

UNIVERSIDAD AUTÓNOMA DE SINALOA  
FACULTAD DE BIOLOGÍA  
ÁREA DE ECOLOGÍA  
ESTACIÓN CLIMATOLÓGICA 25-102

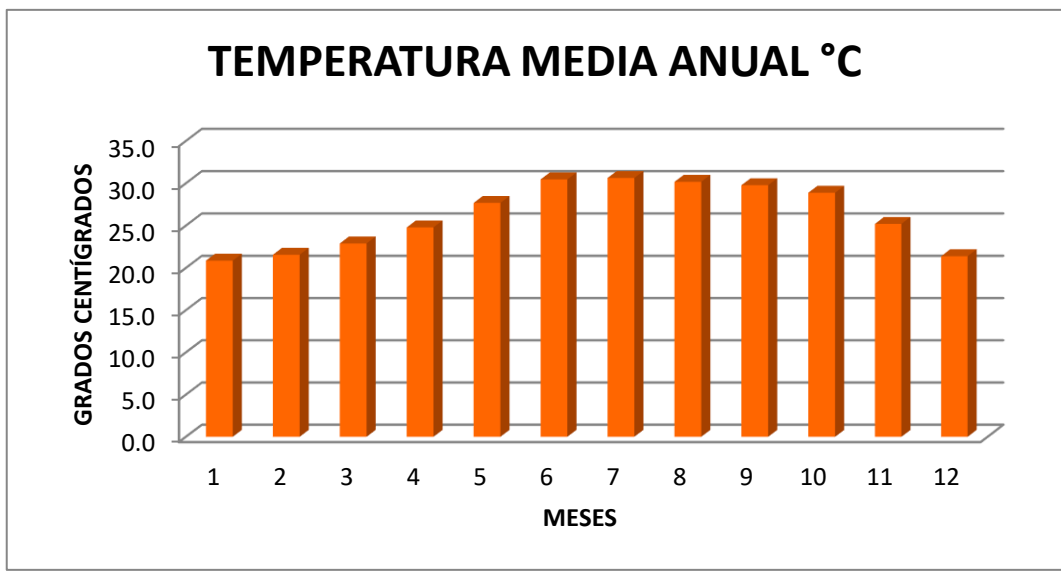


NORMALES CLIMATOLÓGICAS CONDICIONADAS Y VALORES  
EXTREMOS PERIODO 1995-2020

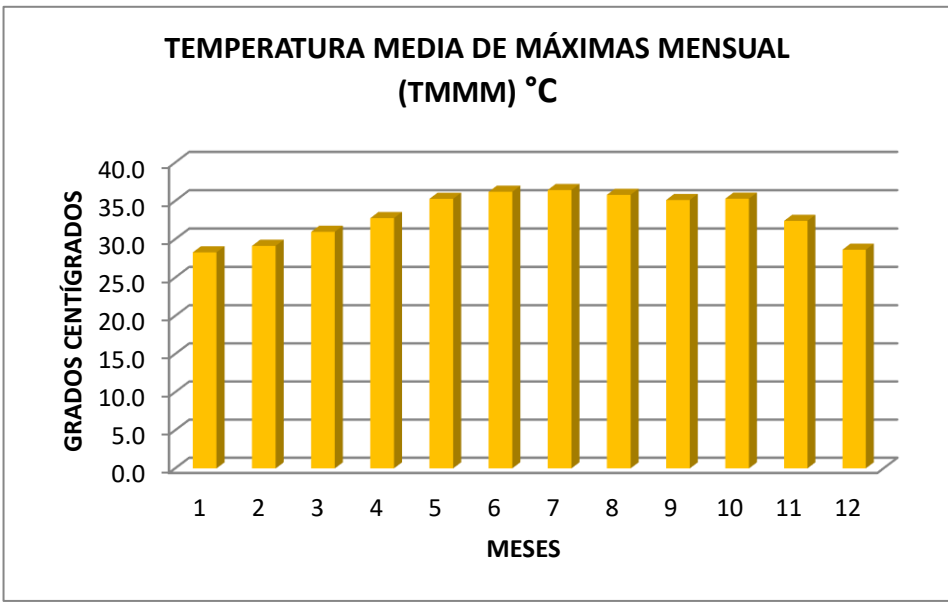
Bladimir Salomón Montijo  
Gilberto Márquez Salazar  
Rogelio Sánchez Bañuelos

Culiacán de Rosales, Sinaloa; Enero de 2021

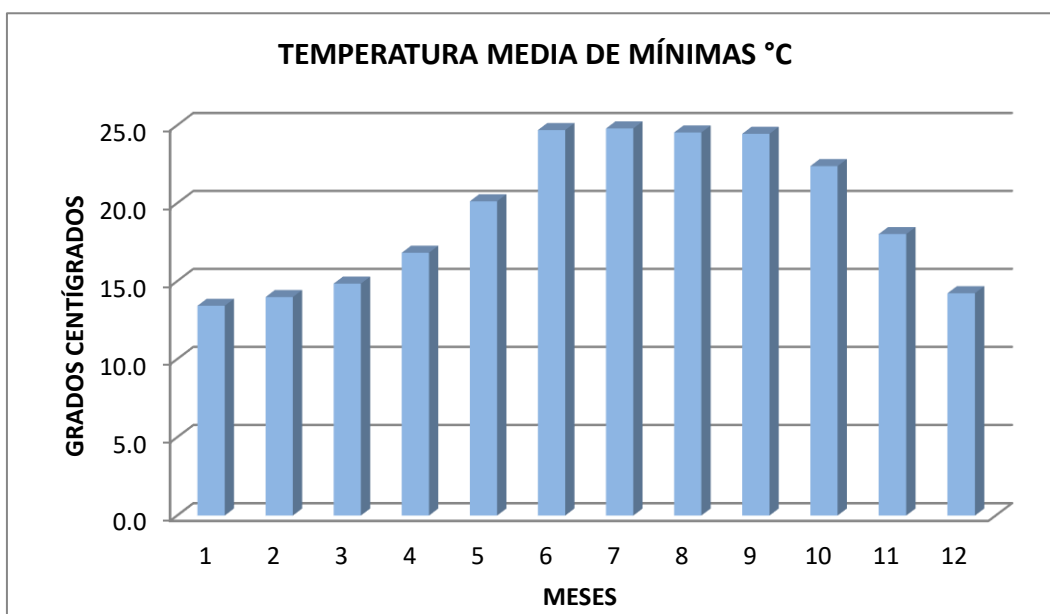
TEMPERATURA MENSUAL (TM), MEDIA MENSUAL (TMM), ANUAL (TA) Y MEDIA ANUAL (TMA)														
No.	AÑOS	TEMPERATURA MENSUAL ( TM )												TA
		ENE	FEB	MAR	ABR	MAY	JUN	JUL	AGO	SEP	OCT	NOV	DIC	
1	1995	20.6	23.9	22.9	23.2	25.9	30.1	31.0	29.5	29.6	29.2	26.5	21.1	26.1
2	1996	20.2	22.1	21.9	25.0	28.2	31.3	30.7	29.7	29.1	28.7	24.9	20.9	26.1
3	1997	18.4	20.0	23.2	23.2	28.2	30.7	30.4	30.2	30.1	28.4	24.6	19.7	25.6
4	1998	20.5	19.4	21.4	23.0	26.8	30.7	30.0	29.6	29.5	29.7	24.9	20.2	25.5
5	1999	20.1	21.0	22.2	24.4	26.8	29.7	29.6	29.6	30.1	29.3	25.7	20.3	25.7
6	2000	20.5	21.5	22.4	24.8	27.5	30.4	30.1	29.4	30.0	27.0	22.3	22.0	25.7
7	2002	20.7	21.5	22.1	25.7	28.4	29.6	30.3	30.9	29.6	28.5	25.1	20.8	26.1
8	2003	23.2	22.1	22.0	25.1	28.0	30.2	30.8	30.5	28.9	28.7	26.0	21.2	26.4
9	2004	19.5	19.7	23.8	24.7	28.3	31.2	30.8	30.4	29.3	28.4	23.1	21.3	25.9
10	2005	22.1	21.3	21.6	25.3	26.9	28.8	30.8	30.5	31.4	28.2	24.8	21.8	26.1
11	2006	20.6	22.2	22.3	25.5	28.1	30.8	29.6	28.9	27.9	27.5	24.9	21.2	25.8
12	2007	19.5	21.3	22.9	24.5	26.8	30.5	30.7	30.1	29	28.6	24.6	20.3	25.7
13	2008	20.0	20.7	21.4	24.7	27.2	30.2	30.8	29.7	29.6	29.9	25.4	22.4	26.0
14	2009	21.6	21.8	23.3	24.6	28.2	30.2	31.1	30.2	30.6	28.1	25.6	21.1	26.4
15	2010	22.0	21.1	22.9	24.7	27.7	30.1	30.9	31.1	30.0	28.4	24.0	21.5	26.2
16	2011	20.0	20.2	24.1	24.6	27.4	30.7	30.4	30.5	31.0	29.0	24.0	19.8	26.0
17	2012	21.4	21.1	21.9	24.1	28.0	29.7	28.9	29.7	30.2	28.6	26.1	21.6	25.9
18	2013	19.7	20.1	23.0	23.8	27.0	30.1	30.2	30.2	28.5	28.1	25.4	22.3	25.7
19	2014	22.5	22.8	23.8	26.0	29.1	31.2	29.8	29.4	29.9	29.6	25.2	22.5	26.8
20	2015	22.4	23.3	24.0	26.0	28.0	31.5	30.2	30.2	30.0	28.2	25.5	21.5	26.7
21	2016	20.3	23.5	23.3	25.4	28.0	31.4	31.4	30.3	30.0	30.8	27.0	23.2	27.1
22	2017	21.0	21.8	24.9	25.6	27.2	30.0	31.6	30.7	30.0	30.5	27.0	23.4	27.0
23	2018	21.8	23.7	24.1	25.9	29.3	30.9	31.9	30.5	29.4	28.7	24.6	21.3	26.8
24	2019	21.7	21.1	23.3	24.7	26.9	30.4	32.1	30.9	30.0	29.5	26.3	22.4	26.6
25	2020	21.2	21.7	23.6	25.2	28.2	31.0	31.5	31.6	30.6	30.4	26.5	20.8	26.9
		Temperatura Media Anual ----->												TMA
	<b>TMM</b>	<b>20.9</b>	<b>21.6</b>	<b>22.9</b>	<b>24.8</b>	<b>27.7</b>	<b>30.5</b>	<b>30.6</b>	<b>30.2</b>	<b>29.8</b>	<b>28.9</b>	<b>25.2</b>	<b>21.4</b>	<b>26.2</b>



TEMPERATURAS MÁXIMA MENSUAL, MEDIA DE MÁXIMAS MENSUAL, MÁXIMA ANUAL Y MEDIA DE MÁXIMAS ANUAL														
No.	AÑOS	Temperatura Máximas Mensual (T.Máx.Mens.)												T. A. Máx.
		ENE	FEB	MAR	ABR	MAY	JUN	JUL	AGO	SEP	OCT	NOV	DIC	
1	1995	27.0	30.8	31.8	33.1	34.3	36.8	37.2	34.9	35.0	36.8	33.8	29.3	33.4
2	1996	29.4	30.8	31.3	33.9	36.1	37.9	37.1	35.4	34.5	33.2	33.2	28.5	33.4
3	1997	26.2	28.8	32.3	30.7	36.4	36.6	36.6	36.0	35.5	35.2	31.8	26.9	32.8
4	1998	28.8	27.5	28.9	31.2	35.0	36.1	35.2	35.1	34.2	35.8	32.3	28.1	32.4
5	1999	29.0	30.1	31.5	33.4	34.7	35.8	35.1	35.3	35.6	36.4	33.9	28.3	33.3
6	2000	29.1	30.5	30.7	33.8	35.4	35.9	36.2	35.4	35.6	32.8	28.8	30.0	32.9
7	2002	28.5	29.1	30.4	32.9	36.2	35.4	35.9	37.0	35.2	34.9	32.8	28.5	33.1
8	2003	31.0	28.4	30.5	33.2	36.1	36.2	36.9	36.6	34.4	35.2	33.6	29.3	33.5
9	2004	25.5	27.0	31.7	31.5	36.2	37.5	36.6	36.1	34.9	35.2	30.3	28.7	32.6
10	2005	29.0	27.7	29.3	33.9	35.0	34.9	36.3	36.6	37.2	34.8	32.5	29.6	33.1
11	2006	28.0	30.4	30.0	33.5	35.4	36.9	36.1	35.3	33.9	34.8	33.3	29.3	33.1
12	2007	25.8	28.6	31.0	32.4	35.0	35.8	36.1	35.9	34.3	35.9	32.0	27.3	32.5
13	2008	28.1	28.9	30.2	33.3	34.4	35.6	36.8	34.9	35.0	36.6	32.6	29.9	33.0
14	2009	29.0	30.2	30.9	32.7	35.0	36.4	37.6	36.3	36.7	34.1	32.3	28.2	33.3
15	2010	28.5	27.5	30.0	31.3	35.5	35.4	35.8	36.6	34.7	35.2	31.9	29.1	32.6
16	2011	27.9	29.1	33.2	32.7	35.3	36.0	36.6	36.5	37.3	36.6	31.7	27.3	33.4
17	2012	29.4	28.5	30.5	32.6	35.7	35.7	36.0	35.1	35.7	35.0	32.9	27.7	32.9
18	2013	26.9	27.6	31.3	31.6	34.5	35.4	35.6	36.1	33.8	34.6	31.2	28.7	32.3
19	2014	29.2	30.0	30.8	33.0	35.5	35.9	35.1	34.4	34.2	35.3	31.6	29.1	32.8
20	2015	28.5	29.3	30.1	32.4	34.5	36.5	35.0	35.0	34.3	33.1	31.7	27.5	32.5
21	2016	27.8	30.8	30.0	33.0	34.4	36.6	37.1	35.0	34.8	37.2	33.8	30.0	33.4
22	2017	27.6	28.9	32.4	32.6	33.7	35.4	36.9	35.7	35.0	37.1	34.1	29.1	33.2
23	2018	29.7	30.7	32.3	34.2	36.9	36.2	38.0	36.3	34.6	34.5	31.8	28.0	33.6
24	2019	29.1	28.7	31.4	32.7	34.9	36.4	37.6	36.1	35.3	35.0	32.1	29.2	33.2
25	2020	28.2	28.7	30.9	33.3	35.7	37.5	37.2	37.3	36.3	37.0	34.0	28.2	33.7
		Temperatura Media de Máximas Anual ----->												TMMA
<b>TMMM</b>		<b>28.3</b>	<b>29.1</b>	<b>31.0</b>	<b>32.8</b>	<b>35.3</b>	<b>36.2</b>	<b>36.4</b>	<b>35.8</b>	<b>35.1</b>	<b>35.3</b>	<b>32.4</b>	<b>28.6</b>	<b>33.0</b>



TEMPERATURA MÍNIMA MENSUAL, MEDIA DE MÍNIMAS MENSUAL, MÍNIMA ANUAL Y MEDIA DE MÍNIMAS ANUAL														
No.	AÑOS	Temperatura Mínima Mensual (T. Mín. Mens.)												T. A. Mín.
		ENE	FEB	MAR	ABR	MAY	JUN	JUL	AGO	SEP	OCT	NOV	DIC	
1	1995	14.2	16.9	14.0	13.2	17.4	23.4	24.8	24.2	24.3	21.6	19.1	12.9	18.8
2	1996	11.0	13.3	12.5	16.1	20.3	24.7	24.2	24.0	23.7	21.7	16.5	13.3	18.4
3	1997	10.7	11.2	14.2	15.7	20.1	24.9	24.2	24.4	24.8	21.5	17.4	12.5	18.5
4	1998	12.1	11.3	13.8	14.9	18.5	25.2	24.9	24.1	24.8	23.7	17.5	12.4	18.6
5	1999	11.2	11.8	13.0	15.3	18.9	23.7	24.0	23.9	24.6	22.2	17.6	12.2	18.2
6	2000	11.8	12.6	14.1	15.7	19.6	24.9	24.0	23.5	24.5	21.3	15.8	14.0	18.5
7	2002	12.9	14.0	13.8	18.5	20.6	23.8	24.7	24.8	24.0	22.1	17.5	13.0	19.1
8	2003	15.5	15.8	13.5	17.1	20.0	24.0	24.7	24.4	23.5	22.3	18.5	13.0	19.4
9	2004	13.5	12.4	16.0	17.9	20.4	24.9	25.0	24.7	23.7	21.7	15.8	13.9	19.2
10	2005	15.1	14.9	13.9	16.7	18.8	22.7	25.3	24.5	25.6	21.6	17.1	13.9	19.2
11	2006	13.3	14.0	14.5	17.5	20.9	24.7	23.1	22.5	22.0	20.3	16.6	13.1	18.5
12	2007	13.2	14.1	14.8	16.6	18.8	25.1	25.2	24.3	23.7	21.3	17.3	13.3	19.0
13	2008	11.9	12.5	12.5	16.1	20.0	24.8	24.8	24.4	24.2	23.2	18.2	14.9	19.0
14	2009	14.2	13.5	15.7	16.5	21.4	24.0	24.5	24.1	24.5	22.1	18.9	14.0	19.5
15	2010	15.5	14.8	15.8	18.1	19.9	24.7	25.9	25.6	25.2	21.5	16.0	13.8	19.7
16	2011	12.1	11.3	14.9	16.4	19.4	25.4	24.1	24.4	24.7	21.5	16.3	12.3	18.6
17	2012	13.4	13.8	13.4	15.6	20.3	23.7	21.9	24.3	24.7	22.2	19.4	15.6	19.0
18	2013	12.5	12.6	14.7	16.0	19.5	24.8	24.8	24.2	23.5	21.6	19.6	18.8	19.4
19	2014	15.8	15.6	16.9	19.0	22.8	26.5	24.5	24.5	25.7	23.9	18.8	15.8	20.8
20	2015	16.3	17.3	17.8	19.7	21.6	26.5	25.3	25.3	25.7	23.4	19.4	15.6	21.2
21	2016	12.7	16.1	16.5	17.9	21.6	26.1	25.6	25.6	25.2	24.4	20.3	16.4	20.7
22	2017	14.4	14.7	17.4	18.7	20.8	24.6	26.3	25.7	25.1	23.9	19.9	17.6	20.8
23	2018	13.8	16.7	16.0	17.7	21.7	25.5	25.9	24.6	24.1	22.8	17.5	14.5	20.1
24	2019	14.3	13.6	15.2	16.6	19.0	24.3	26.6	25.6	24.7	24.0	20.6	15.5	20.0
25	2020	14.2	14.8	16.3	17.2	20.8	24.5	25.7	25.9	24.9	23.8	19.0	13.4	20.0
		Temperatura Media de Mínima Anual ----->												TMMA
	TMMM	13.4	14.0	14.8	16.8	20.1	24.7	24.8	24.5	24.5	22.4	18.0	14.2	19.4

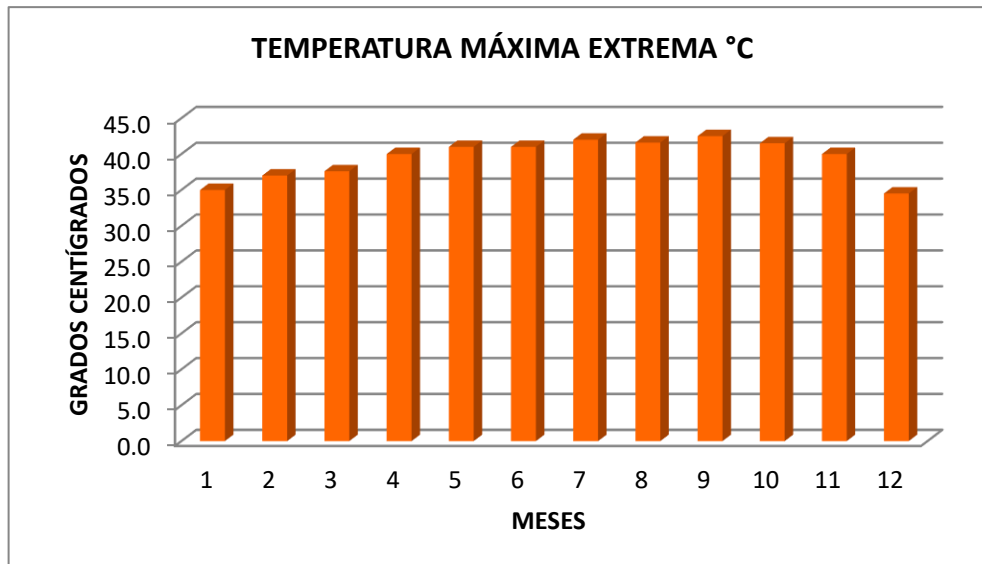


## TEMPERATURA MÁXIMA EXTREMA Y FECHA DE OCURRENCIA

No.	AÑOS	MÁXIMA ABSOLUTA DEL MES Y DÍA EN QUE OCURRIÓ																								MÁXIMA ANUAL	
		ENE		FEB		MAR		ABR		MAY		JUN		JUL		AGO		SEP		OCT		NOV		DIC			
		TEM	DÍA	TEM	DÍA	TEM	DÍA	TEM	DÍA	TEM	DÍA	TEM	DÍA	TEM	DÍA	TEM	DÍA	TEM	DÍA	TEM	DÍA	TEM	DÍA	TEM	DÍA		
1	1995	31.0	26	34.0	V	34.0	7	39.0	15	37.0	23	41.0	3	39.5	V	40.0	2	39.0	1	41.5	V	37.0	11	34.0	V	41.5	OCT
2	1996	32.0	V	35.0	23	35.0	11	38.5	9	39.5	5	41.0	9	42.0	30	40.0	1	39.0	30	41.0	2	38.5	8	33.0	11	42.0	JUL
3	1997	32.0	28	34.0	15	36.5	18	35.0	9	39.0	V	39.0	V	39.0	V	39.0	23	39.0	18	40.0	14	36.0	1	31.0	v	40.0	OCT
4	1998	33.0	18	35.0	23	35.0	22	35.0	22	39.0	16	41.0	15	40.0	10	39.0	V	37.0	6	39.0	V	35.0	8	31.5	17	41.0	JUN
5	1999	33.0	5	33.5	28	35.0	V	38.0	V	39.0	17	38.0	V	39.0	13	38.0	V	42.5	29	40.0	9	39.0	29	33.5	1	42.5	SEP
6	2000	34.0	16	33.0	V	35.0	V	36.0	V	39.0	23	40.0	12	39.5	9	38.0	10	39.0	28	37.0	4	33.0	21	33.5	19	40.0	JUN
7	2002	31.2	16	37.0	22	35.0	26	40.0	5	39.0	3	38.5	V	39.1	2	41.0	8	40.0	23	40.0	13	36.5	22	33.0	28	41.0	AGO
8	2003	35.0	15	33.6	11	37.6	30	36.5	21	41.0	31	39.0	16	40.5	22	39.9	2	39.0	29	39.8	19	37.6	11	34.1	2	41.0	MAY
9	2004	30.3	1	35.2	17	36.0	20	37.1	18	38.5	6	40.2	26	40	1	38.0	V	37	15	40.2	5	38	6	34.0	3	40.2	JUN
10	2005	32.5	11	33.5	21	36.6	28	38.0	21	38.0	30	38.0	25	41	31	41.0	20	40.0	21	39	6	40.0	1	33.5	13	41.0	AGO
11	2006	32.0	6	35.0	V	34.0	5	36.0	25	38.5	22	40.5	28	40.6	4	37.5	13	36.6	V	40.0	5	36.0	20	34.0	4	40.6	JUL
12	2007	34.0	2	34.0	9	33.4	16	36.2	23	40.0	24	38.3	25	40	14	39.5	7	37.5	2	39.0	29	37.5	5	30.5	3	40.0	MAY
13	2008	31.5	28	31.8	23	33.7	20	35.4	28	36.0	V	38.8	29	40.5	20	37.8	V	39.0	7	39.9	18	36.5	18	32.0	V	40.5	JUL
14	2009	32.7	24	34.0	22	34.5	21	36.5	28	37.5	20	40.5	12	41.0	9	39.5	5	40.0	26	38.4	16	38.0	5	32.0	13	41.0	JUL
15	2010	31.5	9	30.8	24	34.2	17	33.3	4	38.6	16	39.2	30	39.8	19	40.5	2	37.7	30	38.0	1	37.5	5	33.3	9	40.5	AGO
16	2011	31.0	5	32.8	14	36.5	19	35.2	14	37.4	6	38.0	30	39.4	25	39.2	4	40.0	23	39.2	V	35.7	11	31.0	1	40.0	SEP
17	2012	34.6	16	31.6	25	34.5	7	35.0	22	38.8	25	39.0	17	38.7	6	41.6	11	38.5	18	39.0	2	35.7	6	32.2	5	41.6	AGO
18	2013	32.5	24	32.4	16	36.1	2	35.8	27	37.2	19	38.1	15	38.5	10	38.6	19	41.5	15	37.2	7	35.5	1	31.6	12	41.5	SEP
19	2014	35.0	15	33.6	18	35.0	24	38.0	8	40.5	14	37.5	18	39.1	22	37.2	3	37.5	29	37.7	25	36.0	1	32.0	2	40.5	MAY
20	2015	33.6	5	35.5	23	33.0	12	37.4	11	39.0	14	38.5	14	39.0	31	37.0	26	37.0	25	37.0	2	35.0	21	33.8	7	39.0	MAY
21	2016	31.0	31	35.5	9	33.3	16	36.5	26	38.0	28	39.5	3	42.0	9	39.5	5	37.2	4	40.0	21	38.2	19	34.5	21	42.0	JUL
22	2017	31.2	8	33.0	21	35.0	18	36.0	16	36.8	11	37.0	30	39.0	30	38.8	10	38.6	30	41.0	5	39.2	16	32.4	23	41.0	OCT
23	2018	35.5	30	37.5	19	35.0	25	36.0	23	38.8	27	38.0	1	41.6	7	38.5	2	39.0	15	37.5	20	36.0	6	35.0	4	41.6	JUL
24	2019	37.5	23	32.6	5	33.7	25	36.0	30	36.8	25	40.0	27	39.5	17	40.5	20	37.6	12	38.5	7	37.0	29	32.7	22	40.5	AGO
25	2020	32.4	17	33.5	18	39.2	11	37.8	28	38.0	4	40.5	18	40.2	11	40.0	12	40.6	5	40.3	2	38.6	19	32.5	7	40.6	SEP
	TMMM	33.0		33.7		35.1		36.3		38.3		38.9		39.9		39.1		38.6		39.0		37.1					MAX.ABS.PERIO.
	MAYOR	35.0	2003	37.0	2002	37.6	2003	40.0	2002	41.0	2003	41.0	V	42.0	1996	41.6	2012	42.5	1999	41.5	1995	40.0	2005	34.5	2016	42.5	1999

### TEMPERATURA MÁXIMA ABSOLUTA POR MES

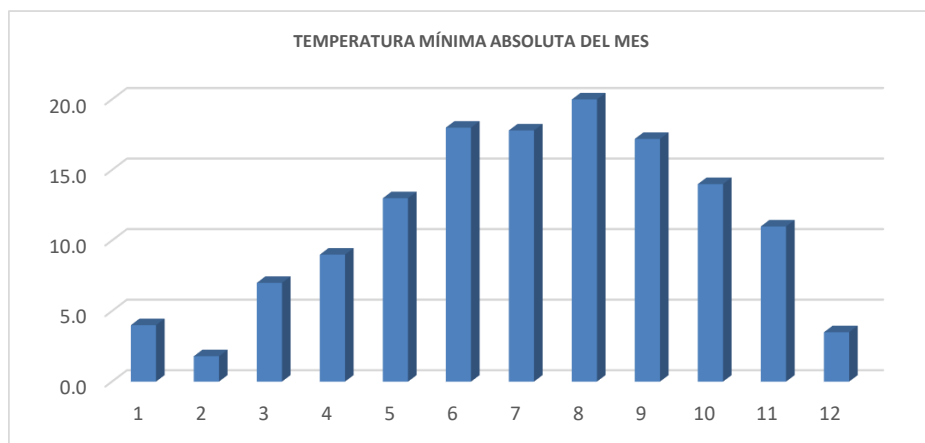
ENE	FEB	MAR	ABR	MAY	JUN	JUL	AGO	SEP	OCT	NOV	DIC
35.0	37.0	37.6	40.0	41.0	41.0	42.0	41.6	42.5	41.5	40.0	34.5



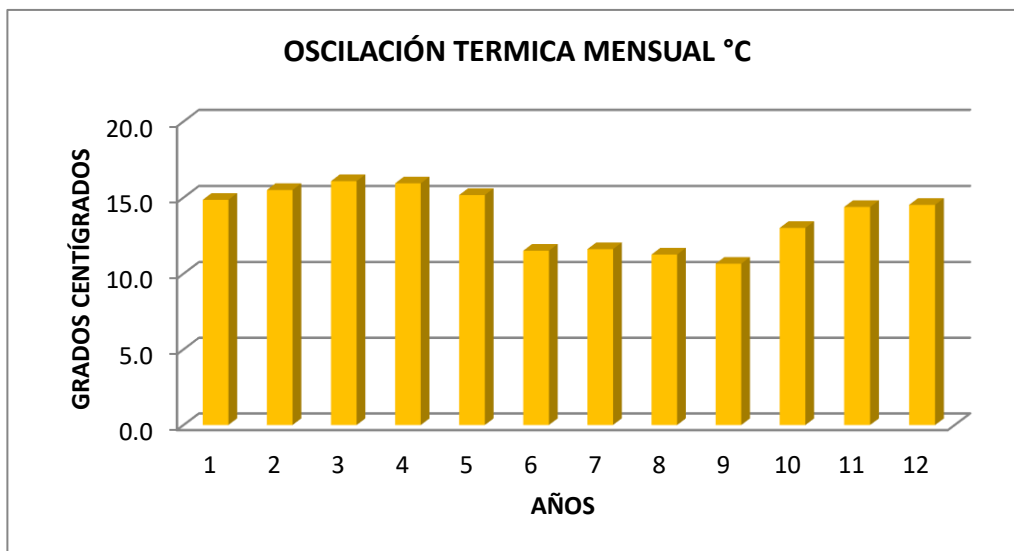
## TEMPERATURA MÍNIMA EXTREMA Y FECHA DE OCURRENCIA

No.	AÑOS	MÍNIMA ABSOLUTADEL MES Y DÍA QUE OCURRIÓ																								MÍNIMA ANUAL		
		ENE		FEB		MAR		ABR		MAY		JUN		JUL		AGO		SEP		OCT		NOV		DIC				
		TEM	DÍA	TEM	DÍA	TEM	DÍA	TEM	DÍA	TEM	DÍA	TEM	DÍA	TEM	DÍA	TEM	DÍA	TEM	DÍA	TEM	DÍA	TEM	DÍA	TEM	DÍA			
1	1995	9.0	V	13.0	17	11.5	19	9.0	V	13.0	V	18.0	4	21.0	17	22.0	V	21.0	V	18.0	28	14.0	30	8.0	V	8.0	DIC	
2	1996	7.0	V	11.0	V	9.0	V	12.5	V	15.5	5	22.0	30	21.0	25	21.0	16	21.5	15	17.0	25	11.0	30	9.0	20	7.0	ENE	
3	1997	4.0	V	6.0	28	8.0	1	11.0	5	15.5	2	21.0	21	22.0	26	21.5	24	22.5	V	17.0	31	14.0	V	4.5	11	4.0	ENE	
4	1998	8.5	7	8.5	V	9.5	1	12.0	9	15.0	V	21.5	V	20.5	20	22.0	V	22.0	V	21.0	31	12.0	14	3.5	11	3.5	DIC	
5	1999	5.0	29	8.0	16	9.0	16	11.5	V	14.0	4	21.0	V	21.0	26	22.0	V	21.5	19	19.0	17	11.5	24	8.0	V	5.0	ENE	
6	2000	6.0	7	9.5	V	10.5	V	12.0	3	16.0	V	22.0	28	21.0	7	21.0	22	21.5	V	16.0	31	12.0	V	11.0	27	6.0	ENE	
7	2002	8.0	31	10.0	1	11.0	1	14.0	1	18.0	V	22.0	V	22.5	V	22.5	V	21.0	V	18.0	31	15.0	V	7.0	26	7.0	DIC	
8	2003	12.0	3	11.2	28	9.5	19	12.5	5	15.0	6	20.5	V	20.0	22	21.5	15	21.0	14	16.5	28	15.5	25	7.0	29	7.0	DIC	
9	2004	9.0	25	7.0	v	10.0	5	14.3	6	16.5	1	22.5	V	22.1	23	22.5	18	21.0	29	19.5	31	11.5	30	6.5	25	6.5	DIC	
10	2005	11.5	13	10.5	6	11.0	7	12.5	11	15.0	2	19.0	3	22.0	22	21.5	2	22.5	V	18.5	V	11.5	29	11.0	26	10.5	FEB	
11	2006	7.0	17	10.5	2	9.0	10	15.2	7	17.0	V	19.4	28	17.8	19	20.6	V	17.2	6	15.8	17	12.4	30	9.0	30	7.0	ENE	
12	2007	6.2	24	9.5	25	9.8	3	13.0	3	15.6	2	22.4	8	22.0	20	21.2	7	21.6	V	16.0	25	12.0	25	7.6	29	6.2	ENE	
13	2008	7.0	15	9.0	6	7.0	18	12.5	6	16.0	2	22.0	19	19.2	28	22.0	21	22.0	17	20.5	31	12.0	V	10.5	28	7.0	ENE	
14	2009	10.0	7	10.0	1	11.2	27	13.5	14	16.4	1	20.6	1	21.6	V	20.0	29	21.5	20	14.0	31	16.8	22	10.5	27	10.0	ENE	
15	2010	12.6	15	11.4	12	11.6	10	15.0	3	16.0	2	21.8	7	23.4	5	22.0	19	23.0	27	17.6	24	11.3	25	9.6	1	9.6	DIC	
16	2011	9.2	9	1.8	4	12.4	29	14.2	19	16.5	2	23.4	1	21.4	4	21.8	27	22.0	17	17.0	29	13.0	15	7.1	24	1.8	FEB	
17	2012	9.2	25	8.5	18	10.4	20	12.9	4	15.0	10	20.2	2	19.7	31	21.9	1	22.0	27	19.0	30	15.2	12	10.4	28	8.5	FEB	
18	2013	5.6	16	8.8	13	10.0	10	14.2	13	16.4	1	21.5	1	21.0	17	20.2	22	19.6	28	19.0	22	13.0	26	12.2	8	5.6	ENE	
19	2014	13.0	11	10.5	4	13.0	5	16.6	1	19.2	1	22.0	21	22.0	26	22.2	24	22.8	14	21.8	30	14.6	27	10.8	28	10.5	FEB	
20	2015	7.8	3	13.2	26	14.8	5	16.0	27	18.8	10	23.5	24	23.0	4	23.2	31	23.5	16	18.6	31	14.2	18	10.2	28	7.8	ENE	
21	2016	9.0	10	7.8	3	10.0	9	15.0	1	16.8	1	23.6	11	22.4	25	23.0	28	22.4	26	21.6	7	14.5	29	11.5	5	7.8	FEB	
22	2017	9.8	20	11.8	14	14.8	2	15.0	1	18.2	11	19.4	3	23.0	18	22.8	23	23.4	1	20.0	31	15.8	18	14.4	20	9.8	ENE	
23	2018	6.0	27	10.8	25	13.4	1	15.2	9	18.0	1	21.6	21	22.8	8	22.4	27	20.6	21	20.8	15	13.2	15	6.8	31	6.0	ENE	
24	2019	9.2	3	9.2	20	11.0	13	13.4	12	16.5	20	22.0	6	24.0	22	23.0	24	23.0	20	19.5	29	16.5	13	9.4	30	9.2	ENE	
25	2020	9.8	3	6.5	6	9.5	4	12.5	12	17.0	10	20.5	3	23.0	21	23.0	17.0	23.0	15.0	16.5	28.0	13.5	30.0	32.5	7.0	6.5	FEB	
	TMM	9.1		9.3		11.0		14.1		16.7		21.4		21.7		21.9		21.8		18.5		13.7		10.9			MÍN.PERIO.	
	TMEM	4.0	1997	1.8	2011	7.0	2008	9.0	1995	13.0	1995	18.0	1995	17.8	2006	20.0	2009	17.2	2006	14.0	2009	11.0	1996	3.5	1998	1.8	2011	

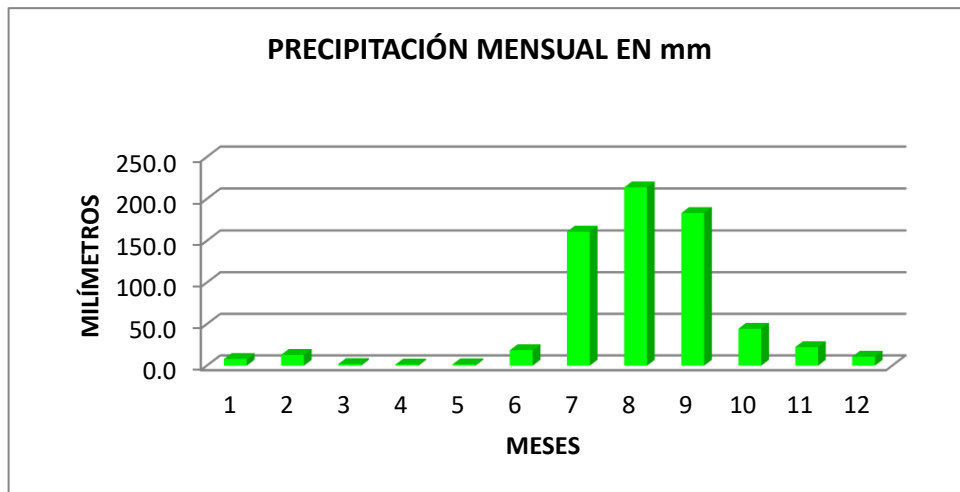
TEMPERATURA MÍNIMA ABSOLUTA POR MES											
ENE	FEB	MAR	ABR	MAY	JUN	JUL	AGO	SEP	OCT	NOV	DIC
4.0	1.8	7.0	9.0	13.0	18.0	17.8	20.0	17.2	14.0	11.0	3.5



OSCILACIÓN TÉRMICA MENSUAL, MEDIA MENSUAL, ANUAL Y MEDIA ANUAL														
No.	AÑOS	OSCILACIÓN TÉRMICA MENSUAL												OTA
		ENE	FEB	MAR	ABR	MAY	JUN	JUL	AGO	SEP	OCT	NOV	DIC	
1	1995	12.8	13.8	17.7	19.9	16.9	13.5	12.4	10.6	10.7	15.1	14.6	16.3	14.5
2	1996	18.4	17.5	18.8	17.8	15.8	13.2	12.8	11.5	10.8	14.0	16.7	15.3	15.2
3	1997	15.5	17.6	18.1	15.0	16.3	11.7	12.3	11.6	10.7	13.7	14.4	14.4	14.3
4	1998	16.7	16.2	15.1	16.3	16.5	10.9	10.3	11.0	9.4	12.1	14.8	15.7	13.8
5	1999	17.8	18.3	18.6	18.1	15.8	12.2	11.1	11.4	11.0	14.3	16.3	16.1	15.1
6	2000	17.3	18.0	16.6	18.2	15.8	11.1	12.2	11.9	11.1	11.5	12.9	16.0	14.4
7	2002	15.5	15.1	16.6	14.4	15.7	11.6	11.2	12.2	11.3	12.8	15.3	15.5	13.9
8	2003	15.5	12.7	17.0	16.1	16.1	12.3	12.2	12.2	10.8	13.0	15.1	16.3	14.1
9	2004	12.0	14.6	15.7	13.7	15.8	12.6	11.5	11.5	11.2	13.5	14.5	14.8	13.5
10	2005	13.9	12.9	15.4	17.2	16.3	12.2	11.0	12.1	11.7	13.2	15.4	15.7	13.9
11	2006	14.7	16.4	15.6	16.0	14.4	12.2	13.0	12.7	11.9	14.5	16.7	16.3	14.5
12	2007	12.7	14.5	16.2	15.7	16.2	10.7	10.9	11.6	10.6	14.5	14.7	14.0	13.5
13	2008	16.2	16.4	17.7	17.2	14.4	10.8	12.0	10.5	10.8	13.4	14.4	15.0	14.1
14	2009	14.8	16.7	15.3	16.3	13.7	12.5	13.2	12.2	12.2	12.0	13.4	14.2	13.9
15	2010	13.0	12.7	14.3	13.2	15.8	10.7	9.9	11.1	9.5	13.7	16.0	15.2	12.9
16	2011	15.8	17.9	18.2	16.3	15.9	10.6	12.4	12.1	12.5	15.0	15.4	15.0	14.8
17	2012	15.9	14.6	17.1	17.0	15.4	12.0	14.1	10.8	11.0	12.9	13.6	12.1	13.9
18	2013	14.4	15.0	16.5	15.6	15.0	10.6	10.8	11.9	10.6	13.0	11.7	12.9	13.2
19	2014	13.4	14.0	13.9	13.9	12.7	9.4	10.6	9.9	8.5	11.4	12.8	13.3	12.0
20	2015	12.1	12.0	12.3	12.6	12.9	10.0	9.8	9.7	8.6	9.7	12.2	12.0	11.2
21	2016	15.1	23.6	13.5	15.1	12.8	10.4	11.5	9.4	9.6	12.7	13.6	13.6	13.4
22	2017	13.2	14.2	15.0	14.0	12.9	10.7	10.7	10.0	10.0	13.2	14.2	11.5	12.5
23	2018	15.9	13.9	16.3	16.5	15.2	10.8	12.1	11.7	10.0	11.8	14.4	13.5	13.5
24	2019	14.8	15.1	16.1	16.2	15.9	12.1	10.9	10.5	10.5	11.0	11.5	13.6	13.2
25	2020	14.0	13.9	14.5	16.1	15.0	13.0	11.5	11.4	11.4	13.2	15.0	14.8	13.7
		Oscilación Térmica Media Anual ----->												OTMA
	OTMM	14.9	15.5	16.1	15.9	15.2	11.5	11.6	11.3	10.7	13.0	14.4	14.5	13.7



PRECIPITACIÓN MENSUAL (PM), MEDIA MENSUAL (PMM), ANUAL (PA) Y PRECIPITACIÓN MEDIA ANUAL (PMA)														
No.	AÑOS	PRECIPITACIÓN MENSUAL											PA	
		ENE	FEB	MAR	ABR	MAY	JUN	JUL	AGO	SEP	OCT	NOV		DIC
1	1995	0.0	0.1	0.0	0.0	0.0	0.1	159.9	234.9	194.7	0.0	0.0	0.0	589.7
2	1996	0.5	0.0	0.0	0.0	0.0	30.5	245.5	184.4	205.9	39.2	18.1	0.0	724.1
3	1997	45.5	6.4	0.0	35.5	25.0	33.5	197.0	187.8	187.4	0.4	56.2	49.2	823.9
4	1998	0.3	13.6	0.5	0.0	0.0	0.0	200.7	254.3	168.3	0.0	0.5	0.0	638.2
5	1999	0.0	0.0	0.0	0.0	0.0	27.6	166.2	162.2	116.4	5.8	0.0	3.0	481.2
6	2000	0.2	0.0	0.0	0.0	0.0	47.5	151.6	279.1	61.1	169.5	52.8	0.0	761.8
7	2002	0.0	11.0	0.0	0.0	0.0	0.0	117.0	49.6	252.5	34.6	7.8	1.0	473.5
8	2003	0.2	12.6	1.0	0.0	0.0	14.0	211.4	191.1	252.9	27.6	3.0	0.0	713.8
9	2004	78.9	20.8	11.4	0.0	0.0	7.4	182.0	213.9	250	217.6	61.6	10.8	1054
10	2005	23.2	111.0	0.0	0.0	0.0	0.0	119.7	214.7	76.6	23.3	3.9	0.5	572.9
11	2006	1.0	0.0	0.0	0.0	0.0	34.0	195.8	179.7	187.2	140.0	0.0	2.6	740.3
12	2007	17.5	4.8	0.0	0.0	0.0	5.5	62.7	320.0	200.9	3.5	28.6	28.0	671.5
13	2008	0.0	0.0	0.0	0.0	0.0	10.2	108.3	279.6	137.1	20.2	0.0	0.0	555.4
14	2009	2.5	0.0	1.8	0.0	0.0	34.0	157.7	232.7	101.3	72.8	3.4	11.8	618.0
15	2010	11.3	41.0	1.1	0.0	1.4	0.0	83.0	208.9	181.3	0.0	0.0	0.0	528.0
16	2011	0.0	0.0	0.0	0.0	0.0	0.6	386.4	238.1	119.8	0.0	20.5	0.0	765.4
17	2012	0.2	1.5	0.0	0.0	0.0	17.5	198.4	221.9	96.0	50.1	0.0	19.2	604.8
18	2013	3.0	0.0	0.0	0.0	0.0	3.7	124.0	128.8	488.1	5.7	120.2	4.3	877.8
19	2014	3.0	0.0	0.7	0.0	0.2	77.2	169.0	264.8	100.5	4.2	22.4	0.0	642.0
20	2015	3.3	25.3	28.8	0.1	0.0	21.2	183.5	238.1	159.1	136.9	13.6	78.6	888.5
21	2016	0.2	0.0	5.6	0.0	15.3	13.1	188.7	173.0	152.8	4.8	3.7	3.2	560.4
22	2017	1.8	20.5	0.1	0.0	1.1	0.2	107.3	286.4	98.5	11.5	0.0	0.0	527.4
23	2018	0.0	4.7	0.0	0.0	0.0	87.7	46.8	258.3	440.7	44.1	0.0	46.6	928.9
24	2019	0.2	0.0	0.0	0.0	0.0	2.4	153.3	242.2	263.2	101.3	142.9	0.7	906.2
25	2020	11.0	53.4	0.5	0.0	0.0	0.0	108.1	99.6	87.2	0.0	0.0	11.1	370.9
PRECIPITACIÓN MEDIA ANUAL ----->													PMA	
PMM	8.2	13.1	2.1	1.4	1.7	18.7	161.0	213.8	183.2	44.5	22.4	10.8	680.8	

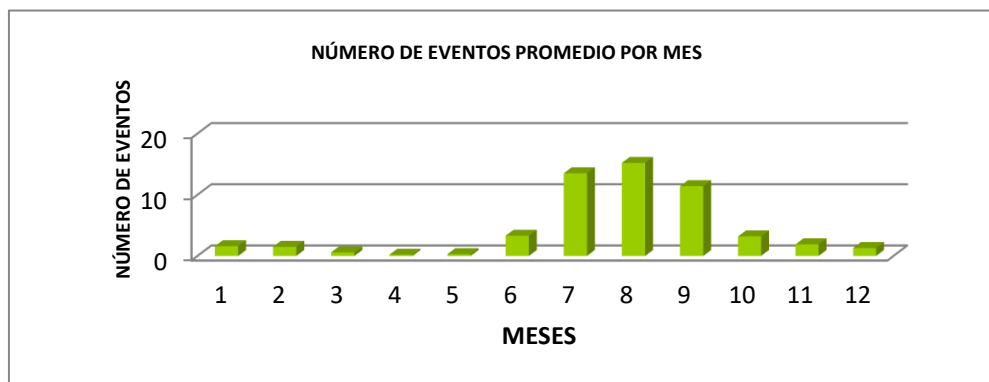




**PRECIPITACIÓN MENSUAL, MEDIA MENSUAL, ANUAL, MEDIA ANUAL Y NÚMERO DE EVENTOS**

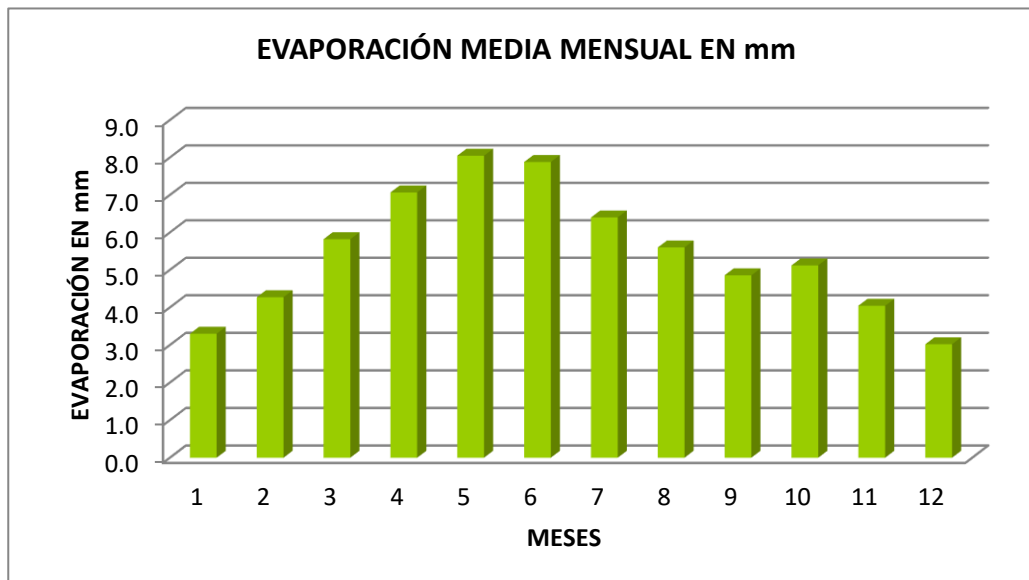
No.	AÑOS	PRECIPITACIÓN MENSUAL Y NÚMERO DE EVENTOS																								PREC. ANUAL	TOT. EVEN.
		ENE		FEB		MAR		ABR		MAY		JUN		JUL		AGO		SEP		OCT		NOV		DIC			
		PM	NE	PM	NE	PM	NE	PM	NE	PM	NE	PM	NE	PM	NE	PM	NE	PM	NE	PM	NE	PM	NE	PM	NE		
1	1995	0.0	0	0.1	1	0.0	0	0.0	0	0.0	0	0.1	1	159.9	13	234.9	18	194.7	12	0.0	0	0.0	0	0.0	0	589.7	45.0
2	1996	0.5	1	0.0	0	0.0	0	0.0	0	0.0	0	30.5	2	245.5	13	184.4	13	205.9	7	39.2	4	18.1	3	0.0	0	724.1	43.0
3	1997	45.5	3	6.4	1	0.0	0	35.5	3	25.0	2	33.5	2	197.0	17	187.8	12	187.4	10	0.4	1	56.2	4	49.2	3	823.9	58.0
4	1998	0.3	1	13.6	4	0.5	1	0.0	0	0.0	0	0.0	0	200.7	13	254.3	14	168.3	14	0.0	0	0.5	1	0.0	0	638.2	48.0
5	1999	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	27.6	4	166.2	14	162.2	15	116.4	5	5.8	1	0.0	0	3.0	1	481.2	40.0
6	2000	0.2	1	0.0	0	0.0	0	0.0	0	0.0	0	47.5	10	151.6	14	279.1	12	61.1	5	169.5	8	52.8	7	0.0	0	761.8	57.0
7	2002	0.0	0	11.0	2	0.0	0	0.0	0	0.0	0	0.0	0	117.0	10	49.6	12	252.5	13	34.6	3	7.8	1	1.0	1	473.5	42.0
8	2003	0.2	1	12.6	4	1.0	1	0.0	0	0.0	0	14.0	2	211.4	13	191.1	14	252.9	15	27.6	5	3.0	2	0.0	0	713.8	57.0
9	2004	78.9	7	20.8	1	11.4	1	0.0	0	0.0	0	7.4	4	182.0	14	213.9	13	250.0	14	217.6	6	61.6	3	10.8	1	1054.4	64.0
10	2005	23.2	4	111.0	4	0.0	0	0.0	0	0.0	0	0.0	0	119.7	8	214.7	14	76.6	8	23.3	3	3.9	2	0.0	0	572.4	43.0
11	2006	1.0	1	0.0	0	0.0	0	0.0	0	0.0	0	34.0	5	195.8	15	179.7	20	187.2	10	140.0	5	0.0	0	2.6	3	740.3	59.0
12	2007	17.5	6	4.8	1	0.0	0	0.0	0	0.0	0	5.5	4	62.7	11	320.0	22	200.9	13	3.5	1	28.6	2	28.0	3	671.5	63.0
13	2008	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	10.2	3	108.3	14	279.6	21	137.1	12	20.2	5	0.0	0	0.0	0	555.4	55.0
14	2009	2.5	1	0.0	0	1.8	1	0.0	0	0.0	0	34.0	8	157.7	14	232.7	16	101.3	9	72.8	10	3.4	2	11.8	3	618.0	64.0
15	2010	11.3	2	41.0	5	1.1	1	0.0	0	1.4	1	0.0	0	83.0	8	208.9	15	181.3	14	0.0	0	0.0	0	0.0	0	528.0	46.0
16	2011	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.6	1	386.4	17	238.1	16	119.8	8	0.0	0	20.5	3	0.0	0	765.4	45.0
17	2012	0.2	1	1.5	2	0.0	0	0.0	0	0.0	0	17.5	6	198.4	21	221.9	16	96.0	10	50.1	2	0.0	0	19.2	3	604.8	61.0
18	2013	3.0	2	0.0	0	0.0	0	0.0	0	0.0	0	3.7	2	124.0	10	128.8	13	488.1	13	5.7	2	120.2	4	4.3	2	877.8	48.0
19	2014	3.0	2	0.0	0	0.7	1	0.0	0	0.2	1	77.2	6	169.0	18	264.8	17	100.5	17	4.2	1	22.4	3	0.0	0	642.0	66.0
20	2015	3.3	2	25.3	5	28.8	5	0.1	1	0.0	0	21.2	6	183.5	18	238.1	21	159.1	14	136.9	7	13.6	2	78.8	3	888.7	84.0
21	2016	0.2	1	0.0	0	5.6	1	0.0	0	15.3	3	13.1	6	188.7	16	173.0	14	152.8	14	4.8	3	3.7	1	3.2	3	560.4	62.0
22	2017	1.8	1	20.5	2	0.1	1	0.0	0	1.1	1	0.2	1	107.3	11	286.4	15	98.5	11	11.5	6	0.0	0	0.0	0	527.4	49.0
23	2018	0.0	0	4.7	2	0.0	0	0.0	0	0.0	0	87.7	7	46.8	12	258.3	11	440.7	13	44.1	3	0.0	0	46.6	3	928.9	51.0
24	2019	0.2	1	0.0	0	0.0	0	0.0	0	0.0	0	2.4	2	153.3	10	242.2	17	263.2	13	101.3	5	142.9	7	0.7	1	906.2	56.0
25	2020	11.0	1	53.4	3	0.5	1	0.0	0	0.0	0	0.0	0	108.1	13	99.6	8	87.2	10	0.0	0	0.0	0	11.1	2	370.9	38.0
		PRECIPITACIÓN MEDIA ANUAL, VALOR MEDIO DE EVENTOS EN EL PERÍODO 1995-2015----->																								PMA	MEDIA
MEDIA		8.2	1.6	13.1	1.5	2.1	0.6	1.4	0.2	1.7	0.3	18.7	3.3	161.0	13.5	213.8	15.2	183.2	11.4	44.5	3.2	22.4	1.9	10.8	1.3	680.7	53.8

NÚMERO DE EVENTOS PROMEDIO POR MES											
E	F	M	A	M	J	J	A	S	O	N	D
1.6	1.5	0.6	0.2	0.3	3.3	13.5	15.2	11.4	3.2	1.9	1.3





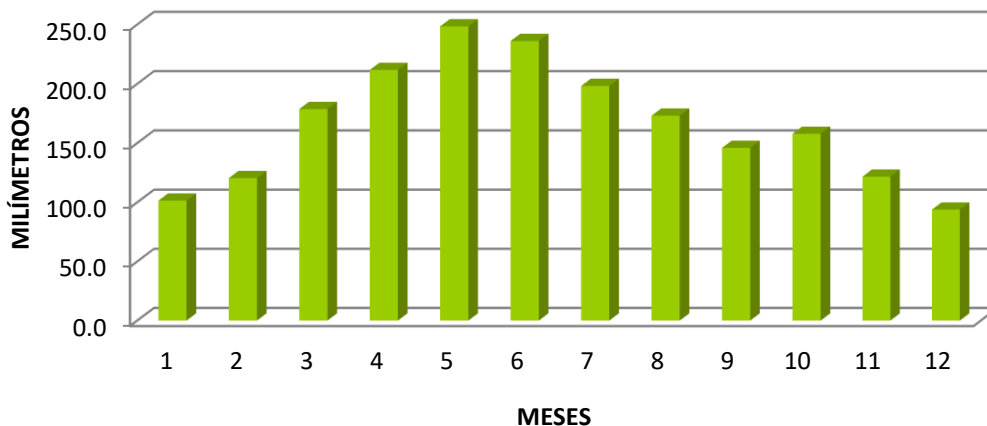
EVAPORACIÓN PROMEDIO MENSUAL, MEDIA MENSUAL, ANUAL Y MEDIA ANUAL, EN mm														
No.	AÑOS	Evaporación Promedio Mensual, en mm												EA
		ENE	FEB	MAR	ABR	MAY	JUN	JUL	AGO	SEP	OCT	NOV	DIC	
1	1995	2.8	4.2	5.2	7.0	7.4	8.3	6.4	4.0	3.8	4.5	3.7	2.8	5.0
2	1996	3.0	4.0	5.1	7.1	8.0	8.2	5.8	4.0	3.4	4.7	3.8	2.7	5.0
3	1997	2.9	3.6	5.4	5.7	7.7	8.1	5.1	4.6	3.6	3.9	3.3	2.6	4.7
4	1998	3.6	4.0	5.4	6.7	7.3	7.8	5.1	5.4	5.0	5.3	4.5	3.7	5.3
5	1999	4.0	4.6	6.3	7.8	8.5	8.2	6.0	5.9	5.5	6.2	5.6	4.2	6.1
6	2000	4.2	5.5	6.0	7.4	8.2	7.5	6.9	6.0	5.1	4.5	3.3	3.3	5.7
7	2002	3.9	5.1	6.4	7.4	9.5	9.7	8.1	6.8	4.9	4.7	4.1	3.0	6.1
8	2003	3.5	3.8	5.8	6.5	7.6	7.8	6.9	5.9	4.6	4.8	3.9	3.2	5.4
9	2004	2.6	4.1	7.1	6.7	8.3	8.3	6.2	5.7	5.2	5.1	2.8	2.2	5.4
10	2005	2.7	3.2	5.3	7.4	8.0	7.5	6.6	6.1	6.1	5.5	4.5	3.3	5.5
11	2006	3.5	4.5	5.6	7.6	8.6	9.1	6.9	6.2	5.2	5.9	4.6	3.7	6.0
12	2007	3.0	4.9	6.3	7.8	9.2	9.0	7.5	6.5	5.2	6.1	4.5	2.8	6.1
13	2008	3.7	4.8	6.5	8.3	8.8	7.8	6.8	5.4	5.3	6.1	4.6	3.9	6.0
14	2009	3.8	5.4	6.4	7.4	8.8	8.0	6.9	6.3	6.1	4.9	4.9	3.7	6.1
15	2010	3.9	4.5	6.1	7.7	9.0	8.1	6.7	6.9	4.8	6.2	5.4	3.9	6.1
16	2011	4.1	5.6	7.8	8.0	9.2	8.8	6.9	6.3	6.5	6.7	4.6	3.3	6.5
17	2012	3.8	4.4	6.4	7.5	8.3	7.1	6.6	6.0	6.1	5.5	4.6	2.7	5.8
18	2013	3.2	4.1	6.2	7.0	8.1	7.6	6.8	6.0	5.0	5.5	3.7	2.8	5.5
19	2014	3.2	4.4	5.5	6.8	7.5	7.5	5.8	5.2	4.4	4.9	3.8	3.0	5.2
20	2015	3.1	3.5	4.4	5.5	6.8	6.8	5.2	5.4	4.0	3.7	3.3	2.7	4.5
21	2016	3.1	4.0	4.8	6.4	6.2	6.3	5.2	4.6	4.5	5.1	4.3	2.8	4.8
22	2017	2.9	3.8	5.9	6.4	6.9	7.1	6.6	4.8	4.5	5.1	4.0	2.6	5.1
23	2018	3.0	3.7	5.8	7.1	7.9	6.7	6.2	5.5	4.3	4.4	3.5	2.3	5.0
24	2019	2.7	3.8	5.4	6.9	7.6	7.4	6.8	4.7	4.0	4.2	2.5	2.3	4.9
25	2020	2.3	3.3	4.4	6.6	7.8	8.3	6.0	5.8	4.3	4.5	3.3	2.0	4.9
		Evaporación Media Anual, mm----->												EMA
	EMM	3.3	4.3	5.8	7.1	8.0	7.9	6.4	5.6	4.9	5.1	4.0	3.0	5.45



**EVAPORACIÓN ACUMULADA MENSUAL, MEDIA MENSUAL, ANUAL Y MEDIA ANUAL**

No.	AÑOS	Evaporación Acumulada Mensual, mm												EAA
		ENE	FEB	MAR	ABR	MAY	JUN	JUL	AGO	SEP	OCT	NOV	DIC	
1	1995	88.1	116.6	160.3	210.8	228.4	250.0	204.4	123.4	109.3	140.8	111.4	86.4	1829.9
2	1996	92.6	115.1	159.4	214.3	248.5	246.9	179.9	124.0	101.4	142.1	115.4	83.1	1822.7
3	1997	87.2	100.9	162.5	171.0	239.2	241.7	157.8	143.2	107.0	120.9	99.3	80.6	1711.3
4	1998	111.2	112.9	166.4	202.4	226.9	233.4	153.7	166.0	148.6	163.4	134.9	113.9	1933.7
5	1999	123.1	129.5	193.9	234.4	264.0	245.4	185.6	182.0	165.1	192.9	167.5	130.6	2214.0
6	2000	131.5	149.4	185.1	220.7	255.7	216.1	208.0	186.7	154.1	140.5	99.7	101.3	2048.8
7	2002	93.0	143.8	198.4	215.4	295.1	291.7	252.2	210.2	142.5	147.0	122.4	94.2	2205.9
8	2003	108.7	107.1	174.3	189.9	234.5	233.8	215.1	176.1	132.6	150.2	120.8	99.8	1942.9
9	2004	81.7	118.2	198.2	200.4	258.5	249.5	190.7	177.5	154.6	147.0	84.3	68.6	1929.2
10	2005	82.3	90.5	159.1	221.9	224.1	223.7	203.8	189.6	184.0	171.0	134.6	101.1	1985.7
11	2006	107.7	127.2	172.8	226.5	266.0	272.3	213.8	191.2	187.2	175.9	137.4	115.6	2193.6
12	2007	94.5	137.6	196.8	234.4	285.0	269.1	233.7	200.2	157.3	188.1	134.7	87.9	2219.3
13	2008	116.0	138.0	201.7	247.8	270.9	234.7	210.2	162.6	160.2	190.4	139.1	120.1	2191.7
14	2009	116.9	151.4	197.7	222.5	271.7	240.7	214.3	194.9	183.5	152.2	146.3	115.9	2208.0
15	2010	120.5	126.3	189.0	231.1	277.6	242.3	208.5	214.6	143.3	193.3	163.5	120.1	2230.1
16	2011	128.1	156.6	240.7	239.7	285.6	265.3	215.0	196.2	196.5	208.7	138.6	103.7	2374.7
17	2012	118.7	128.8	198.0	226.0	257.1	212.0	203.3	186.2	183.9	170.3	136.8	84.9	2106.0
18	2013	100.3	113.9	191.5	210.5	250.2	229.3	210.3	187.2	138.7	170.6	112.0	86.7	2001.2
19	2014	99.8	122.4	170.1	204.7	232.2	224.4	181.2	161.7	132.2	150.4	113.4	93.6	1886.1
20	2015	97.3	96.7	137.4	164.1	209.4	205.5	160.3	167.5	119.8	113.6	98.1	82.4	1652.1
21	2016	97.5	115.8	148.1	193.5	193.2	189.3	161.7	141.5	135.4	156.8	128.6	87.7	1749.1
22	2017	91.4	107.0	183.2	193.2	213.5	212.4	203.1	150.0	136.5	158.2	121.0	80.3	1849.8
23	2018	92.3	104.9	178.6	212.7	245.0	201.6	191.7	169.1	128.4	132.7	106.3	72.2	1835.5
24	2019	84.8	106.6	168.4	206.1	235.9	222.2	210.9	147.1	118.7	128.9	76.0	72.5	1778.1
25	2020	70.7	95.2	135.6	198.2	242.7	248.7	185.5	179.1	128.7	139.5	99.8	62.8	1786.5
		Evaporación Acumulada Media Anual, mm ----->												EAMA
<b>EAMM</b>		<b>101.4</b>	<b>120.5</b>	<b>178.7</b>	<b>211.7</b>	<b>248.4</b>	<b>236.1</b>	<b>198.2</b>	<b>173.1</b>	<b>146.0</b>	<b>157.8</b>	<b>121.7</b>	<b>93.8</b>	<b>1987.4</b>

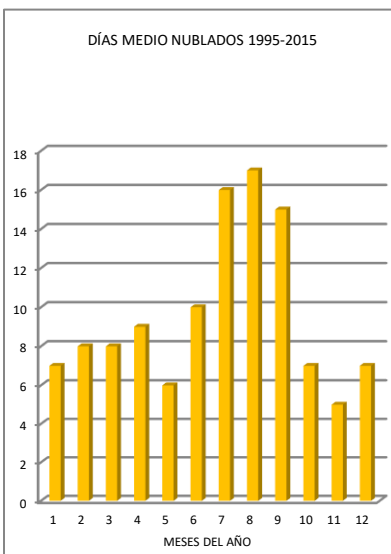
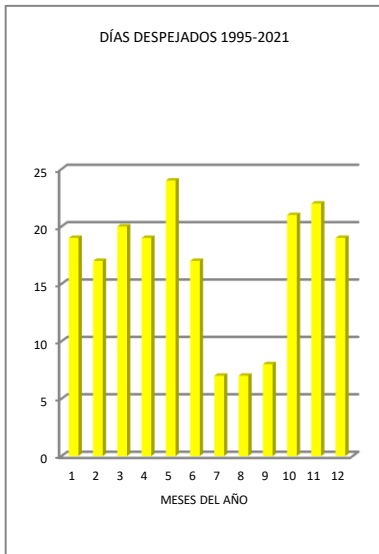
**EVAPORACIÓN MEDIA MENSUAL ACUMULADA, EN mm**



## CONDICIONES DEL CIELO

No. AÑOS	AÑOS CIELO	ENE			FEB			MAR			ABR			MAY			JUN			JUL			AGO			SEP			OCT			NOV			DIC			TOTAL		
		DES	MN	NUB	DES	MN	NUB	DES	MN	NUB	DES	MN	NUB	DES	MN	NUB	DES	MN	NUB	DES	MN	NUB	DES	MN	NUB	DES	MN	NUB	DES	MN	NUB	DES	MN	NUB	DES	MN	NUB			
1	1995	17	10	4	12	9	7	20	9	2	22	9	0	21	10	0	18	13	0	1	22	8	0	22	9	1	22	7	23	7	1	22	5	3	16	8	7	173	146	48
2	1996	25	6	0	21	8	0	23	7	1	19	11	0	25	6	0	17	13	0	3	18	10	6	12	13	6	13	11	16	13	2	22	3	5	20	8	3	203	118	45
3	1997	19	7	5	16	9	3	16	12	3	16	9	5	21	10	0	8	22	0	4	18	9	1	26	4	7	15	8	13	14	4	19	6	5	16	9	6	156	157	52
4	1998	26	5	0	17	9	2	22	7	2	26	4	0	18	11	2	12	16	2	1	14	16	1	20	10	2	21	7	15	14	2	25	4	1	19	12	0	184	137	44
5	1999	26	5	0	16	11	1	19	12	0	13	13	4	30	1	0	17	11	2	3	21	7	7	19	5	6	17	7	26	5	0	27	3	0	24	5	2	214	123	28
6	2000	22	8	1	21	8	0	17	12	2	25	3	2	29	2	0	6	20	4	12	16	3	5	21	5	14	14	2	22	4	5	13	7	10	21	7	3	207	122	37
7	2002	21	4	0	13	14	1	13	12	6	14	10	6	23	8	0	21	9	0	14	10	7	7	15	9	8	16	6	20	10	1	25	1	4	15	11	5	194	120	45
8	2003	17	6	8	9	10	9	15	10	6	6	17	7	20	10	1	22	7	1	5	13	13	5	6	20	5	8	17	18	8	5	22	5	3	19	11	1	163	111	91
9	2004	15	8	8	9	18	2	16	13	2	10	18	2	30	1	0	18	11	1	3	19	9	2	26	3	7	14	9	23	2	6	14	9	7	12	11	8	159	150	57
10	2005	9	11	11	7	11	10	15	13	3	13	14	3	20	11	0	18	6	6	3	23	5	3	22	6	4	21	5	17	11	3	26	4	0	18	11	2	153	158	54
11	2006	12	15	4	24	3	1	10	15	6	14	15	1	17	13	1	14	16	0	1	20	10	0	31	0	0	24	6	7	21	3	23	6	1	18	6	7	140	185	40
12	2007	14	5	12	19	7	2	23	6	2	23	5	2	23	8	0	15	15	0	5	21	5	12	14	5	1	21	8	20	9	2	20	7	3	14	11	6	189	129	47
13	2008	23	2	6	23	3	3	27	4	0	23	6	1	22	8	1	16	6	8	5	16	10	6	15	10	22	3	5	26	2	3	21	7	2	22	6	3	236	78	52
14	2009	18	4	9	20	8	0	14	15	2	17	13	0	20	9	2	10	11	9	0	27	4	9	13	9	5	22	3	9	14	8	18	10	2	22	5	4	162	151	52
15	2010	15	12	4	14	10	4	19	8	4	16	13	1	26	4	1	16	10	4	8	8	15	7	13	11	4	13	13	25	5	1	29	1	0	26	3	2	205	100	60
16	2011	22	6	3	27	1	0	26	4	1	16	12	2	26	4	1	25	1	4	6	17	8	12	13	6	15	11	4	25	5	1	24	4	2	16	12	3	240	90	35
17	2012	21	6	4	16	6	7	21	5	5	27	3	0	27	3	1	12	11	7	12	12	7	12	12	7	12	12	6	23	5	3	19	9	2	17	7	7	219	91	56
18	2013	15	12	4	18	7	3	24	5	2	26	4	0	24	7	0	17	9	4	15	11	5	8	18	5	5	15	10	22	4	5	11	13	6	19	8	4	204	113	48
19	2014	20	8	3	21	5	2	18	12	1	18	9	3	23	2	6	17	10	3	9	15	7	5	18	8	1	20	9	20	8	3	24	4	2	16	9	6	192	120	53
20	2015	8	11	12	19	5	4	17	8	6	14	10	6	17	10	4	15	13	2	10	16	5	11	15	5	5	17	8	15	11	5	15	7	8	15	10	6	161	133	71
21	2016	27	3	1	20	7	2	18	12	1	21	7	2	19	7	5	12	13	5	2	23	6	1	26	4	7	16	7	24	7	0	22	8	0	18	8	5	191	137	38
22	2017	20	7	4	19	8	1	26	4	1	20	8	2	25	5	1	16	12	2	4	24	3	4	20	7	19	8	3	27	3	1	30	0	0	15	6	10	225	105	35
23	2018	26	1	4	12	8	8	27	2	2	26	2	2	28	3	0	22	2	6	15	10	6	21	5	5	14	9	7	24	1	6	27	2	1	21	0	10	263	45	57
24	2019	22	4	5	22	4	2	25	1	5	26	4	0	27	3	1	23	2	5	15	13	3	12	11	8	16	7	7	25	3	3	17	4	9	26	1	4	256	57	52
25	2020	21	3	7	22	1	6	19	2	10	25	0	5	28	0	3	28	0	2	20	5	6	22	5	4	17	7	6	30	0	1	29	0	1	27	1	3	288	24	54
<b>MEDIA</b>		<b>19</b>	<b>7</b>	<b>5</b>	<b>17</b>	<b>8</b>	<b>3</b>	<b>20</b>	<b>8</b>	<b>3</b>	<b>19</b>	<b>9</b>	<b>2</b>	<b>24</b>	<b>6</b>	<b>1</b>	<b>17</b>	<b>10</b>	<b>3</b>	<b>7</b>	<b>16</b>	<b>7</b>	<b>7</b>	<b>17</b>	<b>7</b>	<b>8</b>	<b>15</b>	<b>7</b>	<b>21</b>	<b>7</b>	<b>3</b>	<b>22</b>	<b>5</b>	<b>3</b>	<b>19</b>	<b>7</b>	<b>5</b>	<b>199</b>	<b>116</b>	<b>50</b>

Días con cielo despejado	Días con cielo medio nublado	Días con cielo nublado
19 17 20 19 24 14 17 7 7 8 21 22 19	7 8 8 9 6 10 16 17 15 7 5 7	5 3 3 2 1 3 7 7 7 3 3 5



## COMPARACIÓN TEMPERATURA Y PRECIPITACIÓN EN DOS PERÍODOS

TEMPERTURA Y PRECIPITACION MEDIA MENSUAL PERIODO 1921-1980												TMA	CLIMA
E	F	M	A	M	J	J	A	S	O	N	D	PMA	
19.4	20.3	21.6	24.1	26.8	29.3	29.3	28.7	28.4	27.3	23.5	20.4	24.9	$BS_{1(m)}w(w)(e)$
17.4	10.1	4.8	1.6	1.6	29.1	155.4	203.1	142.7	49.2	15.3	41.4	671.7	
Cociente Precipitación Temperatura Media Anual												26.9	
Porentaje de precipitaion invernial con respeto al total anual												4.8	
Ocilación Térmica Anual												9.9	

Fuente: García, E. 1988. Modificaciones al Sistema de Clasificación Climática de Koppen. UNAM, Ciudad de México

TEMPERTURA Y PRECIPITACION MEDIA MENSUAL PERIODO 1995-2020												TMA	CLIMA
E	F	M	A	M	J	J	A	S	O	N	D	PMA	
20.86	21.556	22.892	24.788	27.684	30.456	30.624	30.172	29.772	28.88	25.2	21.384	26.2	$BS_{1(m)}w(w)(e)$
8.152	13.068	2.06	1.424	1.72	18.716	160.96	213.76	183.18	44.524	22.368	10.824	680.76	
Cociente Precipitación Temperatura Media Anual												26.0	
Porentaje de precipitaion invernial con respeto al total anual												3.4	
Ocilación Térmica Anual												9.8	

Fuente: Salomón, M. B., Márquez, S. G. y Sánchez, B. R. 2021. Medición y Observación de Datos Climtológicos en la Facultad de Biología. Facultad de Biología, Universidad Autónoma de Sinaloa. Culiacán, Sinaloa.