

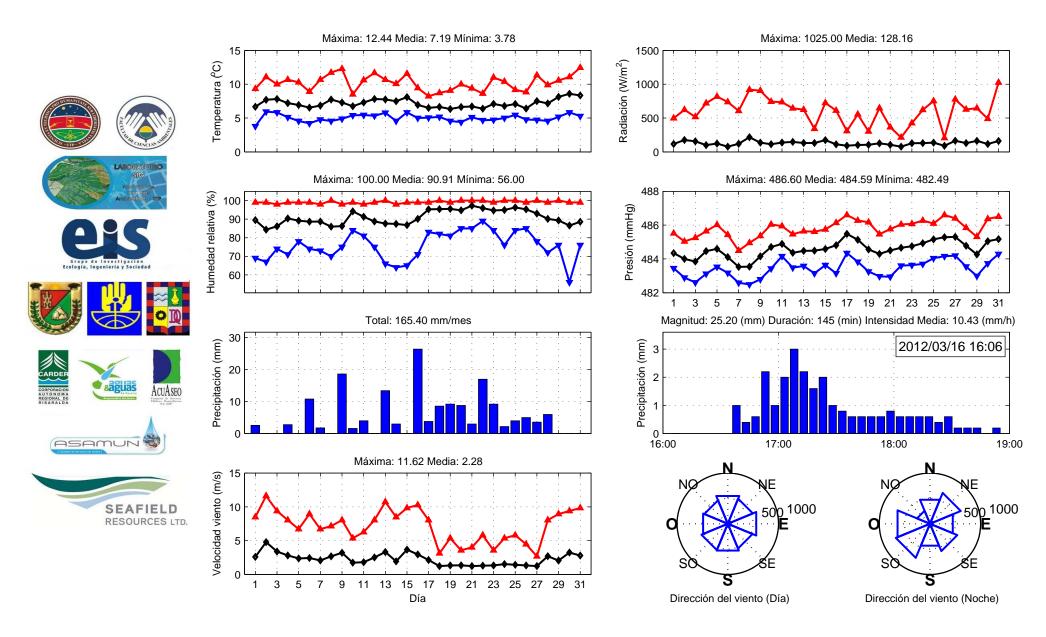
Estación: Cortaderal Fecha: Marzo de 2012 Registros: 31 de 31 Reporte climatológico mensual

Red Hidroclimatológica del Departamento de Risaralda

Revisó: Adm. Ambiental Victor Manuel Bermúdez Marín. Operador REDH

Aprobó: Ing Ph.D. Juan Mauricio Castaño Rojas. Director REDH.

Contáctenos: http://www.utp.edu.co/hidroclimatologica



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Reporte climatológico mensual

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Día         (°C)           Máx         Media           1         9.33         6.66           2         11.06         7.69           3         10.00         7.82           4         10.67         7.20           5         10.28         6.93           6         8.89         6.52           7         10.67         6.84           8         11.72         7.73           9         12.28         7.28           10         8.50         6.75           11         10.61         7.31           12         11.67         7.82           13         10.67         7.74           14         10.06         7.48           15         11.56         8.09           16         9.44         6.93           17         8.22         6.50           18         8.72         6.65           19         9.06         6.34           20         10.00         6.63           21         9.39         6.71           22         8.61         6.39           23         11.00         7.09      <	3.78 5.94 5.83 5.11 4.56 4.22 4.78 4.56 4.89 5.39 5.44 5.33 5.78 4.56	(m Máx 8.49 11.62 9.39 8.05 6.71 7.15 8.05 5.36 6.26 8.05 10.73 8.49 9.83	Media  2.61  4.79  3.40  2.81  2.38  2.44  2.07  2.69  3.20  1.75  1.81  2.52  3.32  1.95	(mmHg) Media  484.34 484.00 483.84 484.46 484.59 484.11 483.53 483.54 484.16 484.70 484.89 484.36 484.47	(%) Media  89.49 84.32 86.11 90.38 89.18 88.62 88.70 85.95 86.23 94.20 91.30 88.79 87.62	(mm) Total  2.60 0.00 0.00 2.80 0.00 10.80 1.80 0.00 18.60 1.60 4.00 0.00 13.40	(mm) Total 0.76 1.63 1.19 0.74 0.74 0.51 0.66 1.47 1.07 0.56 0.79 1.02	(W/r Máx 497.00 622.00 517.00 719.00 817.00 605.00 919.00 904.00 742.00 735.00 643.00	Media  116.16  175.14  155.36  99.24  122.83  76.05  119.93  215.88  135.32  112.48  137.95
1         9.33         6.66           2         11.06         7.69           3         10.00         7.82           4         10.67         7.20           5         10.28         6.93           6         8.89         6.52           7         10.67         6.84           8         11.72         7.73           9         12.28         7.28           10         8.50         6.75           11         10.61         7.31           12         11.67         7.82           13         10.67         7.74           14         10.06         7.48           15         11.56         8.09           16         9.44         6.93           17         8.22         6.50           18         8.72         6.65           19         9.06         6.34           20         10.00         6.63           21         9.39         6.71           22         8.61         6.39           23         11.00         7.09	3.78 5.94 5.83 5.11 4.56 4.22 4.78 4.56 4.89 5.39 5.44 5.33 5.78 4.56	8.49 11.62 9.39 8.05 6.71 8.94 6.71 7.15 8.05 5.36 6.26 8.05 10.73 8.49	2.61 4.79 3.40 2.81 2.38 2.44 2.07 2.69 3.20 1.75 1.81 2.52 3.32 1.95	484.34 484.00 483.84 484.46 484.59 484.11 483.53 483.54 484.70 484.89 484.36 484.47	89.49 84.32 86.11 90.38 89.18 88.62 88.70 85.95 86.23 94.20 91.30 88.79 87.62	2.60 0.00 0.00 2.80 0.00 10.80 1.80 0.00 18.60 1.60 4.00 0.00	0.76 1.63 1.19 0.74 0.74 0.51 0.66 1.47 1.07 0.56 0.79	497.00 622.00 517.00 719.00 817.00 737.00 605.00 919.00 904.00 742.00 735.00 643.00	116.16 175.14 155.36 99.24 122.83 76.05 119.93 215.88 135.32 112.48 137.95
2         11.06         7.69           3         10.00         7.82           4         10.67         7.20           5         10.28         6.93           6         8.89         6.52           7         10.67         6.84           8         11.72         7.73           9         12.28         7.28           10         8.50         6.75           11         10.61         7.31           12         11.67         7.82           13         10.67         7.74           14         10.06         7.48           15         11.56         8.09           16         9.44         6.93           17         8.22         6.50           18         8.72         6.65           19         9.06         6.34           20         10.00         6.63           21         9.39         6.71           22         8.61         6.39           23         11.00         7.09	5.94 5.83 5.11 4.56 4.22 4.78 4.56 4.89 5.39 5.44 5.33 5.78 4.56	11.62 9.39 8.05 6.71 8.94 6.71 7.15 8.05 5.36 6.26 8.05 10.73 8.49	4.79 3.40 2.81 2.38 2.44 2.07 2.69 3.20 1.75 1.81 2.52 3.32 1.95	484.00 483.84 484.46 484.59 484.11 483.53 483.54 484.16 484.70 484.89 484.36 484.47	84.32 86.11 90.38 89.18 88.62 88.70 85.95 86.23 94.20 91.30 88.79 87.62	0.00 0.00 2.80 0.00 10.80 1.80 0.00 18.60 1.60 4.00 0.00	1.63 1.19 0.74 0.74 0.51 0.66 1.47 1.07 0.56 0.79 1.02	622.00 517.00 719.00 817.00 605.00 919.00 904.00 742.00 735.00 643.00	175.14 155.36 99.24 122.83 76.05 119.93 215.88 135.32 112.48 137.95
3         10.00         7.82           4         10.67         7.20           5         10.28         6.93           6         8.89         6.52           7         10.67         6.84           8         11.72         7.73           9         12.28         7.28           10         8.50         6.75           11         10.61         7.31           12         11.67         7.82           13         10.67         7.74           14         10.06         7.48           15         11.56         8.09           16         9.44         6.93           17         8.22         6.50           18         8.72         6.65           19         9.06         6.34           20         10.00         6.63           21         9.39         6.71           22         8.61         6.39           23         11.00         7.09	5.83 5.11 4.56 4.22 4.78 4.56 4.89 5.39 5.44 5.33 5.78 4.56	9.39 8.05 6.71 8.94 6.71 7.15 8.05 5.36 6.26 8.05 10.73 8.49	3.40 2.81 2.38 2.44 2.07 2.69 3.20 1.75 1.81 2.52 3.32 1.95	483.84 484.46 484.59 484.11 483.53 483.54 484.16 484.70 484.89 484.36 484.47	86.11 90.38 89.18 88.62 88.70 85.95 86.23 94.20 91.30 88.79 87.62	0.00 2.80 0.00 10.80 1.80 0.00 18.60 1.60 4.00 0.00	1.19 0.74 0.74 0.51 0.66 1.47 1.07 0.56 0.79 1.02	517.00 719.00 817.00 737.00 605.00 919.00 904.00 742.00 735.00 643.00	155.36 99.24 122.83 76.05 119.93 215.88 135.32 112.48 137.95
4         10.67         7.20           5         10.28         6.93           6         8.89         6.52           7         10.67         6.84           8         11.72         7.73           9         12.28         7.28           10         8.50         6.75           11         10.61         7.31           12         11.67         7.82           13         10.67         7.74           14         10.06         7.48           15         11.56         8.09           16         9.44         6.93           17         8.22         6.50           18         8.72         6.65           19         9.06         6.34           20         10.00         6.63           21         9.39         6.71           22         8.61         6.39           23         11.00         7.09	5.11 4.56 4.22 4.78 4.56 4.89 5.39 5.44 5.33 5.78 4.56	8.05 6.71 8.94 6.71 7.15 8.05 5.36 6.26 8.05 10.73 8.49	2.81 2.38 2.44 2.07 2.69 3.20 1.75 1.81 2.52 3.32 1.95	484.46 484.59 484.11 483.53 483.54 484.16 484.70 484.89 484.36 484.47	90.38 89.18 88.62 88.70 85.95 86.23 94.20 91.30 88.79 87.62	2.80 0.00 10.80 1.80 0.00 18.60 1.60 4.00 0.00	0.74 0.74 0.51 0.66 1.47 1.07 0.56 0.79 1.02	719.00 817.00 737.00 605.00 919.00 904.00 742.00 735.00 643.00	99.24 122.83 76.05 119.93 215.88 135.32 112.48 137.95
5         10.28         6.93           6         8.89         6.52           7         10.67         6.84           8         11.72         7.73           9         12.28         7.28           10         8.50         6.75           11         10.61         7.31           12         11.67         7.82           13         10.67         7.74           14         10.06         7.48           15         11.56         8.09           16         9.44         6.93           17         8.22         6.50           18         8.72         6.65           19         9.06         6.34           20         10.00         6.63           21         9.39         6.71           22         8.61         6.39           23         11.00         7.09	4.56 4.22 4.78 4.56 4.89 5.39 5.44 5.33 5.78 4.56	6.71 8.94 6.71 7.15 8.05 5.36 6.26 8.05 10.73 8.49	2.38 2.44 2.07 2.69 3.20 1.75 1.81 2.52 3.32 1.95	484.59 484.11 483.53 483.54 484.16 484.70 484.89 484.36 484.47	89.18 88.62 88.70 85.95 86.23 94.20 91.30 88.79 87.62	0.00 10.80 1.80 0.00 18.60 1.60 4.00 0.00	0.74 0.51 0.66 1.47 1.07 0.56 0.79 1.02	817.00 737.00 605.00 919.00 904.00 742.00 735.00 643.00	122.83 76.05 119.93 215.88 135.32 112.48 137.95
6         8.89         6.52           7         10.67         6.84           8         11.72         7.73           9         12.28         7.28           10         8.50         6.75           11         10.61         7.31           12         11.67         7.82           13         10.67         7.74           14         10.06         7.48           15         11.56         8.09           16         9.44         6.93           17         8.22         6.50           18         8.72         6.65           19         9.06         6.34           20         10.00         6.63           21         9.39         6.71           22         8.61         6.39           23         11.00         7.09	4.22 4.78 4.56 4.89 5.39 5.44 5.33 5.78 4.56	8.94 6.71 7.15 8.05 5.36 6.26 8.05 10.73 8.49	2.44 2.07 2.69 3.20 1.75 1.81 2.52 3.32 1.95	484.11 483.53 483.54 484.16 484.70 484.89 484.36 484.47	88.62 88.70 85.95 86.23 94.20 91.30 88.79 87.62	10.80 1.80 0.00 18.60 1.60 4.00 0.00	0.51 0.66 1.47 1.07 0.56 0.79 1.02	737.00 605.00 919.00 904.00 742.00 735.00 643.00	76.05 119.93 215.88 135.32 112.48 137.95
7         10.67         6.84           8         11.72         7.73           9         12.28         7.28           10         8.50         6.75           11         10.61         7.31           12         11.67         7.82           13         10.67         7.74           14         10.06         7.48           15         11.56         8.09           16         9.44         6.93           17         8.22         6.50           18         8.72         6.65           19         9.06         6.34           20         10.00         6.63           21         9.39         6.71           22         8.61         6.39           23         11.00         7.09	4.78 4.56 4.89 5.39 5.44 5.33 5.78 4.56	6.71 7.15 8.05 5.36 6.26 8.05 10.73 8.49	2.07 2.69 3.20 1.75 1.81 2.52 3.32 1.95	483.53 483.54 484.16 484.70 484.89 484.36 484.47	88.70 85.95 86.23 94.20 91.30 88.79 87.62	1.80 0.00 18.60 1.60 4.00 0.00	0.66 1.47 1.07 0.56 0.79 1.02	605.00 919.00 904.00 742.00 735.00 643.00	119.93 215.88 135.32 112.48 137.95
8         11.72         7.73           9         12.28         7.28           10         8.50         6.75           11         10.61         7.31           12         11.67         7.82           13         10.67         7.74           14         10.06         7.48           15         11.56         8.09           16         9.44         6.93           17         8.22         6.50           18         8.72         6.65           19         9.06         6.34           20         10.00         6.63           21         9.39         6.71           22         8.61         6.39           23         11.00         7.09	4.56 4.89 5.39 5.44 5.33 5.78 4.56	7.15 8.05 5.36 6.26 8.05 10.73 8.49	2.69 3.20 1.75 1.81 2.52 3.32 1.95	483.54 484.16 484.70 484.89 484.36 484.47	85.95 86.23 94.20 91.30 88.79 87.62	0.00 18.60 1.60 4.00 0.00	1.47 1.07 0.56 0.79 1.02	919.00 904.00 742.00 735.00 643.00	215.88 135.32 112.48 137.95
9 12.28 7.28 10 8.50 6.75 11 10.61 7.31 12 11.67 7.82 13 10.67 7.74 14 10.06 7.48 15 11.56 8.09 16 9.44 6.93 17 8.22 6.50 18 8.72 6.65 19 9.06 6.34 20 10.00 6.63 21 9.39 6.71 22 8.61 6.39 23 11.00 7.09	4.89 5.39 5.44 5.33 5.78 4.56	8.05 5.36 6.26 8.05 10.73 8.49	3.20 1.75 1.81 2.52 3.32 1.95	484.16 484.70 484.89 484.36 484.47	86.23 94.20 91.30 88.79 87.62	18.60 1.60 4.00 0.00	1.07 0.56 0.79 1.02	904.00 742.00 735.00 643.00	135.32 112.48 137.95
10         8.50         6.75           11         10.61         7.31           12         11.67         7.82           13         10.67         7.74           14         10.06         7.48           15         11.56         8.09           16         9.44         6.93           17         8.22         6.50           18         8.72         6.65           19         9.06         6.34           20         10.00         6.63           21         9.39         6.71           22         8.61         6.39           23         11.00         7.09	5.39 5.44 5.33 5.78 4.56	5.36 6.26 8.05 10.73 8.49	1.75 1.81 2.52 3.32 1.95	484.70 484.89 484.36 484.47	94.20 91.30 88.79 87.62	1.60 4.00 0.00	0.56 0.79 1.02	742.00 735.00 643.00	112.48 137.95
11         10.61         7.31           12         11.67         7.82           13         10.67         7.74           14         10.06         7.48           15         11.56         8.09           16         9.44         6.93           17         8.22         6.50           18         8.72         6.65           19         9.06         6.34           20         10.00         6.63           21         9.39         6.71           22         8.61         6.39           23         11.00         7.09	5.44 5.33 5.78 4.56	6.26 8.05 10.73 8.49	1.81 2.52 3.32 1.95	484.89 484.36 484.47	91.30 88.79 87.62	4.00 0.00	0.79 1.02	735.00 643.00	137.95
12         11.67         7.82           13         10.67         7.74           14         10.06         7.48           15         11.56         8.09           16         9.44         6.93           17         8.22         6.50           18         8.72         6.65           19         9.06         6.34           20         10.00         6.63           21         9.39         6.71           22         8.61         6.39           23         11.00         7.09	5.33 5.78 4.56	8.05 10.73 8.49	2.52 3.32 1.95	484.36 484.47	88.79 87.62	0.00	1.02	643.00	
13         10.67         7.74           14         10.06         7.48           15         11.56         8.09           16         9.44         6.93           17         8.22         6.50           18         8.72         6.65           19         9.06         6.34           20         10.00         6.63           21         9.39         6.71           22         8.61         6.39           23         11.00         7.09	5.78 4.56	10.73 8.49	3.32 1.95	484.47	87.62				4 4 - 60
14         10.06         7.48           15         11.56         8.09           16         9.44         6.93           17         8.22         6.50           18         8.72         6.65           19         9.06         6.34           20         10.00         6.63           21         9.39         6.71           22         8.61         6.39           23         11.00         7.09	4.56	8.49	1.95	1		13.40			147.61
15         11.56         8.09           16         9.44         6.93           17         8.22         6.50           18         8.72         6.65           19         9.06         6.34           20         10.00         6.63           21         9.39         6.71           22         8.61         6.39           23         11.00         7.09				484.49	0 = 4 =		1.07	624.00	129.98
16         9.44         6.93           17         8.22         6.50           18         8.72         6.65           19         9.06         6.34           20         10.00         6.63           21         9.39         6.71           22         8.61         6.39           23         11.00         7.09		9.83	2.67		87.45	3.00	0.81	341.00	130.30
17         8.22         6.50           18         8.72         6.65           19         9.06         6.34           20         10.00         6.63           21         9.39         6.71           22         8.61         6.39           23         11.00         7.09	5.83	1	3.67	484.59	86.80	0.00	1.35	724.00	172.84
18         8.72         6.65           19         9.06         6.34           20         10.00         6.63           21         9.39         6.71           22         8.61         6.39           23         11.00         7.09	5.00	10.28	2.96	484.81	90.14	26.40	0.73	610.00	110.66
19         9.06         6.34           20         10.00         6.63           21         9.39         6.71           22         8.61         6.39           23         11.00         7.09	5.06	8.05	2.15	485.48	95.29	3.80	0.51	308.00	90.99
20 10.00 6.63 21 9.39 6.71 22 8.61 6.39 23 11.00 7.09	5.17	3.13	1.24	485.13	95.38	8.60	0.51	555.00	101.44
21 9.39 6.71 22 8.61 6.39 23 11.00 7.09	4.56	5.36	1.33	484.56	95.51	9.20	0.53	301.00	103.84
22 8.61 6.39 23 11.00 7.09	4.39	3.58	1.35	484.30	94.74	8.80	0.64	647.00	126.11
23 11.00 7.09	5.11	4.02	1.24	484.50	97.28	3.00	0.46	364.00	104.95
	4.67	5.81	1.31	484.66	95.93	17.00	0.41	213.00	75.75
24 10.39 6.77	4.72	3.58	1.33	484.75	94.68	9.20	0.69	424.00	127.20
	5.00	5.36	1.54	484.93	94.95	2.20	0.64	621.00	129.01
25 9.17 7.07	5.44	5.81	1.43	485.16	96.30	4.00	0.76	751.00	136.11
26 8.83 6.41	4.78	4.47	1.34	485.28	95.25	5.00	0.46	204.00	90.10
27 11.33 7.49	4.72	2.68	1.25	485.30	93.00	3.60	0.91	777.00	163.27
28 9.89 7.16	4.56	8.05	2.71	484.77	90.12	6.00	0.74	626.00	128.62
29 10.56 8.13	5.17	8.94	2.07	484.26	89.32	0.00	1.05	645.00	161.98
30 11.06 8.58		9.39	3.24	485.04	86.55	0.00	1.09	489.00	115.29
31 12.44 8.34	5.83	9.83	2.81	485.17	88.61	0.00	1.12	1025.00	160.56
TOTAL	5.83 5.28					165.40	25.62		
PROM 10.20 7.19		7.17	2.28	484.59	90.91			603.42	128.16

Cuadro 1: Resúmen de análisis climatológico

Estación: Cortaderal Fecha: Marzo de 2012 Registros: 31 de 31

Reporte climatológico mensual

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	Lluvias por		Lluvias por			PT	рт	DP		DM	MM	IMM	IM5			
Día		inten	sidad			jorn	ada		CLL	(mm)			(min)	(mm)	(mm/h)	(mm/h)
	F	M	L	LL	Md	Mñ	T	N		(11111)	(h)	(%)	(111111)	(11111)	(11111/11)	(111111/11)
1	0	0	1	0	0	0	1	0	1	2.60	0.75	3.13	65.00	2.60	2.23	4.80
2	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4	0	2	0	0	0	0	2	0	2	2.80	0.50	2.08	30.00	2.20	3.77	12.00
5	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6	1	0	3	0	0	0	4	0	4	10.80	1.33	5.56	65.00	9.80	8.40	28.80
7	0	0	2	1	0	0	3	0	3	1.80	0.75	3.13	85.00	1.40	0.93	2.40
8	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9	0	1	1	1	0	0	2	1	3	18.60	3.33	13.89	205.00	17.60	5.03	26.40
10	0	0	5	0	1	0	2	2	5	1.60	0.58	2.43	15.00	0.60	1.80	4.80
11	0	1	4	1	2	0	4	0	6	4.00	1.25	5.21	25.00	1.60	3.20	9.60
12	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
13	1	0	3	1	1	0	4	0	5	13.40	2.00	8.33	55.00	10.40	10.40	26.40
14	0	1	1	0	0	0	2	0	2	3.00	0.83	3.47	55.00	2.40	2.40	7.20
15	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
16	1	0	3	1	0	0	1	4	5	26.40	2.75	11.46	145.00	25.20	10.08	36.00
17	0	0	5	0	3	0	0	2	5	3.80	1.33	5.56	65.00	1.60	1.37	4.80
18	0	1	5	0	0	1	2	3	6	8.60	2.67	11.11	115.00	3.20	1.60	7.20
19	0	0	9	0	3	5	1	0	9	9.20	3.33	13.89	190.00	7.60	2.34	7.20
20	0	2	1	0	0	1	2	0	3	8.80	2.17	9.03	125.00	7.00	3.23	12.00
21	0	0	8	1	0	0	5	4	9	3.00	1.25	5.21	30.00	0.80	1.37	2.40
22	0	1	3	1	1	2	2	0	5	17.00	3.42	14.24	210.00	15.80	4.41	31.20
23	0	2	4	0	1	0	4	1	6	9.20	2.67	11.11	70.00	3.00	2.40	9.60
24	0	0	5	0	2	2	1	0	5	2.20	0.92	3.82	30.00	0.80	1.37	2.40
25	0	1	3	1	0	1	3	1	5	4.00	1.25	5.21	50.00	2.40	2.62	7.20
26	0	0	5	0	1	2	2	0	5	5.00	1.92	7.99	115.00	3.20	1.60	4.80
27	0	0	4	1	0	0	4	1	5	3.60	1.33	5.56	75.00	2.00	1.50	7.20
28	0	2	1	0	0	1	1	1	3	6.00	1.08	4.51	45.00	3.00	3.60	7.20
29	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
30	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
31	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
MAX	1	2	9	1	3	5	5	4	9	26.40	3.42	14.24	210.00	25.20	10.40	36.00
TOTAL	3	14	76	9	15	15	52	20	102	165.40	37.42	5.03				

Cuadro 1: Análisis mensual de lluvias

F	Fuerte	$7.6 \text{ (mm/h)} \leq \text{intensidad}$
M	Moderada	$2.5 \text{ (mm/h)} < \text{intensidad} \le 7.6 \text{ (mm/h)}$
L	Ligera	$1.0 \text{ (mm/h)} < \text{intensidad} \le 2.5 \text{ (mm/h)}$
LL	Llovizna	$1.0 \text{ (mm/h)} \ge \text{intensidad}$

Md	Madrugada	00:00 - 05:59
Mñ	Mañana	06:00 - 11:59
T	Tarde	12:00 - 17:59
N	Noche	18:00 - 23:59

CLL	Cantidad de Lluvias
PT	Precipitación total (mm)
DP	Duración precipitacion diaria
DM	Duración máxima lluvia aislada (min)
MM	Magnitud máx. lluvia aislada (mm)
IMM	Intensidad media máxima (mm/h)
IM5	Intensidad máx. en 5 minutos (mm/h)