS MAX <= 32	0				
DAYS MIN <= 32	0				
DAYS MIN <= 0	0				

PRECIPITATION (INCHES)

TOTALS	0.96		0.75	0.21	
DAILY AVG.	0.03				
DAYS >= .01	4				
DAYS >= .10	1				
DAYS >= .50	1				
DAYS >= 1.00	0				
GREATEST					
24 HR. TOTAL	0.90	11/08 TO 11/09			
STORM TOTAL	0.86				

DEGREE DAYS

HEATING TOTAL	116		118	-2	65
SINCE 7/1	116		139	-23	MM
COOLING TOTAL	4		29	-25	50
SINCE 1/1	1622		1164	458	MM

.....  
WIND (MPH)

AVERAGE WIND SPEED	4.4				
HIGHEST WIND SPEED/DIRECTION	25/290	DATE	11/08		
HIGHEST GUST SPEED/DIRECTION	33/300	DATE	11/02		
	33/280		11/08		

SKY COVER

POSSIBLE SUNSHINE (PERCENT)	MM				
AVERAGE SKY COVER	0.17				
NUMBER OF DAYS FAIR	24				
NUMBER OF DAYS PC	4				
NUMBER OF DAYS CLOUDY	2				

AVERAGE RH (PERCENT) 54

WEATHER CONDITIONS. NUMBER OF DAYS WITH

THUNDERSTORM	0	MIXED PRECIP	0
HEAVY RAIN	1	RAIN	2
LIGHT RAIN	3	FREEZING RAIN	0
LT FREEZING RAIN	0	HAIL	0
HEAVY SNOW	0	SNOW	0
LIGHT SNOW	0	SLEET	0
FOG	13	FOG W/VIS <= 1/4 MILE	1
HAZE	15		

- INDICATES NEGATIVE NUMBERS.  
R INDICATES RECORD WAS SET OR TIED.  
MM INDICATES DATA IS MISSING.

T INDICATES TRACE AMOUNT.

\$\$

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000

CXUSS6 KLOX 011255

CF6LGB

PRELIMINARY LOCAL CLIMATOLOGICAL DATA (WS FORM: F-6)

STATION: LONG BEACH AIRPORT CA  
MONTH: DECEMBER  
YEAR: 2022  
LATITUDE: 33 49 N  
LONGITUDE: 118 9 W

TEMPERATURE IN F:		:PCPN:		SNOW:		WIND		:SUNSHINE:		SKY		:PK WND							
1	2	3	4	5	6A	6B	7	8	9	10	11	12	13	14	15	16	17	18	
=====																			
DY MAX MIN AVG DEP HDD CDD WTR SNW DPTH SPD SPD DIR MIN PSBL S-S WX SPD DR																			
=====																			
1	64	57	61	3	4	0	0.00	M	M	5.3	13	220	M	M	7		17	190	
2	64	54	59	1	6	0	0.05	M	M	5.4	10	80	M	M	9	18	16	60	
3	72	54	63	5	2	0	0.00	M	M	3.8	13	300	M	M	1	18	16	290	
4	67	55	61	3	4	0	0.05	M	M	1.4	8	340	M	M	9	128	13	330	
5	65	53	59	2	6	0	0.00	M	M	2.6	14	310	M	M	3	1	17	290	
6	63	51	57	0	8	0	0.00	M	M	2.5	9	300	M	M	2		12	150	
7	64	47	56	-1	9	0	0.00	M	M	2.3	13	200	M	M	1	18	16	200	
8	66	45	56	-1	9	0	0.00	M	M	3.5	16	300	M	M	0	8	19	280	
9	63	44	54	-3	11	0	0.00	M	M	2.1	12	200	M	M	0	8	14	210	
10	64	48	56	-1	9	0	0.00	M	M	3.4	10	90	M	M	5		14	200	
11	61	50	56	-1	9	0	0.91	M	M	10.6	23	290	M	M	6	18	34	150	
12	57	48	53	-3	12	0	0.45	M	M	2.4	15	310	M	M	6	13	18	300	
13	62	45	54	-2	11	0	0.00	M	M	2.3	10	220	M	M	4		15	200	
14	65	43	54	-2	11	0	0.00	M	M	3.0	14	290	M	M	0	8	16	290	
15	65	45	55	-1	10	0	0.00	M	M	3.0	10	300	M	M	0	8	11	300	
16	73	49	61	5	4	0	0.00	M	M	3.8	12	30	M	M	0		16	30	
17	68	46	57	1	8	0	0.00	M	M	4.0	8	340	M	M	0		12	340	
18	65	43	54	-2	11	0	0.00	M	M	2.1	10	200	M	M	0	8	14	200	
19	68	42	55	-1	10	0	0.00	M	M	2.4	12	300	M	M	0	8	14	290	
20	70	46	58	2	7	0	0.00	M	M	2.8	13	300	M	M	0	8	14	280	
21	75	44	60	4	5	0	0.00	M	M	2.8	10	300	M	M	0	8	12	310	
22	70	46	58	2	7	0	0.00	M	M	1.3	7	300	M	M	0	8	8	300	
23	69	47	58	2	7	0	0.00	M	M	1.3	8	300	M	M	2	128	10	210	
24	78	46	62	6	3	0	0.00	M	M	2.5	9	300	M	M	0	128	10	300	
25	82	51	67	11	0	2	0.00	M	M	3.1	9	290	M	M	0	8	11	320	
26	81	50	66	10	0	1	0.00	M	M	1.2	7	300	M	M	0		9	270	
27	64	53	59	3	6	0	0.51	M	M	2.7	8	360	M	M	5	18	11	140	
28	64	55	60	4	5	0	0.03	M	M	3.4	10	180	M	M	5	18	14	150	
29	61	56	59	3	6	0	T	M	M	3.7	10	120	M	M	10		15	120	
30	60	57	59	3	6	0	0.04	M	M	3.0	7	180	M	M	10	18	9	210	
31	62	58	60	3	5	0	1.15	M	M	7.6	18	170	M	M	10	1	28	160	
=====																			
SM	2072	1528		211	3	3.19	M		101.3				M		95				
=====																			
AV	66.8	49.3							3.3	FASTST	M	M	3		MAX(MPH)				
									MISC	---->	23	290			34	150			
=====																			

NOTES:

# LAST OF SEVERAL OCCURRENCES

COLUMN 17 PEAK WIND IN M.P.H.

PRELIMINARY LOCAL CLIMATOLOGICAL DATA (WS FORM: F-6) , PAGE 2

STATION: LONG BEACH AIRPORT CA  
MONTH: DECEMBER  
YEAR: 2022  
LATITUDE: 33 49 N  
LONGITUDE: 118 9 W

[TEMPERATURE DATA] [PRECIPITATION DATA] SYMBOLS USED IN COLUMN 16

AVERAGE MONTHLY: 58.1 TOTAL FOR MONTH: 3.19 1 = FOG OR MIST  
DPTR FM NORMAL: 1.4 DPTR FM NORMAL: 1.04 2 = FOG REDUCING VISIBILITY  
HIGHEST: 82 ON 25 GRST 24HR 1.15 ON 31-31 TO 1/4 MILE OR LESS  
LOWEST: 42 ON 19 3 = THUNDER  
SNOW, ICE PELLETS, HAIL 4 = ICE PELLETS  
TOTAL MONTH: M 5 = HAIL

Text Products for CF6 Issued by LGB

GRTST 24HR	M	ON	M	6 = FREEZING RAIN OR DRIZZLE
GRTST DEPTH:	M	ON	M	7 = DUSTSTORM OR SANDSTORM: VSBY 1/2 MILE OR LESS
				8 = SMOKE OR HAZE
				9 = BLOWING SNOW
				X = TORNADO

[NO. OF DAYS WITH]		[WEATHER - DAYS WITH]	
MAX 32 OR BELOW:	0	0.01 INCH OR MORE:	8
MAX 90 OR ABOVE:	0	0.10 INCH OR MORE:	4
MIN 32 OR BELOW:	0	0.50 INCH OR MORE:	3
MIN 0 OR BELOW:	0	1.00 INCH OR MORE:	1

[HDD (BASE 65) ]

TOTAL THIS MO.	211	CLEAR (SCALE 0-3)	19
DPTR FM NORMAL	-50	PTCLDY (SCALE 4-7)	7
TOTAL FM JUL 1	327	CLOUDY (SCALE 8-10)	5
DPTR FM NORMAL	-75		

[CDD (BASE 65) ]

TOTAL THIS MO.	3		
DPTR FM NORMAL	1	[PRESSURE DATA]	
TOTAL FM JAN 1	1625	HIGHEST SLP 30.32 ON	8
DPTR FM NORMAL	459	LOWEST SLP 29.73 ON	31

[REMARKS]  
#FINAL-12-22#

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# National Weather Service Weather Forecast Office Los Angeles, CA

## Climatological Report (Monthly)

Issued by NWS

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 CLMLGB

CLIMATE REPORT  
 NATIONAL WEATHER SERVICE LOS ANGELES/OXNARD  
 930 AM PST SUN JAN 01 2023

...THE LONG BEACH AIRPORT CA CLIMATE SUMMARY FOR THE MONTH OF DECEMBER 2022...

CLIMATE NORMAL PERIOD: 1991 TO 2020  
 CLIMATE RECORD PERIOD: 1958 TO 2022

WEATHER	OBSERVED VALUE	DATE(S)	NORMAL VALUE	DEPART FROM NORMAL	LAST YEAR'S VALUE
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TEMPERATURE (F)

HIGHEST	82	12/25			
LOWEST	42	12/19			
AVG. MAXIMUM	66.8		66.7	0.1	
AVG. MINIMUM	49.3		46.6	2.7	
MEAN	58.1		56.7	1.4	
DAYS MAX >= 90	0				
DAYS MAX <= 32	0				
DAYS MIN <= 32	0				
DAYS MIN <= 0	0				

PRECIPITATION (INCHES)

TOTALS	3.19		2.15	1.04	
DAILY AVG.	0.10				
DAYS >= .01	8				
DAYS >= .10	4				
DAYS >= .50	3				
DAYS >= 1.00	1				
GREATEST					
24 HR. TOTAL	1.15	12/31 TO 12/31			
STORM TOTAL	1.15				

DEGREE DAYS

HEATING TOTAL	211		261	-50	323
SINCE 7/1	327		402	-75	MM
COOLING TOTAL	3		2	1	0
SINCE 1/1	1625		1166	459	MM

WIND (MPH)

AVERAGE WIND SPEED	3.3				
HIGHEST WIND SPEED/DIRECTION	23/290	DATE	12/11		
HIGHEST GUST SPEED/DIRECTION	34/150	DATE	12/11		

SKY COVER

POSSIBLE SUNSHINE (PERCENT)	MM
AVERAGE SKY COVER	0.30
NUMBER OF DAYS FAIR	19
NUMBER OF DAYS PC	7
NUMBER OF DAYS CLOUDY	5

AVERAGE RH (PERCENT) 63

WEATHER CONDITIONS. NUMBER OF DAYS WITH

THUNDERSTORM	1	MIXED PRECIP	0
HEAVY RAIN	3	RAIN	6
LIGHT RAIN	9	FREEZING RAIN	0
LT FREEZING RAIN	0	HAIL	0
HEAVY SNOW	0	SNOW	0
LIGHT SNOW	0	SLEET	0
FOG	13	FOG W/VIS <= 1/4 MILE	3
HAZE	20		

- INDICATES NEGATIVE NUMBERS.  
 R INDICATES RECORD WAS SET OR TIED.  
 MM INDICATES DATA IS MISSING.  
 T INDICATES TRACE AMOUNT.



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