AUGUST 1977
WILMINGTON, DELAWARE
NATIONAL WEATHER SERVICE OFC
GREATER WILMINGTON AIRPORT

Local Climatological Data

MONTHLY SUMMARY

LATITUDE 39° 40 'N LONGITUDE 75° 36 'W ELEVATION (GROUND) 74FT. STANDARD TIME USED: EASTERN WBAN #13781

AUGUST 1977 WILMINGTON, DELAWARE

DATE	TEMPERATURE °F MAXIMUM	MINIMUM	AVERAGE	DEPARTURE FROM NORMAL	AVERAGE DEW POINT	DEGREE DAYS BASE 65° HEATING (SEASON BEGINS WITH JULY)	COOLING (SEASON BEGINS WITH JAN.)	WEATHER TYPES ON DATES OF OCCURRENCE 1 FOG 2 HEAVY FOG 3 THUNDERSTORM 4 ICE PELLETS 5 HAIL 6 GLAZE 7 DUSTSTORM 8 SMOKE, HAZE 9 BLOWING SNOW	SNOW, ICE PELLETS OR ICE ON GROUND AT 07AM IN.	PRECIPITATION WATER EQUIVALENT IN	SNOW, ICE PELLETS IN.	AVG. STATION PRESSURE IN. ELEV. 80 FEET M.S.L.	WIND RESULTANT DIR.	RESULTANT SPEED M.P.H.	AVERAGE SPEED M.P.H.	FASTEST MILE SPEED M.P.H.	FASTEST MILE DIRECTION	SUNSHINE MINUTES	PERCENT OF POSSIBLE	SKY COVER TENTHS SUNRISE TO SUNSET	MIDNIGHT TO MIDNIGHT	DATE
1	89	68	79	3	67	0	14	1 3 8	0	.14	0	29.83	20	8.5	9.1	16	23			10	9	1
2	85	66	76	0	59	0	11	1 8	0	0	0	29.94	30	5.8	6.8	12	34			8	8	2
3	82	70	76	0	67	0	11	3 8	0	.37	0	29.97	20	3.0	6.9	18	16			10	10	3
4	88	71	80	4	68	0	15	2 8	0	.01	0	30.04	22	2.9	4.5	14	29			3	3	4
5	93	72	83	8	69	0	18	1 3 8	0	T	0	30.04	24	5.3	6.0	15	27			5	4	5
6	94*	73	84*	9	70	0	19	8	0	T	0	29.96	24	4.6	5.2	15	23			6	5	6
7	93	73	83	8	68	0	18	1 8	0	0	0	29.89	26	7.5	7.9	20	26			6	5	7
8	92	73	83	8	67	0	18	3	0	.11	0	29.85	26	7.5	8.2	16	24			5	6	8
9	87	71	79	4	66	0	14	8	0	0	0	29.90	29	5.5	6.3	10	32			8	7	9
10	86	72	79	4	69	0	14	1 3 8	0	1.39	0	29.83	18	4.0	5.2	25	34			8	9	10
11	89	71	80	5	69	0	15	3 8	0	.61	0	29.85	27	5.8	8.2	13	29			5	6	11
12	82	72	77	2	68	0	12	1 8	0	T	0	29.93	27	6.1	7.6	15	28			9	9	12
13	81	72	77	2	69	0	12	1 3 8	0	.39	0	29.96	18	4.0	6.6	12	26			10	10	13
14	80	72	76	2	69	0	11	1 3 8	0	.51	0	29.92	24	6.7	7.9	13	30			10	10	14
15	81	71	76	2	65	0	11	2 8	0	0	0	30.06	15	1.1	6.8	10	18			6	5	15
16	83	70	77	3	69	0	12	8	0	0	0	30.01	17	10.3	10.8	17	17			8	8	16
17	85	67	76	2	70	0	11	3 8	0	.50	0	29.74	25	7.5	9.1	29	30			10	9	17
18	76	58	67	-7	54	0	2		0	0	0	29.90	31	7.1	7.6	15	31			8	6	18
19	77	54	66	-8	51	0	1		0	0	0	29.97	30	1.4	5.3	12	06			3	3	19
20	77	59	68	-6	52	0	3		0	0	0	29.94	33	7.0	7.2	13	32			5	5	20
21	76	53	65	-9	55	0	0	3	0	.01	0	29.96	16	6.1	9.9	20	18			7	7	21
22	82	67	75	2	64	0	10	3 8	0	.24	0	29.78	24	5.5	8.8	16	23			7	6	22
23	81	63	72	-1	58	0	7		0	0	0	29.87	29	2.3	4.0	8	34			9	7	23
24	80	62	71	-2	65	0	6	1 3 8	0	.49	0	29.82	30	2.7	5.6	16	34			10	10	24
25	75	52*	64*	-9	48	1	0		0	0	0	30.08	32	8.3	9.1	16	34			0	1	25
26	77	53	65	-8	54	0	0		0	0	0	30.20	19	5.3	8.1	14	18			5	4	26
27	82	62	72	-1	63	0	7		0	0	0	30.20	21	6.0	7.3	14	22			3	2	27
28	86	67	77	5	68	0	12	8	0	0	0	30.20	19	5.6	6.6	13	18			1	0	28
29	86	70	78	6	69	0	13	8	0	0	0	30.14	19	6.8	7.1	13	16			1	1	29
30	91	70	81	9	68	0	16	8	0	0	0	30.05	30	3.6	5.5	12	35			7	7	30
31	87	73	80	8	69	0	15	3 8	0	.05	0	30.11	07	3.0	5.5	14	22			6	7	31
	SUM 2603	SUM 2067				TOTAL 1	TOTAL 328	NUMBER OF DAYS		TOTAL 4.82	TOTAL 0	FOR THE MONTH: 29.97	24	3.3	7.1	29	30	TOTAL	% FOR	SUM 198	SUM 189	
	AVG. 84.0	AVG. 66.7	AVG. 75.4	DEP. 1.3	AVG. 64	DEP. 1	DEP. 46	PRECIPITATION .01 INCH 13		DEP. 0.84						DATE: 17		POSSIBLE	MONTH	AVG. 6.4	AVG. 6.1	

NUMBER OF DAYS				SEASON TO DATE	
MAXIMUM TEMP.		MINIMUM TEMP.		TOTAL	TOTAL
≥ 90°	≤ 32°	≤ 32°	≤ 0°	1	949
DEP.	DEP.				
5	0	0	0	1	88

SNOW, ICE PELLETS ≥ 1.0 INCH 0
THUNDERSTORMS 13
HEAVY FOG 2
CLEAR 6 PARTLY CLOUDY 12 CLOUDY 13

GREATEST IN 24 HOURS AND DATES			GREATEST DEPTH ON GROUND OF SNOW, ICE PELLETS OR ICE AND DATE
PRECIPITATION		SNOW, ICE PELLETS	
1.92	10-11	0	0

- EXTREME FOR THE MONTH - LAST OCCURRENCE IF MORE THAN ONE.
T TRACE AMOUNT
+ ALSO ON AN EARLIER DATE, OR DATES.
HEAVY FOG: - VISIBILITY 1/4 MILE OR LESS.
FIGURES FOR WIND DIRECTIONS ARE TENS OF DEGREES CLOCKWISE FROM TRUE NORTH. 00 = CALM.
DATA IN COLS. 6 AND 12-15 ARE BASED ON 7 OR MORE OBSERVATIONS PER DAY AT 3-HOUR INTERVALS.
FASTEST MILE WIND SPEEDS ARE FASTEST OBSERVED ONE-MINUTE VALUES WHEN DIRECTIONS ARE IN TENS OF DEGREES. THE / WITH THE DIRECTION INDICATES PEAK GUST SPEED.
ANY ERRORS DETECTED WILL BE CORRECTED AND CHANGES IN SUMMARY DATA WILL BE ANNOTATED IN THE ANNUAL SUMMARY

SUMMARY BY HOURS

HOUR LOCAL TIME	AVERAGES SKY COVER TENTHS	STATION PRESSURE IN.	TEMPERATURE AIR °F	WET BULB °F	DEW PT. °F	RELATIVE HUMIDITY %	WIND SPEED M.P.H.	RESULTANT WIND DIRECTION	RESULTANT WIND SPEED M.P.H.
01	6	29.97	70	66	63	79	4.8	26	2.0
04	5	29.96	68	65	63	83	4.8	25	1.7
07	6	29.99	71	67	64	79	6.2	26	3.1
10	6	30.00	78	70	65	65	8.7	25	3.8
13	7	29.97	82	71	65	57	10.6	25	6.0
16	7	29.95	81	70	64	58	9.3	23	4.8
19	6	29.96	76	69	64	67	6.4	21	3.6
22	5	29.98	72	67	64	75	6.0	23	2.7

HOURLY PRECIPITATION (WATER EQUIVALENT IN INCHES)

DATE	A. M. HOUR ENDING AT 1	2	3	4	5	6	7	8	9	10	11	12	P. M. HOUR ENDING AT 1	2	3	4	5	6	7	8	9	10	11	12	DATE
1														T		T	.13	.01							1
2																									2
3								.36	T	T	.01	T													3
4	T	.01	T																						4
5																T									5
6																		T	T						6
7																									7
8																					.09	.02	T		8
9																									9
10				T	.06	.39	.09	.03										T	.07	.09	T		.19	.47	10
11	.53	T																						.08	11
12	T	T									T			T	T					T	T				12
13		T	T	.01			T	T	T	T		T	T	T		T	T	T	T			.34	.04		13
14								T	.08					.43	T										14
15																									15
16																									16
17									T	.04	T			.36	.10										17
18																									18
19																									19
20																									20
21																								.01	21
22	.02	.22																							22
23																									23
24				.18											.03	.19	.06	.02	.01				T		24
25																									25
26																									26
27																									27
28																									28
29																									29
30															.01	.03	.01								30
31																									31

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Daniel B. Mitchell
DIRECTOR, NATIONAL CLIMATIC CENTER

USCOMM--NOAA--ASHEVILLE 09/20/77 400

OBSERVATIONS AT 3-HOUR INTERVALS

HOUR	SKY COVER TENTHS	CEILING HNDS. OF FT.	VISIBILITY WHOLE MILES	VISIBILITY 16THS MILE	WEATHER	TEMPERATURE AIR °F	TEMPERATURE WET BULB °F	TEMPERATURE DEW PT. °F	REL. HUM. %	WIND DIR	WIND SPEED KNOTS
DAY 01											
01	6	250	6		H	73	67	63	71	18	6
04	8	85	4		H	72	68	66	82	18	7
07	10	6	2		FH	75	71	68	82	19	9
10	10	17	2	8	H	80	74	71	74	18	8
13	10	34	4		H	88	76	71	57	23	14
16	10	30	6		RWH	77	67	61	58	18	10
19	10	80	5		H	74	69	66	76	23	5
22	6	150	7			71	67	65	81	21	4
DAY 02											
01	3	UNL	10			68	65	63	84	29	6
04	5	UNL	10			66	63	61	84	31	7
07	10	250	6		H	70	65	62	76	31	6
10	6	UNL	15			78	67	60	54	32	6
13	7	UNL	15			83	66	56	40	31	8
16	8	UNL	15			85	66	54	35	32	4
19	10	250	15			79	65	56	45	25	6
22	10	250	15			74	64	57	55	22	4
DAY 03											
01	10	140	15			71	66	63	76	00	0
04	10	100	12			72	67	65	79	07	3
07	10	5	2		TKH	73	70	68	84	28	10
10	10	13	2		RWH	75	70	68	79	36	4
13	10	80	7			78	71	68	71	24	8
16	8	UNL	7			82	73	69	65	17	8
19	10	110	7			78	72	69	74	16	8
22	10	120	6		H	75	71	69	82	16	7
DAY 04											
01	10	34	6		RWH	73	70	69	87	15	3
04	10	70	2		FH	72	70	69	90	00	0
07	2	UNL	4		GFH	73	70	68	84	00	0
10	4	UNL	7			80	72	68	67	24	7
13	4	UNL	7			85	73	68	57	29	8
16	2	UNL	6		H	88	73	66	48	17	6
19	1	UNL	6		H	81	73	70	69	19	7
22	0	UNL	10			76	69	66	71	00	0
DAY 05											
01	0	UNL	10			74	69	66	76	00	0
04	3	UNL	9			72	68	66	82	19	3
07	6	UNL	6		H	75	72	70	85	19	4
10	5	UNL	15			85	75	71	63	24	10
13	7	250	15			92	75	68	45	27	13
16	2	UNL	8			89	76	70	54	27	4
19	4	UNL	8			85	73	68	57	26	4
22	2	UNL	12			78	72	69	74	22	4
DAY 06											
01	2	UNL	8			75	71	69	82	21	3
04	3	UNL	7			74	71	69	84	00	0
07	5	UNL	5		H	77	72	70	79	25	4
10	0	UNL	12			87	76	71	59	24	7
13	3	UNL	12			93	77	70	47	24	8
16	2	UNL	12			90	75	68	48	24	11
19	10	70	12			81	73	70	69	00	0
22	8	95	8			77	73	71	82	34	3
DAY 07											
01	0	UNL	4		H	75	72	70	85	31	3
04	0	UNL	4		H	73	70	69	87	00	0
07	2	UNL	4		H	78	73	71	79	24	5
10	2	UNL	12			90	76	70	52	25	8
13	6	UNL	15			92	74	66	42	26	17
16	9	250	15			89	74	67	48	29	10
19	9	250	15			85	73	67	55	25	7
22	10	120	15			82	72	67	61	26	4
DAY 08											
01	7	200	12			78	71	68	71	25	6
04	2	UNL	12			75	69	66	74	25	5
07	7	UNL	10			76	69	66	71	27	8
10	3	UNL	15			86	74	68	55	29	9
13	5	UNL	12			89	74	67	48	26	11
16	3	UNL	10			91	73	65	42	28	9
19	8	250	9			85	72	66	53	22	4
22	10	40	8		RW	75	71	69	82	22	5
DAY 09											
01	8	250	10			73	69	67	82	27	7
04	10					71	68	66	84	24	6
07	3	UNL	6		H	75	70	67	76	30	8
10	8	250	8			83	72	67	59	28	9
13	9	UNL	8			86	73	67	53	34	8
16	8	250	15			85	72	65	51	30	6
19	10	220	8			82	71	65	56	00	0
22	10	UNL	8			76	70	67	74	00	0
DAY 10											
01	8	250	7			73	68	66	79	00	0
04	10	75	5		RWH	75	70	67	76	00	0
07	10	17	1	8	RWFH	72	69	67	84	00	0
10	10	31	5		H	76	72	70	82	18	8
13	10	14	8			80	74	72	77	19	8
16	3	UNL	5		H	86	79	76	72	18	10
19	10	30	5		TRWH	73	68	66	79	19	6
22	10	90	10			72	69	67	84	01	4
DAY 11											
01	10	36	5		TRW	73	70	68	84	19	6
04	8	80	7			72	69	68	87	29	6
07	10	70	6		H	73	70	68	84	30	6
10	9	250	6		H	82	73	69	65	32	11
13	5	UNL	6		H	87	75	70	57	29	11
16	2	UNL	6		H	88	75	69	53	24	8
19	3	UNL	5		H	82	73	69	65	23	5
22	2	UNL	7			78	73	70	77	18	4
DAY 12											
01	10	41	5		RWH	75	72	70	85	34	8
04	3	UNL	4		FH	72	69	68	87	18	4
07	5	UNL	4		FH	77	72	70	79	26	6
10	10	120	10			82	72	67	61	28	13
13	10	120	12			80	71	66	62	27	9
16	10	120	12			79	71	67	67	24	6
19	10	120	12			77	70	66	69	28	6
22	10	80	10			75	69	66	74	25	3
DAY 13											
01	10	120	8			73	70	68	84	00	0
04	10	48	8			73	70	68	84	05	4
07	10	85	4		RWH	74	70	68	82	12	6
10	10	4	4		H	76	72	70	82	18	6
13	10	17	5		RH	77	72	70	79	19	7
16	10	100	8		R	79	73	70	74	21	8
19	10	120	8			77	72	69	76	18	5
22	10	36	4		TRW	72	69	67	84	26	10
DAY 14											
01	10	130	10			73	70	69	87	22	4
04	10	120	10			73	70	68	84	22	6
07	10	120	8			74	70	68	82	22	8
10	10	110	7			79	74	72	79	24	9
13	10	32	6		TH	79	73	70	74	30	11
16	10	35	7			75	71	69	82	26	6
19	10	120	10			75	70	68	79	20	5
22	10	250	6		H	73	70	68	84	25	6
DAY 15											
01	10	2	1	8	F	71	68	67	87	24	3
04	0	UNL	2	8	F	72	69	68	87	22	4
07	2	250	2	8	FH	72	69	68	87	24	6
10	10	70	9			75	66	60	60	05	8
13	1	UNL	10			80	68	61	52	36	6
16	5	UNL	8			81	69	62	53	16	6
19	4	UNL	7			76	69	66	71	18	9
22	0	UNL	7			72	68	66	82	15	5
DAY 16											
01	10	250	7			72	68	66	82	11	3
04	10	6	3		H	70	67	65	84	13	5
07	10	1	1	4	H	72	69	67	84	18	7
10	10	14	3		H	78	73	70	77	17	10
13	8	UNL	4		H	82	74	70	67	17	14
16	6	250	5		H	82	74	70	67	17	15
19	8	250	7			78	73	70	77	17	12
22	7	250	7			77	72	70	79	19	9
DAY 17											
01	10	7	7			76	73	71	85	20	9
04	7	UNL	5		H	75	72	71	87	21	8
07	10	120	4		H	78	74	72	82	24	8
10	10	60	2	8	RWH	78	74	73	85	24	8
13	10	95	5		H	83	75	72	70	24	8
16	9	75	12			75	72	70	85	26	7
19	10	45	10			76	71	68	76	30	9
22	9	100	12			71	64	60	68	30	6
DAY 18											
01	8	90	12			67	61	56	68	31	6
04	8	80	15			63	58	54	73	34	4
07	9	90	10			64	59	55	73	24	4
10	8	220	12			71	62	55	57	33	9
13	8	250	15			74	62	53	48	31	13
16	10	UNL	15			75	61	50	42	32	9
19	4	UNL	15			70	60	52	53	30	4
22	0	UNL	15			60	57	54	81	31	4
DAY 19											
01	0	UNL	15			57	54	51	80	31	5
04	0	UNL	10			55	51	48	77	35	5
07	1	UNL	20			60	55	50	70	35	5
10	1	UNL	20			71	60	52	51	13	5
13	4	UNL	15			75	61	51	43	16	5
16	7	60	15			75	61	50	42	20	4
19	2	UNL	15			70	60	53	55	29	4
22	3	UNL	15			62	58	56	81	31	4
DAY 20											
01	6	UNL	12			60	57	54	81	32	5
04	9	70	10			61	58	55	81	34	4
07	8	70	10			64	58	54	70	34	6
10	7	75	10			73	61	52	48	34	8
13	6	UNL	15			77	61	50	38	33	9
16	9	UNL	15			76	61	51	42	31	9
19	1	UNL	15			71	59	50	48	33	4
22	0	UNL	12			61	55	50	67	34	5
DAY 21											
01	0	UNL	12			57	52	48	72	34	5
04	0	UNL	10			54	50	47	77	33	4
07	4	UNL	12			60	56	52	75	03	4
10	6	250	15			70	61	54	57	12	4
13	6	UNL	15			75	65	59	58	16	11
16	10	250	10			75	66	60	60	17	14
19	10	UNL	10			71	64	59	66	16	11
22	10	41	8			72	65	61	68	18	16
DAY 22											
01	10	41	7		TRW	68	64	62	81	36	4
04	10	44	7			70	66	64	81	19	9
07	10	20	3		H	72	67	65	79	22	11
10	10	85	4		H	77	70	67	71	23	12
13	6	85	6		H	80	71	66	62	24	12
16	9	39	12			77	69	64	64	34	5
19	0	UNL	10			77	67	62	60	30	4
22	0	UNL	10			69	63	60	73	34	4
DAY 23											
01	2	UNL	10			67	62	59	76	00	0
04	6	75	10			64	61	59	84	35	5
07	10		8			66	61	58	76	35	5
10	10	250	10			77	66	59	54	30	4
13	10	250	10			80	66	57	45	18	4
16	8	250	12			78	66	58	48	25	6
19	5	UNL	10			75	64	57	54	27	4
22	6	UNL	8			70	64	60	71	00	0
DAY 24											
01	8	250	7			67	63	61	81	00	0
04	10	3	1		F	68	66	65	90	33	5
07	10	6	0	8	F	70	67	66	87	00	0
10	10	120	3		H	79	73	70	74	19	8
13	10	100	4		H	80	72	68	67	25	8
16	10	48	2	8	RWH	71	68	66	84	32	7
19	10	55	2	8	H	70	67	65	84	00	0
22	10	34	6		H	67	63	61	81	36	11
DAY 25											
01	10	55	10			61	54	48	63	34	14
04	0	UNL	15			54	50	47	77	30	8
07	0	UNL	20			57	52	47	69	32	11
10	0	UNL	40			68	57	49	51	35	8
13	0	UNL	40			73	59	47	40	35	6
16	0	UNL	40			75	59	46	36	29	8
19	0	UNL	40			66	57	49	54	29	4
22	0	UNL	25			60	55	51	72	30	4
DAY 26											
01	0	UNL	20			56	53	51	83	31	3
04	0	UNL	20			53	51	49	86	30	4
07	0	UNL	10			57	54	51	80	34	4
10	1	UNL	10			72	61	54	53	18	6
13	0	UNL	15			75	63	54	48	17	11
16	0	UNL	15			75	64	56	52	17	8
19	0	UNL	12			70	63	59	68	17	11
22	0	UNL	12			67	62	58	73	19	9
DAY 27											
01	2	UNL	12			64	60	57	78	18	7
04	2	UNL	12			62	58	56	81	00	0
07	4	UNL	12			66	62	59	78	20	3
10	0	UNL	20			76	69	65	69	20	8
13	7	40	15			81	71	66	60	27	10
16	2	UNL	9			80	71	67	65	19	8
19	0	UNL	8			75	69	66	74	16	7
22	0	UNL	7			74	68	64	71	22	8
DAY 28											
01	0	UNL	7			70	65	62	76	23	4
04	0	UNL	8			67	64	62	84	15	4
07	0	UNL	4		H	70	67	65	84	23	4
10	0	UNL	6		H	79	72	69	72	24	4
13	1	UNL	6		H	84	76	72	67	15	8
16	3	UNL	7			84	76	72	67	18	11
19	0	UNL	6		H	78	73	70	77	17	6
22	0	UNL	7			75	70	68	79	22	5
DAY 29											
01	0	UNL	7			72	68	66	82	19	3
04	0	UNL	5		H	71	68	66	84	18	5
07	0	UNL	2		H	72	69	67	84	18	5
10	0	UNL	5		H	80	74	71	74	20	5
13	0	UNL	7			86	76	72	63	20	8
16	2	UNL	7			85	76	72	65	17	10
19	0	UNL	7			77	72	70	78	17	8
22	0	UNL	8			75	70	68	79	22	5
DAY 30											
01	0	UNL	8			73	68	65	78	18	6
04	4	UNL	7			71	68	66	84	23	4
07	10	90	4		H	72	69	67	84	00	0
10	9	UNL	5		H	82	75	72	72	32	5
13	5	UNL	8			89	76	70	54	31	6
16	9	75	9			89	75	69	52	31	9
19	10	100	7			82	73	69	65	33	4
22	8	75	7			78	71	68	71	33	4

STATION

WILMINGTON DEL

YEAR & MONTH

77 08

NOTES

CEILING

UNL INDICATES UNLIMITED

WEATHER

* TORNADO
T THUNDERSTORM
Q SQUALL
R RAIN
RW RAIN SHOWERS
ZR FREEZING RAIN
L DRIZZLE
ZL FREEZING DRIZZLE
S SNOW
SP SNOW PELLETS
IC ICE CRYSTALS
SW SNOW SHOWERS
SG SNOW GRAINS
IP ICE PELLETS
A HAIL
F FOG
IF ICE FOG
GF GROUND FOG
BD BLOWING DUST
BN BLOWING SAND
BS BLOWING SNOW
BY BLOWING SPRAY
K SMOKE
H HAZE
D DUST

WIND

DIRECTIONS ARE THOSE FROM WHICH THE WIND BLOWS. INDICATED IN TENS OF DEGREES FROM TRUE NORTH: 1 E.. 09 FOR EAST. 18 FOR SOUTH. 27 FOR WEST. ENTRY OF 00 IN THE DIRECTION COLUMN INDICATES CALM.

SPEED IS EXPRESSED IN KNOTS: MULTIPLY BY 1.15 TO CONVERT TO MILES PER HOUR.

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