

# Monthly Rainfall (millimetres)

## HAPPY VALLEY

Station Number: 031144 · State: QLD · Opened: 1956 · Status: Closed 25 Sep 2021 · Latitude: 17.35°S · Longitude: 145.89°E · Elevation: 60 m

Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
1956				317.5	129.3	136.6	153.7	96.5	181.4	53.0	172.0	554.2	
1957	1224.5	668.5	528.6	618.3	366.1	508.4	217.8	13.8	13.5	13.6	97.5	103.1	4373.7
1958	823.7	770.0	692.3	779.7	468.7	255.8	3.3	62.1	27.2	13.3	186.5	31.2	4113.8
1959	751.8	850.2	1901.6	461.1	699.1	362.6	152.5	372.9	285.9	0.0	121.6	225.2	6184.5
1960	925.5	479.4	856.3	130.2	50.6	130.8	206.5	29.9	6.2	2.3	36.6	233.0	3087.3
1961	550.5	196.4	519.3	335.7	321.8	46.9	60.0	42.5	30.2	78.7	140.8	360.1	2682.9
1962	819.5	617.3	287.5	641.7	133.6	379.8	200.5	56.6	238.2	0.0	128.2	170.9	3673.8
1963	905.9	1357.4	391.5	1205.6	210.8	91.0	20.5	93.9	16.5	456.2	45.7	376.9	5171.9
1964	572.5	481.5	1307.8	374.9	1182.8	47.0	110.4	116.5	298.7	225.4	316.4	778.7	5812.6
1965	595.5	910.2	937.9	758.8	774.4	483.3	79.0	53.9	23.3	96.8	61.3	417.9	5192.3
1966	349.9	232.6	551.6	312.0	245.7	102.2	45.1	252.1	0.0	35.8	100.2	169.2	2396.4
1967	182.5	825.2	1643.1	399.1	607.2	319.0	167.4	113.6	0.0	97.5	239.6	112.0	4706.2
1968	958.3	1087.2	340.1	273.3	444.6	32.0	192.1	56.2	68.6	30.2	28.2	34.8	3545.6
1969	1003.3	450.2	692.6	382.4	440.3	258.6	571.1	65.0	79.0	87.6	95.8	309.7	4435.6
1970	224.0	702.8	1162.8	488.8	188.4	114.8	81.3	133.1	66.5	269.6	818.6	303.3	4554.0
1971	107.4	635.3	1655.5	1129.1	101.0	57.7	72.6	40.1	28.7	55.3	130.0	104.9	4117.6
1972	1107.8	941.9	1257.0	338.5	579.4	376.7	35.8	50.7	244.3	0.0	97.8	100.1	5130.0
1973	337.8	751.7	1172.9	1171.5	395.8	314.8	173.8	48.5	122.2	174.5	601.5	1706.1	6971.1
1974	408.4	1120.4	1242.0	315.6	603.8	103.4	2.0	48.8	76.0	37.4	119.4	97.2	4174.4
1975	314.4	1270.8	589.6	662.6	468.0	254.0	268.4	178.2	603.0	108.4	251.8	875.2	5844.4
1976	332.6	670.0	643.4	675.6	321.6	242.6	204.1	28.8	20.0	49.4	138.8	240.8	3567.7
1977	518.9	2587.0	1036.0	1032.4	375.0	194.8	125.8	70.8	211.4	89.8	174.8	204.0	6620.7
1978	676.2	451.2	365.6	448.2	434.2	43.0	16.6	198.0	71.4	479.4	191.8	101.0	3476.6
1979	2055.0	948.4	580.2	407.2	302.0	274.8	156.2	106.6	60.8	64.8	47.4	340.2	5343.6
1980	349.4	391.2	634.2	329.6	417.2	181.0	90.2	318.1	0.6	55.6	201.4	384.0	3352.5
1981	2474.0	921.6	478.4	242.0	598.0	12.4	320.0	7.0	355.0	361.2	287.2	67.0	6123.8
1982	499.4	362.2	543.4	1354.8	201.6	169.0	35.6	414.0	105.0	6.0	291.4	177.6	4160.0
1983	147.4	163.2	1078.2	402.4	903.8	115.2	100.0	233.8	245.2	45.0	217.0	243.2	3894.4
1984	546.0	1443.5	281.0	335.0	292.4	285.8	149.0	54.4	3.0	117.4	280.0	398.0	4185.5
1985	567.0	1220.2	1422.8	253.0	396.2	83.8	144.4	26.2	92.0	189.6	476.6	147.6	5019.4
1986	1011.8	460.6	1037.0	862.4	327.4	378.0	95.6	166.4	140.0	11.4	127.8	156.2	4774.6
1987	31.6	803.2	284.4	775.0	443.0	627.6	233.2	63.0	342.2	43.4	118.0	262.0	4026.6
1988	298.2	342.0	1159.6	448.6	273.0	160.0	226.6	267.2	129.6	137.0	422.8	596.4	4461.0
1989	624.0	372.4	982.4	1273.0	682.0	159.8	130.2	53.0	48.4	199.6	881.4	213.2	5619.4
1990	180.6	116.0	1240.4	735.0	820.0	273.4	77.7	2.4	273.6	47.8	15.6	638.0	4420.5
1991	1021.6	1287.6	152.6	498.0	333.2	55.3	148.2	80.4	0.0	8.2	153.2	131.6	3869.9
1992	51.6	314.6	214.8	654.2	455.2	37.6	190.8	40.8	33.0	39.4	24.6	583.0	2639.6
1993	554.6	553.4	89.9	475.4	376.9	266.2	286.2	137.0	353.8	41.2	91.0	292.1	3517.7
1994	768.2	1496.0	366.6	761.2	372.8	146.2	340.4	238.0	105.2	87.4	82.5	173.2	4937.7
1995	109.4	1433.2	903.6	177.6	416.8	282.0	48.6	708.6	26.4	351.6	133.6	125.0	4716.4
1996	718.6	769.4	1342.2	457.6	375.0	307.0	153.8	73.8	39.0	421.4	83.0	370.4	5111.2
1997	716.0	622.2	735.2	496.2	184.8	313.2	181.2	186.8	93.8	88.6	131.0	536.2	4285.2
1998	1336.2	523.2	315.6	326.8	457.6	98.6	201.0	129.8	435.6	118.4	340.0	412.8	4695.6
1999	495.0	1193.8	2115.6	1041.6	204.6	241.2	151.0	268.4	207.4	124.8	556.2	752.0	7351.6
2000	376.2	1592.8	1036.6	1410.4	285.6	218.0	35.8	233.4	30.2	198.8	573.4	770.8	6762.0
2001	546.0	1353.0	412.4	651.2	20.0	377.4	35.4	52.6	134.0	327.6	207.2	78.0	4194.8
2002	207.2	219.0	358.2		399.2	26.8	70.2	116.6	46.0	1.4	70.8	232.4	
2003	510.6	312.4	391.4	620.2		205.2	192.6	69.8	21.6	42.8	76.0	525.8	

Quality control: 12.3 Done & acceptable, 12.3 Not completed or unknown



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2004	304.4	933.0	1706.6	853.6	204.6	142.0	130.0	19.0	121.4	61.0	230.6	246.2	4952.4
2005	693.0	212.2	967.0	707.2	96.4	236.2	496.0	346.8	13.6	50.2	48.4	173.0	4040.0
2006	551.2	463.8	1563.0	925.4	373.6	366.2	270.0	42.8	455.8	196.0	34.2	524.8	5766.8
2007	307.4	1694.5	473.8	266.2	649.4	232.4	131.2		33.8	124.6	305.0	477.2	
2008	578.0	719.4	1531.6	141.6	203.8	140.4	258.8	47.2	188.2	202.0	69.6	305.6	4386.2
2009	1446.2	1447.0	415.0	414.8	421.2	64.8	45.0	25.4	9.2	126.6		175.6	
2010	1049.6	547.8	808.2	932.8	225.4	164.6	334.2	332.4	375.4	831.2	1105.4	838.2	7545.2
2011	713.8	1586.6	719.0	668.4	121.0	221.4	106.8	83.2	100.4	1035.4	362.4	398.2	6116.6
2012	399.6	542.8	1870.2	345.4	398.2	84.0	240.8	65.6	80.6	103.0	72.2	225.8	4428.2
2013	709.4	223.6	530.0	476.0	948.8	108.2	304.6	36.0	131.6	64.0	325.8	202.8	4060.8
2014	744.8	1163.2	708.4	640.6	537.6	267.4	91.4	196.8	21.4	39.6	46.6	70.2	4528.0
2015	568.0	933.4	434.4	230.4	162.4	643.4	164.6	29.0	114.0	244.6	145.6	670.8	4340.6
2016	137.2	339.2	796.2	464.0	572.0	238.8	267.6	268.4	195.6	96.6	54.2	191.6	3621.4
2017	674.2	893.4	252.8	407.8	262.2	162.6	217.0	25.0	200.4	431.0	335.8	55.6	3917.8
2018	893.0	674.4	1764.6	269.2	305.8	190.2	152.4	11.4	26.4	59.0	70.2	1231.0	5647.6

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#### Statistics for this station calculated over all years of data

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
<b>Mean</b>	639.6	800.8	846.3	580.4	396.2	212.9	161.3	125.8	128.6	146.8	216.0	349.3	4666.3
<b>Lowest</b>	31.6	116.0	89.9	130.2	20.0	12.4	2.0	2.4	0.0	0.0	15.6	31.2	2396.4
<b>5th percentile</b>	110.8	212.5	254.2	231.0	102.0	38.1	22.0	14.1	0.8	1.5	34.3	67.3	3026.6
<b>10th percentile</b>	180.8	240.6	290.3	266.5	136.5	48.7	35.8	25.5	10.1	8.8	46.7	97.8	3505.4
<b>Median</b>	567.5	711.1	713.7	475.7	375.0	194.8	152.4	70.3	80.6	87.6	136.2	243.2	4431.9
<b>90th percentile</b>	1046.8	1442.5	1635.1	1040.7	678.7	377.3	283.0	268.4	333.5	359.3	471.2	735.8	6142.0
<b>95th percentile</b>	1330.6	1582.1	1761.7	1203.9	817.7	473.0	332.8	346.1	373.4	453.7	600.1	832.2	6793.4
<b>Highest</b>	2474.0	2587.0	2115.6	1410.4	1182.8	643.4	571.1	708.6	603.0	1035.4	1105.4	1706.1	7545.2

#### Statistics calculated over the period 1961-1990

	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
<b>Mean</b>	625.0	761.1	850.6	612.1	449.5	206.1	139.5	112.0	133.1	121.7	234.9	336.2	4581.8
<b>Lowest</b>	31.6	116.0	281.0	242.0	101.0	12.4	2.0	2.4	0.0	0.0	15.6	34.8	2396.4
<b>5th Percentile</b>	125.4	178.1	285.8	262.1	158.3	37.0	18.4	15.6	0.3	2.7	36.1	80.6	2984.2
<b>10th percentile</b>	177.3	229.0	334.8	308.1	200.3	46.5	34.1	28.5	2.8	10.9	47.2	99.8	3464.2
<b>Median</b>	532.5	686.4	815.2	448.4	406.7	175.0	118.1	64.0	77.5	83.2	157.8	242.0	4448.3
<b>90th percentile</b>	1021.4	1279.5	1319.3	1174.9	779.0	378.2	236.7	253.6	303.0	278.8	489.1	652.1	5872.3
<b>95th percentile</b>	1628.8	1404.8	1544.0	1242.7	866.1	436.7	296.8	295.2	349.2	413.5	720.9	831.8	6397.1
<b>Highest</b>	2474.0	2587.0	1655.5	1354.8	1182.8	627.6	571.1	414.0	603.0	479.4	881.4	1706.1	6971.1

#### 1) Calculation of statistics

Summary statistics, other than the Highest and Lowest values, are only calculated if there are at least 20 years of data available.

#### 2) Gaps and missing data

Gaps may be caused by a damaged instrument, a temporary change to the site operation, or due to the absence or illness of an observer.

#### 3) Further information

<http://www.bom.gov.au/climate/cdo/about/about-rain-data.shtml>.

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