



2018-2-66-0-15-LP-013744. "DISEÑO Y CONSTRUCCIÓN DE MEJORAS AL SISTEMA DE ABASTECIMIENTO DE AGUA POTABLE DE SAN CARLOS – DISTRITO DE SAN CARLOS. PROVINCIA DE PANAMÁ OESTE

Total Mensual				12.3	46.2
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Mayo 2014							
Día	Temperaturas (°C)			Lluvia Diaria mm (litros/m²)			
	Máxima	Mínima	Promedio	Mes Actual	Acum. Actual	Promedio Histórico	Acum. Promedio Histórico
1				0.1	0.1	5.0	5.0
2				0.0	0.1	3.0	8.0
3				0.0	0.1	2.1	10.1
4				0.0	0.1	3.7	13.8
5				0.0	0.1	4.8	18.6
6				0.0	0.1	4.9	23.5
7				0.0	0.1	3.1	26.6
8				0.0	0.1	4.7	31.3
9				3.7	3.8	1.6	32.9
10				4.3	8.1	3.0	35.9
11				1.0	9.1	4.9	40.8
12				10.4	19.5	5.3	46.1
13						4.1	50.2
14						1.6	51.8
15				0.1	19.6	6.5	58.3
16				0.0	19.6	4.7	63.0
17				0.0	19.6	7.0	70.0
18				0.0	19.6	7.6	77.6
19				0.0	19.6	6.4	84.0
20				0.0	19.6	6.9	90.9
21	35.0	26.0	30.5	0.0	19.6	8.9	99.8
22				0.0	19.6	5.5	105.3
23				0.0	19.6	5.6	110.9
24	35.7	26.1	30.9	0.1	19.7	9.5	120.4
25	37.2	26.6	31.9	9.4	29.1	13.0	133.4
26				0.0	29.1	7.0	140.4
27				4.9	34.0	5.9	146.3
28				13.8	47.8	4.0	150.3
29				8.2	56.0	9.8	160.1
30				0.0	56.0	5.7	165.8
31				0.3	56.3	5.4	171.2
Promedio	36.0	26.2	31.1	1.9		5.5	
Extremo	37.2	26	31.9	13.8		13.0	



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Total Mensual				56.3		171.2
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Junio 2014							
Día	Temperaturas (°C)			Lluvia Diaria mm (litros/m²)			
	Máxima	Mínima	Promedio	Mes Actual	Acum. Actual	Promedio Histórico	Acum. Promedio Histórico
1				15.2	15.2	4.9	4.9
2				3.5	18.7	7.7	12.6
3	34.9	26.2	30.6	1.3	20.0	8.9	21.5
4				0.0	20.0	5.6	27.1
5				5.4	25.4	5.4	32.5
6						7.3	39.8
7						6.1	45.9
8	35.6	25.9	30.8	6.7	32.1	8.2	54.1
9	34.5	25.9	30.2	5.0	37.1	10.5	64.6
10	34.3	26.4	30.4	16.8	53.9	4.2	68.8
11	35.1	26.3	30.7	0.2	54.1	9.1	77.9
12				0.1	54.2	10.2	88.1
13				13.5	67.7	2.7	90.8
14				20.9	88.6	5.9	96.7
15	35.7	25.1	30.4	0.0	88.6	6.7	103.4
16						3.7	107.1
17						10.8	117.9
18				0.0	88.6	5.1	123.0
19				0.2	88.8	6.9	129.9
20				3.2	92.0	4.3	134.2
21						5.2	139.4
22						5.1	144.5
23						5.8	150.3
24						7.6	157.9
25				0.0	92.0	7.2	165.1
26				0.2	92.2	3.3	168.4
27				0.0	92.2	5.4	173.8
28						6.2	180.0
29				0.1	92.3	3.6	183.6
30				4.3	96.6	6.3	189.9
Promedio	35.0	26.0	30.5	4.6		6.3	
Extremo	35.7	25.1	30.8	20.9		10.8	



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Total Mensual				96.6		189.9
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Julio 2014							
Día	Temperaturas (°C)			Lluvia Diaria mm (litros/m²)			
	Máxima	Mínima	Promedio	Mes Actual	Acum. Actual	Promedio Histórico	Acum. Promedio Histórico
1	33.5	26.2	29.9	1.4	1.4	3.8	3.8
2		25.2		2.8	4.2	4.8	8.6
3				0.0	4.2	5.2	13.8
4				0.0	4.2	7.9	21.7
5				0.2	4.4	5.2	26.9
6				3.4	7.8	4.4	31.3
7				0.0	7.8	3.8	35.1
8				0.4	8.2	7.5	42.6
9				0.0	8.2	5.2	47.8
10				0.0	8.2	9.0	56.8
11				0.1	8.3	8.6	65.4
12						10.4	75.8
13						2.6	78.4
14						3.8	82.2
15				0.1	8.4	5.7	87.9
16				0.0	8.4	4.9	92.8
17	34.6	28.1	31.4	0.0	8.4	3.2	96.0
18	30.5	24.1	27.3	2.2	10.6	5.1	101.1
19	35.5	23.6	29.6	0.0	10.6	5.1	106.2
20				0.0	10.6	6.0	112.2
21				0.2	10.8	6.7	118.9
22				0.0	10.8	6.3	125.2
23				0.0	10.8	8.0	133.2
24				0.0	10.8	3.3	136.5
25						4.9	141.4
26						5.0	146.4
27	31.4	24.1	27.8	4.4	15.2	7.6	154.0
28						5.2	159.2
29						7.3	166.5
30				0.3	15.5	2.9	169.4
31				0.0	15.5	2.9	172.3
Promedio	33.1	25.2	29.2	0.6		5.6	
Extremo	35.5	23.6	31.4	4.4		10.4	



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Total Mensual				15.5	172.3
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Agosto 2014							
Día	Temperaturas (°C)			Lluvia Diaria mm (litros/m²)			
	Máxima	Mínima	Promedio	Mes Actual	Acum. Actual	Promedio Histórico	Acum. Promedio Histórico
1				1.8	1.8	6.0	6.0
2				27.8	29.6	5.5	11.5
3				0.0	29.6	4.3	15.8
4				0.5	30.1	6.1	21.9
5	32.8	24.1	28.5	0.0	30.1	7.6	29.5
6	33.6	23.0	28.3	0.1	30.2	5.9	35.4
7	28.7	22.4	25.5	0.8	31.0	7.4	42.8
8	32.3	21.1	26.7	0.4	31.4	3.4	46.2
9	33.9	21.8	27.9	0.1	31.5	6.1	52.3
10	34.1	23.0	28.6	6.2	37.7	5.3	57.6
11	33.6	21.7	27.7	0.0	37.7	7.2	64.8
12	32.3	22.1	27.2	1.5	39.2	9.1	73.9
13	31.6	23.5	27.6	2.6	41.8	7.8	81.7
14	35.0	23.6	29.3	0.0	41.8	5.6	87.3
15	36.1	24.1	30.1	3.0	44.8	7.8	95.1
16	33.5	23.1	28.3	0.0	44.8	7.6	102.7
17	34.3	22.8	28.6	8.4	53.2	4.4	107.1
18	29.5	21.4	25.5	39.3	92.5	4.3	111.4
19	33.2	21.5	27.4	1.8	94.3	5.5	116.9
20	32.7	22.2	27.5	0.0	94.3	5.5	122.4
21	32.7	24.0	28.4	0.0	94.3	7.8	130.2
22	32.0	24.0	28.0	0.1	94.4	5.9	136.1
23	31.7	24.8	28.3	4.6	99.0	8.3	144.4
24	31.8	23.8	27.8	0.0	99.0	4.5	148.9
25	34.1	24.7	29.4	7.2	106.2	6.5	155.4
26	33.0	22.4	27.7	1.0	107.2	8.2	163.6
27	30.8	23.7	27.3	0.1	107.3	7.6	171.2
28	33.2	24.0	28.6	0.0	107.3	4.2	175.4
29	35.0	23.8	29.4	0.0	107.3	4.2	179.6
30	37.0	24.1	30.6	0.0	107.3	5.2	184.8
31	38.5	27.9	33.2	0.0	107.3	8.7	193.5
Promedio	33.2	23.3	28.3	3.5		6.2	
Extremo	38.5	21.1	33.2	39.3		9.1	



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Total Mensual				107.3	193.5
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Septiembre 2014							
Día	Temperaturas (°C)			Lluvia Diaria mm (litros/m²)			
	Máxima	Mínima	Promedio	Mes Actual	Acum. Actual	Promedio Histórico	Acum. Promedio Histórico
1	38.2	26.9	32.6	0.0	0.0	6.4	6.4
2	32.8	26.9	29.9	0.0	0.0	8.8	15.2
3				0.0	0.0	4.6	19.8
4	36.6	24.7	30.7	0.1	0.1	4.8	24.6
5	35.1	23.4	29.3	0.7	0.8	8.5	33.1
6	35.1	23.4	29.3	0.0	0.8	7.9	41.0
7	34.7	24.2	29.5	0.0	0.8	5.3	46.3
8	32.0	25.6	28.8	0.0	0.8	6.2	52.5
9	35.7	23.9	29.8	0.0	0.8	5.5	58.0
10	36.8	24.3	30.6	35.5	36.3	6.1	64.1
11	33.0	22.6	27.8	61.6	97.9	7.0	71.1
12	31.6	22.5	27.1	15.3	113.2	4.4	75.5
13	33.3	23.8	28.6	14.1	127.3	7.2	82.7
14	31.0	24.1	27.6	1.0	128.3	9.5	92.2
15		23.4		48.7	177.0	10.8	103.0
16	31.0	23.4	27.2	28.0	205.0	4.6	107.6
17	31.0	23.4	27.2	0.1	205.1	8.0	115.6
18	31.0	23.4	27.2	0.1	205.2	7.5	123.1
19	26.9	21.1	24.0	20.0	225.2	5.5	128.6
20	27.2	20.2	23.7	4.3	229.5	10.4	139.0
21	30.1	18.5	24.3	0.1	229.6	5.0	144.0
22	30.8	19.2	25.0	41.0	270.6	8.8	152.8
23	28.5	18.8	23.7	0.1	270.7	6.1	158.9
24	30.2	19.6	24.9	4.2	274.9	3.5	162.4
25						4.5	166.9
26	28.9	20.2	24.5	0.0	274.9	10.4	177.3
27	30.0	20.6	25.3	0.0	274.9	6.6	183.9
28	30.2	21.1	25.7	0.0	274.9	5.2	189.1
29	30.6	20.7	25.7	8.9	283.8	6.2	195.3
30	30.5	20.7	25.6	0.7	284.5	5.7	201.0
Promedio	32.0	22.5	27.2	9.8		6.7	
Extremo	38.2	18.5	32.6	61.6		10.8	



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Total Mensual				284.5		201.0	
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Octubre 2014							
Día	Temperaturas (°C)			Lluvia Diaria mm (litros/m²)			
	Máxima	Mínima	Promedio	Mes Actual	Acum. Actual	Promedio Histórico	Acum. Promedio Histórico
1	29.7	18.0	23.9	0.1	0.1	4.8	4.8
2	29.7	19.8	24.8	0.1	0.2	9.9	14.7
3						6.8	21.5
4	29.7	19.8	24.8	0.0	0.2	2.8	24.3
5	29.7	19.8	24.8	0.0	0.2	7.8	32.1
6	29.7	19.8	24.8	0.0	0.2	8.3	40.4
7						14.4	54.8
8	29.8	23.3	26.6	0.0	0.2	8.8	63.6
9	31.6	23.6	27.6	0.0	0.2	5.6	69.2
10	30.6	23.5	27.1	0.7	0.9	9.9	79.1
11	33.9	23.2	28.6	5.0	5.9	9.1	88.2
12	30.1	23.9	27.0	1.4	7.3	7.4	95.6
13	30.6	22.9	26.8	20.6	27.9	13.6	109.2
14	31.9	22.5	27.2	0.0	27.9	6.1	115.3
15	34.2	23.1	28.7	0.0	27.9	11.0	126.3
16	31.9	24.8	28.4	0.0	27.9	7.0	133.3
17	32.1	23.9	28.0	25.6	53.5	8.8	142.1
18						9.1	151.2
19	31.7	23.0	27.4	32.0	85.5	6.8	158.0
20	31.7	23.0	27.4	5.0	90.5	7.3	165.3
21	32.4	23.1	27.8	0.0	90.5	8.9	174.2
22	32.4	23.1	27.8	0.0	90.5	8.5	182.7
23	34.3	23.9	29.1	0.1	90.6	8.5	191.2
24	33.1	24.2	28.7	13.1	103.7	9.3	200.5
25	31.6	22.8	27.2	3.7	107.4	11.5	212.0
26	31.9	22.1	27.0	2.4	109.8	9.9	221.9
27	31.8	23.3	27.6	0.0	109.8	9.2	231.1
28	32.1	22.8	27.5	13.1	122.9	8.0	239.1
29	32.3	24.0	28.2	6.1	129.0	9.4	248.5
30	32.8	23.7	28.3	7.3	136.3	14.0	262.5
31				60.0	196.3	9.2	271.7



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Promedio	31.6	22.6	27.2	7.0	8.8
Extremo	34.3	18	29.1	60.0	14.4
Total Mensual				196.3	271.7

Noviembre 2014							
Día	Temperaturas (°C)			Lluvia Diaria mm (litros/m²)			
	Máxima	Mínima	Promedio	Mes Actual	Acum. Actual	Promedio Histórico	Acum. Promedio Histórico
1	31.8	23.0	27.4	0.1	0.1	7.2	7.2
2	33.0	22.5	27.8	0.0	0.1	8.5	15.7
3	32.9	24.3	28.6	17.9	18.0	4.0	19.7
4	32.6	23.3	28.0	35.4	53.4	5.7	25.4
5	32.4	23.8	28.1	10.4	63.8	10.7	36.1
6	28.9	24.1	26.5	5.2	69.0	9.3	45.4
7	31.1	22.9	27.0	0.0	69.0	9.3	54.7
8	31.6	23.9	27.8	0.0	69.0	11.0	65.7
9	30.8	23.8	27.3	24.5	93.5	5.4	71.1
10	28.6	23.8	26.2	0.0	93.5	9.7	80.8
11	30.5	23.1	26.8	0.0	93.5	9.4	90.2
12	28.5	22.9	25.7	2.6	96.1	8.5	98.7
13	32.1	21.4	26.8	7.1	103.2	5.8	104.5
14	31.7	22.4	27.1	12.8	116.0	6.4	110.9
15	30.6	21.4	26.0	40.8	156.8	10.4	121.3
16				1.5	158.3	6.1	127.4
17	32.7	22.5	27.6	0.3	158.6	5.0	132.4
18	31.9	23.7	27.8	1.6	160.2	2.0	134.4
19	31.6	22.8	27.2	2.9	163.1	9.3	143.7
20	29.8	23.6	26.7	0.7	163.8	10.1	153.8
21	32.8	23.1	28.0	7.4	171.2	9.8	163.6
22	33.9	22.3	28.1	0.0	171.2	7.2	170.8
23	33.0	22.4	27.7	0.1	171.3	5.5	176.3
24	33.2	23.1	28.2	6.8	178.1	6.4	182.7
25	31.1	22.6	26.9	46.2	224.3	11.7	194.4
26	32.2	21.5	26.9	22.5	246.8	5.9	200.3
27	31.6	23.3	27.5	0.0	246.8	5.6	205.9
28	32.6	24.9	28.8	0.0	246.8	6.4	212.3
29	32.5	24.4	28.5	0.0	246.8	3.4	215.7
30	31.9	24.9	28.4	0.0	246.8	7.2	222.9
Promedio	31.7	23.2	27.4	8.2		7.4	



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Extremo	33.9	21.4	28.8	46.2	11.7
Total Mensual				246.8	222.9

Diciembre 2014							
Día	Temperaturas (°C)			Lluvia Diaria mm (litros/m²)			
	Máxima	Mínima	Promedio	Mes Actual	Acum. Actual	Promedio Histórico	Acum. Promedio Histórico
1	32.7	24.3	28.5	0.0	0.0	6.2	6.2
2	33.1	24.0	28.6	1.4	1.4	5.6	11.8
3						5.3	17.1
4	29.9	23.3	26.6	1.6	3.0	4.6	21.7
5	30.7	23.6	27.2	3.5	6.5	4.9	26.6
6	30.5	23.0	26.8	2.2	8.7	6.8	33.4
7	31.9	22.9	27.4	41.8	50.5	5.2	38.6
8	31.6	23.6	27.6	0.0	50.5	3.8	42.4
9	28.4	23.6	26.0	0.0	50.5	7.6	50.0
10	31.3	22.7	27.0	0.0	50.5	5.6	55.6
11	30.6	22.3	26.5	0.1	50.6	3.3	58.9
12	32.4	23.1	27.8	22.9	73.5	3.0	61.9
13	29.8	22.7	26.3	33.4	106.9	3.2	65.1
14	29.8	22.1	26.0	0.4	107.3	1.2	66.3
15	30.9	22.0	26.5	3.6	110.9	2.7	69.0
16	31.9	23.2	27.6	0.0	110.9	2.1	71.1
17	31.6	24.1	27.9	0.0	110.9	1.8	72.9
18	32.2	23.8	28.0	0.0	110.9	2.2	75.1
19	31.8	22.1	27.0	0.0	110.9	2.0	77.1
20	31.5	23.6	27.6	0.0	110.9	0.8	77.9
21	31.9	23.2	27.6	0.0	110.9	1.1	79.0
22	32.0	22.9	27.5	0.0	110.9	2.2	81.2
23						2.1	83.3
24	32.8	24.1	28.5	0.0	110.9	1.3	84.6
25	32.8	25.6	29.2	0.0	110.9	1.4	86.0
26	32.6	24.8	28.7	0.0	110.9	2.9	88.9
27	32.7	24.8	28.8	0.0	110.9	0.4	89.3
28	32.8	25.4	29.1	0.0	110.9	3.2	92.5
29	34.0	25.3	29.6	0.0	110.9	0.8	93.3
30	33.6	24.9	29.3	0.0	110.9	2.4	95.7
31	33.5	25.7	29.6	0.0	110.9	0.7	96.4
Promedio	31.8	23.7	27.8	3.8		3.1	



2018-2-66-0-15-LP-013744_ 'DISEÑO Y CONSTRUCCIÓN DE MEJORAS AL SISTEMA DE ABASTECIMIENTO DE AGUA POTABLE DE SAN CARLOS – DISTRITO DE SAN CARLOS. PROVINCIA DE PANAMÁ OESTE

Extremo	34	22	29.6	41.8	7.6
Total Mensual				110.9	96.4

Enero 2015							
Día	Temperaturas (°C)			Lluvia Diaria mm (litros/m²)			
	Máxima	Mínima	Promedio	Mes Actual	Acum. Actual	Promedio Histórico	Acum. Promedio Histórico
1	32.4	25.3	28.9	0.0	0.0	0.7	0.7
2	33.3	25.0	29.2	0.0	0.0	1.3	2.0
3	33.9	25.7	29.8	0.0	0.0	3.6	5.6
4	33.5	25.9	29.7	0.1	0.1	2.8	8.4
5	33.2	25.7	29.5	0.0	0.1	2.1	10.5
6	33.4	24.6	29.0	0.0	0.1	2.9	13.4
7	32.8	24.5	28.7	0.1	0.2	2.7	16.1
8	33.3	24.7	29.0	0.0	0.2	0.9	17.0
9	32.9	24.9	28.9	0.0	0.2	2.8	19.8
10	33.4	25.2	29.3	0.0	0.2	0.6	20.4
11	33.8	25.5	29.7	0.0	0.2	0.0	20.4
12	34.0	25.6	29.8	0.0	0.2	0.4	20.8
13	34.3	25.8	30.1	0.0	0.2	0.4	21.2
14	34.3	25.6	30.0	0.0	0.2	0.8	22.0
15	34.3	25.3	29.8	0.0	0.2	0.0	22.0
16	33.8	25.2	29.5	1.7	1.9	1.9	23.9
17	31.7	24.2	28.0	0.2	2.1	0.5	24.4
18	31.0	24.0	27.5	0.1	2.2	0.0	24.4
19	31.9	24.4	28.2	0.2	2.4	0.0	24.4
20	33.5	24.1	28.8	0.0	2.4	0.1	24.5
21	32.3	24.2	28.3	0.0	2.4	0.0	24.5
22	31.1	23.8	27.5	0.0	2.4	0.1	24.6
23	32.9	23.0	28.0	0.1	2.5	1.8	26.4
24	32.9	23.1	28.0	0.0	2.5	0.2	26.6
25	32.9	24.0	28.5	0.0	2.5	0.0	26.6
26	33.3	24.1	28.7	0.1	2.6	0.0	26.6
27	31.9	24.4	28.2	0.3	2.9	0.6	27.2
28	33.1	23.5	28.3	0.0	2.9	0.3	27.5
29	33.6	24.3	29.0	0.0	2.9	0.0	27.5
30	33.2	23.8	28.5	0.0	2.9	0.1	27.6
31	32.9	24.8	28.9	0.0	2.9	0.0	27.6



PROYECTO DE
MEJORA DEL



2018-2-66-0-15-LP-013744_ "DISEÑO Y CONSTRUCCIÓN DE MEJORAS AL SISTEMA DE ABASTECIMIENTO DE AGUA POTABLE DE SAN CARLOS – DISTRITO DE SAN CARLOS. PROVINCIA DE PANAMÁ OESTE

Promedio	33.1	24.7	28.9	0.1	0.9
Extremo	34.3	23	30.1	1.7	3.6
Total Mensual				2.9	27.6

Febrero 2015							
Día	Temperaturas (°C)			Lluvia Diaria mm (litros/m ²)			
	Máxima	Mínima	Promedio	Mes Actual	Acum. Actual	Promedio Histórico	Acum. Promedio Histórico
1	32.4	24.7	28.6	0.0	0.0	0.0	0.0
2	33.8	25.6	29.7	0.0	0.0	0.0	0.0
3	33.9	25.5	29.7	0.0	0.0	0.2	0.2
4	33.4	25.6	29.5	0.0	0.0	0.0	0.2
5	33.4	25.6	29.5	0.0	0.0	0.1	0.3
6	32.9	25.4	29.2	0.0	0.0	1.7	2.0
7	32.6	24.8	28.7	0.0	0.0	0.7	2.7
8	34.0	23.4	28.7	0.0	0.0	0.1	2.8
9	32.5	23.0	27.8	0.0	0.0	0.1	2.9
10	32.8	21.5	27.2	0.0	0.0	0.0	2.9
11	32.1	23.0	27.6	0.0	0.0	0.2	3.1
12	34.0	23.6	28.8	0.0	0.0	0.0	3.1
13	31.9	24.4	28.2	0.0	0.0	0.0	3.1
14	31.6	24.8	28.2	0.1	0.1	0.0	3.1
15	33.1	25.5	29.3	0.0	0.1	0.0	3.1
16	33.4	25.5	29.5	0.0	0.1	0.0	3.1
17	33.2	25.1	29.2	0.0	0.1	0.8	3.9
18	34.1	24.6	29.4	0.0	0.1	0.1	4.0
19	34.4	25.3	29.9	0.0	0.1	0.0	4.0
20	33.1	22.6	27.9	0.0	0.1	0.2	4.2
21	34.3	23.3	28.8	0.0	0.1	0.0	4.2
22	33.9	24.6	29.3	0.0	0.1	0.1	4.3
23	34.2	25.5	29.9	0.0	0.1	0.3	4.6
24	34.4	25.0	29.7	0.0	0.1	0.7	5.3
25	33.3	24.1	28.7	0.0	0.1	0.0	5.3
26	34.4	23.2	28.8	0.0	0.1	0.0	5.3
27	34.4	23.2	28.8	0.0	0.1	0.0	5.3
28	33.8	25.5	29.7	0.0	0.1	0.0	5.3
Promedio	33.4	24.4	28.9	0.0		0.2	



ESTUDIO
HIDROLÓGICO



2018-2-66-0-15-LP-013744. "DISEÑO Y CONSTRUCCIÓN DE MEJORAS AL SISTEMA DE ABASTECIMIENTO DE AGUA POTABLE DE SAN CARLOS – DISTRITO DE SAN CARLOS. PROVINCIA DE PANAMÁ OESTE

Extremo	34.4	21.5	29.9	0.1	1.7
Total Mensual				0.1	5.3

Marzo 2015							
Día	Temperaturas (°C)			Lluvia Diaria mm (litros/m²)			
	Máxima	Mínima	Promedio	Mes Actual	Acum. Actual	Promedio Histórico	Acum. Promedio Histórico
1	34.3	26.3	30.3	0.0	0.0	0.0	0.0
2	33.5	25.1	29.3	0.0	0.0	0.0	0.0
3	33.8	24.6	29.2	0.0	0.0	0.4	0.4
4	34.9	24.2	29.6	0.0	0.0	0.1	0.5
5	34.6	24.6	29.6	0.0	0.0	0.2	0.7
6	34.0	25.4	29.7	0.0	0.0	0.0	0.7
7	33.3	25.1	29.2	0.0	0.0	0.8	1.5
8	33.6	25.2	29.4	0.0	0.0	0.1	1.6
9	33.3	25.3	29.3	0.0	0.0	0.1	1.7
10	34.1	25.2	29.7	0.0	0.0	0.3	2.0
11	34.5	25.9	30.2	0.0	0.0	0.1	2.1
12	34.3	26.2	30.3	0.0	0.0	0.0	2.1
13	33.9	25.4	29.7	0.0	0.0	0.0	2.1
14	33.9	24.6	29.3	0.0	0.0	0.0	2.1
15	33.8	24.9	29.4	0.0	0.0	0.1	2.2
16	34.5	24.9	29.7	0.0	0.0	0.7	2.9
17	32.6	24.2	28.4	0.0	0.0	0.2	3.1
18	34.4	23.6	29.0	0.0	0.0	0.1	3.2
19	33.0	23.3	28.2	0.0	0.0	0.0	3.2
20	34.1	23.6	28.9	0.0	0.0	0.2	3.4
21	33.9	23.4	28.7	0.0	0.0	0.3	3.7
22	34.5	23.6	29.1	0.0	0.0	0.4	4.1
23						0.1	4.2
24	34.3	23.4	28.9	0.0	0.0	0.8	5.0
25	34.9	24.2	29.6	0.0	0.0	0.0	5.0
26	34.1	24.1	29.1	0.0	0.0	0.0	5.0
27	34.7	23.9	29.3	0.0	0.0	0.7	5.7
28						0.1	5.8
29						0.4	6.2
30	34.3	24.2	29.3	0.0	0.0	0.2	6.4

2018-2-66-0-15-LP-013744. "DISEÑO Y CONSTRUCCIÓN DE MEJORAS AL SISTEMA DE ABASTECIMIENTO DE AGUA POTABLE DE SAN CARLOS – DISTRITO DE SAN CARLOS. PROVINCIA DE PANAMÁ OESTE

31	35.0	24.2	29.6	0.0	0.0	0.5	6.9
Promedio	34.1	24.6	29.4	0.0		0.2	
Extremo	35	23.3	30.3	0.0		0.8	
Total Mensual				0.0		6.9	

Abril 2015							
Día	Temperaturas (°C)			Lluvia Diaria mm (litros/m²)			
	Máxima	Minima	Promedio	Mes Actual	Acum. Actual	Promedio Histórico	Acum. Promedio Histórico
1	35.0	24.2	29.6	0.0	0.0	0.1	0.1
2	35.0	24.2	29.6	0.0	0.0	0.0	0.1
3	34.6	25.1	29.9	0.0	0.0	0.0	0.1
4	35.0	25.7	30.4	0.0	0.0	0.7	0.8
5	35.0	25.7	30.4	0.0	0.0	0.1	0.9
6	34.8	25.1	30.0	0.0	0.0	1.6	2.5
7	34.6	25.4	30.0	0.0	0.0	0.3	2.8
8	34.8	25.5	30.2	0.0	0.0	1.2	4.0
9	35.1	25.3	30.2	0.0	0.0	0.6	4.6
10	34.6	25.9	30.3	0.0	0.0	1.6	6.2
11	34.9	26.4	30.7	0.0	0.0	3.1	9.3
12	34.5	25.0	29.8	0.0	0.0	1.7	11.0
13	34.5	25.8	30.2	13.5	13.5	1.1	12.1
14	32.0	25.3	28.7	23.3	36.8	0.6	12.7
15	34.3	25.2	29.8	0.1	36.9	2.3	15.0
16	31.9	25.1	28.5	1.2	38.1	2.4	17.4
17	32.9	24.7	28.8	3.5	41.6	0.1	17.5
18	34.2	25.1	29.7	0.0	41.6	0.1	17.6
19	34.7	25.5	30.1	0.0	41.6	1.8	19.4
20	34.2	25.8	30.0	0.0	41.6	2.8	22.2
21	34.6	24.4	29.5	0.2	41.8	1.9	24.1
22	33.6	24.3	29.0	0.3	42.1	1.3	25.4
23	34.8	26.1	30.5	0.0	42.1	2.0	27.4
24	33.4	25.8	29.6	0.0	42.1	1.6	29.0
25	33.7	24.9	29.3	0.0	42.1	2.0	31.0
26	33.6	25.6	29.6	0.0	42.1	5.1	36.1
27	35.0	25.9	30.5	0.0	42.1	2.2	38.3
28	35.6	26.1	30.9	0.0	42.1	1.7	40.0
29	33.7	26.2	30.0	0.5	42.6	4.1	44.1
30	33.9	24.1	29.0	33.0	75.6	2.1	46.2



2018-2-66-0-15-LP-013744. "DISEÑO Y CONSTRUCCIÓN DE MEJORAS AL SISTEMA DE ABASTECIMIENTO DE AGUA POTABLE DE SAN CARLOS – DISTRITO DE SAN CARLOS. PROVINCIA DE PANAMÁ OESTE

Promedio	34.3	25.3	29.8	2.5	1.5
Extremo	35.6	24.1	30.9	33.0	5.1
Total Mensual				75.6	46.2

Mayo 2015							
Día	Temperaturas (°C)			Lluvia Diaria mm (litros/m²)			
	Máxima	Mínima	Promedio	Mes Actual	Acum. Actual	Promedio Histórico	Acum. Promedio Histórico
1	33.9	24.1	29.0	0.4	0.4	5.0	5.0
2	33.9	24.1	29.0	0.4	0.8	3.0	8.0
3	33.9	24.1	29.0			2.1	10.1
4	32.2	24.8	28.5	0.0	0.8	3.7	13.8
5	32.9	25.5	29.2	0.0	0.8	4.8	18.6
6	33.0	25.0	29.0	0.1	0.9	4.9	23.5
7	34.0	25.4	29.7	0.0	0.9	3.1	26.6
8	34.9	26.4	30.7	0.1	1.0	4.7	31.3
9	34.9	26.4	30.7	0.0	1.0	1.6	32.9
10	34.9	26.7	30.8	0.0	1.0	3.0	35.9
11						4.9	40.8
12	34.8	27.4	31.1	0.0	1.0	5.3	46.1
13	34.2	26.8	30.5	0.0	1.0	4.1	50.2
14	35.2	26.8	31.0	0.0	1.0	1.6	51.8
15	32.5	26.7	29.6	0.0	1.0	6.5	58.3
16	29.2	25.9	27.6	0.0	1.0	4.7	63.0
17				0.0	1.0	7.0	70.0
18	33.8	25.3	29.6	0.0	1.0	7.6	77.6
19	33.0	25.2	29.1	0.0	1.0	6.4	84.0
20	33.7	24.6	29.2	56.1	57.1	6.9	90.9
21	32.0	23.0	27.5	10.2	67.3	8.9	99.8
22						5.5	105.3
23	33.5	26.6	30.1	0.2	67.5	5.6	110.9
24	33.0	24.7	28.9	15.9	83.4	9.5	120.4
25	30.8	23.0	26.9	2.1	85.5	13.0	133.4
26	33.2	25.2	29.2	0.0	85.5	7.0	140.4
27	32.0	24.9	28.5	0.7	86.2	5.9	146.3
28	29.3	25.3	27.3	0.1	86.3	4.0	150.3



INGENIERIA
CIVIL



2018-2-66-0-15-LP-013744_ "DISEÑO Y CONSTRUCCIÓN DE MEJORAS AL SISTEMA DE ABASTECIMIENTO DE AGUA POTABLE DE SAN CARLOS – DISTRITO DE SAN CARLOS. PROVINCIA DE PANAMÁ OESTE

29	32.4	24.2	28.3	0.0	86.3	9.8	160.1
30	33.2	24.8	29.0	0.0	86.3	5.7	165.8
31	33.9	25.3	29.6	2.5	88.8	5.4	171.2
Promedio	33.2	25.3	29.2	3.2		5.5	
Extremo	35.2	23	31.1	56.1		13.0	
Total Mensual				88.8		171.2	

Junio 2015

Día	Temperaturas (°C)			Lluvia Diaria mm (litros/m²)			
	Máxima	Mínima	Promedio	Mes Actual	Acum. Actual	Promedio Histórico	Acum. Promedio Histórico
1	33.5	24.9	29.2	0.2	0.2	4.9	4.9
2	33.3	26.1	29.7	0.1	0.3	7.7	12.6
3	32.7	25.4	29.1	0.4	0.7	8.9	21.5
4	29.5	24.3	26.9	0.5	1.2	5.6	27.1
5	30.3	24.2	27.3	0.0	1.2	5.4	32.5
6	32.9	22.5	27.7	0.1	1.3	7.3	39.8
7	31.4	23.8	27.6	8.7	10.0	6.1	45.9
8	32.0	22.8	27.4	0.0	10.0	8.2	54.1
9						10.5	64.6
10	30.5	22.6	26.6	0.1	10.1	4.2	68.8
11	33.1	23.1	28.1	0.0	10.1	9.1	77.9
12	33.5	23.1	28.3	0.0	10.1	10.2	88.1
13	31.9	25.6	28.8	0.0	10.1	2.7	90.8
14	33.6	24.8	29.2	0.1	10.2	5.9	96.7
15	34.5	25.8	30.2	0.3	10.5	6.7	103.4
16	33.9	26.5	30.2	0.3	10.8	3.7	107.1
17	34.4	26.5	30.5	10.2	21.0	10.8	117.9
18	33.1	26.2	29.7	0.0	21.0	5.1	123.0
19	34.1	26.1	30.1	0.1	21.1	6.9	129.9
20	33.7	26.9	30.3	0.0	21.1	4.3	134.2
21						5.2	139.4
22	33.5	25.2	29.4	5.5	26.6	5.1	144.5
23	34.2	26.8	30.5	0.1	26.7	5.8	150.3
24	34.5	26.9	30.7	0.0	26.7	7.6	157.9
25	35.0	27.2	31.1	0.1	26.8	7.2	165.1
26	34.5	26.9	30.7	0.1	26.9	3.3	168.4
27	34.6	27.1	30.9	0.0	26.9	5.4	173.8
28	34.7	27.0	30.9	0.1	27.0	6.2	180.0



MINISTERIO DEL MEDIO AMBIENTE
Y RECURSOS NATURALES



2018-2-66-0-15-LP-013744_ "DISEÑO Y CONSTRUCCIÓN DE MEJORAS AL SISTEMA DE ABASTECIMIENTO DE AGUA POTABLE DE SAN CARLOS – DISTRITO DE SAN CARLOS. PROVINCIA DE PANAMÁ OESTE

29	32.2	23.9	28.1	20.3	47.3	3.6	183.6
30	33.1	23.8	28.5	0.0	47.3	6.3	189.9
Promedio	33.2	25.2	29.2	1.7		6.3	
Extremo	35	22.5	31.1	20.3		10.8	
Total Mensual				47.3		189.9	

Julio 2015							
Día	Temperaturas (°C)			Lluvia Diaria mm (litros/m²)			
	Máxima	Mínima	Promedio	Mes Actual	Acum. Actual	Promedio Histórico	Acum. Promedio Histórico
1	33.6	26.1	29.9	0.0	0.0	3.8	3.8
2	33.6	26.5	30.1	0.0	0.0	4.8	8.6
3	34.4	26.7	30.6	2.0	2.0	5.2	13.8
4	33.5	26.6	30.1	0.0	2.0	7.9	21.7
5	33.1	26.5	29.8	0.0	2.0	5.2	26.9
6	34.6	26.4	30.5	6.0	8.0	4.4	31.3
7	31.7	24.3	28.0	0.0	8.0	3.8	35.1
8	29.4	23.4	26.4	70.0	78.0	7.5	42.6
9	33.8	24.1	29.0	2.0	80.0	5.2	47.8
10	33.1	25.3	29.2	0.0	80.0	9.0	56.8
11	32.2	25.4	28.8	0.0	80.0	8.6	65.4
12	31.8	24.0	27.9	0.0	80.0	10.4	75.8
13						2.6	78.4
14	33.8	25.5	29.7	1.0	81.0	3.8	82.2
15	31.0	25.2	28.1	0.0	81.0	5.7	87.9
16	34.2	25.8	30.0	1.0	82.0	4.9	92.8
17	34.1	24.8	29.5	3.0	85.0	3.2	96.0
18	28.8	23.8	26.3	0.0	85.0	5.1	101.1
19	33.4	24.4	28.9	38.0	123.0	5.1	106.2
20	31.4	23.4	27.4	72.0	195.0	6.0	112.2
21	32.9	22.4	27.7	1.0	196.0	6.7	118.9
22	33.3	24.8	29.1			6.3	125.2
23	29.6	23.8	26.7	0.7	196.7	8.0	133.2
24	33.4	24.6	29.0	0.2	196.9	3.3	136.5
25	33.8	26.3	30.1	0.0	196.9	4.9	141.4
26	33.8	26.3	30.1	0.3	197.2	5.0	146.4
27	33.1	26.4	29.8	0.1	197.3	7.6	154.0



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28	34.9	25.3	30.1	0.2	197.5	5.2	159.2
29	32.3	25.7	29.0	0.1	197.6	7.3	166.5
30	31.5	23.7	27.6	4.3	201.9	2.9	169.4
31	33.7	24.1	28.9	0.1	202.0	2.9	172.3
Promedio	32.8	25.1	28.9	7.0		5.6	
Extremo	34.9	22.4	30.6	72.0		10.4	
Total Mensual				202.0		172.3	

Agosto 2015							
Día	Temperaturas (°C)			Lluvia Diaria mm (litros/m²)			
	Máxima	Mínima	Promedio	Mes Actual	Acum. Actual	Promedio Histórico	Acum. Promedio Histórico
1	34.0	25.1	29.6	0.0	0.0	6.0	6.0
2				0.0	0.0	5.5	11.5
3	34.5	26.2	30.4	0.1	0.1	4.3	15.8
4	35.2	26.6	30.9	0.3	0.4	6.1	21.9
5	35.0	26.9	31.0	0.1	0.5	7.6	29.5
6	35.6	26.7	31.2	0.2	0.7	5.9	35.4
7	35.4	26.9	31.2	0.1	0.8	7.4	42.8
8	34.5	25.1	29.8	0.0	0.8	3.4	46.2
9	32.2	24.2	28.2	47.1	47.9	6.1	52.3
10	32.7	23.1	27.9	0.0	47.9	5.3	57.6
11	34.5	25.1	29.8	12.0	59.9	7.2	64.8
12	32.9	25.6	29.3	0.1	60.0	9.1	73.9
13	33.1	25.9	29.5	5.7	65.7	7.8	81.7
14	32.5	22.8	27.7	0.1	65.8	5.6	87.3
15	32.3	25.2	28.8	0.0	65.8	7.8	95.1
16	32.8	24.3	28.6	0.2	66.0	7.6	102.7
17	31.0	25.3	28.2	0.1	66.1	4.4	107.1
18	33.7	25.3	29.5	0.1	66.2	4.3	111.4
19	33.7	25.6	29.7	0.0	66.2	5.5	116.9
20	33.4	25.9	29.7	0.0	66.2	5.5	122.4
21	33.3	23.8	28.6	1.4	67.6	7.8	130.2
22	32.7	23.4	28.1	3.9	71.5	5.9	136.1
23	33.2	24.1	28.7	3.7	75.2	8.3	144.4
24	31.6	24.8	28.2	24.0	99.2	4.5	148.9
25	28.3	24.6	26.5	0.1	99.3	6.5	155.4
26	31.9	23.5	27.7	1.1	100.4	8.2	163.6
27	33.7	23.7	28.7	7.3	107.7	7.6	171.2



AGUAS
DE PANAMÁ



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28	33.5	25.5	29.5	0.1	107.8	4.2	175.4
29	32.9	25.0	29.0	0.0	107.8	4.2	179.6
30	34.2	25.3	29.8	0.3	108.1	5.2	184.8
31						8.7	193.5
Promedio	33.3	25.0	29.2	3.6		6.2	
Extremo	35.6	22.8	31.2	47.1		9.1	
Total Mensual				108.1		193.5	

Septiembre 2015							
Día	Temperaturas (°C)			Lluvia Diaria mm (litros/m²)			
	Máxima	Minima	Promedio	Mes Actual	Acum. Actual	Promedio Histórico	Acum. Promedio Histórico
1						6.4	6.4
2						8.8	15.2
3	32.3	23.4	27.9	0.0	0.0	4.6	19.8
4	33.8	24.4	29.1	0.0	0.0	4.8	24.6
5						8.5	33.1
6	34.1	24.4	29.3	0.1	0.1	7.9	41.0
7	32.6	25.1	28.9	0.4	0.5	5.3	46.3
8	33.3	23.8	28.6	22.1	22.6	6.2	52.5
9	33.8	24.4	29.1	13.8	36.4	5.5	58.0
10	30.2	23.3	26.8	24.7	61.1	6.1	64.1
11	28.5	23.0	25.8	1.2	62.3	7.0	71.1
12	32.6	24.5	28.6	0.1	62.4	4.4	75.5
13	34.1	24.2	29.2	8.7	71.1	7.2	82.7
14	32.9	25.2	29.1	0.1	71.2	9.5	92.2
15	34.4	26.1	30.3	0.7	71.9	10.8	103.0
16	30.9	25.2	28.1	0.0	71.9	4.6	107.6
17	34.6	23.9	29.3	0.0	71.9	8.0	115.6
18	34.3	23.3	28.8	3.0	74.9	7.5	123.1
19	31.7	23.4	27.6	0.0	74.9	5.5	128.6
20						10.4	139.0
21	33.0	24.9	29.0	1.9	76.8	5.0	144.0
22	33.3	23.5	28.4	21.5	98.3	8.8	152.8
23	33.0	23.9	28.5	0.1	98.4	6.1	158.9
24	34.6	24.2	29.4	3.5	101.9	3.5	162.4
25	34.5	24.3	29.4	0.0	101.9	4.5	166.9

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26	34.2	24.9	29.6	0.2	102.1	10.4	177.3
27	34.2	22.9	28.6	0.1	102.2	6.6	183.9
28	34.2	25.0	29.6	3.5	105.7	5.2	189.1
29	33.6	24.2	28.9	0.0	105.7	6.2	195.3
30	32.5	23.9	28.2	1.6	107.3	5.7	201.0
Promedio	33.1	24.2	28.7	4.1		6.7	
Extremo	34.6	22.9	30.3	24.7		10.8	
Total Mensual				107.3		201.0	

Octubre 2015							
Día	Temperaturas (°C)			Lluvia Diaria mm (litros/m²)			
	Máxima	Mínima	Promedio	Mes Actual	Acum. Actual	Promedio Histórico	Acum. Promedio Histórico
1	31.3	23.1	27.2	0.0	0.0	4.8	4.8
2	32.3	22.7	27.5	0.0	0.0	9.9	14.7
3	33.5	22.6	28.1	0.1	0.1	6.8	21.5
4	33.5	24.4	29.0	4.9	5.0	2.8	24.3
5	32.8	25.4	29.1	0.0	5.0	7.8	32.1
6	32.1	25.5	28.8	20.5	25.5	8.3	40.4
7	32.0	24.0	28.0	0.0	25.5	14.4	54.8
8	33.2	24.9	29.1	0.0	25.5	8.8	63.6
9	32.6	23.9	28.3	17.6	43.1	5.6	69.2
10	30.5	23.7	27.1	0.0	43.1	9.9	79.1
11	32.8	23.8	28.3	0.5	43.6	9.1	88.2
12	31.8	23.5	27.7	0.5	44.1	7.4	95.6
13	31.3	23.7	27.5	0.2	44.3	13.6	109.2
14	30.5	24.3	27.4	0.9	45.2	6.1	115.3
15	32.0	22.9	27.5	0.0	45.2	11.0	126.3
16	29.1	23.6	26.4	5.4	50.6	7.0	133.3
17	33.7	22.6	28.2	0.0	50.6	8.8	142.1
18	33.2	24.0	28.6	0.0	50.6	9.1	151.2
19	33.4	24.1	28.8	13.7	64.3	6.8	158.0
20	33.9	23.7	28.8	0.3	64.6	7.3	165.3
21	32.0	24.4	28.2	2.7	67.3	8.9	174.2
22	33.4	23.3	28.4	0.1	67.4	8.5	182.7
23	33.9	23.9	28.9	0.1	67.5	8.5	191.2
24	30.8	23.6	27.2	16.2	83.7	9.3	200.5
25	31.9	22.4	27.2	0.0	83.7	11.5	212.0
26	32.3	23.8	28.1	0.0	83.7	9.9	221.9



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27	32.9	22.6	27.8	15.4	99.1	9.2	231.1
28	32.6	24.5	28.6	0.3	99.4	8.0	239.1
29	32.7	23.3	28.0	0.0	99.4	9.4	248.5
30	31.9	23.8	27.9	17.9	117.3	14.0	262.5
31	31.5	23.6	27.6	18.8	136.1	9.2	271.7
Promedio	32.3	23.7	28.0	4.4		8.8	
Extremo	33.9	22.4	29.1	20.5		14.4	
Total Mensual				136.1		271.7	

Noviembre 2015							
Día	Temperaturas (°C)			Lluvia Diaria mm (litros/m²)			
	Máxima	Mínima	Promedio	Mes Actual	Acum. Actual	Promedio Histórico	Acum. Promedio Histórico
1	30.8	22.5	26.7	0.1	0.1	7.2	7.2
2	31.3	22.3	26.8	0.2	0.3	8.5	15.7
3	31.4	23.4	27.4	4.0	4.3	4.0	19.7
4	31.4	23.8	27.6	0.0	4.3	5.7	25.4
5	32.8	21.9	27.4	0.0	4.3	10.7	36.1
6	32.5	23.3	27.9	0.8	5.1	9.3	45.4
7	31.1	23.3	27.2	24.3	29.4	9.3	54.7
8	31.8	23.5	27.7	0.0	29.4	11.0	65.7
9	32.6	24.6	28.6	7.0	36.4	5.4	71.1
10						9.7	80.8
11	32.0	23.3	27.7	0.1	36.5	9.4	90.2
12	33.4	24.3	28.9	0.2	36.7	8.5	98.7
13	33.8	24.2	29.0	0.0	36.7	5.8	104.5
14	32.0	23.8	27.9	0.0	36.7	6.4	110.9
15	32.6	24.7	28.7	13.9	50.6	10.4	121.3
16	30.4	23.5	27.0	0.3	50.9	6.1	127.4
17	30.8	24.4	27.6	0.5	51.4	5.0	132.4
18	29.6	23.8	26.7	14.0	65.4	2.0	134.4
19	30.2	23.3	26.8	4.5	69.9	9.3	143.7
20	31.7	23.2	27.5	0.1	70.0	10.1	153.8
21	33.0	23.6	28.3	0.0	70.0	9.8	163.6
22	30.5	23.6	27.1	6.0	76.0	7.2	170.8
23						5.5	176.3
24	29.7	24.2	27.0	0.2	76.2	6.4	182.7
25	31.7	24.3	28.0	22.7	98.9	11.7	194.4



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26	31.2	24.8	28.0	0.0	98.9	5.9	200.3
27	32.2	25.5	28.9	0.0	98.9	5.6	205.9
28	31.9	24.3	28.1	0.0	98.9	6.4	212.3
29	31.8	23.7	27.8	0.0	98.9	3.4	215.7
30	31.1	24.0	27.6	0.0	98.9	7.2	222.9
Promedio	31.6	23.8	27.7	3.5		7.4	
Extremo	33.8	21.9	29	24.3		11.7	
Total Mensual				98.9		222.9	

Diciembre 2015							
Día	Temperaturas (°C)			Lluvia Diaria mm (litros/m²)			
	Máxima	Mínima	Promedio	Mes Actual	Acum. Actual	Promedio Histórico	Acum. Promedio Histórico
1	31.2	24.2	27.7	0.0	0.0	6.2	6.2
2	32.2	24.6	28.4	0.0	0.0	5.6	11.8
3	33.5	25.8	29.7	0.0	0.0	5.3	17.1
4	32.7	25.9	29.3	0.0	0.0	4.6	21.7
5	31.9	25.4	28.7	0.0	0.0	4.9	26.6
6	33.2	25.8	29.5	0.0	0.0	6.8	33.4
7	33.3	26.1	29.7	0.0	0.0	5.2	38.6
8	32.6	24.1	28.4	0.0	0.0	3.8	42.4
9	32.6	25.0	28.8	0.0	0.0	7.6	50.0
10	33.9	25.1	29.5	0.0	0.0	5.6	55.6
11	33.3	26.0	29.7	0.0	0.0	3.3	58.9
12						3.0	61.9
13	33.9	25.2	29.6	0.0	0.0	3.2	65.1
14	31.7	25.2	28.5	0.0	0.0	1.2	66.3
15	34.0	24.3	29.2	0.0	0.0	2.7	69.0
16	33.9	23.9	28.9	0.0	0.0	2.1	71.1
17	33.4	24.5	29.0	0.0	0.0	1.8	72.9
18	33.0	25.8	29.4	0.0	0.0	2.2	75.1
19	32.1	24.9	28.5	0.0	0.0	2.0	77.1
20	34.5	26.3	30.4	0.0	0.0	0.8	77.9
21	33.8	26.3	30.1	0.0	0.0	1.1	79.0
22	33.6	26.4	30.0	0.0	0.0	2.2	81.2
23	34.8	25.6	30.2	0.0	0.0	2.1	83.3
24						1.3	84.6



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25	34.4	24.6	29.5	0.0	0.0	1.4	86.0
26	34.4	26.3	30.4	0.0	0.0	2.9	88.9
27	33.9	26.0	30.0	0.0	0.0	0.4	89.3
28	33.8	25.7	29.8	0.0	0.0	3.2	92.5
29	33.9	25.6	29.8	0.0	0.0	0.8	93.3
30	33.9	26.3	30.1	0.0	0.0	2.4	95.7
31	33.8	26.7	30.3	0.0	0.0	0.7	96.4
Promedio	33.4	25.4	29.4	0.0		3.1	
Extremo	34.8	23.9	30.4	0.0		7.6	
Total Mensual				0.0		96.4	

Enero 2016							
Día	Temperaturas (°C)			Lluvia Diaria mm (litros/m²)			
	Máxima	Mínima	Promedio	Mes Actual	Acum. Actual	Promedio Histórico	Acum. Promedio Histórico
1	33.7	26.8	30.3	0.0	0.0	0.7	0.7
2	32.6	26.4	29.5	0.0	0.0	1.3	2.0
3	33.6	24.4	29.0	0.0	0.0	3.6	5.6
4	33.7	25.2	29.5	0.0	0.0	2.8	8.4
5	33.9	25.5	29.7	0.1	0.1	2.1	10.5
6	32.9	25.9	29.4	0.0	0.1	2.9	13.4
7	34.1	24.8	29.5	0.0	0.1	2.7	16.1
8	33.8	25.4	29.6	0.0	0.1	0.9	17.0
9	34.0	23.9	29.0	0.0	0.1	2.8	19.8
10	33.4	24.0	28.7	0.0	0.1	0.6	20.4
11	33.4	24.2	28.8	0.0	0.1	0.0	20.4
12	32.4	23.2	27.8	0.0	0.1	0.4	20.8
13	32.1	23.9	28.0	0.0	0.1	0.4	21.2
14	33.3	23.5	28.4	0.0	0.1	0.8	22.0
15	33.6	22.9	28.3	0.2	0.3	0.0	22.0
16	34.0	23.4	28.7	0.0	0.3	1.9	23.9
17	33.6	25.0	29.3	0.0	0.3	0.5	24.4
18	32.8	24.8	28.8	0.0	0.3	0.0	24.4
19	32.7	24.3	28.5	0.0	0.3	0.0	24.4
20	31.5	24.4	28.0	0.0	0.3	0.1	24.5
21	33.7	24.8	29.3	0.0	0.3	0.0	24.5
22	32.9	24.1	28.5	0.0	0.3	0.1	24.6
23	32.4	24.7	28.6	0.0	0.3	1.8	26.4
24	32.0	25.2	28.6	0.0	0.3	0.2	26.6



MINISTERIO DE
AMBIENTE Y
RECURSOS NATURALES



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25	33.4	25.3	29.4	0.0	0.3	0.0	26.6
26	34.2	24.1	29.2	0.0	0.3	0.0	26.6
27	34.0	24.8	29.4	0.0	0.3	0.6	27.2
28	32.7	25.1	28.9	0.0	0.3	0.3	27.5
29	33.0	25.1	29.1	0.0	0.3	0.0	27.5
30	33.9	25.2	29.6	0.0	0.3	0.1	27.6
31	33.9	24.7	29.3	0.0	0.3	0.0	27.6
Promedio	33.3	24.7	29.0	0.0		0.9	
Extremo	34.2	22.9	30.3	0.2		3.6	
Total Mensual				0.3		27.6	

Febrero 2016

Día	Temperaturas (°C)			Lluvia Diaria mm (litros/m²)			
	Máxima	Mínima	Promedio	Mes Actual	Acum. Actual	Promedio Histórico	Acum. Promedio Histórico
1	33.5	23.9	28.7	0.0	0.0	0.0	0.0
2						0.0	0.0
3	33.5	25.4	29.5	0.0	0.0	0.2	0.2
4	33.8	25.4	29.6	0.0	0.0	0.0	0.2
5	33.0	24.6	28.8	0.1	0.1	0.1	0.3
6	32.6	24.2	28.4	0.0	0.1	1.7	2.0
7	32.5	24.8	28.7	0.0	0.1	0.7	2.7
8	32.0	25.5	28.8	0.3	0.4	0.1	2.8
9	33.8	25.2	29.5	0.0	0.4	0.1	2.9
10	32.9	26.2	29.6	0.0	0.4	0.0	2.9
11	33.4	26.0	29.7	0.0	0.4	0.2	3.1
12	33.1	25.7	29.4	0.0	0.4	0.0	3.1
13	33.2	24.9	29.1	0.0	0.4	0.0	3.1
14	33.5	25.4	29.5	0.0	0.4	0.0	3.1
15	34.0	25.4	29.7	0.0	0.4	0.0	3.1
16	33.3	25.5	29.4	0.0	0.4	0.0	3.1
17	34.1	26.4	30.3	0.0	0.4	0.8	3.9
18	32.8	26.7	29.8	0.0	0.4	0.1	4.0
19	33.6	26.1	29.9	0.0	0.4	0.0	4.0
20	33.6	25.2	29.4	0.0	0.4	0.2	4.2
21	33.2	25.1	29.2	0.0	0.4	0.0	4.2
22	34.1	25.2	29.7	0.0	0.4	0.1	4.3
23	33.3	25.4	29.4	0.0	0.4	0.3	4.6
24	34.3	25.3	29.8	0.0	0.4	0.7	5.3



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25	33.9	25.8	29.9	0.0	0.4	0.0	5.3
26	34.1	25.5	29.8	0.0	0.4	0.0	5.3
27	32.4	24.4	28.4	0.0	0.4	0.0	5.3
28	33.2	25.1	29.2	0.0	0.4	0.0	5.3
29						0.0	5.3
Promedio	33.4	25.3	29.4	0.0		0.2	
Extremo	34.3	23.9	30.3	0.3		1.7	
Total Mensual				0.4		5.3	

Marzo 2016							
Día	Temperaturas (°C)			Lluvia Diaria mm (litros/m²)			
	Máxima	Mínima	Promedio	Mes Actual	Acum. Actual	Promedio Histórico	Acum. Promedio Histórico
1	33.2	24.5	28.9	0.0	0.0	0.0	0.0
2	34.2	25.1	29.7	0.0	0.0	0.0	0.0
3	33.5	25.2	29.4	0.0	0.0	0.4	0.4
4	34.8	22.6	28.7	0.0	0.0	0.1	0.5
5	33.9	25.2	29.6	0.0	0.0	0.2	0.7
6	34.8	24.9	29.9	0.0	0.0	0.0	0.7
7	34.6	24.2	29.4	0.0	0.0	0.8	1.5
8	34.3	24.2	29.3	0.0	0.0	0.1	1.6
9	34.2	25.1	29.7	0.0	0.0	0.1	1.7
10	35.1	25.5	30.3	0.0	0.0	0.3	2.0
11	34.7	25.7	30.2	0.0	0.0	0.1	2.1
12	35.5	25.0	30.3	0.0	0.0	0.0	2.1
13	34.8	24.3	29.6	0.0	0.0	0.0	2.1
14	34.1	24.4	29.3	0.0	0.0	0.0	2.1
15	34.8	23.9	29.4	0.0	0.0	0.1	2.2
16	33.3	24.6	29.0	0.0	0.0	0.7	2.9
17	33.5	25.4	29.5	0.0	0.0	0.2	3.1
18	34.1	26.1	30.1	0.0	0.0	0.1	3.2
19	34.3	26.0	30.2	0.0	0.0	0.0	3.2
20	34.8	26.2	30.5	0.1	0.1	0.2	3.4
21						0.3	3.7
22	33.1	26.3	29.7	0.0	0.1	0.4	4.1

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23						0.1	4.2
24	34.8	26.1	30.5	0.0	0.1	0.8	5.0
25	34.8	25.6	30.2	0.0	0.1	0.0	5.0
26	35.3	25.8	30.6	0.0	0.1	0.0	5.0
27	34.7	26.3	30.5	0.0	0.1	0.7	5.7
28	35.5	25.8	30.7	0.0	0.1	0.1	5.8
29	34.9	25.6	30.3	0.0	0.1	0.4	6.2
30	35.5	25.2	30.4	0.0	0.1	0.2	6.4
31	36.0	25.2	30.6	0.0	0.1	0.5	6.9
Promedio	34.5	25.2	29.9	0.0		0.2	
Extremo	36	22.6	30.7	0.1		0.8	
Total Mensual				0.1		6.9	

Abril 2016							
Día	Temperaturas (°C)			Lluvia Diaria mm (litros/m²)			
	Máxima	Minima	Promedio	Mes Actual	Acum. Actual	Promedio Histórico	Acum. Promedio Histórico
1	35.5	25.5	30.5	0.0	0.0	0.1	0.1
2	34.5	24.4	29.5	0.0	0.0	0.0	0.1
3	33.9	24.0	29.0	0.1	0.1	0.0	0.1
4	36.1	26.0	31.1	0.0	0.1	0.7	0.8
5	35.2	25.6	30.4	0.0	0.1	0.1	0.9
6	35.0	25.6	30.3	0.0	0.1	1.6	2.5
7	34.4	25.5	30.0	0.0	0.1	0.3	2.8
8	35.0	25.9	30.5	0.0	0.1	1.2	4.0
9	34.1	26.0	30.1	0.0	0.1	0.6	4.6
10	34.8	26.0	30.4	0.0	0.1	1.6	6.2
11	34.1	27.8	31.0	0.0	0.1	3.1	9.3
12	34.5	25.0	29.8	0.0	0.1	1.7	11.0
13	36.3	24.2	30.3	0.0	0.1	1.1	12.1
14	36.5	24.9	30.7	0.0	0.1	0.6	12.7
15	36.2	24.3	30.3	0.0	0.1	2.3	15.0
16	36.3	25.6	31.0	0.0	0.1	2.4	17.4
17	34.8	25.4	30.1	0.0	0.1	0.1	17.5
18	36.5	26.3	31.4	0.0	0.1	0.1	17.6
19	35.4	26.7	31.1	0.0	0.1	1.8	19.4
20	33.1	25.5	29.3	0.0	0.1	2.8	22.2
21	35.0	26.2	30.6	0.0	0.1	1.9	24.1
22	35.9	26.8	31.4	0.0	0.1	1.3	25.4



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23	34.2	27.2	30.7	0.0	0.1	2.0	27.4
24	34.3	25.7	30.0	16.0	16.1	1.6	29.0
25	32.6	25.1	28.9	0.3	16.4	2.0	31.0
26	33.1	24.9	29.0	0.1	16.5	5.1	36.1
27	31.9	25.7	28.8	0.0	16.5	2.2	38.3
28	32.8	24.8	28.8	2.1	18.6	1.7	40.0
29	33.3	25.5	29.4	0.0	18.6	4.1	44.1
30	36.1	25.5	30.8	16.1	34.7	2.1	46.2
Promedio	34.7	25.6	30.2	1.2		1.5	
Extremo	36.5	24	31.4	16.1		5.1	
Total Mensual				34.7		46.2	

Mayo 2016							
Día	Temperaturas (°C)			Lluvia Diaria mm (litros/m²)			
	Máxima	Mínima	Promedio	Mes Actual	Acum. Actual	Promedio Histórico	Acum. Promedio Histórico
1	34.1	24.2	29.2	35.7	35.7	5.0	5.0
2	32.1	23.8	28.0	3.3	39.0	3.0	8.0
3	31.6	24.8	28.2	0.0	39.0	2.1	10.1
4	32.0	23.9	28.0	0.0	39.0	3.7	13.8
5	34.2	24.5	29.4	8.7	47.7	4.8	18.6
6	32.8	23.4	28.1	1.9	49.6	4.9	23.5
7	29.4	23.9	26.7	0.0	49.6	3.1	26.6
8	32.4	24.3	28.4	0.0	49.6	4.7	31.3
9	34.1	25.2	29.7	0.0	49.6	1.6	32.9
10	33.5	24.6	29.1	0.1	49.7	3.0	35.9
11	32.9	25.1	29.0	0.0	49.7	4.9	40.8
12	33.7	25.2	29.5	0.0	49.7	5.3	46.1
13	34.0	26.5	30.3	0.7	50.4	4.1	50.2
14	34.3	25.1	29.7	41.2	91.6	1.6	51.8
15	34.0	25.1	29.6	0.4	92.0	6.5	58.3
16	33.6	26.6	30.1	0.0	92.0	4.7	63.0
17	33.5	26.0	29.8	0.0	92.0	7.0	70.0
18	33.0	24.9	29.0	0.2	92.2	7.6	77.6
19	33.0	25.0	29.0	28.5	120.7	6.4	84.0
20	32.5	24.8	28.7	0.1	120.8	6.9	90.9



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21	33.6	25.5	29.6	0.0	120.8	8.9	99.8
22	33.7	26.7	30.2	0.0	120.8	5.5	105.3
23	35.8	25.4	30.6	8.5	129.3	5.6	110.9
24	35.8	25.4	30.6	0.1	129.4	9.5	120.4
25	33.9	25.0	29.5	18.1	147.5	13.0	133.4
26	33.1	24.3	28.7	11.3	158.8	7.0	140.4
27	31.4	23.9	27.7	0.0	158.8	5.9	146.3
28	33.5	24.2	28.9	0.0	158.8	4.0	150.3
29	31.5	23.6	27.6	15.8	174.6	9.8	160.1
30	30.2	24.2	27.2	2.0	176.6	5.7	165.8
31	32.8	24.6	28.7	0.1	176.7	5.4	171.2
Promedio	33.1	24.8	29.0	5.7		5.5	
Extremo	35.8	23.4	30.6	41.2		13.0	
Total Mensual				176.7		171.2	

Junio 2016

Día	Temperaturas (°C)			Lluvia Diaria mm (litros/m²)			
	Máxima	Mínima	Promedio	Mes Actual	Acum. Actual	Promedio Histórico	Acum. Promedio Histórico
1	33.0	22.9	28.0	8.4	8.4	4.9	4.9
2	31.2	22.8	27.0	0.0	8.4	7.7	12.6
3	30.8	23.4	27.1	5.1	13.5	8.9	21.5
4	32.8	24.2	28.5	0.0	13.5	5.6	27.1
5	35.2	24.1	29.7	1.1	14.6	5.4	32.5
6	32.5	23.7	28.1	32.3	46.9	7.3	39.8
7	31.0	22.3	26.7	0.0	46.9	6.1	45.9
8	32.2	25.1	28.7	0.0	46.9	8.2	54.1
9	32.5	24.0	28.3	0.5	47.4	10.5	64.6
10	28.6	24.7	26.7	3.6	51.0	4.2	68.8
11	31.4	23.6	27.5	0.0	51.0	9.1	77.9
12	32.0	24.6	28.3	4.5	55.5	10.2	88.1
13	31.8	24.6	28.2	0.1	55.6	2.7	90.8
14	31.0	22.6	26.8	19.1	74.7	5.9	96.7
15	32.1	21.5	26.8	0.1	74.8	6.7	103.4
16	33.2	24.0	28.6	11.5	86.3	3.7	107.1
17	33.2	24.0	28.6	11.4	97.7	10.8	117.9
18	33.2	24.0	28.6	13.4	111.1	5.1	123.0
19	33.2	24.0	28.6	3.7	114.8	6.9	129.9
20	33.2	24.0	28.6	1.5	116.3	4.3	134.2



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21	33.0	24.0	28.5	19.3	135.6	5.2	139.4
22	33.2	24.0	28.6	1.6	137.2	5.1	144.5
23	33.5	23.8	28.7	2.5	139.7	5.8	150.3
24	30.8	22.0	26.4	62.5	202.2	7.6	157.9
25	29.3	22.3	25.8	0.0	202.2	7.2	165.1
26	31.8	24.4	28.1	0.8	203.0	3.3	168.4
27	32.9	23.7	28.3	0.0	203.0	5.4	173.8
28	32.7	25.4	29.1	2.8	205.8	6.2	180.0
29	31.9	26.0	29.0	0.0	205.8	3.6	183.6
30	32.9	24.9	28.9	19.5	225.3	6.3	189.9
Promedio	32.2	23.8	28.0	7.5		6.3	
Extremo	35.2	21.5	29.7	62.5		10.8	
Total Mensual				225.3		189.9	

Julio 2016							
Día	Temperaturas (°C)			Lluvia Diaria mm (litros/m²)			
	Máxima	Mínima	Promedio	Mes Actual	Acum. Actual	Promedio Histórico	Acum. Promedio Histórico
1	28.4	22.2	25.3	1.4	1.4	3.8	3.8
2	26.4	24.0	25.2	2.0	3.4	4.8	8.6
3	30.1	22.9	26.5	0.0	3.4	5.2	13.8
4	31.9	24.0	28.0	9.8	13.2	7.9	21.7
5	31.6	24.0	27.8	0.2	13.4	5.2	26.9
6	31.5	25.4	28.5	0.0	13.4	4.4	31.3
7	31.4	24.9	28.2	0.0	13.4	3.8	35.1
8	31.4	25.4	28.4	3.2	16.6	7.5	42.6
9	33.9	24.4	29.2	4.6	21.2	5.2	47.8
10	33.7	24.7	29.2	17.2	38.4	9.0	56.8
11	32.6	24.4	28.5	2.0	40.4	8.6	65.4
12	30.6	22.1	26.4	1.2	41.6	10.4	75.8
13	28.9	23.8	26.4	0.2	41.8	2.6	78.4
14	31.8	23.5	27.7	1.2	43.0	3.8	82.2
15	33.0	23.3	28.2	10.9	53.9	5.7	87.9
16	32.7	24.6	28.7	0.9	54.8	4.9	92.8
17	30.1	23.4	26.8	0.1	54.9	3.2	96.0
18	32.1	23.3	27.7	0.0	54.9	5.1	101.1



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19	31.6	21.8	26.7	1.1	56.0	5.1	106.2
20	32.4	24.2	28.3	10.2	66.2	6.0	112.2
21	30.4	23.1	26.8	1.6	67.8	6.7	118.9
22	32.3	23.1	27.7	14.3	82.1	6.3	125.2
23	31.1	23.5	27.3	3.8	85.9	8.0	133.2
24	30.7	22.6	26.7	18.8	104.7	3.3	136.5
25	31.3	23.2	27.3	0.0	104.7	4.9	141.4
26	33.0	24.6	28.8	0.9	105.6	5.0	146.4
27	32.2	25.1	28.7	1.8	107.4	7.6	154.0
28	31.5	24.2	27.9	0.0	107.4	5.2	159.2
29	32.6	23.8	28.2	0.4	107.8	7.3	166.5
30	30.2	23.0	26.6	0.1	107.9	2.9	169.4
31						2.9	172.3
Promedio	31.4	23.8	27.6	3.6		5.6	
Extremo	33.9	21.8	29.2	18.8		10.4	
Total Mensual				107.9		172.3	

Agosto 2016							
Día	Temperaturas (°C)			Lluvia Diaria mm (litros/m²)			
	Máxima	Minima	Promedio	Mes Actual	Acum. Actual	Promedio Histórico	Acum. Promedio Histórico
1	31.9	24.5	28.2	8.9	8.9	6.0	6.0
2	33.4	24.6	29.0	3.1	12.0	5.5	11.5
3	28.8	24.7	26.8	13.0	25.0	4.3	15.8
4	31.6	23.3	27.5	0.2	25.2	6.1	21.9
5	33.2	24.1	28.7	0.0	25.2	7.6	29.5
6	32.3	25.3	28.8	2.6	27.8	5.9	35.4
7	32.2	25.0	28.6	21.1	48.9	7.4	42.8
8	33.9	24.0	29.0	1.8	50.7	3.4	46.2
9	33.9	24.0	29.0	6.8	57.5	6.1	52.3
10	26.5	23.5	25.0	5.5	63.0	5.3	57.6
11	32.2	23.8	28.0	0.1	63.1	7.2	64.8
12	32.4	23.5	28.0	0.0	63.1	9.1	73.9
13	34.5	24.1	29.3	0.0	63.1	7.8	81.7
14	32.3	23.8	28.1	14.1	77.2	5.6	87.3
15	31.8	23.6	27.7	0.0	77.2	7.8	95.1
16	31.3	24.2	27.8	0.0	77.2	7.6	102.7
17	32.1	23.7	27.9	6.1	83.3	4.4	107.1
18						4.3	111.4



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19						5.5	116.9
20						5.5	122.4
21						7.8	130.2
22						5.9	136.1
23						8.3	144.4
24						4.5	148.9
25						6.5	155.4
26	31.9	23.2	27.6	17.2	100.5	8.2	163.6
27	32.8	22.6	27.7	0.0	100.5	7.6	171.2
28						4.2	175.4
29	31.3	23.4	27.4	29.4	129.9	4.2	179.6
30						5.2	184.8
31	30.0	23.5	26.8	0.6	130.5	8.7	193.5
Promedio	31.9	23.9	27.9	6.2		6.2	
Extremo	34.5	22.6	29.3	29.4		9.1	
Total Mensual				130.5		193.5	

Septiembre 2016							
Día	Temperaturas (°C)			Lluvia Diaria mm (litros/m²)			
	Máxima	Minima	Promedio	Mes Actual	Acum. Actual	Promedio Histórico	Acum. Promedio Histórico
1	31.6	23.5	27.6	0.0	0.0	6.4	6.4
2	30.2	23.2	26.7	13.1	13.1	8.8	15.2
3	33.0	22.8	27.9	0.0	13.1	4.6	19.8
4	33.0	22.8	27.9	2.7	15.8	4.8	24.6
5	28.6	23.6	26.1	1.2	17.0	8.5	33.1
6				0.6	17.6	7.9	41.0
7	32.1	24.9	28.5	0.2	17.8	5.3	46.3
8	31.4	23.4	27.4	1.3	19.1	6.2	52.5
9	31.6	23.5	27.6	9.1	28.2	5.5	58.0
10	30.3	24.1	27.2	18.8	47.0	6.1	64.1
11				3.3	50.3	7.0	71.1
12				2.6	52.9	4.4	75.5
13	31.3	21.7	26.5	0.0	52.9	7.2	82.7
14						9.5	92.2
15	29.5	23.3	26.4	4.0	56.9	10.8	103.0
16	32.6	23.3	28.0	0.0	56.9	4.6	107.6
17						8.0	115.6



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18	31.9	23.7	27.8	0.0	56.9	7.5	123.1
19	27.6	24.8	26.2	8.0	64.9	5.5	128.6
20	31.2	23.0	27.1	0.0	64.9	10.4	139.0
21	31.7	22.9	27.3	60.0	124.9	5.0	144.0
22	31.9	21.7	26.8	1.0	125.9	8.8	152.8
23	33.1	23.3	28.2	0.0	125.9	6.1	158.9
24	32.7	23.9	28.3	178.0	303.9	3.5	162.4
25	29.0	23.3	26.2	9.0	312.9	4.5	166.9
26	31.9	23.1	27.5	10.0	322.9	10.4	177.3
27	31.0	22.6	26.8	0.0	322.9	6.6	183.9
28	32.9	23.5	28.2	1.0	323.9	5.2	189.1
29	33.5	22.7	28.1	3.0	326.9	6.2	195.3
30						5.7	201.0
Promedio	31.4	23.3	27.3	12.1		6.7	
Extremo	33.5	21.7	28.5	178.0		10.8	
Total Mensual				326.9		201.0	

Octubre 2016							
Día	Temperaturas (°C)			Lluvia Diaria mm (litros/m²)			
	Máxima	Mínima	Promedio	Mes Actual	Acum. Actual	Promedio Histórico	Acum. Promedio Histórico
1						4.8	4.8
2						9.9	14.7
3						6.8	21.5
4						2.8	24.3
5						7.8	32.1
6						8.3	40.4
7						14.4	54.8
8						8.8	63.6
9						5.6	69.2
10						9.9	79.1
11						9.1	88.2
12						7.4	95.6
13	33.5	22.7	28.1	0.0	0.0	13.6	109.2
14						6.1	115.3
15						11.0	126.3
16						7.0	133.3
17						8.8	142.1
18						9.1	151.2



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19						6.8	158.0
20						7.3	165.3
21						8.9	174.2
22						8.5	182.7
23						8.5	191.2
24						9.3	200.5
25						11.5	212.0
26						9.9	221.9
27						9.2	231.1
28	33.5	22.7	28.1	0.0	0.0	8.0	239.1
29						9.4	248.5
30						14.0	262.5
31						9.2	271.7
Promedio	33.5	22.7	28.1	0.0		8.8	
Extremo	33.5	22.7	28.1	0.0		14.4	
Total Mensual				0.0		271.7	

Noviembre 2016							
Día	Temperaturas (°C)			Lluvia Diaria mm (litros/m²)			
	Máxima	Mínima	Promedio	Mes Actual	Acum. Actual	Promedio Histórico	Acum. Promedio Histórico
1						7.2	7.2
2						8.5	15.7
3						4.0	19.7
4						5.7	25.4
5						10.7	36.1
6						9.3	45.4
7						9.3	54.7
8						11.0	65.7
9						5.4	71.1
10						9.7	80.8
11						9.4	90.2
12						8.5	98.7
13						5.8	104.5
14						6.4	110.9
15						10.4	121.3
16						6.1	127.4
17						5.0	132.4



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18						2.0	134.4
19						9.3	143.7
20						10.1	153.8
21						9.8	163.6
22						7.2	170.8
23						5.5	176.3
24						6.4	182.7
25				0.0	0.0	11.7	194.4
26						5.9	200.3
27						5.6	205.9
28						6.4	212.3
29						3.4	215.7
30						7.2	222.9
Promedio	0.0	0.0	0.0	0.0		7.4	
Extremo	0	100	0	0.0		11.7	
Total Mensual				0.0		222.9	

Diciembre 2016							
Día	Temperaturas (°C)			Lluvia Diaria mm (litros/m²)			
	Máxima	Mínima	Promedio	Mes Actual	Acum. Actual	Promedio Histórico	Acum. Promedio Histórico
1						6.2	6.2
2						5.6	11.8
3						5.3	17.1
4						4.6	21.7
5						4.9	26.6
6						6.8	33.4
7						5.2	38.6
8						3.8	42.4
9						7.6	50.0
10						5.6	55.6
11						3.3	58.9
12						3.0	61.9
13						3.2	65.1
14						1.2	66.3
15						2.7	69.0
16						2.1	71.1



MINISTERIO
DE AMBIENTE



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17						1.8	72.9
18						2.2	75.1
19						2.0	77.1
20						0.8	77.9
21						1.1	79.0
22						2.2	81.2
23						2.1	83.3
24						1.3	84.6
25						1.4	86.0
26						2.9	88.9
27						0.4	89.3
28						3.2	92.5
29						0.8	93.3
30				0.0	0.0	2.4	95.7
31						0.7	96.4
Promedio	0.0	0.0	0.0	0.0		3.1	
Extremo	0	100	0	0.0		7.6	
Total Mensual				0.0		96.4	

Enero 2017

Día	Temperaturas (°C)			Lluvia Diaria mm (litros/m²)			
	Máxima	Mínima	Promedio	Mes Actual	Acum. Actual	Promedio Histórico	Acum. Promedio Histórico
1				27.0	27.0	0.7	0.7
2						1.3	2.0
3						3.6	5.6
4						2.8	8.4
5						2.1	10.5
6						2.9	13.4
7						2.7	16.1
8						0.9	17.0
9						2.8	19.8
10						0.6	20.4
11						0.0	20.4
12						0.4	20.8
13				0.0	27.0	0.4	21.2
14						0.8	22.0
15						0.0	22.0
16						1.9	23.9



MINISTERIO DE
MEDIO AMBIENTE



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17						0.5	24.4
18						0.0	24.4
19				0.0	27.0	0.0	24.4
20	33.7	23.3	28.5	0.0	27.0	0.1	24.5
21	31.4	23.4	27.4	0.0	27.0	0.0	24.5
22	32.6	22.1	27.4	0.2	27.2	0.1	24.6
23	34.2	21.6	27.9	0.0	27.2	1.8	26.4
24	34.2	21.9	28.1	0.0	27.2	0.2	26.6
25	32.6	22.8	27.7	0.0	27.2	0.0	26.6
26						0.0	26.6
27						0.6	27.2
28						0.3	27.5
29	32.4	24.8	28.6	0.0	27.2	0.0	27.5
30	32.1	24.2	28.2	0.0	27.2	0.1	27.6
31						0.0	27.6
Promedio	32.9	23.0	28.0	2.5		0.9	
Extremo	34.2	21.6	28.6	27.0		3.6	
Total Mensual				27.2		27.6	

Febrero 2017							
Día	Temperaturas (°C)			Lluvia Diaria mm (litros/m²)			
	Máxima	Minima	Promedio	Mes Actual	Acum. Actual	Promedio Histórico	Acum. Promedio Histórico
1	32.7	24.4	28.6	0.0	0.0	0.0	0.0
2	32.9	25.2	29.1	0.0	0.0	0.0	0.0
3	32.9	23.5	28.2	0.1	0.1	0.2	0.2
4				0.0	0.1	0.0	0.2
5				0.0	0.1	0.1	0.3
6	33.6	25.9	29.8	0.0	0.1	1.7	2.0
7						0.7	2.7
8						0.1	2.8
9						0.1	2.9
10	33.7	25.9	29.8	0.0	0.1	0.0	2.9
11	31.8	24.0	27.9	0.0	0.1	0.2	3.1
12						0.0	3.1
13	33.2	24.0	28.6	0.0	0.1	0.0	3.1
14	34.1	23.0	28.6	0.0	0.1	0.0	3.1



INSTITUTO
NACIONAL DE
ESTADÍSTICA



2018-2-66-0-15-LP-013744_ "DISEÑO Y CONSTRUCCIÓN DE MEJORAS AL SISTEMA DE ABASTECIMIENTO DE AGUA POTABLE DE SAN CARLOS – DISTRITO DE SAN CARLOS. PROVINCIA DE PANAMÁ OESTE

15				0.0	0.1	0.0	3.1
16	34.0	23.4	28.7	0.0	0.1	0.0	3.1
17	33.5	23.1	28.3	0.0	0.1	0.8	3.9
18	33.7	22.3	28.0	0.0	0.1	0.1	4.0
19	33.3	23.8	28.6	0.0	0.1	0.0	4.0
20				0.0	0.1	0.2	4.2
21	33.4	22.6	28.0	0.0	0.1	0.0	4.2
22	33.0	22.9	28.0	0.0	0.1	0.1	4.3
23				0.0	0.1	0.3	4.6
24	31.9	21.0	26.5	0.0	0.1	0.7	5.3
25	33.4	21.8	27.6	0.0	0.1	0.0	5.3
26	35.1	24.2	29.7	0.0	0.1	0.0	5.3
27	34.7	24.8	29.8	1.0	1.1	0.0	5.3
28	34.2	24.9	29.6	0.0	1.1	0.0	5.3
Promedio	33.4	23.7	28.6	0.0		0.2	
Extremo	35.1	21	29.8	1.0		1.7	
Total Mensual				1.1		5.3	

Marzo 2017							
Día	Temperaturas (°C)			Lluvia Diaria mm (litros/m²)			
	Máxima	Mínima	Promedio	Mes Actual	Acum. Actual	Promedio Histórico	Acum. Promedio Histórico
1	34.6	24.0	29.3	0.0	0.0	0.0	0.0
2	33.9	24.6	29.3	0.0	0.0	0.0	0.0
3	33.6	24.0	28.8	0.0	0.0	0.4	0.4
4	33.0	25.5	29.3	0.0	0.0	0.1	0.5
5	31.2	23.7	27.5	13.0	13.0	0.2	0.7
6	34.0	25.3	29.7	0.0	13.0	0.0	0.7
7				0.0	13.0	0.8	1.5
8						0.1	1.6
9	34.5	25.2	29.9	0.0	13.0	0.1	1.7
10	34.1	24.9	29.5	0.0	13.0	0.3	2.0
11						0.1	2.1
12						0.0	2.1
13						0.0	2.1
14	33.2	25.5	29.4	0.0	13.0	0.0	2.1



INGENIERIA
SOLUCIONES



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15	33.6	25.1	29.4	4.0	17.0	0.1	2.2
16	34.4	24.9	29.7	0.0	17.0	0.7	2.9
17	34.4	24.9	29.7	0.0	17.0	0.2	3.1
18	34.7	24.5	29.6	0.0	17.0	0.1	3.2
19	33.8	23.2	28.5	0.0	17.0	0.0	3.2
20	33.7	22.8	28.3	0.0	17.0	0.2	3.4
21	35.1	24.0	29.6	0.0	17.0	0.3	3.7
22	34.4	25.0	29.7	0.0	17.0	0.4	4.1
23	34.3	24.6	29.5	0.0	17.0	0.1	4.2
24	33.5	24.3	28.9	0.0	17.0	0.8	5.0
25	32.3	23.9	28.1	0.0	17.0	0.0	5.0
26	34.2	23.9	29.1	0.0	17.0	0.0	5.0
27				0.0	17.0	0.7	5.7
28				0.0	17.0	0.1	5.8
29	34.9	24.4	29.7	0.0	17.0	0.4	6.2
30	34.2	24.6	29.4	0.0	17.0	0.2	6.4
31	35.1	24.7	29.9	0.0	17.0	0.5	6.9
Promedio	33.9	24.5	29.2	0.6		0.2	
Extremo	35.1	22.8	29.9	13.0		0.8	
Total Mensual				17.0		6.9	

Abril 2017							
Día	Temperaturas (°C)			Lluvia Diaria mm (litros/m²)			
	Máxima	Mínima	Promedio	Mes Actual	Acum. Actual	Promedio Histórico	Acum. Promedio Histórico
1				0.0	0.0	0.1	0.1
2	34.6	25.4	30.0	20.0	20.0	0.0	0.1
3	34.3	25.4	29.9	0.0	20.0	0.0	0.1
4	36.0	25.6	30.8	0.0	20.0	0.7	0.8
5						0.1	0.9
6						1.6	2.5
7	35.3	26.4	30.9	0.0	20.0	0.3	2.8
8	34.9	25.5	30.2	0.0	20.0	1.2	4.0
9	33.6	24.3	29.0	0.0	20.0	0.6	4.6
10	34.8	23.5	29.2	0.0	20.0	1.6	6.2
11				0.0	20.0	3.1	9.3
12				0.0	20.0	1.7	11.0
13	34.9	24.9	29.9	0.0	20.0	1.1	12.1
14	35.6	25.5	30.6	0.0	20.0	0.6	12.7



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15	34.9	26.4	30.7	0.0	20.0	2.3	15.0
16	36.2	26.6	31.4	0.0	20.0	2.4	17.4
17	32.5	24.1	28.3	7.3	27.3	0.1	17.5
18				10.2	37.5	0.1	17.6
19	33.5	23.7	28.6	3.0	40.5	1.8	19.4
20	32.9	23.3	28.1	0.1	40.6	2.8	22.2
21	33.4	24.4	28.9	0.0	40.6	1.9	24.1
22	33.8	23.7	28.8	0.0	40.6	1.3	25.4
23	34.0	24.7	29.4	0.0	40.6	2.0	27.4
24	35.8	25.2	30.5	0.0	40.6	1.6	29.0
25				0.0	40.6	2.0	31.0
26				0.0	40.6	5.1	36.1
27				0.0	40.6	2.2	38.3
28	34.7	25.8	30.3	0.9	41.5	1.7	40.0
29	35.1	26.4	30.8	0.0	41.5	4.1	44.1
30	28.4	24.1	26.3	11.5	53.0	2.1	46.2
Promedio	34.2	25.0	29.6	1.9		1.5	
Extremo	36.2	23.3	31.4	20.0		5.1	
Total Mensual				53.0		46.2	

Mayo 2017							
Día	Temperaturas (°C)			Lluvia Diaria mm (litros/m²)			
	Máxima	Minima	Promedio	Mes Actual	Acum. Actual	Promedio Histórico	Acum. Promedio Histórico
1	32.8	22.7	27.8	0.2	0.2	5.0	5.0
2	32.9	24.3	28.6	0.0	0.2	3.0	8.0
3	32.1	24.1	28.1	2.8	3.0	2.1	10.1
4	33.8	23.6	28.7	0.0	3.0	3.7	13.8
5	34.2	24.1	29.2	35.5	38.5	4.8	18.6
6	27.4	23.4	25.4	28.8	67.3	4.9	23.5
7	32.0	23.9	28.0	3.6	70.9	3.1	26.6
8	33.0	23.2	28.1	31.6	102.5	4.7	31.3
9	31.5	23.1	27.3	2.4	104.9	1.6	32.9
10	32.1	23.2	27.7	0.2	105.1	3.0	35.9
11	31.6	23.9	27.8	41.7	146.8	4.9	40.8
12	32.5	23.2	27.9	19.6	166.4	5.3	46.1



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13	32.3	23.1	27.7	0.0	166.4	4.1	50.2
14	34.7	24.3	29.5	0.0	166.4	1.6	51.8
15	34.9	25.0	30.0	3.0	169.4	6.5	58.3
16	34.6	23.5	29.1	7.1	176.5	4.7	63.0
17	33.2	23.8	28.5	1.7	178.2	7.0	70.0
18	33.1	24.4	28.8	0.0	178.2	7.6	77.6
19	33.6	24.7	29.2	2.7	180.9	6.4	84.0
20	32.3	22.5	27.4	41.3	222.2	6.9	90.9
21	30.3	24.0	27.2	0.1	222.3	8.9	99.8
22	31.8	23.5	27.7	0.0	222.3	5.5	105.3
23	31.9	23.8	27.9	1.9	224.2	5.6	110.9
24	33.6	25.0	29.3	15.1	239.3	9.5	120.4
25	26.6	25.2	25.9	0.1	239.4	13.0	133.4
26	33.1	23.9	28.5	17.1	256.5	7.0	140.4
27	31.4	25.2	28.3	0.1	256.6	5.9	146.3
28	33.3	23.6	28.5	0.1	256.7	4.0	150.3
29	33.3	23.6	28.5	0.2	256.9	9.8	160.1
30	30.9	24.7	27.8	0.0	256.9	5.7	165.8
31	33.7	23.8	28.8	17.1	274.0	5.4	171.2
Promedio	32.4	23.9	28.2	8.8		5.5	
Extremo	34.9	22.5	30	41.7		13.0	
Total Mensual				274.0		171.2	

Junio 2017

Día	Temperaturas (°C)			Lluvia Diaria mm (litros/m²)			
	Máxima	Mínima	Promedio	Mes Actual	Acum. Actual	Promedio Histórico	Acum. Promedio Histórico
1	31.7	24.2	28.0	0.1	0.1	4.9	4.9
2	31.7	24.2	28.0	0.1	0.2	7.7	12.6
3						8.9	21.5
4	32.0	25.2	28.6	1.0	1.2	5.6	27.1
5	32.0	24.7	28.4	0.0	1.2	5.4	32.5
6	34.5	24.7	29.6	24.7	25.9	7.3	39.8
7	29.4	24.1	26.8	2.1	28.0	6.1	45.9
8	31.2	23.4	27.3	18.1	46.1	8.2	54.1
9	31.2	23.7	27.5	7.9	54.0	10.5	64.6
10	33.3	23.9	28.6	32.5	86.5	4.2	68.8
11	29.8	24.6	27.2	0.0	86.5	9.1	77.9
12	30.7	23.4	27.1	13.1	99.6	10.2	88.1



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13	32.5	23.6	28.1	0.1	99.7	2.7	90.8
14	32.4	23.0	27.7	0.1	99.8	5.9	96.7
15	33.4	23.4	28.4	0.0	99.8	6.7	103.4
16	32.8	22.7	27.8	0.9	100.7	3.7	107.1
17				0.1	100.8	10.8	117.9
18						5.1	123.0
19	30.5	24.0	27.3	1.5	102.3	6.9	129.9
20	32.9	23.7	28.3	0.0	102.3	4.3	134.2
21	27.9	24.1	26.0	4.1	106.4	5.2	139.4
22	27.8	23.6	25.7	0.8	107.2	5.1	144.5
23	30.7	22.8	26.8	0.0	107.2	5.8	150.3
24	32.6	25.0	28.8	0.0	107.2	7.6	157.9
25	31.3	24.8	28.1	0.0	107.2	7.2	165.1
26	31.8	23.5	27.7	1.0	108.2	3.3	168.4
27	33.2	22.7	28.0	0.5	108.7	5.4	173.8
28	32.0	23.5	27.8	8.4	117.1	6.2	180.0
29	31.7	24.1	27.9	0.1	117.2	3.6	183.6
30	32.2	24.0	28.1	0.0	117.2	6.3	189.9
Promedio	31.6	23.9	27.8	4.2		6.3	
Extremo	34.5	22.7	29.6	32.5		10.8	
Total Mensual				117.2		189.9	

Julio 2017							
Día	Temperaturas (°C)			Lluvia Diaria mm (litros/m²)			
	Máxima	Minima	Promedio	Mes Actual	Acum. Actual	Promedio Histórico	Acum. Promedio Histórico
1	34.1	24.5	29.3	6.7	6.7	3.8	3.8
2	32.1	25.3	28.7	1.2	7.9	4.8	8.6
3	29.4	24.3	26.9	0.2	8.1	5.2	13.8
4	32.6	23.4	28.0	0.4	8.5	7.9	21.7
5	32.1	24.0	28.1	0.1	8.6	5.2	26.9
6	32.9	24.0	28.5	5.1	13.7	4.4	31.3
7	30.9	23.7	27.3	0.0	13.7	3.8	35.1
8	32.4	24.6	28.5	0.0	13.7	7.5	42.6
9	32.4	24.6	28.5	0.0	13.7	5.2	47.8
10				0.2	13.9	9.0	56.8



MINISTERIO DE
MEDIO AMBIENTE



2018-2-66-0-15-LP-013744_ "DISEÑO Y CONSTRUCCIÓN DE MEJORAS AL SISTEMA DE ABASTECIMIENTO DE AGUA POTABLE DE SAN CARLOS – DISTRITO DE SAN CARLOS. PROVINCIA DE PANAMÁ OESTE

11	30.7	23.9	27.3	3.5	17.4	8.6	65.4
12	33.0	23.5	28.3	0.0	17.4	10.4	75.8
13	33.5	24.6	29.1	9.0	26.4	2.6	78.4
14				2.2	28.6	3.8	82.2
15	31.0	24.0	27.5	0.0	28.6	5.7	87.9
16	33.1	23.3	28.2	0.5	29.1	4.9	92.8
17	32.3	23.6	28.0	0.9	30.0	3.2	96.0
18	32.2	24.7	28.5	0.8	30.8	5.1	101.1
19	27.8	24.1	26.0	0.7	31.5	5.1	106.2
20	31.8	23.3	27.6	0.0	31.5	6.0	112.2
21	32.7	23.5	28.1	15.2	46.7	6.7	118.9
22	31.3	23.8	27.6	34.6	81.3	6.3	125.2
23	31.8	23.4	27.6	3.9	85.2	8.0	133.2
24	32.3	23.6	28.0	0.2	85.4	3.3	136.5
25	32.6	24.9	28.8	2.5	87.9	4.9	141.4
26	31.2	24.2	27.7	0.3	88.2	5.0	146.4
27	33.2	25.1	29.2	0.1	88.3	7.6	154.0
28	31.6	24.4	28.0	0.0	88.3	5.2	159.2
29	32.2	23.9	28.1	0.4	88.7	7.3	166.5
30	31.0	22.6	26.8	5.0	93.7	2.9	169.4
31	30.9	22.3	26.6	0.1	93.8	2.9	172.3
Promedio	31.9	24.0	28.0	3.0		5.6	
Extremo	34.1	22.3	29.3	34.6		10.4	
Total Mensual				93.8		172.3	

Agosto 2017

Día	Temperaturas (°C)			Lluvia Diaria mm (litros/m²)			
	Máxima	Mínima	Promedio	Mes Actual	Acum. Actual	Promedio Histórico	Acum. Promedio Histórico
1	32.5	23.4	28.0	0.0	0.0	6.0	6.0
2	32.8	24.4	28.6	0.0	0.0	5.5	11.5
3	33.7	24.4	29.1	3.1	3.1	4.3	15.8
4	32.7	24.2	28.5	46.8	49.9	6.1	21.9
5	33.3	23.3	28.3	0.8	50.7	7.6	29.5
6	33.9	24.4	29.2	0.0	50.7	5.9	35.4
7	32.9	23.7	28.3	0.7	51.4	7.4	42.8
8	31.6	23.5	27.6	14.1	65.5	3.4	46.2
9	30.9	22.6	26.8	0.1	65.6	6.1	52.3
10	32.1	23.8	28.0	0.0	65.6	5.3	57.6