

Station Name: Christchurch Aero SYNOP (CHA)

Period: 1961-01-01 - 2021-07-01

Length of record: 60 years

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	FIRE SEASON
<b>Temperature, degrees Celsius</b>														
mean	20.2	19.9	18.2	15.5	12.4	9.5	9	10.5	12.8	15.1	17	18.9	14.9	17.8
median	20	19	18	15	12	9	8.8	10	12.2	15	16.3	18.1	15	17.2
max	35	39	33	30	26.9	22	19.3	21.6	25.5	29	30.3	34	39	39
min	7.7	9	8	4	2	0	1	0.4	1	2.7	5	9	0	2.7
<b>Relative Humidity, %</b>														
mean	56.6	58.8	61.6	65.2	69.8	73.8	73.3	68.5	62.5	58.6	56.1	57	63.5	59.1
median	58	60	63	66	70	74	74	69	63	59	58	59	64	60
max	100	100	100	100	100	100	100	100	100	100	100	100	100	100
min	7	12	13	19	22	21	28	16.5	16	13	13	12	7	7
<b>Wind Speed, km/h</b>														
mean	21.6	20.5	19.2	16.9	15.1	13.2	13.7	16.4	18.8	20.6	21.4	22.3	18.3	20.3
median	20.4	20	18.5	15	13	11.1	11.1	14.8	18.5	20	20.4	22	18	20
max	57.4	61	61.1	70.4	55.6	59	63	63	66.7	61.1	64.8	55.6	70.4	70.4
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>24-hr Rainfall, millimeters</b>														
mean	1.4	1.4	1.7	1.9	1.9	2.1	2.3	1.9	1.4	1.5	1.6	1.5	1.7	1.6
median	0	0	0	0	0	0	0	0	0	0	0	0	0	0
max	110.4	53.2	101.5	82.1	63	69.8	77	76.8	41	48	56.5	79.5	110.4	110.4
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Monthly Rainfall, millimetres</b>														
mean	43.6	40.1	52.3	56.2	56.5	62.9	72.7	59.2	42.1	46.9	46.8	46.5	52.2	47.5
max	138.9	121.4	185	196.1	163.8	186.8	399.6	171	109.2	137.8	117.5	148.7	399.6	196.1
min	3.2	4.9	3.4	6.8	11.2	1.7	1	1.6	1.5	2.4	1.4	1	1	1
<b>Seasonal Rainfall, millimetres</b>														
mean													625.9	331.1
max													953.4	619.8
min													306	200.2
<b>Fine Fuel Moisture Code, FFMC</b>														
mean	81.3	80.9	78	75	69.8	64.3	64.6	69.5	75.2	77.6	79.3	80	74.6	78.8
median	85.7	85.3	84.2	82.5	78.9	72.9	73.1	78.3	82	83.5	84.9	85	82	84.5
max	98	98	95.1	93.4	92.4	91.3	90.4	91.6	92.1	95	95.8	97	98	98
min	11	5.6	1.4	1.4	0.7	0.8	0.8	1	0.2	7.2	2.3	9.9	0.2	1.4
<b>Duff Moisture Code, DMC</b>														
mean	35.4	39.6	29.7	21.2	11.4	5	3.3	5.9	11.7	18.8	25.3	30.6	19.8	28.6
median	29.8	34.1	23.7	16.7	8.2	3.1	2.5	5.1	10.5	14.7	22	26.7	13.6	23.3
max	162.4	163.4	104.7	93.7	86.5	30.6	25	27.3	55.2	94.6	100.6	115.5	163.4	163.4
min	0.5	2.8	0.2	0	0	0	0	0	0	0.2	0.4	0.7	0	0
<b>Drought Code, DC</b>														
mean	373.6	453.7	450.2	416.4	326.2	221.2	151.1	114.3	106.1	127.4	188.9	282.6	267.5	327.1
median	373.4	449.2	452.6	419.5	322.6	217.7	120.4	91.3	80.9	103.8	179.4	277.3	246.7	317.1
max	741.6	795.2	804.1	785.4	792.6	604.5	533.5	382.7	407.2	508.5	544	731.8	804.1	804.1
min	6	134.5	36.4	12.6	1.5	0.3	0.1	0	0.7	2.2	5.8	25.5	0	2.2
<b>Initial Spread Index, ISI</b>														
mean	9.1	7.6	6.4	4.5	3	1.9	1.9	3	4.9	6.6	8.1	8.8	5.5	7.3
median	6.3	5.8	4.5	3.1	1.9	1.2	1.3	2	3.3	4.4	5.4	5.9	3.2	4.9
max	95.3	68.5	69.1	51.2	39.4	55.3	41	42.5	60.3	71.3	74.2	94.6	95.3	95.3
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Buildup Index, BUI</b>														
mean	55	62.7	49.5	36.4	20.1	9	5.9	9.3	16.3	25.5	36	45.9	30.9	44.3
median	48.9	56.8	41.8	30	14.9	5.8	4.5	8.2	15.1	20.8	32.9	42.5	22.3	37.6
max	208.6	211.1	148.1	132.2	134.5	51.6	42.9	37	58	129.2	131.9	145.5	211.1	211.1
min	0.9	5.4	0.4	0	0	0	0	0	0	0.4	0.8	1.3	0	0
<b>Fire Weather Index, FWI</b>														
mean	19.5	18.5	14.3	9.4	4.6	2.1	1.5	3.2	6.6	10.5	14.4	17.6	10.2	14.9
median	16.4	16.1	11.5	6.9	2.4	0.6	0.5	1.5	4.3	7.4	11.4	13.9	5.5	11.4
max	115	110.9	99.6	77.7	58.4	50.2	23	31.8	65.4	115.4	96.2	102.9	115.4	115.4
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Daily Severity Rating, DSR</b>														
mean	7.6	6.8	4.8	2.5	0.9	0.3	0.2	0.4	1.4	3.1	4.8	6.7	3.3	5.2
median	3.9	3.7	2.1	0.8	0.1	0	0	0.1	0.4	0.9	2	2.9	0.6	2
max	120.8	113.2	93.7	60.4	36.4	27.9	7	12.4	44.5	121.5	88	99.1	121.5	121.5
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Monthly Severity Rating, MSR</b>														
mean	237.5	192.4	148.8	71.9	27.2	8.3	4.7	13.7	43	94.7	145.3	208	99.6	156.9
max	726.7	748.7	511.5	308.4	116.4	63.8	22.7	54.7	210.4	774.3	507	646.3	774.3	774.3
min	39.9	43	10.1	2.3	0.4	0.1	0	0.5	1.1	6	29.5	9.5	0	2.3
<b>Cumulative Daily Severity Rating, CDSR</b>														
mean													1195.5	1106.8
max													2654.8	2637.3
min													530.6	382.8

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<b>Forest Fire Danger Class (FFDC) Frequency</b>														
<b>Low</b>														
mean	5	4.5	8.8	12.2	21.2	26.7	29.8	25.7	17.3	12.6	7.7	7	178.4	57.1
max	16	13	26	29	31	30	31	31	30	30	20	26	233	104
min	0	0	0	0	5	10	21	12	0	0	0	0	121	24
<b>Moderate</b>														
mean	10	9.6	11.3	12.4	8.6	3	1.2	5.1	10.5	12.6	12.7	10.3	107.4	79
max	18	17	20	23	25	19	9	19	21	21	20	22	157	106
min	2	2	1	1	0	0	0	0	0	1	5	0	67	49
<b>High</b>														
mean	7.3	7	5.6	3.3	0.8	0.3	0	0.2	1.7	3.8	5.3	6.4	41.6	39
max	15	14	14	13	6	4	1	3	10	11	14	13	70	62
min	1	1	0	0	0	0	0	0	0	0	0	0	18	23
<b>Very High</b>														
mean	3.4	3.3	2.2	1	0.2	0	0	0	0.3	1	2.1	3	16.6	16.2
max	9	9	9	5	2	0	0	0	3	7	8	8	35	31
min	0	0	0	0	0	0	0	0	0	0	0	0	5	3
<b>Extreme</b>														
mean	3.4	2.5	2.3	0.8	0.2	0	0	0	0.1	0.8	1.8	3	14.9	14.7
max	11	12	8	6	4	0	0	0	4	7	10	10	31	39
min	0	0	0	0	0	0	0	0	0	0	0	0	2	0
<b>Very Extreme</b>														
mean	1.9	1.4	0.8	0.2	0	0	0	0	0	0.3	0.4	1.3	6.2	6.2
max	13	14	5	4	1	0	0	0	0	12	7	10	32	34
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Grass Fire Danger Class (GFDC) Frequency</b>														
<b>Curing source</b> Canterbury (Port Hills)														
<b>Curing%</b>	85	90	80	65	50	30	30	35	40	55	65	80		
<b>Low</b>														
mean	1.4	1.4	2.7	4.2	6.8	11.7	11.2	7.6	4.3	3	2.2	1.7	58.2	16.4
max	7	5	9	14	18	27	22	18	12	7	8	5	87	31
min	0	0	0	0	0	0	1	0	0	0	0	0	35	5
<b>Moderate</b>														
mean	7.7	6.6	11.4	19.8	21.4	17.8	19.2	21.4	20.7	17.7	14.8	9.5	188	87.2
max	15	13	21	28	28	30	30	30	28	25	22	20	223	114
min	1	1	3	12	13	3	9	12	14	5	6	1	145	57
<b>High</b>														
mean	11.6	11.4	11.7	5	2.4	0.5	0.5	1.9	4.5	8.1	9.8	10.9	78.2	68.6
max	21	18	19	12	9	3	3	11	12	15	19	21	102	89
min	4	5	4	0	0	0	0	0	0	1	4	4	50	54
<b>Very High</b>														
mean	5.6	5.4	3.3	0.8	0.4	0	0	0.1	0.5	1.7	1.9	5	24.8	23.9
max	11	14	8	3	3	1	2	2	2	7	6	13	42	43
min	1	0	0	0	0	0	0	0	0	0	0	0	12	13
<b>Extreme</b>														
mean	3.7	2.9	1.6	0.2	0	0	0	0	0	0.5	1.2	3.2	13.4	13.4
max	11	11	7	2	1	0	0	0	1	4	7	8	31	29
min	0	0	0	0	0	0	0	0	0	0	0	0	4	3
<b>Very Extreme</b>														
mean	1.1	0.6	0.3	0	0	0	0	0	0	0	0	0.6	2.7	2.7
max	7	3	3	0	0	0	0	0	0	0	0	5	11	10
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Scrub Fire Danger Class (SFDC) Frequency</b>														
<b>Low</b>														
mean	2.6	2.5	3.9	4.9	7.4	9.8	10	7.5	5	4.2	3.6	3.3	64.5	24.7
max	10	7	12	15	18	25	20	18	17	10	12	8	91	42
min	0	0	0	0	0	0	0	0	0	0	0	0	40	12
<b>Moderate</b>														
mean	0	0	0	0.1	0.1	0.1	0.1	0.1	0	0	0	0	0.5	0
max	0	0	0	2	1	1	2	1	0	0	0	0	4	2
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>High</b>														
mean	0.8	0.8	1.7	2.2	3.7	5.7	5.7	3.7	2	1.4	1.2	1.2	30	9.2
max	4	3	7	8	10	12	12	8	6	5	5	6	50	19
min	0	0	0	0	0	0	1	0	0	0	0	0	14	3
<b>Very High</b>														
mean	1.9	1.4	2.5	3.5	5.5	5	6.3	4.8	3.4	2.7	2.1	1.9	41.2	16
max	6	4	7	10	11	12	13	13	7	7	7	6	55	24
min	0	0	0	0	1	1	1	0	0	0	0	0	28	8
<b>Extreme</b>														
mean	5.3	5.5	6.6	8.3	8.2	6.1	6.2	8.4	7.9	6.8	5	5.4	79.8	42.7
max	11	14	13	17	19	17	14	15	13	15	12	14	106	58
min	2	1	2	2	3	0	0	2	3	1	0	1	51	23

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	FIRE SEASON
<b>Very Extreme</b>														
mean	20.4	18	16.2	11	6	3.3	2.8	6.5	11.8	16	18	19.2	149.3	119.6
max	29	25	27	21	15	13	9	19	27	30	26	30	190	157
min	8	9	4	0	0	0	0	1	3	4	9	6	97	89