

UNIVERSIDAD NACIONAL DE COLOMBIA SEDE MANIZALES



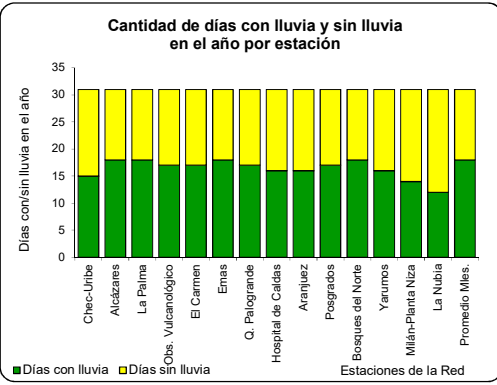
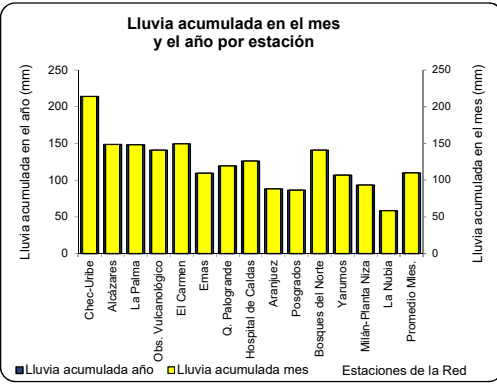
RED DE ESTACIONES HIDROMETEOROLÓGICAS DE MANIZALES ESTACIONES PARA LA GESTIÓN DEL RIESGO ANTE DESASTRES POR DESLIZAMIENTOS Sistema Integrado de Monitoreo Ambiental de Caldas - SIMAC



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	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	10.0	257.4	12.6	302.3	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	311.8	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	160.6	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	120.8	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	128.4	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		148.6		148.0		140.8		149.2		109.4		119.2		126.0		88.2		86.4		140.8		106.8		93.4		58.0		109.9	
Máx. mes	45.6	328.0	33.8	312.6	38.6	293.2	45.0	304.6	34.0	267.2	30.0	215.2	33.6	251.8	27.8	264.8	29.8	179.8	22.6	218.6	38.0	286.2	24.2	230.6	16.8	219.6	10.8	144.2	24.2	229.0
Li. acum. en el año	214.0		148.6		148.0		140.8		149.2		109.4		119.2		126.0		88.2		86.4		140.8		106.8		93.4		58.0		109.9	
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%	14	45%	12	39%	18	58%



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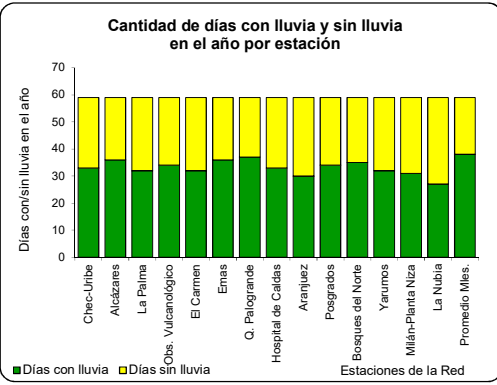
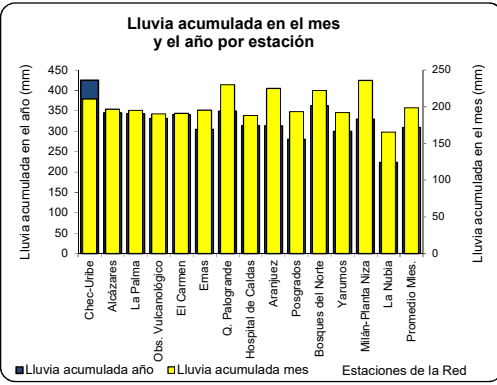
RED DE ESTACIONES HIDROMETEOROLÓGICAS DE MANIZALES ESTACIONES PARA LA GESTIÓN DEL RIESGO ANTE DESASTRES POR DESLIZAMIENTOS Sistema Integrado de Monitoreo Ambiental de Caldas - SIMAC



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	
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%	



Días transcurridos en el año a la fecha		59	
No. de días con lluvia N.A. en el año			
Estación	A	N	R
Chec-Uribe	18	4	0
Alcázares	13	8	0
La Palma	18	0	0
Ingiermas	18	2	0
El Carmen	14	0	0
Emas	4	0	0
Q. Palogrande	20	0	0
Hospital	17	0	0
Aranjuez	3	0	0
Posgrados	8	0	0
Bosques	23	0	0
Yarumos	7	0	0
Milán-Plant			

UNIVERSIDAD NACIONAL DE COLOMBIA SEDE MANIZALES



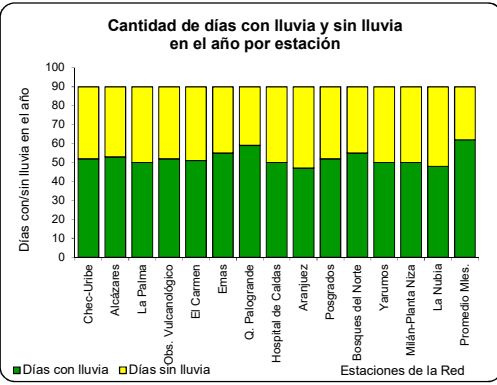
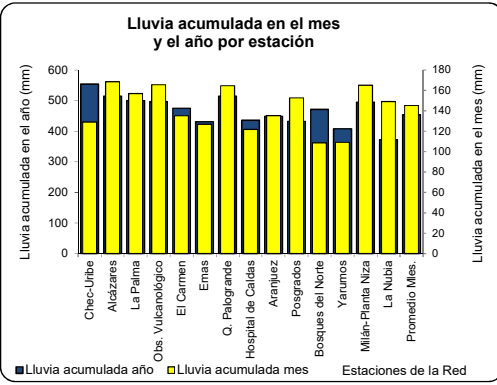
RED DE ESTACIONES HIDROMETEOROLÓGICAS DE MANIZALES ESTACIONES PARA LA GESTIÓN DEL RIESGO ANTE DESASTRES POR DESLIZAMIENTOS Sistema Integrado de Monitoreo Ambiental de Caldas - SIMAC



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

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	173.8	0.0	199.4	0.0	171.6	0.0	195.4	0.0	169.6	0.0	167.0	0.0	167.0	0.0	167.0	0.0	167.0	0.0	146.4	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	168.5
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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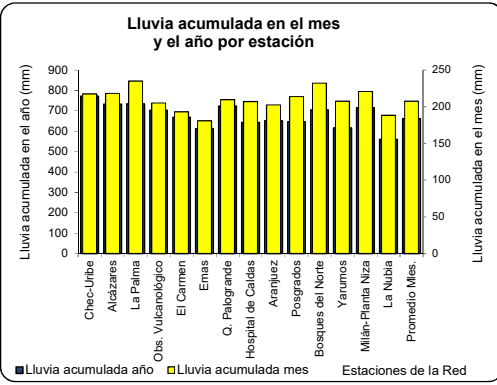
RED DE ESTACIONES HIDROMETEOROLÓGICAS DE MANIZALES ESTACIONES PARA LA GESTIÓN DEL RIESGO ANTE DESASTRES POR DESLIZAMIENTOS Sistema Integrado de Monitoreo Ambiental de Caldas - SIMAC



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

ABRIL 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
D 1	28.2	130.2	22.8	161.8	35.2	160.0	23.2	161.0	21.2	131.6	21.6	132.8	28.2	173.8	28.0	134.6	18.8	142.8	19.4	158.2	23.4	119.0	21.6	124.4	13.8	159.0	12.0	146.8	20.4	146.7
L 2	9.2	139.4	11.0	172.8	15.4	174.2	7.0	168.0	8.4	140.0	8.4	140.8	4.8	178.6	6.4	141.0	5.0	147.8	8.4	166.6	15.4	134.0	11.4	135.8	12.4	171.4	10.4	156.8	10.5	157.0
Ma 3	7.0	145.2	11.0	183.8	3.6	177.8	9.6	177.6	4.2	144.2	3.6	144.4	1.8	180.2	2.4	143.4	0.4	148.2	1.0	167.6	6.2	140.2	1.4	137.2	3.0	173.6	2.0	156.4	3.6	159.8
Mi 4	25.2	170.4	26.2	210.0	37.2	215.0	24.0	201.6	21.6	165.8	27.8	172.2	18.0	198.2	20.2	163.6	18.2	166.4	15.8	183.4	25.4	165.6	15.2	152.4	16.2	189.8	11.0	167.4	20.2	180.0
J 5	18.4	188.8	14.0	224.0	19.0	234.0	18.4	220.0	15.6	181.4	10.4	182.6	25.0	223.2	16.6	180.2	27.2	193.6	20.2	203.6	9.0	174.6	9.6	162.0	15.2	205.0	9.0	176.4	14.4	194.5
V 6	7.0	195.8	7.4	231.4	4.8	238.8	6.2	226.2	5.0	186.4	10.2	192.8	6.8	230.0	7.6	187.8	3.8	197.4	6.6	210.2	7.6	182.2	7.2	169.2	8.2	213.2	7.2	183.6	7.1	201.8
S 7	0.0	195.8	0.0	231.4	0.0	238.8	0.0	226.2	0.0	186.4	0.0	192.8	0.0	230.0	0.0	187.8	0.0	197.4	0.0	210.2	0.0	181.8	0.0	169.2	0.0	213.2	0.0	183.6	0.0	201.5
D 8	0.0	195.8	0.0	231.4	0.0	238.8	0.0	226.2	0.0	186.4	0.0	192.8	0.0	230.0	0.0	187.8	0.0	197.4	0.0	210.2	0.0	181.6	0.0	169.2	0.0	213.2	0.0	183.6	0.0	201.5
L 9	7.2	203.0	6.8	238.2	18.2	257.0	8.0	234.2	4.2	190.2	5.4	198.2	11.2	240.6	9.6	196.8	10.2	207.6	16.8	225.4	13.4	194.4	17.8	185.6	7.8	219.0	10.6	193.2	10.6	211.3
Ma 10	18.6	221.6	19.8	258.0	11.0	268.0	15.8	250.0	11.8	202.0	11.2	210.4	11.4	251.8	14.6	211.4	10.4	218.0	14.0	239.4	22.8	216.6	14.6	200.0	22.6	241.4	13.0	203.6	15.5	226.1
Mi 11	18.0	229.8	17.4	258.4	13.2	253.2	18.4	252.0	19.0	205.2	14.0	206.0	14.6	241.6	18.6	211.4	23.4	227.4	17.6	236.6	21.0	232.4	19.4	212.8	17.4	247.6	15.0	187.6	16.8	223.9
J 12	13.0	241.2	10.4	266.0	16.4	269.2	10.4	259.4	10.4	211.6	10.4	213.6	11.6	241.6	11.2	213.0	8.0	221.8	8.4	232.0	14.0	233.8	8.4	203.6	12.0	248.6	6.6	177.0	10.5	224.6
V 13	28.8	262.0	36.4	292.8	20.6	281.2	29.4	278.4	33.4	235.0	17.8	215.8	39.0	262.8	34.4	232.2	36.6	244.2	46.0	257.8	29.8	251.6	32.4	219.4	35.8	259.6	35.6	201.8	30.0	242.3
S 14	8.4	268.4	7.6	296.6	8.2	282.0	6.6	280.2	9.2	239.4	6.2	217.2	10.4	264.4	8.8	233.0	12.4	253.6	10.4	258.4	11.6	253.0	9.0	222.6	9.2	252.2	15.4	215.8	10.3	246.8
D 15	0.6	269.0	0.8	297.4	0.4	282.4	0.6	280.8	0.6	240.0	0.2	217.2	0.8	265.0	0.2	232.0	0.4	253.8	0.2	258.4	3.2	256.2	2.6	225.2	1.0	260.2	0.4	215.4	0.8	247.4
L 16	0.4	264.4	0.0	288.6	2.0	283.4	0.2	274.6	0.0	235.8	6.4	219.2	1.2	247.2	3.4	224.4	0.6	246.2	2.4	230.4	1.8	250.6	3.0	208.8	6.4	227.6	6.6	214.2	3.8	237.4
Ma 17	0.8	258.2	0.4	280.4	0.0	268.6	0.0	265.2	1.6	231.2	0.0	211.4	0.4	239.8	0.0	206.0	0.0	240.2	0.2	224.4	0.2	243.8	2.0	205.6	0.0	222.0	0.6	209.8	0.4	230.7
Mi 18	0.0	241.4	0.0	260.2	0.0	252.8	0.0	249.0	0.0	216.6	0.0	197.2	0.0	216.8	0.0	209.4	0.0	221.6	0.0	206.0	0.0	231.0	0.0	189.2	0.0	204.6	0.0	194.8	0.0	214.6
J 19	1.0	231.2	1.0	248.2	0.8	253.6	1.0	233.4	1.2	199.8	0.6	197.2	2.2	214.4	2.2	210.6	2.6	214.2	3.8	208.8	0.6	231.6	0.8	190.0	4.4	208.2	2.2	196.8	2.0	213.3
V 20	0.0	230.2	0.2	247.6	0.2	253.2	0.2	233.0	0.0	198.8	0.2	196.8	0.2	213.6	0.0	210.0	0.2	213.2	0.0	208.0	0.0	231.6	0.0	189.4	0.2	207.8	0.0	196.8	0.1	212.8
S 21	1.2	230.2	0.6	246.4	0.4	253.0	0.4	232.2	0.8	198.0	0.0	196.8	0.4	213.2	0.0	209.0	0.6	213.2	0.0	207.2	0.0	231.6	0.0	188.6	0.0	207.2	0.8	197.6	0.4	212.6
D 22	0.2	229.2	0.2	245.2	0.6	252.8	0.4	231.2	0.0	196.6	0.6	195.6	0.2	211.4	0.0	207.4	0.2	211.4	0.0	205.0	2.2	230.8	1.0	187.0	0.8	204.6	0.2	195.2	0.5	210.9
L 23	1.0	230.0	0.8	246.0	0.2	249.0	1.2	232.4	0.4	197.0	0.0	194.8	0.2	211.4	0.0	207.4	0.0	211.4	0.0	205.0	0.0	221.8	0.6	187.6	0.6	205.2	0.0	194.6	0.3	210.2
Ma 24	0.2	206.0	0.0	205.8	0.8	218.6	0.0	192.2	0.0	178.8	0.0	164.6	0.0	198.0	0.0	193.6	0.0	197.8	0.0	198.2	0.0	213.8	0.4	185.6	0.8	202.8	0.6	192.0	0.4	196.1
Mi 25	0.6	195.0	1.0	195.8	0.6	208.8	1.4	182.4	1.0	169.6	1.0	157.0	0.6	189.0	1.2	185.4	0.0	179.0	0.4	191.6	2.8	210.4	1.4	179.8	0.0	187.8	0.0	159.2	0.6	181.2
J 26	2.2	169.0	2.4	175.4	4.2	177.8	3.4	163.6	2.2	150.6	5.0	140.4	2.4	163.2	4.4	161.8	3.4	163.6	3.2	175.4	6.4	193.4	9.2	167.4	4.8	178.8	4.4	151.6	4.4	165.2
V 27	8.0	167.8	7.6	172.0	11.6	174.0	8.0	162.6	10.4	152.6	7.2	139.2	3.4	161.8	4.2	159.6	5.0	163.6	2.8	178.8	3.4	181.4	3.2	159.2	4.6	171.0	6.4	147.6	6.3	161.0
S 28	3.4	164.2	4.2	165.2	3.8	174.2	5.4	159.4	3.2	151.6	3.0	138.6	2.0	162.0	3.0	160.2	1.8	165.0	2.8	171.6	4.6	179.8	5.0	162.8	4.4	172.4	2.2	147.8	3.4	160.9
D 29	8.6	147.2	8.2	147.2	6.6	143.6	5.8	141.2	6.4	136.4	8.4	119.2	10.4	154.4	8.8	148.8	11.6	158.4	11.2	167.0	7.4	161.8	7.2	154.8	16.4	172.6	14.8	151.6	10.9	151.6
L 30	0.4	129.6	0.0	133.2	0.0	124.6	0.0	122.8	1.2	122.0	0.2	109.0	2.4	131.8	1.2	133.4	1.6	132.8	2.4	149.2	0.0	152.8	3.0	148.2	3.0	160.4	1.2	143.8	1.3	138.5
Ma 1																														
Li. mes	217.6		218.2		235.0		205.0		193.0		180.8		209.6		207.0		202.4		214.0		232.2		207.4		221.0		188.2		207.6	
Máx. mes	28.8	269.0	36.4	297.4	37.2	283.4	29.4	280.8	33.4	240.0	27.8	219.2	39.0	265.0	34.4	233.2	36.6	253.8	46.0	258.4	29.8	256.2	32.4	225.2	35.8	260.2	35.6	215.8	32.0	247.4
Li. acum. en el año	771.2		732.0		735.0		701.6		668.0		612.2		723.4		642.8		650.8		646.4		703.6		615.6		715.2		560.6		661.3	
No. días lluvia año	78	65%	77	64%	75	63%	76	63%	74	62%	78	65%	85	71%	71	59%	70	58%	74	62%	77	64%	75	63%	74	62%	72	60%	88	73%



UNIVERSIDAD NACIONAL DE COLOMBIA SEDE MANIZALES



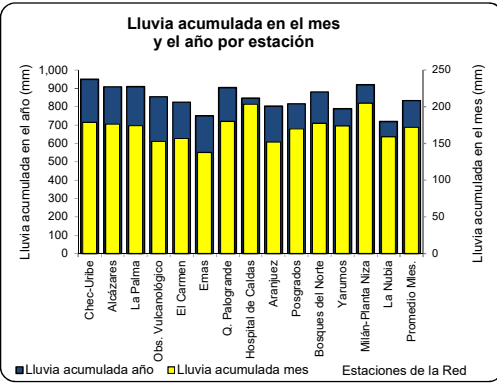
RED DE ESTACIONES HIDROMETEOROLÓGICAS DE MANIZALES ESTACIONES PARA LA GESTIÓN DEL RIESGO ANTE DESASTRES POR DESLIZAMIENTOS Sistema Integrado de Monitoreo Ambiental de Caldas - SIMAC



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

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	130.8	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	130.0	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		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		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%	104	69%	103	68%	100	66%	118	78%



UNIVERSIDAD NACIONAL DE COLOMBIA SEDE MANIZALES



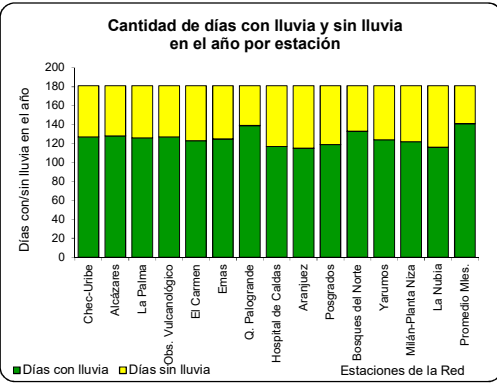
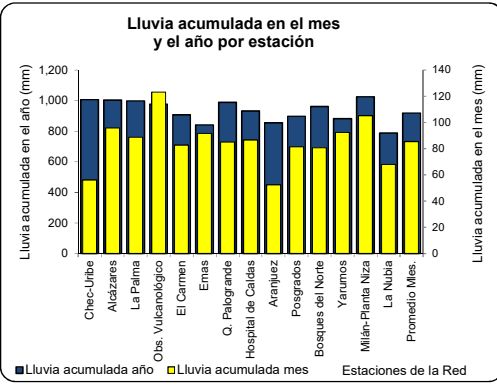
RED DE ESTACIONES HIDROMETEOROLÓGICAS DE MANIZALES ESTACIONES PARA LA GESTIÓN DEL RIESGO ANTE DESASTRES POR DESLIZAMIENTOS Sistema Integrado de Monitoreo Ambiental de Caldas - SIMAC



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
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
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	68.4	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	60.0	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%



Días transcurridos en el año a la fecha		
181		
No. de días con algún N.A. en el año		
Estación	A	R
Chec-Uribe	34	4
Alcázares	36	8
La Palma	40	0
Obs. Vulcanológico	38	2
El Carmen	23	0
Emas	12	0
Q. Palogrande	46	

UNIVERSIDAD NACIONAL DE COLOMBIA SEDE MANIZALES



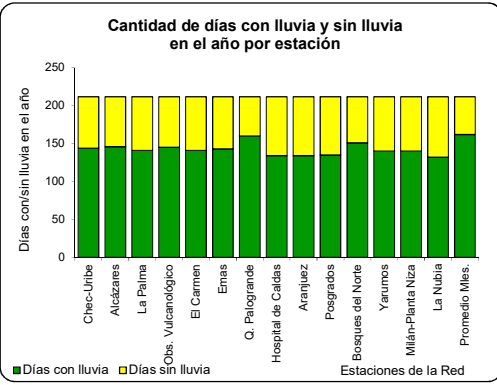
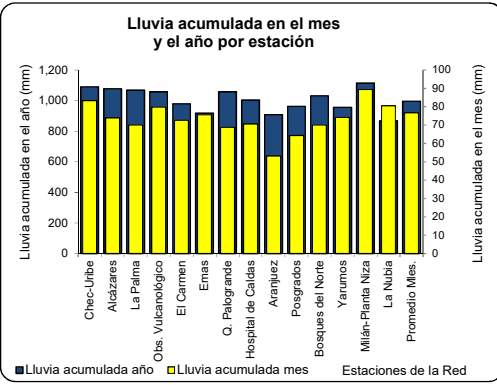
RED DE ESTACIONES HIDROMETEOROLÓGICAS DE MANIZALES ESTACIONES PARA LA GESTIÓN DEL RIESGO ANTE DESASTRES POR DESLIZAMIENTOS Sistema Integrado de Monitoreo Ambiental de Caldas - SIMAC



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	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	
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		85.0
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%	

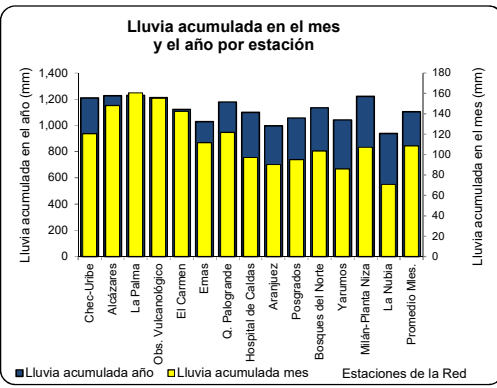


Días transcurridos en el año a la fecha		212	
No. de días con algún N.A. en el año			
Estación	A	N	R
Chec-Uribe	34	4	0
Alcázares	36	8	0
La Palma	40	0	0
Obs. Vulca	38	2	0
El Carmen	23	0	0
Emas	12	0	0
Q. Palogrande	46	0	0
Hospital	31	0	0
Aranjuez	18	0	0
Posgrados	27	0	0
Bosques	40	0	0
Yarumos	1		

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

AGOSTO DE 2018

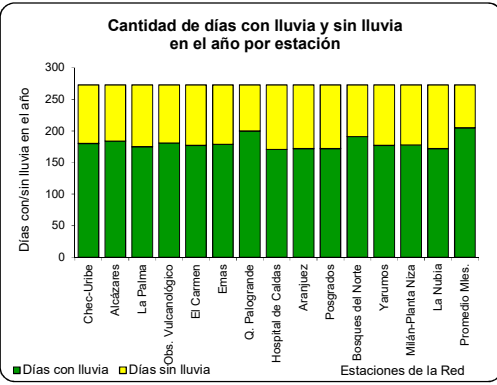
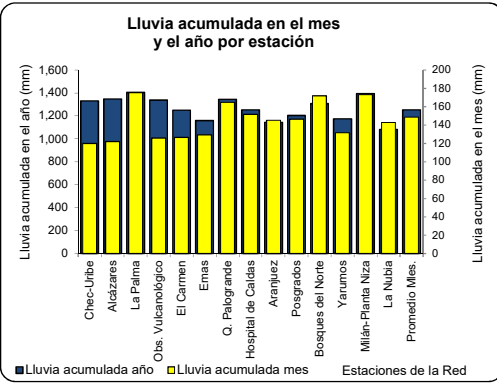
Estaciones	Chec-Uribe		Alcázares		La Palma		Observatorio Vulcanológico		El Carmen		Emas		Quebrada Palogrande-Ruta 30		Hospital de Caldas		Aranjuez		Posgrados		Bosques del Norte		Yarumos		Milán-Planta Niza		La Nubia		Promedio Manizales		
	Propietarios	CHEC S.A. E.S.P	Alcaldía/UGR	Alcaldía/UGR	Alcaldía/UGR	Alcaldía/UGR	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		
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	
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	6.0	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	33.3	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	113.8	
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	
Li. 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		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	
Li. 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		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%	180



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	25.6	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%



Días transcurridos en el año a la fecha		273
No. de días con algún N.A. en el año		
Estación	A	R
Chec-Uribe		