

UNIVERSIDAD NACIONAL DE COLOMBIA SEDE MANIZALES



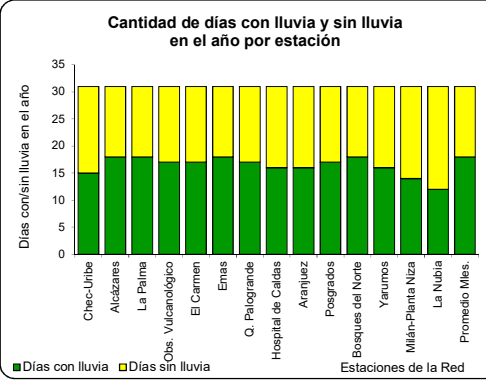
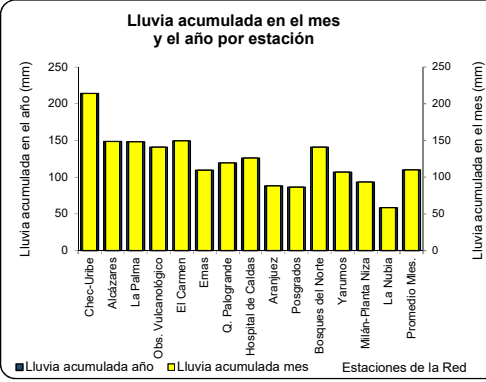
RED DE ESTACIONES HIDROMETEOROLÓGICAS DE MANIZALES ESTACIONES PARA LA GESTIÓN DEL RIESGO ANTE DESASTRES POR DESLIZAMIENTOS Sistema Integrado de Monitoreo Ambiental de Caldas - SIMAC



REGISTROS DE LLUVIA DIARIA E INDICADORES DE LLUVIA ANTECEDENTE DE 25 DÍAS

ENERO DE 2018

Estaciones	Chec-Uribe		Alcázares		La Palma		Observatorio Vulcanológico		El Carmen		Emas		Quebrada Palogrande-Ruta 30		Hospital de Caldas		Aranjuez		Posgrados		Bosques del Norte		Yarumos		Milán-Planta Niza		La Nubia		Promedio Manizales			
	Propietarios	CHEC S.A. E.S.P	Alcaldía/UGR	Alcaldía/UGR	Alcaldía/UGR	Alcaldía/UGR	Alcaldía/UGR	EMAS S.A. E.S.P	UN-Manizales	Alcaldía/UGR	Alcaldía/UGR	Alcaldía/UGR	Alcaldía/UGR	Alcaldía/UGR	UN-Manizales	Alcaldía/UGR	Alcaldía/UGR	Alcaldía/UGR	Alcaldía/UGR	Alcaldía/UGR	Alcaldía/UGR	Alcaldía/UGR	Alcaldía/UGR	Alcaldía/UGR	Alcaldía/UGR	Alcaldía/UGR	Alcaldía/UGR	Alcaldía/UGR	Alcaldía/UGR			
Día	LI. d.	A25	LI. d.	A25	LI. d.	A25	LI. d.	A25	LI. d.	A25	LI. d.	A25	LI. d.	A25	LI. d.	A25	LI. d.	A25	LI. d.	A25	LI. d.	A25	LI. d.	A25	LI. d.	A25	LI. d.	A25	LI. d.	A25	LI. d.	A25
L 1	10.0	257.4	12.6	304.3	15.4	275.2	11.8	288.6	11.2	181.4	8.0	171.6	11.2	208.6	17.6	221.8	9.0	118.4	11.4	211.2	9.4	210.2	12.0	188.4	11.4	203.6	7.6	135.2	10.8	198.9		
Ma 2	0.0	257.4	0.2	305.0	0.0	275.2	0.2	288.6	0.0	181.6	0.0	158.4	0.4	209.0	0.4	222.2	0.4	118.8	0.4	211.6	0.6	210.6	0.8	189.0	1.6	205.2	1.6	136.8	0.8	198.6		
Mi 3	1.8	259.2	2.4	307.4	0.4	275.6	4.0	292.6	5.0	186.6	1.8	159.2	7.2	216.2	5.2	227.4	3.8	122.6	2.0	213.6	4.6	215.2	2.0	191.0	2.8	208.0	2.0	138.8	2.7	201.3		
J 4	3.2	262.4	3.8	312.2	0.8	276.4	1.2	293.8	1.8	188.4	3.0	144.8	3.6	219.8	3.8	231.2	3.4	126.0	5.0	218.6	6.2	221.4	6.8	197.8	8.8	216.8	5.4	144.2	4.7	206.0		
V 5	3.0	188.4	4.6	210.8	6.8	174.8	7.4	205.8	3.2	155.8	4.2	133.4	4.0	169.8	8.4	183.8	1.8	115.6	2.4	158.2	3.2	176.4	4.0	153.6	3.4	159.6	4.8	104.6	4.5	152.6		
S 6	15.0	181.2	8.8	198.8	1.0	171.6	3.4	192.4	6.4	146.4	1.0	124.8	11.2	170.4	9.2	183.4	5.2	115.8	3.4	153.6	2.6	172.4	5.0	154.6	5.2	159.4	1.2	102.0	4.3	148.8		
D 7	5.2	186.4	4.8	203.6	8.4	180.0	3.0	195.4	2.4	148.8	3.6	128.4	1.6	172.0	2.0	185.0	0.0	115.6	1.4	155.0	2.6	175.0	3.2	157.6	1.2	160.0	0.0	102.0	2.5	151.4		
L 8	45.6	232.0	20.4	224.0	7.6	187.6	11.0	206.4	31.4	180.2	15.8	144.2	8.8	180.8	7.2	192.6	1.6	117.2	0.4	155.4	38.0	213.0	1.6	159.2	0.0	160.6	0.0	102.0	9.5	160.9		
Ma 9	40.8	272.8	29.4	253.4	38.6	226.2	45.0	251.4	34.0	214.2	30.0	174.2	33.6	214.4	27.8	220.4	29.8	147.0	22.6	178.0	20.2	233.2	16.0	175.2	16.8	177.4	10.8	112.8	24.2	185.1		
Mi 10	0.0	272.8	0.2	253.6	0.2	226.4	0.2	251.6	0.0	214.2	0.2	174.4	0.0	214.4	0.0	220.4	0.2	147.2	0.2	178.2	0.2	233.4	0.0	175.2	0.0	177.4	0.0	112.8	0.1	185.2		
J 11	0.0	272.8	0.0	253.6	0.0	226.4	0.0	251.6	0.0	214.2	0.0	174.4	0.0	214.4	0.0	220.4	0.0	147.2	0.0	178.2	0.0	233.4	0.0	175.2	0.0	177.4	0.0	112.8	0.0	185.2		
V 12	5.6	278.4	4.8	258.4	4.8	231.2	3.4	255.0	6.0	220.2	8.0	175.2	5.4	219.8	6.4	226.8	8.6	155.8	3.0	181.2	1.2	234.6	5.8	181.0	6.2	183.6	8.0	128.8	5.4	190.6		
S 13	4.8	283.2	8.0	266.4	6.6	237.8	6.2	261.2	7.2	227.4	6.2	181.4	8.8	228.6	9.6	236.4	5.4	161.2	9.4	190.6	9.6	244.2	11.0	192.0	13.2	196.8	7.6	120.8	8.6	199.2		
D 14	14.2	297.4	2.2	268.6	11.8	249.6	0.8	262.0	10.6	238.0	0.4	181.8	0.6	229.2	1.2	237.6	1.6	162.8	1.0	191.6	1.8	246.0	2.6	194.6	3.2	200.0	0.0	128.4	3.4	202.6		
L 15	22.0	319.4	33.8	302.4	32.6	282.2	33.8	295.8	20.0	258.0	19.0	200.8	12.4	241.6	14.6	252.2	7.4	170.2	11.8	203.4	18.2	264.2	24.2	218.8	6.8	206.8	0.4	128.8	15.0	217.6		
Ma 16	0.0	319.4	0.2	302.6	0.2	282.4	0.0	295.8	0.6	258.6	1.2	202.0	0.4	242.0	2.2	254.4	0.0	170.2	1.4	204.8	0.2	264.4	1.8	220.6	0.0	206.8	0.0	128.8	0.4	218.1		
Mi 17	3.4	322.8	4.0	306.6	8.0	290.4	4.8	300.6	3.4	262.0	9.6	211.6	5.0	247.0	5.2	259.6	4.2	174.4	5.4	210.2	17.4	281.8	6.0	226.6	7.0	213.8	3.6	132.4	6.2	224.3		
J 18	5.2	328.0	6.0	312.6	2.8	293.2	4.0	304.6	5.2	267.2	3.6	215.2	4.8	251.8	5.2	264.8	5.4	179.8	5.2	215.4	4.4	286.2	4.0	230.6	5.8	219.6	5.0	137.4	4.7	229.0		
V 19	0.0	298.2	0.0	277.0	0.6	272.4	0.0	269.4	0.0	240.6	0.8	192.0	0.2	218.4	0.0	232.2	0.0	159.6	0.0	188.2	0.4	257.0	0.0	218.8	0.0	205.8	0.0	133.4	0.2	209.9		
S 20	0.0	287.2	0.0	258.4	0.0	269.6	0.0	246.4	0.0	235.0	0.2	190.0	0.0	212.6	0.0	227.8	0.0	155.4	0.0	185.2	0.0	248.4	0.0	212.4	0.0	200.4	0.0	123.2	0.0	202.4		
D 21	0.0	281.4	0.0	249.4	0.0	259.4	0.0	241.0	0.0	228.4	0.0	186.8	0.0	207.2	0.0	223.0	0.0	151.2	0.0	180.6	0.0	244.8	0.0	210.0	0.0	195.2	0.0	121.8	0.0	197.7		
L 22	0.0	242.8	0.0	215.0	0.0	221.6	0.0	209.6	0.0	203.0	0.0	157.0	0.0	175.0	0.0	190.0	0.0	130.2	0.0	149.0	0.0	206.0	0.0	173.6	0.0	158.8	0.0	98.8	0.0	166.2		
Ma 23	0.0	216.0	0.0	191.8	0.0	190.8	0.0	172.2	0.0	179.0	0.0	136.0	0.0	149.2	0.0	164.4	0.0	106.2	0.0	121.6	0.0	183.6	0.0	143.8	0.0	134.0	0.0	82.0	0.0	141.9		
Mi 24	0.0	199.2	0.0	172.0	0.0	161.2	0.0	161.2	0.0	173.0	0.0	126.2	0.0	142.0	0.0	153.6	0.0	102.6	0.0	114.2	0.0	177.0	0.0	137.6	0.0	127.8	0.0	74.6	0.0	131.4		
J 25	0.0	179.8	0.0	146.2	0.0	146.6	0.0	140.2	0.0	148.6	0.0	109.4	0.0	119.2	0.0	126.0	0.0	87.8	0.0	86.4	0.0	140.8	0.0	106.8	0.0	93.4	0.0	58.0	0.0	108.0		
V 26	0.0	169.8	0.0	133.6	0.0	131.2	0.0	128.4	0.0	137.4	0.0	101.4	0.0	108.0	0.0	108.4	0.0	78.8	0.0	75.0	0.0	131.4	0.0	94.8	0.0	82.0	0.0	50.4	0.0	97.2		
S 27	0.0	169.8	0.0	133.4	0.0	131.2	0.0	128.2	0.0	137.2	0.0	101.4	0.0	107.6	0.0	108.0	0.0	78.4	0.0	74.6	0.0	130.8	0.0	94.0	0.0	80.4	0.0	48.8	0.0	96.5		
D 28	0.0	168.0	0.0	131.0	0.0	130.8	0.0	124.2	0.0	132.2	0.0	99.6	0.0	100.4	0.0	102.8	0.0	74.6	0.0	72.6	0.0	126.2	0.0	92.0	0.0	77.6	0.0	46.8	0.0	93.8		
L 29	0.0	164.8	0.0	127.2	0.0	130.0	0.0	123.0	0.0	130.4	0.0	96.6	0.0	96.8	0.0	99.0	0.0	71.2	0.0	67.6	0.0	120.0	0.0	85.2	0.0	68.8	0.0	41.4	0.0	89.1		
Ma 30	34.2	196.0	2.4	125.0	1.4	124.6	0.6	116.2	0.6	127.8	0.0	92.4	0.0	92.8	0.0	90.6	0.4	69.8	0.0	65.2	0.0	116.8	0.0	81.2	0.0	65.4	0.0	36.6	1.8	86.4		
Mi 31	0.0	181.0	0.0	116.2	0.0	123.6	0.0	112.8	0.0	121.4	0.0	91.4	0.0	81.6	0.0	81.4	0.0	64.6	0.0	61.8	0.0	114.2	0.0	76.2	0.0	60.2	0.0	35.4	0.0	82.2		
LI. mes	214.0	328.0	148.6	312.6	148.0	293.2	140.8	304.6	149.2	267.2	109.4	215.2	119.2	251.8	27.8	264.8	29.8	88.2	179.8	22.6	218.6	38.0	286.2	106.8	24.2	230.6	16.8	219.6	10.8	144.2	24.2	229.0
LI. acum. en el año	214.0	328.0	148.6	312.6	148.0	293.2	140.8	304.6	149.2	267.2	109.4	215.2	119.2	251.8	27.8	264.8	29.8	88.2	179.8	22.6	218.6	38.0	286.2	106.8	24.2	230.6	16.8	219.6	10.8	144.2	24.2	229.0
No. días lluvia año	15	48%	18	58%	18	58%	17	55%	17	55%	18	58%	17	55%	16	52%	16	52%	17	55%	18	58%	16	52%	16	52%	14	45%	12	39%	18	58%



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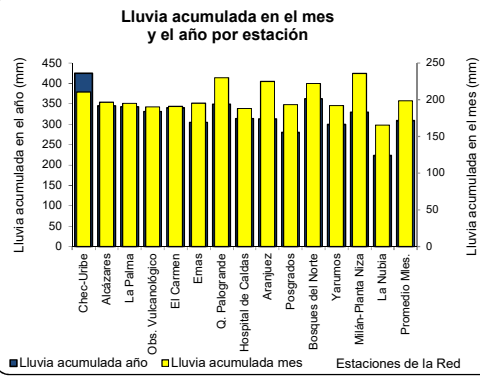
RED DE ESTACIONES HIDROMETEOROLÓGICAS DE MANIZALES ESTACIONES PARA LA GESTIÓN DEL RIESGO ANTE DESASTRES POR DESLIZAMIENTOS Sistema Integrado de Monitoreo Ambiental de Caldas - SIMAC



REGISTROS DE LLUVIA DIARIA E INDICADORES DE LLUVIA ANTECEDENTE DE 25 DÍAS

FEBRERO DE 2018

Estaciones	Chec-Uribe		Alcázares		La Palma		Observatorio Vulcanológico		El Carmen		Emas		Quebrada Palogrande-Ruta 30		Hospital de Caldas		Aranjuez		Posgrados		Bosques del Norte		Yarumos		Milán-Planta Niza		La Nubia		Promedio Manizales					
	Propietarios	CHEC S.A. E.S.P	Alcaldía/UGR	Alcaldía/UGR	Alcaldía/UGR	Alcaldía/UGR	Alcaldía/UGR	EMAS S.A. E.S.P	UN-Manizales	Alcaldía/UGR	Alcaldía/UGR	Alcaldía/UGR	Alcaldía/UGR	Alcaldía/UGR	Alcaldía/UGR	Alcaldía/UGR	Alcaldía/UGR	Alcaldía/UGR	Alcaldía/UGR	Alcaldía/UGR	Alcaldía/UGR	Alcaldía/UGR	Alcaldía/UGR	Alcaldía/UGR	Alcaldía/UGR	Alcaldía/UGR	Alcaldía/UGR	Alcaldía/UGR	Alcaldía/UGR					
Día	Li. d.	A25	Li. d.	A25	Li. d.	A25	Li. d.	A25	Li. d.	A25	Li. d.	A25	Li. d.	A25	Li. d.	A25	Li. d.	A25	Li. d.	A25	Li. d.	A25	Li. d.	A25	Li. d.	A25	Li. d.	A25	Li. d.	A25	Li. d.	A25	Li. d.	A25
J 1	0.0	175.8	0.0	111.4	0.0	115.2	0.0	109.8	0.0	119.0	0.0	87.8	0.0	80.0	0.0	79.4	0.0	64.6	0.0	60.4	0.0	111.6	0.0	73.0	0.0	59.0	0.0	35.4	0.0	79.6				
V 2	16.4	146.6	7.4	98.4	7.4	115.0	7.8	106.6	7.0	94.6	0.8	72.8	25.2	96.4	12.8	85.0	18.0	81.0	20.0	80.0	2.0	75.6	14.6	86.0	10.2	69.2	5.4	40.8	9.2	79.3				
S 3	9.8	115.6	12.8	81.8	34.4	110.8	20.2	81.8	5.4	66.0	20.4	63.2	5.4	68.2	3.6	60.8	11.6	62.8	3.8	61.2	10.8	66.2	10.6	80.6	22.0	74.4	13.6	43.6	15.9	70.9				
D 4	0.2	115.8	0.2	81.8	0.0	110.6	0.0	81.6	0.2	66.2	0.2	63.2	0.0	68.2	0.0	60.8	0.0	62.6	0.0	61.0	0.0	66.0	0.0	80.6	0.0	74.4	0.0	43.6	0.0	70.9				
L 5	4.0	119.8	1.2	83.0	14.6	125.2	3.8	85.4	2.0	68.2	22.0	85.2	11.6	79.8	11.0	71.8	11.0	73.6	8.0	69.0	23.0	89.0	21.0	101.6	19.2	93.6	16.0	59.6	14.4	85.2				
Ma 6	0.2	114.4	0.0	78.2	0.6	121.0	0.0	82.0	0.0	62.2	0.2	84.6	0.4	74.8	0.4	65.8	0.2	65.2	0.2	66.2	0.2	88.0	0.0	95.8	2.0	89.4	6.6	58.2	1.9	81.7				
Mi 7	0.0	109.6	0.0	70.2	0.0	114.4	0.0	75.8	0.0	55.0	0.0	78.4	0.0	66.0	0.0	56.2	0.0	59.8	0.0	56.8	0.0	78.4	0.0	84.8	0.0	76.2	0.0	50.6	0.0	73.1				
J 8	0.0	95.4	0.0	68.0	0.0	102.6	0.0	75.0	0.0	44.4	0.0	78.0	1.0	66.4	0.4	55.4	0.0	58.2	0.8	56.6	0.6	77.2	0.8	83.0	0.0	73.0	0.0	50.6	0.2	69.9				
V 9	8.2	81.6	5.0	39.2	0.0	70.0	8.2	49.4	1.4	25.8	0.0	59.0	0.0	54.0	0.0	40.8	0.0	50.8	0.0	44.8	0.0	59.0	0.0	58.8	0.0	66.2	0.0	50.2	1.0	55.9				
S 10	0.0	81.6	0.0	39.0	0.0	69.8	0.0	49.4	0.0	25.2	0.0	57.8	0.0	53.6	0.0	38.6	0.0	50.8	0.0	43.4	0.0	58.8	0.0	57.0	0.0	66.2	0.0	50.2	0.0	55.4				
D 11	0.4	78.6	2.0	37.0	0.6	62.4	3.0	47.6	0.8	22.6	0.0	48.2	0.2	48.8	0.0	33.4	0.0	46.6	0.0	38.0	0.0	41.4	0.0	51.0	0.0	59.2	0.0	46.6	0.3	49.6				
L 12	1.2	74.6	1.4	32.4	1.2	60.8	1.4	45.0	1.2	18.6	2.6	47.2	1.8	45.8	2.4	30.6	1.6	42.8	1.8	34.6	8.4	45.4	3.2	50.2	2.0	55.4	4.0	45.6	2.7	47.5				
Ma 13	0.0	74.6	0.4	32.8	0.8	61.0	0.2	45.2	0.0	18.6	0.4	46.8	6.4	52.0	4.0	34.6	2.6	45.4	4.4	39.0	0.0	45.0	7.2	57.4	17.2	72.6	1.8	47.4	4.5	51.8				
Mi 14	0.4	75.0	1.2	34.0	0.0	61.0	0.6	45.8	0.0	18.6	0.6	47.2	1.6	53.6	1.4	36.0	1.6	47.0	1.8	40.8	2.2	47.2	3.0	60.4	5.0	77.6	7.0	54.4	3.0	54.8				
J 15	0.0	75.0	0.0	34.0	0.0	61.0	0.0	45.8	0.0	18.6	0.8	48.0	1.0	54.6	3.8	39.8	0.0	47.0	1.2	42.0	10.4	57.6	1.4	61.8	1.0	78.6	0.0	54.4	1.1	55.8				
V 16	15.6	90.6	20.4	54.4	0.0	61.0	10.8	56.6	14.6	33.2	2.8	50.8	3.0	57.6	4.8	44.6	0.0	47.0	1.0	43.0	1.4	59.0	1.0	62.8	0.0	78.6	0.0	54.4	3.4	59.2				
S 17	20.4	111.0	23.4	77.8	15.2	76.2	30.4	87.0	33.6	66.8	39.4	90.2	42.4	100.0	30.4	75.0	45.2	92.2	40.0	83.0	24.0	83.0	19.0	81.8	27.2	105.8	15.8	70.2	25.6	84.8				
D 18	9.2	120.2	10.8	88.6	15.6	91.8	11.2	98.2	19.6	86.4	18.2	108.4	21.4	121.4	13.4	88.4	29.8	122.0	13.4	96.4	43.8	126.8	27.2	109.0	19.2	125.0	16.4	86.6	18.7	103.5				
L 19	3.6	123.8	0.0	88.6	3.0	94.8	0.2	98.4	0.0	86.4	0.2	108.6	0.2	121.6	0.0	88.4	0.0	122.0	0.0	96.4	0.0	126.8	0.0	109.0	0.2	125.2	0.2	86.8	0.6	104.1				
Ma 20	4.6	128.4	5.6	94.2	8.0	102.8	3.0	101.4	2.4	88.8	5.0	113.6	3.2	124.8	3.8	92.2	4.8	126.8	4.8	101.2	4.2	131.0	5.0	114.0	12.0	137.2	8.4	95.2	6.8	110.9				
Mi 21	0.0	128.4	0.0	94.2	0.0	102.8	0.0	101.4	0.0	88.8	0.0	113.6	0.0	124.8	0.0	92.2	0.0	126.8	0.0	101.2	0.0	131.0	0.0	114.0	0.2	137.4	0.0	95.2	0.0	110.9				
J 22	31.0	159.4	26.6	120.8	46.0	148.8	32.6	134.0	34.8	123.6	35.0	148.6	44.0	168.8	38.6	130.8	46.0	172.8	35.4	136.6	15.4	146.4	24.6	138.6	32.0	169.4	21.4	116.6	31.2	142.2				
V 23	1.8	161.2	1.4	122.2	0.0	148.8	1.0	135.0	2.6	126.2	2.4	151.0	3.6	172.4	3.2	134.0	4.8	177.6	4.2	140.8	10.0	156.4	7.2	145.8	10.2	179.6	1.4	118.0	4.0	146.2				
S 24	28.8	155.8	32.2	152.0	27.8	175.2	22.2	156.6	27.6	153.2	24.4	175.4	23.6	196.0	27.8	161.8	20.2	197.4	23.6	164.4	27.0	183.4	20.6	166.4	25.4	205.0	16.0	134.0	23.5	167.8				
D 25	54.8	210.6	44.4	196.4	19.8	195.0	33.6	190.2	37.6	190.8	19.8	195.2	33.8	229.8	26.2	188.0	27.6	225.0	29.0	193.4	37.6	221.0	25.8	192.2	30.8	235.8	31.4	165.4	30.7	198.6				
L 26	0.0	210.6	0.2	196.6	0.0	195.0	0.0	190.2	0.0	190.8	0.0	195.2	0.2	230.0	0.0	188.0	0.0	225.0	0.0	193.4	1.0	222.0	0.0	192.2	0.0	235.8	0.0	165.4	0.1	198.6				
Ma 27	0.0	194.2	0.0	189.2	0.0	187.6	0.0	182.4	0.0	183.8	0.0	194.4	0.0	204.8	0.0	175.2	0.0	207.0	0.0	173.4	0.0	220.0	0.0	177.6	0.0	225.6	0.0	160.0	0.0	189.5				
Mi 28	0.0	184.4	0.0	176.4	0.0	153.2	0.0	162.2	0.0	178.4	0.0	174.0	0.0	199.4	0.0	171.6	0.0	195.4	0.0	169.6	0.0	209.2	0.0	167.0	0.0	203.6	0.0	146.4	0.0	173.6				
J 1																																		
V 2																																		
S 3																																		
Li. mes	210.6		196.6		195.0		190.2		190.8		195.2		230.0		188.0		225.0		193.4		222.0		192.2		235.8		165.4		198.6					
Máx. mes	54.8	210.6	44.4	196.6	46.0	195.0	33.6	190.2	37.6	190.8	39.4	195.2	44.0	230.0	38.6	188.0	46.0	225.0	40.0	193.4	43.8	222.0	27.2	192.2	32.0	235.8	31.4	165.4	31.2	198.6				
Li. acum. en el año	424.6		345.2		343.0		331.0		340.0		304.6		349.2		314.0		313.2		279.8		362.8		299.0		329.2		223.4		308.5					
No. días lluvia año	33	56%	36	61%	32	54%	34	58%	32	54%	36	61%	37	63%	33	56%	30	51%	34	58%	35	59%	32	54%	31	53%	27	46%	38	64%				



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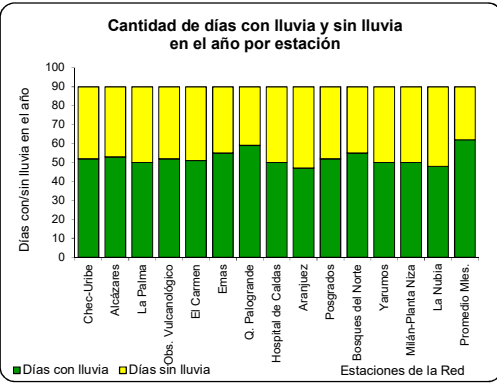
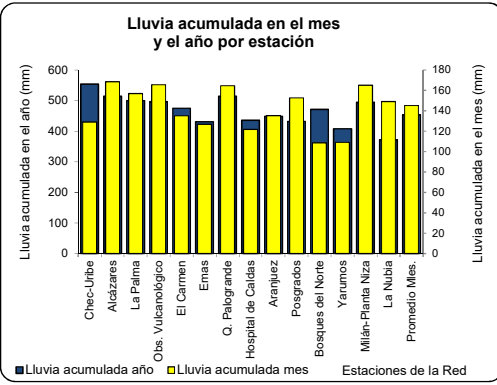
RED DE ESTACIONES HIDROMETEOROLÓGICAS DE MANIZALES ESTACIONES PARA LA GESTIÓN DEL RIESGO ANTE DESASTRES POR DESLIZAMIENTOS Sistema Integrado de Monitoreo Ambiental de Caldas - SIMAC



REGISTROS DE LLUVIA DIARIA E INDICADORES DE LLUVIA ANTECEDENTE DE 25 DÍAS

MARZO DE 2018

Estaciones	Chec-Uribe		Alcázares		La Palma		Observatorio Vulcanológico		El Carmen		Emas		Quebrada Palogrande-Ruta 30		Hospital de Caldas		Aranjuez		Posgrados		Bosques del Norte		Yarumos		Milán-Planta Niza		La Nubia		Promedio Manizales																															
	Propietarios	CHEC S.A. E.S.P	Alcaldía/UGR	Alcaldía/UGR	Alcaldía/UGR	Alcaldía/UGR	Alcaldía/UGR	EMAS S.A. E.S.P	UN-Manizales	Alcaldía/UGR	Alcaldía/UGR	Alcaldía/UGR	Alcaldía/UGR	Alcaldía/UGR	Alcaldía/UGR	Alcaldía/UGR	Alcaldía/UGR	Alcaldía/UGR	Alcaldía/UGR	Alcaldía/UGR	Alcaldía/UGR	Alcaldía/UGR	Alcaldía/UGR	Alcaldía/UGR	Alcaldía/UGR	Alcaldía/UGR	Alcaldía/UGR	Alcaldía/UGR	Alcaldía/UGR																															
Día	Li. d.	A25	Li. d.	A25	Li. d.	A25	Li. d.	A25	Li. d.	A25	Li. d.	A25	Li. d.	A25	Li. d.	A25	Li. d.	A25	Li. d.	A25	Li. d.	A25	Li. d.	A25	Li. d.	A25	Li. d.	A25	Li. d.	A25																														
J 1	0.0	184.2	0.0	176.2	0.0	153.2	0.0	162.2	0.0	178.2	0.0	199.4	0.0	171.6	0.0	195.4	0.0	169.6	0.0	169.6	0.0	209.2	0.0	167.0	0.0	146.4	0.0	173.6	0.0	173.6																														
V 2	3.0	183.2	0.8	175.8	9.4	148.0	1.2	159.6	0.4	176.6	5.8	157.6	0.0	187.8	0.0	160.6	0.0	184.4	0.0	161.6	1.4	187.6	0.4	146.4	0.0	184.4	0.0	130.4	1.8	161.0																														
S 3	2.0	185.0	8.4	184.2	6.8	154.2	5.0	164.6	9.0	185.6	2.6	160.0	14.6	202.0	10.2	170.4	6.0	190.2	9.4	170.8	5.4	192.8	3.6	150.0	13.4	195.8	10.0	133.8	8.3	167.4																														
D 4	14.0	199.0	17.6	201.8	14.6	168.8	20.4	185.0	14.0	199.6	6.8	166.8	3.4	205.4	4.6	175.0	4.2	194.4	4.0	174.8	2.2	195.0	1.4	151.4	5.2	201.0	1.8	135.6	7.0	174.3																														
L 5	0.0	199.0	0.0	201.8	0.0	168.8	0.2	185.2	0.2	199.8	0.4	167.2	0.4	204.8	0.0	174.6	0.0	194.4	0.0	174.0	4.0	198.4	1.0	151.6	1.2	202.2	1.6	137.2	0.9	175.0																														
Ma 6	8.0	198.8	2.8	199.6	1.4	170.2	1.0	178.0	1.0	199.4	0.0	167.2	0.6	205.4	0.4	175.0	1.0	195.4	0.4	174.4	0.0	198.4	0.0	151.6	0.0	202.2	0.8	138.0	1.0	175.0																														
Mi 7	0.0	198.8	0.0	199.6	0.0	170.2	0.0	178.0	0.0	199.4	0.0	167.2	0.0	205.4	0.0	175.0	0.0	195.4	0.0	174.4	0.0	198.4	0.0	151.6	0.0	202.2	0.0	138.0	0.0	175.0																														
J 8	0.0	198.4	0.0	197.6	1.2	170.8	0.0	175.0	0.0	198.6	0.4	167.6	0.0	205.2	0.0	175.0	0.0	195.4	0.0	174.4	0.4	198.8	0.0	151.6	0.0	202.2	0.4	138.4	0.3	174.9																														
V 9	1.2	198.4	0.0	196.2	0.0	169.6	0.0	173.6	0.0	197.4	0.0	165.0	0.2	203.6	0.0	172.6	0.0	193.8	0.0	172.6	0.0	190.4	0.0	148.4	0.8	201.0	2.4	136.8	0.7	173.0																														
S 10	0.0	198.4	0.0	195.8	0.0	168.8	0.0	173.4	0.0	197.4	0.0	164.6	0.0	197.2	0.0	168.6	0.0	191.2	0.0	168.2	0.0	190.4	0.0	141.2	0.0	183.8	0.0	135.0	0.0	168.6																														
D 11	0.0	198.0	0.0	194.6	0.0	168.8	0.0	172.8	0.0	197.4	0.0	164.0	0.0	195.6	0.0	167.2	0.0	189.6	0.0	166.4	0.0	188.2	0.0	138.2	0.0	178.8	0.0	128.0	0.0	165.5																														
L 12	0.0	198.0	0.0	194.6	0.0	168.8	0.0	172.8	0.0	197.4	0.0	163.2	0.0	194.6	0.0	163.4	0.0	189.6	0.0	165.2	0.0	177.8	0.0	136.8	0.0	177.8	0.0	128.0	0.0	164.5																														
Ma 13	0.0	182.4	0.0	174.2	0.0	168.8	0.0	162.0	0.0	182.8	0.0	160.4	0.0	191.6	0.0	158.6	0.0	186.6	0.0	164.2	0.4	176.8	0.0	135.8	0.0	177.8	0.0	128.0	0.0	161.1																														
Mi 14	0.0	162.0	0.0	150.8	0.0	153.6	0.0	131.6	0.0	149.2	0.0	121.0	0.0	142.2	0.0	128.2	0.0	144.4	0.0	124.2	0.2	153.0	0.0	116.8	0.0	150.6	0.0	112.2	0.0	135.5																														
J 15	0.0	152.8	0.0	140.0	0.0	138.0	0.0	120.4	0.4	130.0	0.0	102.8	0.6	128.4	0.6	115.4	0.0	114.6	1.6	112.4	0.6	109.8	1.4	91.0	2.0	133.4	1.0	96.8	0.8	117.6																														
V 16	0.0	149.2	0.0	140.0	0.0	135.0	0.0	120.2	0.0	130.0	0.0	102.6	0.2	128.4	0.0	115.4	0.0	114.6	0.0	112.4	0.6	110.4	0.2	91.2	0.2	133.4	2.6	99.6	0.6	117.7																														
S 17	9.8	154.4	17.0	151.4	28.0	155.0	16.4	133.6	15.8	143.4	18.4	116.0	24.8	150.0	18.6	130.2	14.0	123.8	20.4	128.0	5.2	111.4	6.6	92.8	11.2	132.6	31.0	121.8	19.0	129.9																														
D 18	1.6	156.0	2.8	154.2	0.4	155.4	3.0	136.6	4.0	147.4	2.8	118.8	11.6	161.6	9.6	139.8	13.6	137.4	13.0	141.0	12.6	124.0	17.6	110.4	11.0	143.4	17.2	139.0	9.8	139.6																														
L 19	8.0	133.0	9.6	137.2	8.6	118.0	10.4	114.4	10.0	122.6	15.6	99.4	17.8	135.4	15.2	116.4	14.2	105.6	20.2	125.8	12.0	120.6	16.6	102.4	24.8	136.2	10.8	128.4	14.4	122.8																														
Ma 20	2.0	133.2	3.8	139.6	7.4	125.4	4.8	118.2	4.8	124.8	4.8	101.8	8.8	140.6	8.0	121.2	3.0	103.8	9.8	131.4	10.2	120.8	5.8	101.0	9.6	135.6	1.4	128.4	5.7	124.5																														
Mi 21	0.0	104.4	0.0	107.4	0.0	97.6	0.0	96.0	0.0	97.2	0.2	77.6	0.2	117.2	0.0	93.4	0.2	83.8	0.2	108.0	0.0	93.8	0.0	80.4	0.0	110.2	0.8	113.2	0.2	101.2																														
J 22	5.0	54.6	8.8	71.8	1.0	78.8	6.4	68.8	4.2	63.8	4.4	62.2	19.0	102.4	12.2	79.4	8.2	64.4	30.4	109.4	7.4	63.6	19.4	74.0	39.0	118.4	7.8	89.6	13.9	84.3																														
V 23	7.0	61.6	8.6	80.2	14.8	93.6	9.4	78.2	6.2	70.0	7.8	70.0	7.8	110.0	3.8	83.2	6.0	70.4	6.2	115.6	7.0	69.6	5.2	79.2	5.6	124.0	5.0	94.6	7.0	91.3																														
S 24	16.8	78.4	20.2	100.4	15.8	109.4	16.2	94.4	14.6	84.6	14.2	84.2	23.0	133.0	11.2	94.4	18.6	89.0	18.4	134.0	12.8	82.4	16.4	95.6	17.4	141.4	15.0	109.6	16.1	107.4																														
D 25	11.2	89.6	13.0	113.4	0.0	109.4	16.6	111.0	18.0	102.6	0.6	84.8	4.6	137.6	1.0	95.4	10.0	99.0	1.0	135.0	0.0	82.4	0.0	95.6	0.8	142.2	0.2	109.8	3.4	110.8																														
L 26	1.0	90.6	0.8	114.2	0.6	110.0	0.6	111.6	1.0	103.6	0.6	85.4	1.0	138.6	0.6	96.0	1.2	100.2	0.8	135.8	0.0	82.4	0.6	96.2	0.6	142.8	0.0	109.8	0.5	111.3																														
Ma 27	1.2	88.8	1.8	115.2	0.6	101.2	1.2	111.6	1.6	104.8	0.0	79.6	0.8	139.4	1.0	97.0	0.6	100.8	0.8	136.6	0.0	81.0	0.8	96.6	0.6	143.4	0.0	109.8	0.6	110.1																														
Mi 28	1.2	88.0	1.4	108.2	0.8	95.2	1.4	108.0	1.4	97.2	1.8	78.8	2.0	126.8	1.6	88.4	2.0	96.8	2.2	129.4	3.0	78.6	2.6	95.6	3.4	133.4	2.6	102.4	2.2	104.0																														
J 29	0.2	74.2	0.0	90.6	4.0	84.6	0.0	87.6	0.0	83.2	0.8	72.8	0.2	123.6	0.0	83.8	0.0	92.6	0.0	125.4	9.0	85.4	0.0	94.2	0.0	128.2	0.6	101.2	1.1	98.1																														
V 30	24.2	98.4	40.2	130.8	31.2	115.8	40.2	127.6	18.2	101.2	30.2	102.6	13.4	136.6	13.8	97.6	13.6	106.2	6.8	132.2	8.0	89.4	2.4	95.6	3.2	130.2	3.2	102.8	14.5	111.7																														
S 31	11.6	102.0	11.0	139.0	10.4	124.8	11.2	137.8	10.2	110.4	8.6	111.2	9.6	145.6	9.4	106.6	18.8	124.0	7.0	138.8	6.2	95.6	7.2	102.8	15.0	145.2	32.8	134.8	15.6	126.3																														
Li. mes	129.0		168.6		157.0		165.6		135.0		126.8		164.6		121.8		135.2		152.6		108.6		109.2		165.0		149.0		145.2																															
Máx. mes	24.2		199.0		40.2		201.8		31.2		170.8		40.2		185.2		18.2		199.8		30.2		173.8		24.8		205.4		18.6		175.0		18.8		195.4		30.4		174.8		12.8		209.2		19.4		167.0		39.0		203.6		32.8		146.4		19.0		175.0	
Li. acum. en el año	553.6		513.8		500.0		496.6		475.0		431.4		513.8		435.8		448.4		432.4		471.4		408.2		494.2		372.4		453.7																															
No. días lluvia año	52	58%	53	59%	50	56%	52	58%	51	57%	55	61%	59	66%	50	56%	47	52%	52	58%	55	61%	50	56%	50	56%	48	53%	62	69%																														



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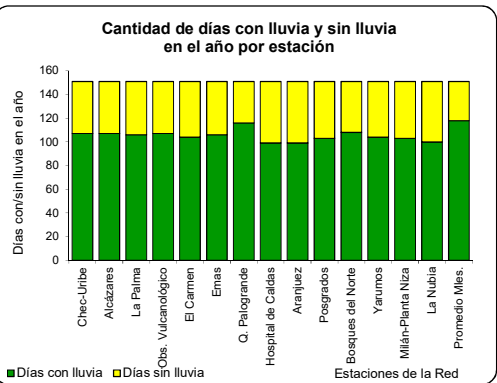
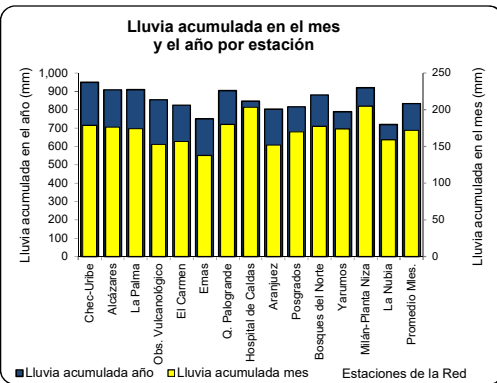
RED DE ESTACIONES HIDROMETEOROLÓGICAS DE MANIZALES ESTACIONES PARA LA GESTIÓN DEL RIESGO ANTE DESASTRES POR DESLIZAMIENTOS Sistema Integrado de Monitoreo Ambiental de Caldas - SIMAC



REGISTROS DE LLUVIA DIARIA E INDICADORES DE LLUVIA ANTECEDENTE DE 25 DÍAS

MAYO DE 2018

Estaciones	Chec-Uribe		Alcázares		La Palma		Observatorio Vulcanológico		El Carmen		Emas		Quebrada Palogrande-Ruta 30		Hospital de Caldas		Aranjuez		Posgrados		Bosques del Norte		Yarumos		Milán-Planta Niza		La Nubia		Promedio Manizales	
	Propietarios	CHEC S.A. E.S.P	Alcaldía/UGR	Alcaldía/UGR	Alcaldía/UGR	Alcaldía/UGR	Alcaldía/UGR	EMAS S.A. E.S.P	UN-Manizales	Alcaldía/UGR	Alcaldía/UGR	Alcaldía/UGR	Alcaldía/UGR	Alcaldía/UGR	Alcaldía/UGR	Alcaldía/UGR	Alcaldía/UGR	Alcaldía/UGR	Alcaldía/UGR	Alcaldía/UGR	Alcaldía/UGR	Alcaldía/UGR	Alcaldía/UGR	Alcaldía/UGR	Alcaldía/UGR	Alcaldía/UGR	Alcaldía/UGR	Alcaldía/UGR	Alcaldía/UGR	
Día	Li. d.	A25	Li. d.	A25	Li. d.	A25	Li. d.	A25	Li. d.	A25	Li. d.	A25	Li. d.	A25	Li. d.	A25	Li. d.	A25	Li. d.	A25	Li. d.	A25	Li. d.	A25	Li. d.	A25	Li. d.	A25	Li. d.	A25
Ma 1	8.6	131.2	15.8	141.6	5.0	124.8	9.8	126.4	14.4	131.4	1.2	100.0	8.4	133.4	13.8	139.6	6.2	135.2	1.2	143.8	1.4	146.6	0.2	141.2	0.2	152.4	1.4	138.0	4.2	135.6
Mi 2	7.0	138.2	6.4	148.0	8.4	133.2	8.4	134.8	7.6	139.0	10.4	110.4	15.0	148.4	15.0	154.6	12.2	147.4	16.6	160.4	18.6	165.2	20.0	161.2	25.0	177.4	25.6	163.6	17.0	152.6
J 3	0.8	139.0	1.0	149.0	1.4	134.6	0.8	135.6	1.4	140.4	0.4	110.8	1.2	149.6	0.6	155.2	1.0	148.4	0.2	160.6	0.6	165.8	0.8	162.0	1.4	178.8	0.4	164.0	0.9	153.4
V 4	2.2	134.0	1.2	143.4	0.6	117.0	1.2	128.8	4.2	140.4	5.4	110.8	4.6	143.0	4.0	149.6	2.4	140.6	2.2	146.0	17.2	169.6	1.8	146.0	1.2	172.2	0.0	153.4	2.6	145.4
S 5	1.8	117.2	1.6	125.2	0.6	106.6	1.0	114.0	1.0	129.6	1.4	100.0	1.0	132.6	1.0	136.0	1.0	131.2	1.4	133.4	2.2	149.0	3.2	134.6	4.0	153.6	1.2	141.6	1.8	131.8
D 6	5.8	105.0	6.2	114.0	5.2	98.6	5.8	101.4	5.4	116.0	11.2	97.2	7.8	125.8	8.8	126.2	5.2	113.0	7.8	123.6	4.2	132.2	4.0	119.2	6.2	142.4	4.8	131.4	6.1	121.1
L 7	7.6	99.6	7.4	111.0	22.6	104.8	9.0	100.0	5.0	110.6	4.8	91.6	7.8	122.0	6.4	121.4	7.0	112.0	9.0	124.2	4.2	122.4	4.6	115.4	13.8	144.2	6.2	131.0	9.2	119.7
Ma 8	19.4	90.2	21.8	96.4	14.0	98.2	15.4	86.0	18.4	95.6	11.6	85.4	13.4	96.4	13.0	100.0	18.8	94.2	15.0	93.2	12.4	105.0	11.6	94.6	18.6	127.0	22.2	117.6	17.8	104.7
Mi 9	15.4	97.2	9.8	98.6	6.2	96.2	5.8	85.2	5.4	91.8	8.8	88.0	4.2	90.2	9.8	101.0	4.8	86.6	4.6	87.4	7.4	100.8	6.8	92.4	5.0	122.8	3.6	105.8	6.2	100.7
J 10	15.2	111.8	14.2	112.0	2.6	98.4	9.8	94.4	13.8	105.0	6.0	93.8	18.2	107.6	20.8	121.6	4.4	90.6	14.0	101.2	3.8	101.4	9.0	98.8	8.4	130.2	6.8	112.2	8.9	108.8
V 11	1.4	112.8	3.2	115.2	1.0	97.4	3.2	97.4	3.6	108.6	1.6	89.0	8.4	114.8	7.2	125.4	3.0	93.0	8.4	107.2	2.6	102.2	4.6	100.4	14.6	138.4	1.4	107.0	4.9	109.8
S 12	1.2	113.2	1.2	116.0	4.4	101.8	1.2	98.6	1.0	108.0	1.6	90.6	1.6	116.0	1.2	126.6	1.0	94.0	1.6	108.6	15.0	117.0	2.2	100.6	2.0	140.4	5.4	111.8	3.4	112.8
D 13	7.2	120.4	8.4	124.4	8.8	110.6	10.6	109.2	8.8	116.8	10.6	101.2	11.0	127.0	15.8	142.4	10.0	104.0	14.2	122.8	10.4	127.4	26.2	126.8	24.0	164.4	13.4	125.2	14.2	127.0
L 14	11.0	130.4	15.2	138.6	13.2	123.0	15.2	123.4	11.8	127.4	10.4	111.0	14.8	139.6	12.8	153.0	15.6	117.0	12.4	131.4	13.2	140.0	13.8	139.8	15.8	175.8	14.2	137.2	13.7	138.8
Ma 15	2.4	132.8	3.4	141.8	4.2	127.0	3.4	126.6	2.6	130.0	2.2	113.0	3.2	142.6	3.8	156.8	2.4	119.2	3.0	134.4	4.2	144.2	5.4	145.2	6.2	181.8	3.8	141.0	4.0	142.6
Mi 16	1.6	133.2	2.6	143.8	2.8	129.4	1.6	127.8	1.6	131.8	1.4	114.4	0.6	142.8	0.2	157.0	1.8	120.4	0.6	135.0	3.2	147.4	0.4	145.6	1.0	182.8	2.6	142.8	1.7	144.0
J 17	0.0	133.0	0.0	143.6	0.4	129.2	0.2	127.6	0.4	131.2	0.2	114.0	0.2	142.8	0.0	157.0	0.0	120.2	0.2	135.2	0.4	145.6	0.4	145.0	0.0	182.0	0.8	143.4	0.3	143.8
V 18	11.2	143.2	0.8	143.6	1.0	130.0	0.6	127.0	1.8	132.6	0.8	114.8	1.4	144.0	0.0	157.0	15.2	135.4	1.0	136.2	1.0	146.6	1.2	145.6	1.2	182.6	6.0	149.4	3.0	146.5
S 19	12.6	155.6	13.2	156.8	28.8	158.0	10.8	137.8	8.8	141.4	14.6	129.4	21.4	165.4	28.6	185.6	4.8	140.2	25.2	161.4	16.0	162.6	12.4	157.6	13.2	195.0	7.0	155.8	14.4	160.5
D 20	3.4	158.4	5.2	161.0	6.2	163.6	5.6	142.0	4.6	145.0	5.0	133.4	3.2	168.0	3.2	187.6	1.2	141.4	3.0	164.0	4.8	164.6	7.4	163.6	4.4	199.4	2.4	158.2	4.2	164.1
L 21	10.0	166.2	1.8	160.4	0.4	159.8	0.4	139.0	1.2	144.0	0.0	128.4	0.2	165.8	0.2	183.4	0.2	138.2	0.0	160.8	0.6	158.8	0.0	154.4	0.2	194.0	0.0	153.8	0.7	160.4
Ma 22	0.0	158.2	0.2	153.0	0.2	148.4	0.2	131.2	0.0	133.6	0.0	121.2	0.2	162.6	0.0	179.2	0.0	133.2	0.0	158.0	0.2	155.6	0.0	151.2	0.0	190.2	0.0	147.4	0.1	154.1
Mi 23	18.0	172.8	15.2	164.0	8.4	153.0	9.0	134.8	12.0	142.4	7.4	125.6	9.2	169.8	9.6	185.8	15.0	146.4	8.4	163.6	7.6	158.6	8.2	154.4	9.2	195.0	8.4	153.6	9.6	160.3
J 24	0.6	164.8	0.6	156.4	1.8	148.2	0.4	136.4	0.4	136.4	0.6	117.8	0.6	160.0	0.6	177.6	0.8	135.6	0.6	153.0	0.8	152.0	1.0	148.2	0.8	197.4	1.8	140.6	1.0	150.4
V 25	0.4	164.8	0.6	157.0	3.2	151.4	1.6	131.0	0.8	136.0	3.8	121.4	1.6	159.2	3.0	179.4	0.8	134.8	2.6	153.2	1.0	153.0	5.8	151.0	4.6	181.0	0.6	140.0	2.4	151.5
S 26	3.4	159.6	3.6	144.8	10.8	157.2	5.8	127.0	2.6	124.2	4.8	125.0	3.4	154.2	5.4	171.0	4.0	132.6	3.8	155.8	8.0	159.6	3.8	154.6	5.0	185.8	7.2	145.8	5.8	153.1
D 27	2.6	155.2	8.4	146.8	3.6	152.4	9.6	128.2	10.8	127.4	4.6	119.2	10.6	149.8	12.4	168.4	3.6	124.0	7.0	146.2	5.0	146.0	10.4	145.0	8.8	169.6	2.2	122.4	6.2	142.3
L 28	2.8	157.2	3.4	149.2	3.2	154.2	2.4	129.8	3.0	129.0	2.2	121.0	2.2	150.8	2.4	170.2	4.0	127.0	1.6	147.6	2.8	148.2	2.4	146.6	2.0	170.2	1.4	123.4	2.3	143.7
Ma 29	2.8	157.8	1.0	149.0	2.2	155.8	1.2	129.8	1.4	126.2	2.4	118.0	1.4	147.6	0.8	167.0	3.0	127.6	1.2	146.6	4.0	135.0	1.8	146.6	2.0	171.0	1.8	125.2	2.0	143.1
Mi 30	1.4	157.4	2.0	149.4	2.6	157.8	2.2	131.0	2.2	127.4	2.4	119.0	2.2	148.8	2.2	168.2	1.8	128.4	1.8	147.0	3.2	136.0	2.4	145.8	3.6	170.6	3.4	127.4	2.7	144.0
J 31	1.0	152.6	0.8	144.0	0.4	153.0	0.6	125.8	0.6	122.6	0.0	107.8	1.2	142.2	0.8	160.2	0.6	123.8	1.2	140.4	1.4	133.2	2.2	144.0	2.4	166.8	3.0	125.6	1.6	139.5
Li. mes	178.8		176.2		174.2		152.8		156.6		137.8		180.2		203.4		151.8		169.8		177.4		174.0		204.8		159.0		172.1	
Máx. mes	19.4	172.8	21.8	164.0	28.8	163.6	15.4	142.0	18.4	145.0	14.6	133.4	21.4	169.8	28.6	187.6	18.8	148.4	25.2	164.0	18.6	169.6	26.2	163.6	25.0	199.4	25.6	164.0	17.0	164.1
Li. acum. en el año	950.0		908.2		909.2		854.4		824.6		750.0		903.6		846.2		802.6		816.2		881.0		789.6		920.0		719.6		833.3	
No. días lluvia año	107	71%	107	71%	106	70%	107	71%	104	69%	106	70%	116	77%	99	66%	99	66%	103	68%	108	72%	104	69%	103	68%	100	66%	118	78%



UNIVERSIDAD NACIONAL DE COLOMBIA SEDE MANIZALES



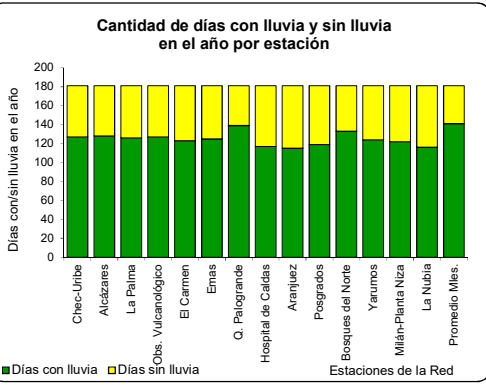
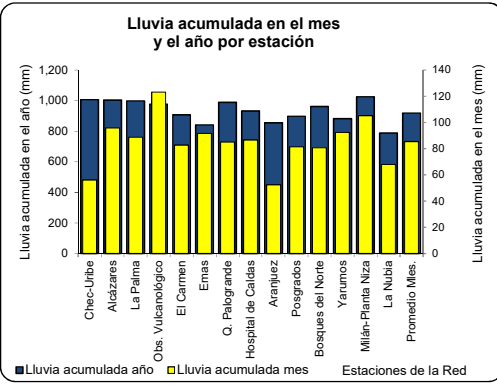
RED DE ESTACIONES HIDROMETEOROLÓGICAS DE MANIZALES ESTACIONES PARA LA GESTIÓN DEL RIESGO ANTE DESASTRES POR DESLIZAMIENTOS Sistema Integrado de Monitoreo Ambiental de Caldas - SIMAC



REGISTROS DE LLUVIA DIARIA E INDICADORES DE LLUVIA ANTECEDENTE DE 25 DÍAS

JUNIO DE 2018

Estaciones	Chec-Uribe		Alcázares		La Palma		Observatorio Vulcanológico		El Carmen		Emas		Quebrada Palogrande-Ruta 30		Hospital de Caldas		Aranjuez		Posgrados		Bosques del Norte		Yarumos		Milán-Planta Niza		La Nubia		Promedio Manizales	
	LI. d.	A25	LI. d.	A25	LI. d.	A25	LI. d.	A25	LI. d.	A25	LI. d.	A25	LI. d.	A25	LI. d.	A25	LI. d.	A25	LI. d.	A25	LI. d.	A25	LI. d.	A25	LI. d.	A25	LI. d.	A25	LI. d.	A25
V 1	9.6	154.6	22.2	158.8	17.4	147.8	24.6	141.4	15.2	132.8	20.0	123.0	22.0	156.4	22.0	175.8	14.0	130.8	19.6	151.0	17.2	146.2	24.8	164.2	28.6	181.6	22.0	141.4	21.3	151.6
S 2	0.8	136.0	1.8	138.8	2.8	136.6	2.2	128.2	1.8	116.2	1.6	113.0	1.2	144.2	1.2	164.0	0.8	112.8	1.0	137.0	1.8	135.6	1.2	153.8	1.2	164.2	0.4	119.6	1.3	135.9
D 3	1.4	122.0	1.8	130.8	1.6	132.0	1.6	124.0	1.4	112.2	1.4	105.6	1.6	141.6	1.6	155.8	1.6	109.6	1.2	133.6	1.6	129.8	1.2	148.2	1.6	160.8	2.0	118.0	1.6	131.3
L 4	2.2	109.0	2.6	119.2	5.6	135.0	2.8	117.0	2.2	100.6	2.0	101.6	2.2	125.6	2.2	137.2	2.0	107.2	1.8	121.4	5.8	131.8	2.2	141.4	2.0	154.4	1.4	112.6	2.5	125.0
Ma 5	1.4	109.0	1.4	117.4	0.0	134.0	2.0	115.8	1.4	98.4	0.0	100.0	0.4	117.6	0.2	130.2	0.0	104.2	0.0	113.0	0.0	129.2	0.0	136.8	0.0	139.8	0.0	111.2	0.3	120.4
Mi 6	3.4	111.2	4.4	120.6	3.2	132.8	5.8	120.4	4.4	101.8	5.4	103.8	7.0	123.0	7.2	136.2	4.8	108.0	8.0	119.4	4.2	118.4	7.2	141.8	12.2	150.0	7.6	113.4	6.9	123.9
J 7	0.0	104.0	0.0	112.2	0.0	124.0	0.0	109.8	0.0	93.0	0.0	93.2	0.2	112.2	0.0	120.4	0.0	98.0	0.0	105.2	0.2	108.2	0.0	115.6	0.0	126.0	0.0	100.0	0.0	109.7
V 8	0.0	93.0	0.0	97.0	0.0	110.8	0.0	94.6	0.0	81.2	0.0	82.8	0.0	97.4	0.0	107.6	0.0	82.4	0.0	95.0	0.0	101.8	0.0	101.8	0.0	110.2	0.0	85.8	0.0	95.9
S 9	3.6	94.2	1.0	94.6	0.4	107.0	0.0	91.2	1.2	79.8	0.0	80.6	0.0	94.2	0.0	103.8	0.0	80.0	0.0	89.8	1.6	92.4	1.4	97.8	0.0	104.0	0.0	82.0	0.5	92.4
D 10	0.8	93.4	2.0	94.0	11.2	115.4	7.0	96.6	1.8	80.0	15.8	95.0	4.2	97.8	6.4	110.0	0.0	78.2	7.0	96.2	3.2	92.4	8.2	105.6	13.4	116.4	0.0	79.4	6.5	97.2
L 11	0.6	94.0	4.4	98.4	2.8	117.8	12.4	108.8	5.6	85.2	3.2	98.0	1.0	98.6	1.6	111.6	1.0	79.2	0.8	96.8	2.0	94.0	0.8	106.0	0.8	117.2	1.4	80.0	2.3	99.2
Ma 12	0.4	83.2	0.2	97.8	0.0	116.8	0.0	108.2	0.0	83.4	0.2	97.4	0.2	97.4	0.0	111.6	0.4	64.4	0.0	95.8	0.0	93.0	0.2	105.0	0.4	116.4	1.0	75.0	0.4	96.6
Mi 13	0.0	70.6	0.0	84.6	0.0	88.0	0.0	97.4	0.0	74.6	0.0	82.8	0.0	76.0	0.0	83.0	0.0	59.6	0.0	70.6	0.0	77.0	0.0	92.6	0.0	103.2	0.0	68.0	0.0	82.2
J 14	0.0	67.2	0.0	79.4	0.0	81.8	0.0	91.8	0.0	70.0	0.0	77.8	0.0	72.8	0.0	79.8	0.0	58.4	0.0	67.6	0.4	72.6	0.0	85.2	0.0	98.8	0.0	65.6	0.0	78.0
V 15	1.0	58.2	1.8	79.4	0.8	82.2	2.6	94.0	2.0	70.8	1.2	79.0	2.6	75.2	3.6	83.2	2.0	60.2	4.8	72.4	2.4	74.4	1.4	86.6	4.0	102.6	2.2	67.8	2.3	79.6
S 16	0.0	58.2	0.0	79.2	0.0	82.0	0.0	93.8	0.0	70.8	0.0	79.0	0.2	75.2	0.0	83.2	0.0	60.2	0.0	72.4	0.2	74.4	0.0	86.6	0.0	102.6	0.0	67.8	0.0	79.5
D 17	0.0	40.2	0.0	64.0	0.0	73.6	0.0	84.8	0.0	58.8	0.0	71.6	0.0	66.0	0.0	73.6	0.0	45.2	0.0	64.0	0.0	66.8	0.0	78.4	0.0	93.4	0.0	59.4	0.0	70.0
L 18	0.8	40.4	4.6	68.0	0.0	71.8	4.8	89.2	2.8	61.2	3.2	74.2	2.0	67.4	3.8	76.8	1.4	45.8	2.8	66.2	0.4	66.4	3.0	80.4	1.8	94.4	0.0	57.6	1.7	70.7
Ma 19	0.8	40.8	1.2	68.6	4.2	72.8	1.2	88.8	0.4	60.8	0.0	70.4	0.6	66.4	0.0	73.8	0.2	45.2	0.0	63.6	0.2	65.6	0.0	74.6	0.2	90.0	0.0	57.0	0.6	68.9
Mi 20	1.2	38.6	2.2	67.2	0.6	62.6	3.0	86.0	2.4	60.6	1.0	66.6	1.0	64.0	2.0	70.4	0.0	41.2	1.4	61.2	1.8	59.4	1.4	72.2	1.8	86.8	0.0	49.8	1.2	64.3
J 21	0.0	36.0	0.0	58.8	0.0	59.0	0.0	76.4	0.0	49.8	0.0	62.0	0.0	53.4	0.0	58.0	0.0	37.6	0.0	54.2	0.2	54.6	0.0	61.8	0.0	78.0	0.0	47.6	0.0	58.1
V 22	0.0	33.2	0.0	55.4	5.4	61.2	0.0	74.0	0.0	46.8	0.4	60.2	0.0	51.2	0.0	55.6	0.0	33.6	0.0	52.6	0.4	52.2	0.0	59.4	0.0	76.0	0.0	46.2	0.6	56.4
S 23	1.6	32.0	3.4	57.8	4.0	63.0	2.4	75.2	2.4	47.8	2.2	60.2	2.8	52.6	2.4	57.2	1.2	31.8	2.4	53.8	4.6	52.8	3.4	61.0	4.0	78.0	1.0	45.4	2.7	57.1
D 24	4.2	34.8	4.2	60.0	2.6	63.0	4.0	77.0	4.0	49.6	2.4	60.0	4.2	54.6	3.6	58.6	4.0	34.0	3.0	55.0	2.6	52.2	2.8	61.4	3.4	77.8	3.4	45.4	3.3	57.7
L 25	0.0	33.8	0.0	59.2	0.2	62.8	0.6	77.0	0.0	49.0	0.0	60.0	0.2	53.6	0.0	57.8	0.0	33.4	0.0	53.8	0.6	51.4	0.2	59.4	0.2	75.6	0.2	42.6	0.2	56.3
Ma 26	0.0	24.2	0.4	37.4	1.4	46.8	0.8	53.2	0.0	33.8	2.4	42.4	0.4	32.0	0.4	36.2	0.0	19.4	0.0	34.2	1.8	36.0	0.6	35.2	0.0	47.0	0.6	21.2	0.7	35.7
Mi 27	8.4	31.8	20.0	55.6	9.6	53.6	25.2	76.2	19.6	51.6	9.6	50.4	19.6	50.4	15.0	50.0	10.0	28.6	17.4	50.6	5.2	39.4	14.8	48.8	19.0	64.8	11.2	32.0	14.0	48.4
J 28	8.6	39.0	8.4	62.2	5.6	57.6	8.6	83.2	8.0	58.2	4.4	53.4	5.0	53.8	3.4	51.8	4.2	31.2	3.6	53.0	3.4	41.2	3.2	50.8	2.6	65.8	2.6	32.6	4.4	51.1
V 29	3.2	40.0	5.2	64.8	6.6	58.6	8.2	88.6	4.2	60.2	12.0	63.4	4.0	55.6	7.4	57.0	3.4	32.6	4.4	55.6	14.0	49.4	10.6	59.2	5.2	69.0	7.0	38.2	7.0	55.6
S 30	2.2	40.8	2.6	66.0	2.8	61.4	3.4	90.0	2.0	60.8	3.2	66.6	2.4	57.6	2.6	59.4	1.6	34.2	2.2	57.8	5.0	54.4	3.8	63.0	2.8	71.8	4.0	42.2	3.1	58.5
D 1																														
LI. mes	56.2		95.8		88.8		123.2		82.8		91.6		85.0		86.6		52.6		81.4		80.8		92.4		105.2		68.0		85.5	
Máx. mes	9.6	154.6	22.2	158.8	17.4	147.8	25.2	141.4	19.6	132.8	20.0	123.0	22.0	156.4	22.0	175.8	14.0	130.8	19.6	151.0	17.2	146.2	24.8	164.2	28.6	181.6	22.0	141.4	21.3	151.6
LI. acum. en el año	1006.2		1004.0		998.0		977.6		907.4		841.6		988.6		932.8		855.2		897.6		961.8		882.0		1025.2		787.6		918.8	
No. días lluvia año	127	70%	128	71%	126	70%	127	70%	123	68%	125	69%	139	77%	117	65%	115	64%	119	66%	133	73%	124	69%	122	67%	116	64%	141	78%



UNIVERSIDAD NACIONAL DE COLOMBIA SEDE MANIZALES



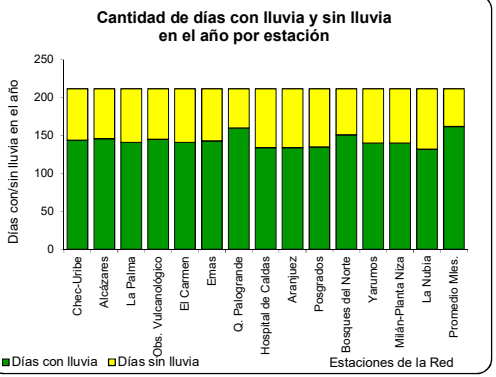
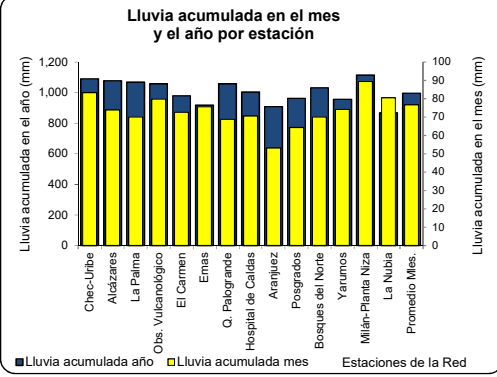
RED DE ESTACIONES HIDROMETEOROLÓGICAS DE MANIZALES ESTACIONES PARA LA GESTIÓN DEL RIESGO ANTE DESASTRES POR DESLIZAMIENTOS Sistema Integrado de Monitoreo Ambiental de Caldas - SIMAC



REGISTROS DE LLUVIA DIARIA E INDICADORES DE LLUVIA ANTECEDENTE DE 25 DÍAS

JULIO DE 2018

Estaciones	Chec-Uribe		Alcázares		La Palma		Observatorio Vulcanológico		El Carmen		Emas		Quebrada Palogrande-Ruta 30		Hospital de Caldas		Aranjuez		Posgrados		Bosques del Norte		Yarumos		Milán-Planta Niza		La Nubia		Promedio Manizales	
	LI. d.	A25	LI. d.	A25	LI. d.	A25	LI. d.	A25	LI. d.	A25	LI. d.	A25	LI. d.	A25	LI. d.	A25	LI. d.	A25	LI. d.	A25	LI. d.	A25	LI. d.	A25	LI. d.	A25	LI. d.	A25	LI. d.	A25
Día																														
D 1	19.2	56.6	9.6	71.2	6.2	64.4	4.8	89.0	5.0	61.4	7.6	68.8	3.2	53.8	2.6	54.8	3.6	33.0	2.8	52.6	5.0	55.2	8.0	63.8	4.0	63.6	10.8	45.4	7.1	58.7
L 2	10.0	66.6	10.8	82.0	10.8	75.2	12.8	101.8	10.0	71.4	7.2	76.0	10.2	63.8	10.4	65.2	10.2	43.2	11.8	64.4	7.0	62.0	14.6	78.4	24.8	88.4	26.4	71.8	18.2	74.9
Ma 3	6.4	73.0	6.4	88.4	4.6	79.8	6.2	108.0	6.8	78.2	5.0	81.0	6.6	70.4	6.6	71.8	6.4	49.6	6.2	70.6	7.4	69.4	6.0	84.4	9.2	97.6	6.8	78.6	6.7	81.6
Mi 4	0.0	69.4	0.0	87.4	0.0	79.4	0.0	108.0	0.0	77.0	0.0	81.0	0.2	70.6	0.0	71.8	0.0	49.6	0.0	70.6	0.2	68.0	0.0	83.0	0.0	97.6	0.0	78.6	0.0	81.1
J 5	0.0	68.6	0.0	85.4	0.0	68.2	0.0	101.0	0.0	75.2	0.0	65.2	0.0	66.4	0.0	65.4	0.0	49.6	0.0	63.6	0.0	64.8	0.0	74.8	0.0	84.2	0.0	78.6	0.0	74.6
V 6	0.4	68.4	0.6	81.6	4.6	70.0	0.6	89.2	0.8	70.4	3.4	65.4	1.6	67.0	1.6	65.4	1.4	50.0	1.6	64.4	5.0	67.8	3.6	77.6	3.2	86.6	1.2	78.4	2.3	74.6
S 7	1.6	69.6	1.0	82.4	1.6	71.6	0.8	90.0	0.8	71.2	1.4	66.6	0.8	67.6	0.6	66.0	0.8	50.4	0.6	65.0	2.2	70.0	0.6	78.0	1.2	87.4	1.2	78.6	1.2	75.5
D 8	0.0	69.6	0.0	82.4	0.0	71.6	0.0	90.0	0.2	71.4	0.2	66.8	0.4	68.0	0.2	66.2	0.2	50.6	0.2	65.2	0.4	70.4	0.4	78.4	0.2	87.6	0.2	78.8	0.2	75.6
L 9	0.0	69.6	0.2	82.6	0.0	71.6	0.6	90.6	0.0	71.4	0.6	67.4	0.4	68.4	0.0	66.2	0.2	50.8	0.0	65.2	0.0	70.0	0.0	78.4	0.8	88.4	0.0	78.8	0.2	75.9
Ma 10	0.4	69.0	11.4	95.2	11.2	82.0	22.8	110.8	20.4	89.8	18.0	84.2	17.0	82.8	15.2	77.8	3.2	52.0	12.2	72.6	3.2	70.8	5.8	82.8	6.8	91.2	8.4	85.0	10.4	84.0
Mi 11	0.6	69.6	0.6	95.8	0.2	82.2	0.6	111.4	1.0	90.8	0.6	84.8	2.6	85.2	2.2	80.0	0.6	52.6	1.4	74.0	0.0	70.6	0.0	82.8	1.0	92.2	2.2	87.2	1.1	85.0
J 12	0.0	69.6	0.0	95.8	0.0	82.2	0.0	111.4	0.0	90.8	0.0	84.8	0.0	85.2	0.0	80.0	0.0	52.6	0.0	74.0	0.0	70.6	0.0	82.8	0.0	92.2	0.0	87.2	0.0	85.0
V 13	0.0	68.8	0.0	91.2	0.0	82.2	0.0	106.6	0.0	88.0	0.0	81.6	0.0	83.2	0.0	76.2	0.0	51.2	0.0	71.2	0.0	70.2	0.0	79.8	0.0	90.4	0.0	87.2	0.0	83.3
S 14	0.0	68.0	0.0	90.0	0.0	78.0	0.0	105.4	0.0	87.6	0.0	81.6	0.0	82.6	0.0	76.2	0.0	51.0	0.0	71.2	0.0	70.0	0.0	79.8	0.0	90.2	0.0	87.2	0.0	82.7
D 15	0.0	66.8	0.2	88.0	0.6	78.0	0.4	102.8	0.4	85.6	0.4	81.0	0.6	82.2	0.6	74.8	0.4	51.4	0.6	70.4	0.6	68.8	0.6	79.0	0.8	89.2	0.4	87.6	0.5	82.0
L 16	0.0	66.8	0.4	88.4	0.8	78.8	0.8	103.6	0.0	85.6	0.6	81.6	0.4	82.6	0.6	75.4	0.4	51.8	0.0	70.4	1.2	69.8	0.8	79.8	0.8	90.0	0.0	87.6	0.5	82.5
Ma 17	0.0	66.8	0.0	88.4	0.0	73.4	0.0	103.6	0.0	85.6	0.0	81.2	0.2	82.8	0.0	75.4	0.0	51.8	0.0	70.4	0.0	69.4	0.0	79.8	0.0	90.0	0.0	87.6	0.0	81.9
Mi 18	0.0	65.2	0.0	85.0	0.0	69.4	0.0	101.2	0.0	83.2	0.0	79.0	0.0	80.0	0.0	73.0	0.0	50.6	0.0	68.0	0.0	64.8	0.0	76.4	0.0	86.0	0.0	86.6	0.0	79.2
J 19	8.6	69.6	0.0	80.8	0.0	66.8	0.0	97.2	0.0	79.2	0.0	76.6	0.0	75.8	0.0	69.4	0.0	46.6	0.0	65.0	0.0	62.2	0.0	73.6	0.0	82.6	0.0	83.2	0.4	76.3
V 20	0.0	69.6	0.0	80.8	0.0	66.6	0.0	96.6	0.0	79.2	0.0	76.6	0.0	75.6	0.0	69.4	0.0	46.6	0.0	65.0	0.0	61.6	0.0	73.4	0.0	82.4	0.0	83.0	0.0	76.1
S 21	0.0	69.6	0.0	80.4	0.0	65.2	0.0	95.8	0.0	79.2	0.0	74.2	0.0	75.2	0.0	69.0	0.0	46.6	0.0	65.0	0.0	59.8	0.0	72.8	0.0	82.4	0.0	82.4	0.0	75.4
D 22	11.4	72.6	1.4	61.8	0.0	55.6	0.4	71.0	3.0	62.6	0.0	64.6	0.0	55.6	0.0	54.0	0.0	36.6	0.0	47.6	0.0	54.6	0.0	58.0	0.0	63.4	0.0	71.2	0.7	62.1
L 23	0.0	64.0	0.0	53.4	0.0	50.0	0.0	62.4	0.0	54.6	0.0	60.2	0.0	50.6	0.0	50.6	0.0	32.4	0.0	44.0	0.6	51.8	0.0	54.8	0.0	60.8	0.0	68.6	0.0	57.8
Ma 24	1.6	62.4	3.2	51.4	2.4	45.8	4.0	58.2	1.6	52.0	2.4	50.6	1.8	48.4	1.8	45.0	1.8	30.8	1.8	41.4	2.6	40.4	2.6	46.8	2.2	57.8	1.0	62.6	2.0	52.8
Mi 25	5.2	65.4	0.0	48.8	0.0	43.0	0.0	54.8	1.6	51.6	0.0	47.4	0.2	46.2	0.0	42.4	2.4	31.6	0.0	39.2	0.0	35.4	0.0	43.0	0.0	55.0	0.0	58.6	0.4	50.1
J 26	0.4	46.6	3.2	42.4	3.8	40.6	4.6	54.6	1.8	48.4	9.4	49.2	3.4	46.4	7.8	47.6	3.0	31.0	7.8	44.0	10.4	40.8	11.0	46.0	11.2	62.2	3.4	51.2	6.2	49.2
V 27	3.4	40.0	3.4	35.0	0.0	29.8	1.2	43.0	3.8	42.2	0.2	42.2	2.2	38.4	1.6	38.8	4.6	25.4	1.8	34.0	0.4	34.2	1.2	32.6	3.8	41.2	4.0	28.8	2.5	35.4
S 28	5.6	39.2	6.0	34.6	6.6	31.8	6.0	42.8	5.6	41.0	8.0	45.2	5.8	37.6	7.2	39.4	5.4	24.4	6.4	34.2	7.4	34.2	8.2	34.8	7.4	39.4	5.2	27.2	6.5	35.2
D 29	1.2	40.4	2.2	36.8	2.4	34.2	1.8	44.6	1.6	42.6	2.0	47.2	2.0	39.4	2.6	42.0	2.2	26.6	2.2	36.4	2.6	36.6	3.2	38.0	4.4	43.8	4.0	31.2	3.0	38.2
L 30	7.0	47.4	9.0	45.8	12.8	47.0	10.2	54.8	7.2	49.8	7.0	54.2	7.2	46.6	7.8	49.8	5.6	32.2	6.2	42.6	7.8	44.4	6.2	44.2	6.4	50.2	4.6	35.8	7.2	45.3
Ma 31	0.4	47.4	1.4	46.6	1.4	43.8	1.2	55.4	1.0	50.0	1.6	52.4	2.0	47.0	1.2	49.4	0.8	31.6	1.0	42.0	6.0	45.4	1.4	42.0	1.2	48.2	0.8	35.4	1.4	44.4
LI. mes	83.4		74.0		70.0		79.8		72.6		75.6		68.8		70.6		53.2		64.4		70.0		74.2		89.4		80.6		76.7	
Máx. mes	19.2	73.0	14.4	95.8	12.8	82.2	22.8	111.4	20.4	90.8	18.0	84.8	17.0	85.2	15.2	80.0	10.2	52.6	12.2	74.0	10.4	70.8	14.6	84.4	24.8	97.6	26.4	87.6	16.2	85.0
LI. acum. en el año	1089.6		1078.0		1068.0		1057.4		980.0		917.2		1057.4		1003.4		908.4		962.0		1031.8		956.2		1114.6		868.2		995.5	
No. días lluvia año	144	68%	146	69%	141	67%	145	68%	141	67%	143	67%	160	75%	134	63%	134	63%	135	64%	151	71%	140	66%	140	66%	132	62%	162	76%



Días transcurridos en el año a la fecha		212	
No. de días con algún N.A. en el año			
Estación	A	N	R
Chec-Uribe	34	4	0
Alcázares	36	8	0
La Palma	40	0	0
Obs. Vulca	38	2	0
El Carmen	23	0	0
Emas	12	0	0
Q. Palogrande	46	0	0
Hospital	31	0	0
Aranjuez	18	0	0
Posgrados	27	0	0
Bosques	40	0	0
Yarumos	15	0	0
Milán-Plant	43	0	0
La Nubia	6	0	0
Prom. Miles	27	0	0

CONVENCIONES

LI. d. : Lluvia diaria en mm
A25 : Indicador lluvia antecedente de 25 días en mm
LI. mes: Lluvia parcial o total en el mes en mm
Máx. mes: Valores máximos de lluvia diaria y A25 en el mes en mm
LI. acum. en el año: Lluvia acumulada en el año en mm
No. días lluvia año: Número de días con lluvia en el corrido del año

valor Resalta la lluvia diaria máxima del mes

valor lluvia diaria calculada con estaciones cercanas

* Indicadores con base a los días de funcionamiento de cada estación

NIVELES DE ALERTA (N.A.)

Amarilla o baja: A 200 mm <= A25 < 300 mm
Naranja o media: N 300 mm <= A25 < 400 mm
Roja o alta: R A25 >= 400 mm

OBSERVACIONES:

- La lluvia promedio y acumulada en lo corrido del año para Manizales se calcularon con el Método de los Polígonos de Thiessen
- Datos resaltados en rojo están incompletos

UNIVERSIDAD NACIONAL DE COLOMBIA SEDE MANIZALES

RED DE ESTACIONES HIDROMETEOROLÓGICAS DE MANIZALES

ESTACIONES PARA LA GESTIÓN DEL RIESGO ANTE DESASTRES POR DESLIZAMIENTOS

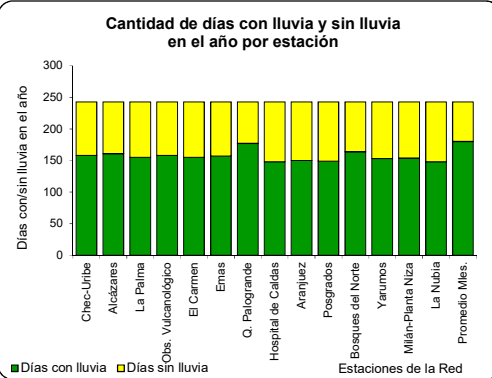
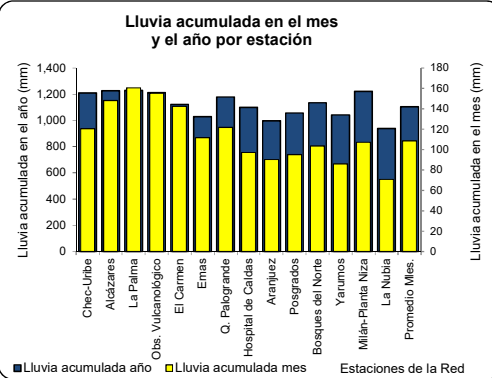
Sistema Integrado de Monitoreo Ambiental de Caldas - SIMAC



REGISTROS DE LLUVIA DIARIA E INDICADORES DE LLUVIA ANTECEDENTE DE 25 DÍAS

AGOSTO DE 2018

Estaciones	Chec-Uribe		Alcázares		La Palma		Observatorio Vulcanológico		El Carmen		Emas		Quebrada Palogrande-Ruta 30		Hospital de Caldas		Aranjuez		Posgrados		Bosques del Norte		Yarumos		Milán-Planta Niza		La Nubia		Promedio Manizales	
Propietarios	CHEC S.A. E.S.P		Alcaldía/UGR		Alcaldía/UGR		Alcaldía/UGR		Alcaldía/UGR		EMAS S.A. E.S.P		UN-Manizales		Alcaldía/UGR		Alcaldía/UGR		Alcaldía/UGR		UN-Manizales		Alcaldía/UGR		Alcaldía/UGR		Alcaldía/UGR		Alcaldía/UGR	
Día	Ll. d.	A25	Ll. d.	A25	Ll. d.	A25	Ll. d.	A25	Ll. d.	A25	Ll. d.	A25	Ll. d.	A25	Ll. d.	A25	Ll. d.	A25	Ll. d.	A25	Ll. d.	A25	Ll. d.	A25	Ll. d.	A25	Ll. d.	A25		
Mi 1	1.8	47.6	7.4	53.0	1.8	44.0	4.4	59.0	4.8	54.0	3.2	54.2	8.2	54.4	3.4	52.2	0.0	36.8	5.2	46.6	4.2	47.4	6.2	47.6	7.6	54.6	8.6	42.8	5.8	49.0
J 2	0.0	47.6	0.0	53.0	0.8	44.8	0.0	59.0	0.4	54.2	0.0	54.0	0.2	54.2	0.0	52.0	0.2	36.8	0.0	46.4	0.8	47.8	0.2	47.4	0.0	54.4	0.8	43.4	0.3	49.1
V 3	33.0	80.6	33.0	91.6	50.2	95.0	41.0	99.4	42.0	96.2	25.6	79.0	34.4	88.2	30.8	82.8	28.4	65.0	22.8	69.2	19.4	67.2	15.0	62.4	24.4	78.0	19.4	62.8	23.4	77.2
S 4	0.8	81.0	1.0	78.2	2.4	86.2	1.4	78.0	0.8	76.6	4.8	65.8	0.8	72.0	1.0	66.6	0.4	62.2	0.8	57.8	1.6	65.6	6.4	63.0	1.0	72.2	1.0	55.4	1.8	68.6
D 5	24.6	105.0	18.8	96.4	23.6	109.6	14.0	91.4	17.8	93.4	17.2	82.4	22.6	92.0	19.8	86.2	22.4	84.0	20.2	76.6	31.4	97.0	21.4	84.4	28.6	99.8	10.2	63.4	20.0	87.5
L 6	0.0	105.0	0.0	96.4	0.0	109.6	0.0	91.4	0.0	93.4	0.0	82.4	0.0	92.0	0.0	86.2	0.0	84.0	0.0	76.6	0.0	97.0	0.0	84.4	0.0	99.8	0.0	63.4	0.0	87.5
Ma 7	0.0	105.0	0.0	96.4	0.0	109.6	0.0	91.4	0.0	93.4	0.0	82.4	0.0	92.0	0.0	86.2	0.0	84.0	0.0	76.6	0.0	97.0	0.0	84.4	0.0	99.8	0.0	63.4	0.0	87.5
Mi 8	3.6	108.6	1.0	97.4	0.0	109.6	0.4	91.8	1.0	94.4	0.0	82.4	0.8	92.8	0.0	86.2	2.2	86.2	0.0	76.6	0.0	97.0	0.0	84.4	0.0	99.8	0.4	63.8	0.4	88.0
J 9	1.2	109.8	1.6	98.8	1.0	110.0	3.4	94.8	1.8	95.8	0.4	82.4	3.0	95.2	1.0	86.6	2.4	88.2	2.2	78.2	0.0	96.4	0.0	83.8	0.4	99.4	1.4	64.8	1.2	88.6
V 10	0.0	109.8	0.0	98.4	0.0	109.2	0.0	94.0	0.0	95.8	0.0	81.8	0.0	94.8	0.0	86.0	0.0	87.8	0.0	78.2	0.0	95.2	0.0	83.0	0.2	98.8	0.0	64.8	0.0	88.2
S 11	0.0	109.8	0.0	98.4	0.0	109.2	0.0	94.0	0.0	95.8	0.0	81.8	0.0	94.6	0.0	86.0	0.0	87.8	0.0	78.2	0.0	95.2	0.0	83.0	0.0	98.8	0.0	64.8	0.0	88.2
D 12	0.0	109.8	0.0	98.4	0.0	109.2	0.0	94.0	0.0	95.8	0.0	81.8	0.0	94.6	0.0	86.0	0.0	87.8	0.0	78.2	0.0	95.2	0.0	83.0	0.0	98.8	0.0	64.8	0.0	88.2
L 13	0.0	101.2	0.4	98.8	0.6	109.8	0.6	94.6	0.0	95.8	1.6	83.4	0.4	95.0	1.0	87.0	0.6	88.4	0.6	78.8	1.6	96.8	1.2	84.2	0.8	99.6	1.6	66.4	1.0	88.8
Ma 14	18.8	120.0	38.2	137.0	39.0	148.8	36.0	130.6	29.0	124.8	39.6	123.0	31.2	126.2	24.0	111.0	14.6	103.0	19.8	98.6	34.0	130.8	20.6	104.8	24.4	124.0	13.6	80.0	25.8	114.6
Mi 15	0.0	120.0	0.0	137.0	0.2	149.0	0.0	130.6	0.0	124.8	0.0	123.0	0.0	126.2	0.0	111.0	0.0	103.0	0.0	98.6	0.2	131.0	0.2	105.0	0.0	124.0	0.0	80.0	0.0	114.6
J 16	0.0	108.6	0.0	135.6	0.0	149.0	0.0	130.2	0.0	121.8	0.0	123.0	0.0	126.2	0.0	111.0	0.0	103.0	0.0	98.6	0.0	131.0	0.0	105.0	0.0	124.0	0.0	80.0	0.0	113.9
V 17	0.0	108.6	0.0	135.6	0.0	149.0	0.0	130.2	0.0	121.8	0.0	123.0	0.0	126.2	0.0	111.0	0.0	103.0	0.0	98.6	0.0	130.4	0.0	105.0	0.0	124.0	0.0	80.0	0.0	113.8
S 18	1.4	108.4	1.8	134.2	4.4	151.0	0.0	126.2	1.4	121.6	4.4	125.0	0.4	124.8	0.0	109.2	1.4	102.6	0.0	96.8	4.6	132.4	0.0	102.4	0.0	121.8	0.8	79.8	1.5	113.3
D 19	27.4	130.6	32.0	166.2	32.0	183.0	47.2	173.4	37.0	157.0	8.4	133.4	7.0	131.6	4.4	113.6	4.6	104.8	6.4	103.2	0.6	133.0	1.0	103.4	1.2	123.0	0.6	80.4	11.5	124.4
L 20	0.0	130.2	0.0	163.0	0.0	179.2	0.0	168.8	0.0	155.2	0.0	124.0	0.0	128.2	0.0	105.8	0.0	101.8	0.0	95.6	0.0	122.6	0.0	92.4	0.0	111.8	0.0	77.0	0.0	118.2
Ma 21	0.0	126.8	0.0	159.6	0.0	179.2	0.0	167.6	0.0	151.4	0.4	124.2	1.4	127.4	1.2	105.4	0.0	97.2	2.2	96.0	0.0	122.2	1.6	92.8	5.4	113.4	3.2	76.2	1.9	117.6
Mi 22	0.0	121.2	0.0	153.6	0.0	172.6	0.0	161.6	0.0	145.8	0.0	116.2	0.0	121.6	0.0	98.2	0.0	91.8	0.0	89.6	0.0	114.8	0.0	84.6	0.0	106.0	0.0	71.0	0.0	111.1
J 23	0.0	120.0	0.0	151.4	0.0	170.2	0.0	159.8	0.0	144.2	0.0	114.2	0.0	119.6	0.0	95.6	0.0	89.6	0.0	87.4	0.0	112.2	0.0	81.4	0.0	101.6	0.0	67.0	0.0	108.2
V 24	3.0	116.0	1.8	144.2	2.6	160.0	2.0	151.6	2.4	139.4	2.2	109.4	2.4	114.8	2.2	90.0	2.8	86.8	2.2	83.4	2.8	107.2	3.0	78.2	3.4	98.6	3.2	65.6	2.8	103.8
S 25	0.0	115.6	0.0	142.8	0.0	158.6	0.0	150.4	0.0	138.4	0.0	107.8	0.0	112.8	0.0	88.8	0.0	86.0	0.0	82.4	0.0	101.2	0.0	76.8	0.0	97.4	0.0	64.8	0.0	102.4
D 26	2.6	116.4	0.8	136.2	0.0	156.8	0.0	146.0	0.0	133.6	0.0	104.6	0.0	104.6	0.0	85.4	0.0	80.0	0.0	77.2	0.0	97.0	0.0	70.6	0.0	89.8	0.0	56.2	0.1	96.8
L 27	1.2	117.6	3.6	139.8	1.6	157.6	4.2	150.2	3.0	136.2	3.4	108.0	6.8	111.2	7.0	92.4	2.2	82.0	10.8	88.0	1.6	97.8	8.8	79.2	8.0	97.8	2.6	58.0	4.5	101.0
Ma 28	0.0	84.6	0.0	101.0	0.0	107.4	0.0	109.2	0.0	94.2	0.0	82.4	0.0	76.8	0.0	61.6	0.0	53.6	0.0	65.2	0.0	78.4	0.0	64.2	0.0	73.4	0.0	38.6	0.0	72.6
Mi 29	0.6	84.4	0.8	100.8	0.4	105.4	0.4	108.2	0.8	94.2	0.4	78.0	0.8	76.8	0.4	61.0	0.8	54.0	0.4	64.8	0.0	76.8	0.0	57.8	0.0	72.4	0.0	37.6	0.3	71.1
J 30	0.6	60.4	0.2	82.2	0.0	81.8	0.2	94.4	0.2	76.6	0.0	60.8	1.0	55.2	0.6	41.8	0.8	32.4	0.8	45.4	0.0	45.4	0.0	36.4	0.6	44.4	1.6	29.0	0.6	51.6
V 31	0.0	60.4	0.0	82.2	0.0	81.8	0.0	94.4	0.0	76.6	0.2	61.0	0.4	55.6	0.2	42.0	0.4	32.8	0.8	46.2	0.8	46.2	0.4	36.8	1.2	45.6	1.8	30.8	0.7	52.4
Ll. mes	120.6		148.2		160.6		155.2		142.4		111.8		121.8		97.0		90.2		95.2		103.6		86.0		107.2		70.8		108.7	
Máx. mes	33.0	130.6	38.8	166.2	50.2	183.0	47.2	173.4	42.0	157.0	39.6	133.4	34.4	131.6	30.8	113.6	28.4	104.8	22.8	103.2	34.0	133.0	21.4	105.0	28.6	124.0	19.4	80.4	28.4	124.4
Ll. acum. en el año	1210.2		1226.2		1228.6		1212.6		1122.4		1029.0		1179.2		1100.4		998.6		1057.2		1135.4		1042.2		1221.8		939.0		1104.2	
No. días lluvia año	158	65%	161	66%	155	64%	158	65%	155	64%	157	65%	177	73%	148	61%	150	62%	149	61%	164	67%	153	63%	154	63%	148	61%	180	74%

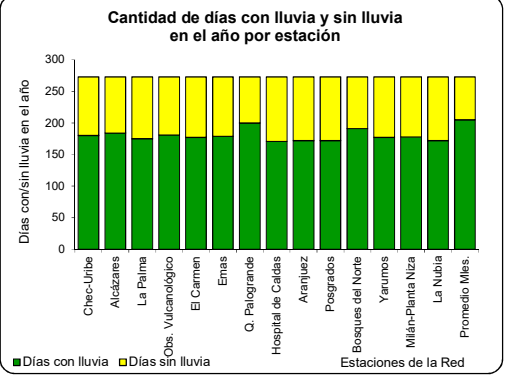
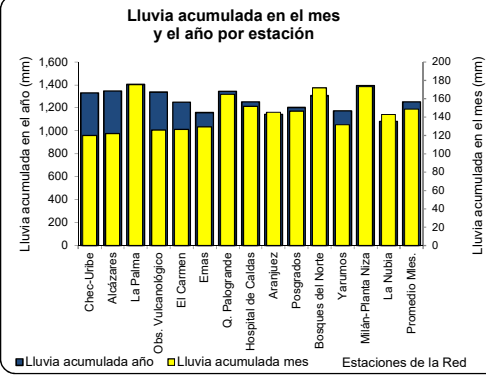


Días transcurridos en el año a la fecha		243	
No. de días con algún N.A. en el año			
Estación	A	N	R
Chec-Uribe	34	4	0
Alcázares	36	8	0
La Palma	40	0	0
Obs. Vulca	38	2	0
El Carmen	23	0	0
Emas	12	0	0
Q. Palogrande	46	0	0
H			

REGISTROS DE LLUVIA DIARIA E INDICADORES DE LLUVIA ANTECEDENTE DE 25 DÍAS

SEPTIEMBRE DE 2018

Estaciones	Chec-Uribe		Alcázares		La Palma		Observatorio Vulcanológico		El Carmen		Emas		Quebrada Palogrande-Ruta 30		Hospital de Caldas		Aranjuez		Posgrados		Bosques del Norte		Yarumos		Milán-Planta Niza		La Nubia		Promedio Manizales		
	LI. d.	A25	LI. d.	A25	LI. d.	A25	LI. d.	A25	LI. d.	A25	LI. d.	A25	LI. d.	A25	LI. d.	A25	LI. d.	A25	LI. d.	A25	LI. d.	A25	LI. d.	A25	LI. d.	A25	LI. d.	A25	LI. d.	A25	
Propietarios	CHEC S.A. E.S.P		Alcaldía/UGR		Alcaldía/UGR		Alcaldía/UGR		Alcaldía/UGR		EMAS S.A. E.S.P		UN-Manizales		Alcaldía/UGR		Alcaldía/UGR		Alcaldía/UGR		UN-Manizales		Alcaldía/UGR		Alcaldía/UGR		Alcaldía/UGR		Alcaldía/UGR		
Día	LI. d.	A25	LI. d.	A25	LI. d.	A25	LI. d.	A25	LI. d.	A25	LI. d.	A25	LI. d.	A25	LI. d.	A25	LI. d.	A25	LI. d.	A25	LI. d.	A25	LI. d.	A25	LI. d.	A25	LI. d.	A25	LI. d.	A25	
S 1	0.0	60.4	0.2	82.4	2.0	83.8	0.6	95.0	0.0	76.6	2.8	63.8	1.2	56.8	1.6	43.6	0.0	32.8	1.2	47.4	0.2	46.4	2.2	39.0	2.0	47.6	0.6	31.4	1.2	53.6	
D 2	2.2	59.0	2.2	83.6	2.4	86.2	2.2	96.8	2.2	77.8	3.2	67.0	3.0	59.0	2.4	46.0	3.0	33.6	2.8	50.2	4.4	50.8	4.2	43.2	3.8	51.4	3.6	34.6	3.2	56.4	
L 3	0.8	58.6	1.8	83.8	1.6	86.8	2.2	95.6	2.4	78.4	4.2	70.8	5.4	61.4	6.0	51.0	9.4	40.6	7.6	55.6	4.0	54.8	6.2	49.4	9.4	60.4	8.4	41.6	5.8	61.0	
Ma 4	2.6	61.2	3.0	86.8	3.4	90.2	3.4	99.0	3.0	81.4	3.0	73.8	4.2	65.6	3.8	54.8	4.2	44.8	3.8	59.4	3.0	57.8	3.6	53.0	4.0	64.2	5.0	46.6	3.8	64.8	
Mi 5	2.0	63.2	3.4	90.2	6.6	96.8	6.2	105.2	2.4	83.8	8.6	82.4	2.0	67.6	3.4	58.2	2.8	47.6	0.8	60.2	8.0	65.8	4.8	57.8	0.6	64.8	3.0	49.6	3.8	68.5	
J 6	16.0	79.2	24.4	114.6	7.8	104.6	26.6	131.8	30.6	114.4	10.0	92.4	35.0	102.6	27.2	85.4	17.2	64.8	31.0	91.2	14.4	80.2	11.0	68.8	2.4	89.0	2.8	52.4	16.0	84.6	
V 7	1.4	80.6	3.6	117.8	3.2	107.2	6.6	137.8	3.0	117.4	3.4	94.2	3.2	105.4	2.6	87.0	1.0	65.2	1.2	91.8	2.6	81.2	1.8	69.4	0.4	88.6	0.4	51.2	1.9	85.6	
S 8	0.4	62.2	0.8	80.4	5.6	73.8	1.6	103.4	0.4	88.8	3.8	58.4	1.4	75.6	3.4	66.4	0.6	51.2	0.6	72.6	6.6	53.8	1.8	50.6	1.2	65.4	0.6	38.2	2.0	61.8	
D 9	0.6	62.8	1.8	82.2	1.0	74.6	2.4	105.8	2.4	91.2	0.8	59.2	1.2	76.8	1.0	67.4	1.2	52.4	1.2	73.8	3.8	57.4	0.4	50.8	2.4	67.8	0.6	38.8	1.4	63.1	
L 10	0.0	62.8	0.0	82.2	0.0	74.6	0.0	105.8	0.0	91.2	0.4	59.6	0.0	76.8	0.0	67.4	0.0	52.4	0.0	73.8	1.0	58.4	0.6	51.4	0.6	68.4	0.4	39.2	0.3	63.4	
Ma 11	11.6	74.4	7.6	89.8	4.0	78.6	5.2	111.0	6.0	97.2	3.2	62.8	6.8	83.6	10.8	78.2	6.6	59.0	6.4	80.2	0.6	59.0	1.6	53.0	2.8	71.2	1.8	41.0	4.1	67.6	
Mi 12	0.2	73.2	1.0	89.0	1.6	75.8	1.6	112.6	1.0	96.8	2.4	60.8	1.8	85.0	2.2	80.4	0.8	58.4	2.2	82.4	3.2	57.6	2.8	55.8	2.6	73.8	3.0	43.2	2.2	68.3	
J 13	6.2	52.0	5.0	62.0	22.4	66.2	6.2	71.6	5.8	65.6	3.0	55.4	10.6	88.6	8.6	84.6	13.4	67.2	9.8	85.8	6.6	63.6	10.0	64.8	11.2	83.8	9.2	51.8	9.9	66.6	
V 14	7.8	59.8	13.4	75.4	19.6	85.8	13.4	85.0	7.6	73.2	13.2	68.6	9.2	97.8	9.6	94.2	9.2	76.4	8.0	93.8	9.0	72.6	5.2	70.0	5.4	89.2	4.2	56.0	8.8	75.4	
S 15	21.2	81.0	23.4	98.8	47.0	132.8	20.8	105.8	20.8	94.0	20.6	88.8	26.8	123.2	23.8	116.8	23.6	103.0	26.0	117.6	32.0	104.6	27.4	95.8	33.2	117.0	35.6	88.4	30.5	104.0	
D 16	5.8	86.8	6.8	105.6	5.0	137.8	4.0	109.8	4.6	98.6	5.2	94.0	7.2	130.4	5.8	122.6	6.4	109.6	6.0	123.6	6.8	111.4	5.0	100.8	6.4	123.4	4.4	92.8	5.4	109.4	
L 17	9.2	96.0	5.2	110.8	0.2	138.0	1.4	111.2	14.2	112.8	0.2	94.2	6.0	136.4	8.8	131.4	6.4	115.8	5.2	128.8	0.6	112.0	0.6	101.4	8.8	132.2	2.2	95.0	4.4	113.8	
Ma 18	0.6	93.6	0.2	109.2	0.0	135.4	0.2	109.4	0.6	111.0	0.0	92.0	1.4	135.4	1.8	131.0	1.2	114.2	1.4	128.0	0.2	109.4	2.4	100.8	2.2	131.0	8.2	100.0	2.6	113.6	
Mi 19	1.0	94.6	1.0	110.2	0.0	135.4	1.2	110.6	1.0	112.0	0.0	92.0	1.8	137.2	0.6	131.6	3.0	117.2	1.8	129.8	1.6	111.0	0.8	101.6	2.2	133.2	3.8	103.8	1.7	115.4	
J 20	0.0	92.0	0.0	109.4	0.0	135.4	0.0	110.6	0.0	112.0	0.0	92.0	0.0	137.2	0.0	131.6	0.0	117.2	0.0	129.8	0.0	111.0	0.0	101.6	0.0	133.2	0.0	103.8	0.0	115.2	
V 21	0.0	90.8	0.0	105.8	0.0	133.8	0.0	106.4	0.0	109.0	0.0	88.6	0.0	130.4	0.0	124.6	0.0	115.0	0.0	119.0	0.0	109.4	0.0	92.8	0.0	125.2	0.0	101.2	0.0	110.7	
S 22	0.0	90.8	0.0	105.8	0.0	133.8	0.0	106.4	0.0	109.0	0.0	88.6	0.0	130.4	0.0	124.6	0.0	115.0	0.0	119.0	0.0	109.4	0.0	92.8	0.0	125.2	0.0	101.2	0.0	110.7	
D 23	0.0	90.2	0.0	105.0	0.0	133.4	0.0	106.0	0.0	108.2	0.0	88.2	0.0	129.6	0.0	124.2	0.0	114.2	0.0	118.6	0.8	110.2	0.0	92.8	0.0	125.2	0.0	101.2	0.0	110.5	
L 24	5.6	95.2	0.4	105.2	0.0	133.4	0.4	106.2	1.2	109.2	0.0	88.2	4.6	133.2	0.4	124.0	3.0	116.4	0.0	117.8	0.2	110.4	0.0	92.8	0.0	124.6	0.0	99.6	0.6	110.5	
Ma 25	0.0	95.2	0.0	105.2	0.0	133.4	0.0	106.2	0.0	109.2	0.4	88.4	0.0	132.8	0.0	123.8	0.0	116.0	0.4	117.4	1.0	110.6	2.2	94.6	2.4	125.8	1.0	98.8	0.8	110.6	
Mi 26	1.0	96.2	2.8	107.8	31.4	162.8	7.6	113.2	2.2	111.4	14.8	100.4	1.6	133.2	6.0	128.2	2.8	118.8	4.4	120.6	33.4	143.8	4.2	96.6	7.2	131.0	3.4	101.6	9.4	118.7	
J 27	22.0	116.0	1.4	107.0	7.4	167.8	2.2	113.2	1.4	110.6	12.0	109.2	2.2	132.4	2.4	128.2	2.4	118.2	2.4	120.2	14.6	154.0	4.4	96.8	3.2	130.4	2.4	100.4	5.3	120.9	
V 28	0.8	116.0	11.8	117.0	2.8	169.0	9.0	120.0	12.0	120.2	13.0	118.0	22.4	149.4	15.8	138.0	17.8	126.6	15.4	128.0	7.4	157.4	18.4	109.0	15.6	136.6	8.6	100.6	11.4	126.5	
S 29	1.0	114.4	0.8	114.8	0.2	165.8	0.8	117.4	1.8	119.0	1.2	116.2	5.8	151.0	3.8	138.0	6.2	128.6	6.8	131.0	5.8	160.2	10.0	115.4	21.2	153.8	29.6	125.2	11.9	134.6	
D 30	0.0	112.4	0.0	111.4	0.0	159.2	0.0	111.2	0.0	116.6	0.0	107.6	0.0	149.0	0.0	134.6	0.0	125.8	0.0	130.2	0.2	152.4	0.0	110.6	0.0	153.2	0.0	122.2	0.0	130.8	
L 1																															
LI. mes	120.0		122.0		175.2		125.8		126.6		129.4		164.8		151.8		145.2		146.4		172.0		131.6		173.0		142.8		148.6		
Máx. mes	22.0	116.0	24.4	117.8	47.0	169.0	26.6	137.8	30.6	120.2	20.6	118.0	35.0	151.0	27.2	138.0	26.6	128.6	31.0	131.0	33.4	160.2	27.4	115.4	33.2	153.8	35.6	125.2	30.5	134.6	
LI. acum. en el año	1330.2		1348.2		1403.8		1338.4		1249.0		1158.4		1344.0		1252.2		1143.8		1203.6		1307.4		1173.8		1394.8		1081.8		1252.9		
No. días lluvia año	180	66%	184	67%	175	64%	181	66%	177	65%	179	66%	200	73%	171	63%	172	63%	172	63%	191	70%	177	65%	178	65%	172	63%	205	75%	



REGISTROS DE LLUVIA DIARIA E INDICADORES DE LLUVIA ANTECEDENTE DE 25 DÍAS

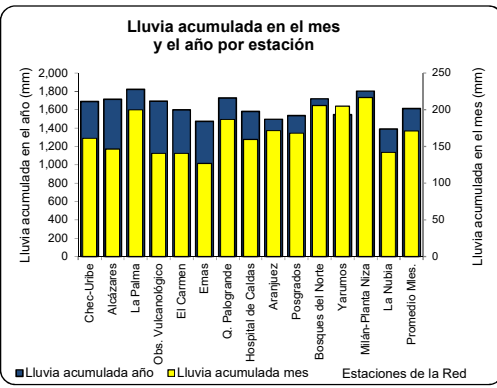
OCTUBRE DE 2018

Estaciones	Chec-Uribe		Alcázares		La Palma		Observatorio Vulcanológico		El Carmen		Emas		Quebrada Palogrande-Ruta 30		Hospital de Caldas		Aranjuez		Posgrados		Bosques del Norte		Yarumos		Milán-Planta Niza		La Nubia		Promedio Manizales			
	Propietarios	CHEC S.A. E.S.P	Alcaldía/UGR	Alcaldía/UGR	Alcaldía/UGR	Alcaldía/UGR	Alcaldía/UGR	Alcaldía/UGR	EMAS S.A. E.S.P	UN-Manizales	Alcaldía/UGR	Alcaldía/UGR	Alcaldía/UGR	Alcaldía/UGR	Alcaldía/UGR	Alcaldía/UGR	Alcaldía/UGR	Alcaldía/UGR	Alcaldía/UGR	Alcaldía/UGR	Alcaldía/UGR	Alcaldía/UGR	Alcaldía/UGR	Alcaldía/UGR	Alcaldía/UGR	Alcaldía/UGR	Alcaldía/UGR	Alcaldía/UGR				
Día	Li. d.	A25	Li. d.	A25	Li. d.	A25	Li. d.	A25	Li. d.	A25	Li. d.	A25	Li. d.	A25	Li. d.	A25	Li. d.	A25	Li. d.	A25	Li. d.	A25	Li. d.	A25	Li. d.	A25	Li. d.	A25	Li. d.	A25		
L 1	0.0	96.4	0.0	87.0	0.0	151.4	0.0	84.6	0.0	86.0	0.0	97.6	0.0	114.0	0.0	107.4	0.0	108.6	0.0	99.2	0.0	138.0	0.0	99.6	0.0	129.0	0.0	119.4	0.0	114.8		
Ma 2	6.4	101.4	0.6	84.0	0.0	148.2	0.0	78.0	0.6	83.6	0.0	94.2	1.4	112.2	0.4	105.2	1.4	109.0	0.8	98.8	0.0	135.4	0.0	97.8	0.6	129.2	0.8	119.8	0.8	113.6		
Mi 3	0.0	101.0	0.0	83.2	0.0	142.6	0.0	76.4	0.2	83.4	0.0	90.4	0.2	111.0	0.0	101.8	0.4	108.8	0.6	98.8	0.0	128.8	0.0	97.8	0.0	111.6	14.0	142.0	2.2	121.4	3.8	115.4
J 4	2.2	102.6	5.2	86.6	7.4	149.0	4.4	78.4	1.8	82.8	5.4	95.0	17.0	126.8	12.2	113.0	15.4	123.0	26.2	123.8	4.4	129.4	16.6	127.8	26.2	165.8	23.4	144.2	15.0	129.0		
V 5	30.2	132.8	28.6	115.2	37.8	186.8	33.4	111.8	26.2	109.0	22.2	116.8	17.8	144.6	17.0	130.0	15.8	138.8	10.4	134.2	21.0	149.4	11.8	139.0	15.0	180.2	21.0	164.8	21.0	150.6		
S 6	8.8	130.0	7.8	115.4	6.4	189.2	4.4	111.0	7.4	110.4	4.6	118.2	7.6	145.4	5.6	124.8	6.6	138.8	6.0	133.8	5.4	154.2	4.8	142.2	7.2	184.6	4.6	167.6	6.0	152.4		
D 7	0.4	130.2	8.0	122.4	0.0	187.6	7.0	116.4	3.4	112.8	3.4	119.2	2.2	145.8	1.4	124.0	1.2	139.2	1.2	132.8	0.0	151.0	0.0	139.4	0.0	182.0	0.0	164.6	1.3	151.5		
L 8	3.4	127.4	10.4	127.8	10.2	175.4	17.6	127.8	14.2	121.2	21.6	137.8	10.0	145.2	15.4	130.8	9.0	134.8	9.0	132.0	11.2	155.6	17.0	146.4	8.4	179.2	3.8	159.2	10.3	152.0		
Ma 9	12.8	132.4	22.4	136.8	3.4	159.2	40.2	154.6	31.2	144.8	12.6	137.2	9.6	145.6	7.4	128.6	9.6	135.2	5.8	129.8	9.8	156.4	4.2	145.4	5.8	179.6	4.8	159.0	10.0	153.2		
Mi 10	36.0	147.2	38.0	151.4	47.2	159.4	32.2	166.0	38.0	162.0	32.4	149.0	48.2	165.0	32.8	137.6	42.0	150.6	35.8	139.6	45.0	169.4	28.8	146.8	33.4	179.8	27.6	151.8	35.0	157.7		
J 11	10.2	151.6	6.2	150.8	7.8	162.2	3.8	165.8	6.0	163.4	3.6	147.4	7.6	165.4	6.6	138.4	6.8	151.0	6.4	140.0	5.4	168.0	4.0	145.8	6.2	179.6	7.2	154.6	6.3	158.6		
V 12	0.0	142.4	0.4	146.0	4.8	166.8	0.0	164.4	0.0	149.2	0.0	147.2	0.0	159.4	0.0	129.6	0.0	144.6	0.0	134.8	0.2	167.6	0.0	145.2	1.2	172.0	1.8	154.2	1.1	155.4		
S 13	0.0	141.8	0.0	145.8	0.0	166.8	0.0	164.2	0.0	148.6	0.0	147.2	0.0	158.0	0.0	127.8	0.0	143.4	0.0	133.4	0.0	167.4	0.0	142.8	0.0	169.8	0.0	146.0	0.0	152.8		
D 14	0.0	140.8	0.6	145.4	0.4	167.0	0.0	163.0	0.0	147.6	0.0	147.2	0.0	156.2	0.0	127.2	0.0	140.4	0.0	131.6	0.4	166.2	0.0	142.0	0.0	167.6	0.0	142.2	0.1	151.1		
L 15	0.6	141.4	0.4	145.8	0.4	167.6	0.6	163.6	0.4	148.0	0.0	147.2	0.0	156.2	0.0	127.2	0.0	140.4	0.0	131.6	0.6	166.8	0.0	142.0	0.0	167.6	0.6	142.8	0.3	151.4		
Ma 16	16.8	158.2	7.2	153.0	17.6	185.2	7.8	171.4	6.6	154.6	16.4	163.6	10.0	166.2	8.6	135.0	10.2	150.6	9.2	140.8	40.2	207.0	9.6	151.6	10.4	178.0	9.4	152.2	12.6	164.0		
Mi 17	4.0	162.2	2.2	155.2	1.6	186.8	1.4	172.8	2.2	156.8	2.0	165.6	2.4	168.6	2.0	137.8	2.2	152.8	2.4	143.2	1.0	208.0	1.0	152.6	1.2	179.2	4.2	156.4	2.3	166.3		
J 18	1.0	163.2	6.0	161.2	8.2	195.0	4.8	177.6	8.2	165.0	5.8	171.4	0.8	169.4	4.4	142.2	0.4	153.2	0.4	143.6	1.4	208.6	0.0	152.6	2.0	181.2	1.0	157.4	3.0	169.3		
V 19	0.0	157.6	0.2	161.0	0.0	195.0	0.2	177.4	0.0	163.8	1.2	172.6	0.2	165.0	0.8	142.6	1.4	151.6	4.2	147.8	1.6	210.0	5.0	157.6	4.8	186.0	0.0	157.4	1.6	170.2		
S 20	24.4	182.0	18.2	179.2	25.0	220.0	14.2	191.6	18.0	181.8	13.8	186.0	17.4	182.4	13.2	155.8	17.2	168.8	14.8	162.2	18.0	227.0	11.4	166.8	15.2	198.8	20.2	176.7	17.7	187.1		
D 21	0.0	181.0	0.0	176.4	0.0	188.6	0.0	184.0	0.0	179.6	0.2	171.4	0.2	181.0	0.0	149.8	0.0	166.0	0.2	158.0	0.0	193.6	0.0	162.6	0.0	191.6	0.0	173.2	0.0	177.7		
L 22	0.0	159.0	0.0	175.0	0.0	181.2	0.0	181.8	0.0	178.2	0.0	159.4	0.0	178.8	0.0	147.4	0.0	163.6	0.0	155.6	0.0	179.0	0.4	158.6	0.6	189.0	0.0	170.8	0.1	172.5		
Ma 23	10.8	169.0	22.8	186.0	7.0	185.4	17.6	190.4	17.2	183.4	13.2	159.6	12.4	168.8	9.0	140.6	13.2	159.0	10.4	150.6	12.0	183.6	9.0	149.2	7.6	181.0	9.4	171.6	10.9	172.0		
Mi 24	21.2	189.2	21.4	206.6	24.8	210.0	19.2	208.8	18.8	200.2	24.4	182.8	29.0	192.0	25.4	162.2	22.6	175.4	16.8	160.6	18.4	196.2	21.2	160.4	25.4	185.2	16.0	158.0	21.4	181.4		
J 25	5.6	194.8	6.6	213.2	4.2	214.2	2.6	211.4	3.4	203.6	2.8	185.6	2.2	194.2	2.2	164.4	2.4	177.8	2.2	162.8	2.8	201.2	2.0	162.4	1.8	187.0	1.6	159.6	2.7	184.0		
V 26	4.4	199.2	4.6	217.8	2.2	216.4	2.2	213.6	3.6	207.2	1.0	186.6	0.0	194.2	1.2	165.6	0.6	178.4	0.0	162.8	2.4	201.2	0.8	163.2	1.6	188.6	0.4	160.0	1.5	185.8		
S 27	0.6	193.4	0.8	218.0	1.0	217.4	0.8	214.4	1.2	207.8	1.0	187.6	2.0	194.8	1.2	166.4	2.2	179.2	2.2	164.2	1.2	202.4	1.8	165.0	2.2	190.2	4.0	163.2	2.0	186.8		
D 28	0.0	193.4	0.0	218.0	0.0	217.4	0.2	214.6	0.0	207.6	0.0	187.6	0.0	194.6	0.0	166.4	0.0	178.8	0.0	163.6	0.2	202.6	0.0	149.4	0.0	176.2	0.0	161.0	0.0	183.0		
L 29	0.0	191.2	0.0	212.8	0.0	210.0	0.0	210.2	0.0	205.8	0.4	182.6	0.0	177.6	0.0	154.2	0.0	163.4	0.0	137.4	0.0	198.2	0.0	132.8	0.0	150.0	0.0	137.6	0.0	168.0		
Ma 30	0.0	161.0	0.0	184.2	1.6	173.8	0.0	176.8	1.2	180.8	0.2	160.6	0.8	160.6	1.8	139.0	0.6	148.2	0.0	127.0	4.0	181.2	3.4	124.4	0.6	135.6	0.8	117.4	1.0	147.2		
Mi 31	0.0	152.2	0.0	176.4	0.2	167.6	0.0	172.4	0.0	173.4	0.0	156.0	0.0	153.0	0.0	133.4	0.0	141.6	0.0	121.0	0.0	175.8	0.0	119.6	0.0	128.4	0.0	112.8	0.0	141.3		
Li. mes	199.8		218.6		219.2		214.6		209.6		188.2		197.0		168.6		181.2		165.0		206.6		168.4		191.4		164.8		176.6		188.7	
Máx. mes	36.0	199.2	38.0	218.0	47.2	220.0	40.2	214.6	38.0	207.8	32.4	187.6	46.2	194.8	32.8	166.4	42.0	179.2	35.8	164.2	45.0	227.0	28.8	166.8	33.4	198.8	27.6	176.6	35.0	187.1		
Li. acum. en el año	1530.0		1566.8		1623.0		1553.0		1458.6		1346.6		1541.0		1420.8		1325.0		1368.6		1514.0		1342.2		1586.2		1246.6		1441.6			
No. días lluvia año	199	65%	206	68%	196	64%	201	66%	198	65%	200	66%	221	73%	191	63%	193	63%	192	63%	213	70%	196	64%	200	66%	1					

REGISTROS DE LLUVIA DIARIA E INDICADORES DE LLUVIA ANTECEDENTE DE 25 DÍAS

NOVIEMBRE DE 2018

Estaciones	Chec-Uribe		Alcázares		La Palma		Observatorio Vulcanológico		El Carmen		Emas		Quebrada Palogrande-Ruta 30		Hospital de Caldas		Aranjuez		Posgrados		Bosques del Norte		Yarumos		Milán-Planta Niza		La Nubia		Promedio Manizales		
	LI. d.	A25	LI. d.	A25	LI. d.	A25	LI. d.	A25	LI. d.	A25	LI. d.	A25	LI. d.	A25	LI. d.	A25	LI. d.	A25	LI. d.	A25	LI. d.	A25	LI. d.	A25	LI. d.	A25	LI. d.	A25	LI. d.	A25	
Propietarios	CHEC S.A. E.S.P		Alcaldía/UGR		Alcaldía/UGR		Alcaldía/UGR		Alcaldía/UGR		EMAS S.A. E.S.P		UN-Manizales		Alcaldía/UGR		Alcaldía/UGR		Alcaldía/UGR		UN-Manizales		Alcaldía/UGR		Alcaldía/UGR		Alcaldía/UGR		Alcaldía/UGR		
Día	LI. d.	A25	LI. d.	A25	LI. d.	A25	LI. d.	A25	LI. d.	A25	LI. d.	A25	LI. d.	A25	LI. d.	A25	LI. d.	A25	LI. d.	A25	LI. d.	A25	LI. d.	A25	LI. d.	A25	LI. d.	A25	LI. d.	A25	
J 1	1.8	153.6	7.2	175.6	2.8	170.4	6.0	171.4	2.6	172.6	0.0	152.6	2.8	153.6	1.2	133.2	2.8	143.2	2.8	122.6	2.2	178.0	6.0	125.6	7.0	135.4	3.6	116.4	3.8	143.8	
V 2	7.0	157.2	12.8	178.0	7.4	167.6	19.8	173.6	14.4	172.8	7.2	138.2	8.6	152.2	12.2	130.0	8.0	142.2	5.8	119.4	8.8	175.6	9.6	118.2	11.8	138.8	7.8	120.4	9.7	143.1	
S 3	1.2	145.6	1.6	157.2	1.4	165.6	2.4	135.8	1.4	143.0	1.6	127.2	1.0	143.6	1.2	123.8	0.8	133.4	0.6	114.2	1.4	167.2	4.6	118.6	0.6	136.8	0.4	116.0	1.2	134.4	
D 4	9.8	119.4	7.8	127.0	16.8	135.2	6.8	110.4	6.8	111.8	18.6	113.4	13.2	110.6	16.6	107.6	12.0	103.4	14.2	92.6	15.4	137.6	18.8	108.6	34.2	134.4	21.0	109.4	18.6	118.2	
L 5	4.0	113.2	8.2	129.0	4.2	131.6	5.2	111.8	4.8	110.6	6.4	116.2	14.4	117.4	8.4	109.4	11.6	108.2	11.8	98.0	12.2	144.4	9.4	114.0	11.2	139.4	3.4	105.6	7.4	119.2	
Ma 6	0.0	113.2	0.4	129.0	1.6	128.4	0.2	112.0	0.0	110.6	1.0	117.2	0.0	117.4	0.4	109.8	0.0	108.2	0.4	98.4	2.2	166.6	2.2	116.2	7.4	145.6	4.6	108.4	3.8	121.9	
Mi 7	0.0	113.2	0.0	129.0	0.0	128.4	0.0	112.0	0.0	110.6	0.0	117.2	0.2	117.6	0.0	109.8	0.0	108.2	0.0	98.4	0.2	166.8	0.2	116.4	0.0	145.6	0.0	108.4	0.0	121.9	
J 8	1.4	114.6	0.0	128.4	0.8	128.8	0.0	112.0	0.0	110.6	0.0	117.2	0.2	117.8	0.0	109.8	0.2	108.4	0.0	98.4	0.0	166.4	0.0	116.4	0.0	145.6	0.0	108.4	0.2	122.0	
V 9	18.4	132.4	14.8	142.8	13.2	141.6	13.6	125.0	12.4	122.6	13.8	131.0	15.8	133.6	14.4	124.2	15.6	124.0	15.2	113.6	18.2	184.0	18.6	135.0	22.2	167.8	13.8	121.6	16.0	137.7	
S 10	0.4	116.8	0.2	135.8	0.0	124.0	0.0	117.2	0.0	112.6	0.6	115.2	1.2	124.8	1.8	117.4	1.4	115.2	2.0	106.4	2.6	146.4	4.2	129.6	6.4	163.8	1.6	113.8	2.1	127.3	
D 11	0.8	112.8	7.2	140.8	9.0	131.4	8.4	124.2	6.2	120.4	7.6	120.8	9.2	131.6	13.2	128.6	7.8	120.8	8.8	112.8	11.2	156.6	19.2	147.8	18.8	181.4	12.2	121.8	11.5	136.4	
L 12	0.2	112.0	0.2	135.0	0.0	123.0	0.0	119.4	0.2	112.4	0.0	115.0	0.2	131.0	0.0	124.0	0.0	120.4	0.0	112.4	1.2	156.4	0.2	148.0	0.2	179.0	0.0	120.8	0.1	133.5	
Ma 13	0.6	112.6	0.0	134.8	4.6	127.8	1.2	124.0	0.0	112.4	3.6	117.4	0.4	131.2	1.2	124.6	0.2	119.2	0.4	108.6	6.2	161.0	0.6	143.6	0.0	174.8	0.4	121.2	1.4	133.3	
Mi 14	6.2	94.4	13.6	130.2	34.0	136.8	20.8	127.0	9.2	103.6	13.6	117.2	6.0	119.8	7.8	119.2	3.8	105.8	0.4	94.2	6.0	149.0	2.4	134.6	0.6	160.2	0.0	101.0	7.9	123.6	
J 15	0.0	94.4	0.0	130.2	1.0	137.8	0.0	127.0	0.0	103.6	0.0	117.0	0.2	119.8	0.2	119.8	0.0	105.8	0.0	94.0	0.2	149.2	0.0	134.6	0.0	160.2	0.0	101.0	0.1	123.7	
V 16	0.0	94.4	0.0	130.2	0.0	137.8	0.0	127.0	0.0	103.6	0.0	117.0	0.0	119.8	0.0	119.4	0.0	105.8	0.0	94.0	0.0	149.2	0.0	134.2	0.0	159.6	0.0	101.0	0.0	123.5	
S 17	3.2	86.8	9.6	117.0	4.6	135.4	5.8	115.2	5.0	91.4	1.4	105.2	5.8	113.2	2.8	113.2	6.4	99.0	9.2	92.8	4.2	141.4	11.4	136.6	1.0	153.0	13.0	104.6	6.4	119.1	
D 18	2.0	67.6	1.8	97.4	1.0	111.6	1.6	97.6	1.8	74.6	1.2	82.0	2.6	86.8	1.4	89.2	2.6	79.0	2.8	78.8	1.8	124.8	3.4	118.8	6.2	133.8	5.8	94.4	3.4	101.2	
L 19	2.2	64.2	3.8	94.6	2.4	109.8	3.6	98.6	3.2	74.4	4.8	84.0	10.6	95.2	5.4	92.4	9.0	85.6	11.6	88.2	7.4	129.4	5.2	122.0	3.8	135.8	7.0	99.8	5.4	103.9	
Ma 20	2.2	62.0	1.4	91.4	3.2	110.8	1.2	97.6	4.6	75.4	0.2	83.2	5.8	101.0	1.8	93.0	5.0	90.0	3.6	91.8	1.0	128.0	2.2	123.4	4.2	138.4	1.6	101.0	2.6	104.9	
Mi 21	0.0	61.4	0.0	90.6	0.4	110.2	0.0	96.8	0.4	74.6	0.0	82.2	0.6	99.6	0.6	92.4	0.8	88.6	1.2	90.8	0.2	127.0	1.0	122.6	2.8	139.0	1.0	98.0	0.9	103.8	
J 22	1.6	63.0	0.0	96.6	2.2	112.4	0.0	96.6	1.2	75.8	6.4	88.6	2.4	102.0	7.0	99.4	3.0	91.6	4.4	95.2	6.2	133.0	9.6	132.2	6.2	145.2	3.4	101.4	4.2	108.0	
V 23	7.8	70.8	6.8	97.4	5.8	118.2	5.6	102.2	8.6	84.4	3.8	92.0	9.8	111.8	12.0	111.4	8.0	99.6	6.0	101.2	6.8	139.8	4.8	137.0	3.0	148.2	0.4	101.8	4.7	112.7	
S 24	0.0	70.8	0.0	97.4	0.4	117.0	0.0	102.2	0.0	83.2	0.0	91.8	0.0	111.0	0.0	109.6	0.0	99.0	0.8	102.0	11.8	147.6	11.4	145.0	2.2	149.8	0.0	101.0	1.7	113.4	
D 25	4.4	75.2	1.8	99.2	4.6	121.4	1.2	103.4	3.2	86.4	3.4	95.2	3.2	114.2	3.0	112.6	5.2	104.2	2.8	104.8	8.8	156.4	4.2	149.2	2.2	152.0	6.6	107.6	4.2	117.6	
L 26	37.8	111.2	19.8	111.8	31.0	149.6	12.4	109.8	16.0	99.8	16.0	111.2	28.6	140.0	22.2	133.6	27.8	129.2	32.0	134.0	10.2	164.4	22.2	165.4	24.0	169.0	2.6	106.6	18.7	132.5	
Ma 27	8.0	112.2	1.4	100.4	2.0	144.2	1.2	91.2	4.8	90.2	2.6	106.6	4.6	136.0	2.0	123.4	4.4	125.6	3.0	131.2	7.4	163.0	2.8	158.6	3.4	160.6	4.0	102.8	3.6	126.4	
Mi 28	0.0	111.0	0.4	99.2	0.4	143.2	0.8	89.6	1.6	90.4	1.2	106.2	1.2	136.2	0.8	123.0	0.8	125.6	0.4	131.4	4.0	165.6	0.2	154.2	0.6	160.6	0.2	102.6	0.7	125.9	
J 29	5.4	106.6	3.8	95.2	4.4	130.8	3.8	86.6	4.2	87.8	6.4	94.0	27.2	150.2	11.8	118.2	21.4	135.0	17.6	134.4	20.8	171.0	23.4	158.8	22.8	149.2	10.4	92.0	13.0	120.1	
V 30	34.8	137.4	22.0	109.0	40.6	167.2	19.0	100.4	27.6	110.6	5.4	93.0	11.0	146.8	10.0	119.8	13.0	136.4	10.4	133.0	7.0	165.8	7.0	156.4	13.8	151.8	17.2	105.8	17.5	130.3	
S 1																															
LI. mes	161.2		146.6		199.8		140.6		140.6		126.8		186.8		159.4		171.6		168.2		205.8		204.8		216.6		142.0		171.1		
Máx. mes	37.8	157.2	22.0	178.0	40.6	170.4	20.8	173.6	27.6	172.8	18.6	152.6	28.6	153.6	22.2	133.6	27.8	143.2	32.0	134.4	22.4	184.0	23.4	165.4	34.2	181.4	21.0	121.8	18.8	143.8	
LI. acum. en el año	1691.2		1713.4		1822.8		1693.6		1599.2		1473.4		1727.8		1580.2		1496.6		1536.8		1719.8		1547.0		1802.8		1388.6		1612.7		
No. días lluvia año	222	66%	228	68%	222	66%	222	66%	221	66%	222	66%	248	74%	216	65%	217	65%	217	65%	241	72%	223	67%	225	67%	216	65%	257	77%	



REGISTROS DE LLUVIA DIARIA E INDICADORES DE LLUVIA ANTECEDENTE DE 25 DÍAS

DICIEMBRE DE 2018

Estaciones	Chec-Uribe		Alcázares		La Palma		Observatorio Vulcanológico		El Carmen		Emas		Quebrada Palogrande-Ruta 30		Hospital de Caldas		Aranjuez		Posgrados		Bosques del Norte		Yarumos		Milán-Planta Niza		La Nubia		Promedio Manizales	
	Propietarios	CHEC S.A. E.S.P	Alcaldía/UGR	Alcaldía/UGR	Alcaldía/UGR	Alcaldía/UGR	Alcaldía/UGR	EMAS S.A. E.S.P	UN-Manizales	Alcaldía/UGR	Alcaldía/UGR	Alcaldía/UGR	Alcaldía/UGR	Alcaldía/UGR	Alcaldía/UGR	Alcaldía/UGR	Alcaldía/UGR	Alcaldía/UGR	Alcaldía/UGR	Alcaldía/UGR	Alcaldía/UGR	Alcaldía/UGR	Alcaldía/UGR	Alcaldía/UGR	Alcaldía/UGR	Alcaldía/UGR	Alcaldía/UGR	Alcaldía/UGR	Alcaldía/UGR	
Día	Li. d.	A25	Li. d.	A25	Li. d.	A25	Li. d.	A25	Li. d.	A25	Li. d.	A25	Li. d.	A25	Li. d.	A25	Li. d.	A25	Li. d.	A25	Li. d.	A25	Li. d.	A25	Li. d.	A25	Li. d.	A25	Li. d.	A25
S 1	4.6	142.0	9.6	118.2	17.6	183.2	8.6	108.8	7.2	117.8	13.2	105.2	9.6	156.4	6.6	126.0	9.0	145.4	12.2	144.8	23.8	167.2	7.6	161.8	14.4	158.8	5.0	106.2	10.7	137.2
D 2	0.0	142.0	0.2	118.4	1.2	184.4	0.2	109.0	0.0	117.8	0.4	105.6	0.0	156.2	0.0	126.0	0.0	145.4	0.0	144.8	0.0	167.0	0.0	161.6	0.0	158.8	0.0	106.2	0.2	137.3
L 3	0.0	146.0	0.0	118.4	1.2	184.8	0.0	109.0	0.0	117.8	0.0	105.6	0.4	156.4	0.4	126.4	0.0	145.2	0.0	144.8	0.0	167.0	0.0	161.6	0.0	158.8	0.0	106.2	0.2	137.3
Ma 4	36.0	158.2	21.8	125.4	28.0	199.6	22.2	117.6	32.8	138.2	15.0	106.8	43.2	183.8	33.2	145.2	31.2	180.8	53.2	182.8	24.6	173.4	32.4	175.4	40.4	177.0	31.6	124.0	32.4	153.7
Mi 5	19.0	176.8	32.6	157.8	45.4	245.0	48.0	165.6	41.4	179.2	46.2	152.4	40.2	222.8	34.4	177.8	37.0	216.4	29.6	210.4	58.8	229.6	27.6	198.8	30.2	200.8	27.8	150.2	35.4	187.0
J 6	8.8	184.8	6.4	157.0	2.4	238.4	6.0	163.2	8.2	181.2	8.6	153.4	8.8	222.4	6.2	170.8	9.8	218.4	13.2	214.8	14.6	233.0	16.0	195.6	14.6	196.6	8.4	146.4	9.6	185.1
V 7	0.0	184.6	0.2	157.0	0.0	238.4	0.6	163.8	0.0	181.0	1.2	154.6	0.2	222.4	0.0	170.8	0.2	218.6	0.0	214.8	0.0	231.8	0.0	195.4	1.0	197.4	0.0	146.4	0.3	185.3
S 8	0.0	184.0	0.0	157.0	0.0	233.8	0.0	162.6	0.0	181.0	0.0	151.0	1.6	223.6	0.8	170.4	1.6	220.0	1.2	215.6	0.0	225.6	0.4	195.2	3.2	200.6	0.6	146.6	0.9	184.8
D 9	0.0	177.8	0.0	143.4	0.0	199.8	0.0	141.8	0.0	171.8	0.0	137.4	0.0	217.6	0.0	162.6	0.0	216.2	0.0	215.2	0.0	219.6	0.0	192.8	0.0	200.0	0.0	146.6	0.0	176.9
L 10	0.0	177.8	0.0	143.4	0.0	198.8	0.0	141.8	0.0	171.8	0.0	137.4	0.0	217.4	0.0	162.4	0.0	216.2	0.0	215.2	0.0	219.4	0.0	192.8	0.0	200.0	0.0	146.6	0.0	176.8
Ma 11	0.0	177.8	0.0	143.4	0.0	198.8	0.0	141.8	0.0	171.8	0.0	137.4	0.0	217.4	0.0	162.4	0.0	216.2	0.0	215.2	0.0	219.4	0.0	192.8	0.0	200.0	0.0	146.6	0.0	176.8
Mi 12	0.0	174.6	0.0	138.8	0.0	194.2	0.0	136.0	0.0	166.8	0.0	136.0	0.0	211.6	0.0	159.6	0.0	209.8	0.0	206.0	0.0	215.2	0.0	181.4	0.0	199.0	0.0	133.6	0.0	170.4
J 13	23.0	195.6	6.4	138.4	0.0	193.2	6.4	140.8	2.8	167.8	0.0	134.8	0.0	209.0	0.0	158.2	0.0	207.2	0.0	203.2	0.8	214.2	0.0	178.0	0.0	192.8	0.0	127.8	1.7	168.7
V 14	0.0	193.4	0.4	135.0	0.8	191.6	1.4	138.6	0.4	165.0	5.2	135.2	3.0	201.4	5.4	158.2	2.0	200.2	2.6	194.2	2.2	209.0	12.4	185.2	4.4	193.4	0.0	120.8	2.7	166.0
S 15	0.0	191.2	0.0	133.6	0.0	188.4	0.0	137.4	0.0	160.4	0.0	135.0	0.0	195.6	0.0	156.4	0.0	190.2	0.0	190.6	0.2	208.2	0.0	183.0	0.2	198.4	0.0	119.2	0.0	163.5
D 16	0.0	191.2	0.0	133.6	0.0	188.0	0.0	137.4	0.0	160.0	0.0	135.0	0.0	195.0	0.0	155.8	0.0	194.4	0.0	189.4	0.0	208.0	0.0	182.0	0.0	186.6	0.0	118.2	0.0	162.6
L 17	0.0	189.6	0.0	133.6	0.0	185.8	0.0	137.4	0.0	158.8	0.0	128.6	0.0	192.6	0.0	148.8	0.0	191.4	0.0	185.0	0.0	201.8	0.0	172.4	0.0	180.4	0.0	114.8	0.0	158.4
Ma 18	0.0	181.8	0.0	126.8	0.0	180.0	0.0	131.8	0.0	150.2	0.0	124.8	0.0	182.8	0.0	136.8	0.0	183.4	0.0	179.0	0.0	195.0	0.0	167.6	0.0	177.4	0.0	114.4	0.0	153.7
Mi 19	0.0	181.8	0.0	126.8	0.0	179.6	0.0	131.8	0.0	150.2	0.0	124.8	0.2	183.0	0.0	136.8	0.0	183.4	0.4	178.6	1.6	184.8	1.4	157.6	0.0	175.2	0.0	114.4	0.2	152.1
J 20	1.0	178.4	0.0	125.0	0.0	175.0	0.0	130.6	0.0	147.0	0.0	121.4	0.0	179.8	0.0	133.8	0.0	178.2	0.0	175.8	0.0	176.0	0.8	154.2	0.0	173.0	0.0	107.8	0.1	148.0
V 21	0.0	140.6	0.0	105.2	0.0	144.0	0.0	118.2	0.4	131.4	0.0	105.4	4.0	155.2	3.2	114.8	4.2	154.6	6.2	150.0	0.0	165.8	9.2	141.2	9.4	158.4	0.6	105.8	2.9	132.2
S 22	0.0	132.6	0.0	103.8	0.0	142.0	0.0	117.0	0.0	126.6	0.0	102.8	0.0	150.6	0.0	112.8	0.0	150.2	0.0	147.0	0.0	158.4	0.0	138.4	0.0	155.0	0.0	101.8	0.0	128.6
D 23	0.0	132.6	0.0	103.4	0.0	141.6	0.0	116.2	0.0	125.0	0.0	101.6	0.0	149.4	0.0	112.0	0.0	149.4	0.0	146.6	0.0	154.4	0.0	138.2	0.0	154.4	0.0	101.6	0.0	127.9
L 24	0.0	127.2	0.0	99.6	0.0	137.2	0.0	112.4	0.0	120.8	0.0	95.2	0.0	122.2	0.0	100.2	0.0	128.0	0.0	129.0	0.0	133.6	0.0	114.8	0.0	131.6	0.0	91.2	0.0	114.8
Ma 25	0.0	92.4	0.0	77.6	0.0	96.6	0.0	93.4	0.0	93.2	0.0	89.8	0.0	111.2	0.0	90.2	0.0	115.0	0.0	118.6	0.0	126.6	0.0	107.8	0.0	117.8	0.0	74.0	0.0	97.3
Mi 26	0.0	87.8	0.0	68.0	0.0	79.0	0.0	84.8	0.0	86.0	0.0	76.6	0.0	101.6	0.0	83.6	0.0	106.0	0.0	106.4	0.0	102.8	0.0	100.2	0.0	103.4	0.0	69.0	0.0	86.7
J 27	0.0	87.8	0.0	67.8	0.0	77.8	0.0	84.6	0.0	86.0	0.0	76.2	0.2	101.8	0.0	83.6	0.2	106.2	0.0	106.4	0.0	102.8	0.0	100.2	0.0	103.4	0.0	69.0	0.0	86.5
V 28	0.0	87.8	0.0	67.8	0.0	76.6	0.0	84.6	0.0	86.0	0.0	76.2	0.0	101.4	0.0	83.2	0.0	106.2	0.0	106.4	0.0	102.8	0.0	100.2	0.0	103.4	0.0	69.0	0.0	86.4
S 29	0.0	51.8	0.0	46.0	0.0	48.6	0.0	62.4	0.0	53.2	0.0	61.2	0.0	58.2	0.0	50.0	0.0	55.0	0.0	53.2	0.0	78.2	0.0	67.8	0.0	63.0	0.0	37.4	0.0	53.9
D 30	0.0	32.8	0.0	13.4	0.0	3.2	0.0	14.4	0.0	11.8	0.0	15.0	0.0	18.0	0.0	15.6	0.0	18.0	0.0	23.6	0.0	19.4	0.0	40.2	0.0	32.8	0.0	9.6	0.0	18.5
L 31	0.0	24.0	0.0	7.0	0.0	0.8	0.0	8.4	0.0	3.6	0.0	6.4	0.0	9.2	0.0	9.4	0.0	8.2	0.0	10.4	0.0	4.8	0.0	24.2	0.0	18.2	0.8	2.0	0.2	9.1
Li. mes	92.4		77.6		96.6		93.4		93.2		89.8		111.4		90.2		115.2		118.6		126.6		107.8		117.8		74.8		97.5	
Máx. mes	36.0	195.6	32.6	157.8	45.4	245.0	48.0	165.6	41.4	181.2	46.2	154.6	43.2	223.6	34.4	177.8	51.2	220.0	53.2	215.6	58.8	233.0	32.4	198.8	40.4	200.8	31.6	150.2	35.4	187.0
Li. acum. en el año	1783.6		1791.0		1919.4		1787.0		1692.4		1563.2		1839.2		1670.4		1611.8		1655.4		1846.4		1654.8		1920.6		1463.4		1710.2	
No. días lluvia año	228	62%	236	65%	229	63%	230	63%	228	62%	229	63%	259	71%	224	61%	226	62%	225	62%	249	68%	232	64%	234	64%	223	61%	269	74%

