

Station Name: Palmerston North SYNOP (PMA)

Period: 1995-09-30 - 2021-07-01

Length of record: 25 years

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	FIRE SEASON
<b>Temperature, degrees Celsius</b>														
mean	21.4	21.9	20.2	17.4	14.9	12.4	11.5	12.3	14	15.5	17.2	19.8	16.6	19
median	21	22	20	17.8	15	12.4	11.7	12.6	14	15.5	17	20	16	19
max	31	30	28	26	22.1	20	18	18.8	22	24	26	29	31	31
min	12	12	12	8	7.5	6	3	4.4	5	7	7	10	3	7
<b>Relative Humidity, %</b>														
mean	60.4	58.7	60.9	66.9	72.3	76.4	75.2	72.7	68.9	68.2	64.8	63.2	67.4	63.3
median	59	57	60	66	72	76	75	72	69	67	64	62	67	62
max	99	99	98	99	100	100	100	100	100	99	99	98	100	99
min	22	24	22	30	43	47	38	49	41	29	29	21	21	21
<b>Wind Speed, km/h</b>														
mean	20.6	19.9	19.2	18	17	16	17	17.3	21	21.9	22.7	20.8	19.3	20.5
median	20	19	19	18	16.7	15	17	16.7	20.4	20.4	22	20	19	20
max	50	54	57	50	53	53	50	48	52	57.4	57.4	59	59	59
min	2	2	1.9	0	0	0	0	0	2	0	2	1.9	0	0
<b>24-hr Rainfall, millimeters</b>														
mean	1.9	2.1	1.7	2.7	2.6	3.2	3.3	2.8	2.7	3.1	2.6	2.9	2.6	2.4
median	0	0	0	0	0	0.2	0.2	0.2	0.2	0.2	0	0	0	0
max	48.8	57.8	48	82.2	56.6	84.4	49.9	35.1	40.4	51	48.8	45	84.4	82.2
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Monthly Rainfall, millimetres</b>														
mean	58.7	60.8	51.9	81.6	82.7	95.9	103.1	85.3	82.1	96.8	75.5	90	80.4	73.6
max	156.4	278.2	139.6	252.2	212.8	273.6	654.1	235.5	214.2	202.2	148.8	192.4	654.1	278.2
min	10.8	14.6	4	28.8	19	30.6	19.9	19.8	12.2	29.4	23.3	20.1	4	4
<b>Seasonal Rainfall, millimetres</b>														
mean													964.3	517.1
max													1671.8	748.8
min													666.2	297.2
<b>Fine Fuel Moisture Code, FFMC</b>														
mean	79.7	80.3	79.2	73.4	69.4	62.4	62.9	64.1	69.7	69.9	74.6	75.2	71.7	76
median	84.9	86.2	85.2	81.1	77.2	68.1	68.6	69.4	76.3	77	81	82	79.3	82.8
max	93	92.7	93.3	88.9	88	85	84.5	86.2	86.9	89.9	89.3	92.7	93.3	93.3
min	11.2	18	15.7	12.5	2.1	1.5	7.1	4.8	8	14.2	15.6	16.2	1.5	11.2
<b>Duff Moisture Code, DMC</b>														
mean	21.8	26.4	26.5	12.8	6.2	2.2	1.9	2.7	5.2	6.5	11.7	15.5	11.6	17.3
median	18.3	24.4	21.1	9.7	5	1.6	1.3	1.8	4.1	5	10.3	11.2	6.9	12.5
max	96.3	77.4	110.7	92.8	33.1	13.8	12.2	17.1	22.3	31.7	45.4	93	110.7	110.7
min	1.3	0.6	1.7	0	0	0	0	0	0	0	0.4	0.3	0	0
<b>Drought Code, DC</b>														
mean	218.9	297.2	343.8	298.8	223.6	126.9	65	46.4	39.8	38.2	83	141.3	160.5	201.9
median	220.9	301.6	349.8	338.8	232.4	137.6	28.5	18.2	19.3	26.1	81.1	136.5	135.1	180.1
max	421.5	506.7	624	658.2	572.5	418.5	229.3	182.5	205.5	236.4	213.1	404.2	658.2	658.2
min	35.3	5.2	4.2	2.7	1.3	1	0.4	0.5	1	2.6	4.7	5.9	0.4	2.6
<b>Initial Spread Index, ISI</b>														
mean	6.3	6.6	5.8	3.6	2.5	1.6	1.8	1.9	3.1	3.5	4.5	4.9	3.8	5
median	5.2	5.6	5	2.9	2	1.1	1.3	1.5	2.5	2.8	3.8	3.9	2.7	4.1
max	39.2	32.8	29.4	29.5	20.7	16.7	15.3	14.6	19.1	23.7	30.7	25.4	39.2	39.2
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Buildup Index, BUI</b>														
mean	33.8	42	42.9	22.1	11.2	3.9	3.2	4	7	8.3	16.6	23.1	18.2	26.9
median	30	40.3	36.3	17.7	9.1	2.8	2.1	2.7	5.3	6.6	15.2	17.9	10.9	20.3
max	114.6	106.5	144.2	136.1	57.8	24.6	18.6	21.8	33.9	47.3	57.9	112.9	144.2	144.2
min	2.4	1	2	0	0	0	0	0	0	0	0.8	0.6	0	0
<b>Fire Weather Index, FWI</b>														
mean	12.3	14.2	12.9	6.1	3	1	1.1	1.3	2.8	3.4	6.3	8.2	6	9
median	10.5	12.7	11.5	4.1	1.6	0.4	0.4	0.5	1.4	2.1	5.1	6	2.9	6.5
max	61.5	61	53.8	37.6	38.5	15.9	17.6	15.9	28.9	22.2	38.6	52.5	61.5	61.5
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Daily Severity Rating, DSR</b>														
mean	3.3	4.1	3.5	1.1	0.4	0.1	0.1	0.1	0.3	0.4	1.1	1.9	1.4	2.2
median	1.7	2.4	2.1	0.3	0.1	0	0	0	0.1	0.1	0.5	0.7	0.2	0.8
max	39.8	39.4	31.5	16.7	17.4	3.6	4.4	3.6	10.5	6.5	17.5	30.2	39.8	39.8
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Monthly Severity Rating, MSR</b>														
mean	104.4	115.8	111.4	34.9	11.3	2.1	2.6	3.1	9.8	13.4	33.6	54.1	41.4	66.8
max	304.7	258.1	281	89.7	39	6.3	15	13.1	36.9	39.2	103	309.6	309.6	309.6
min	28.8	10.6	23.9	2.8	1	0.1	0	0.1	0.2	2	6	5	0	2
<b>Cumulative Daily Severity Rating, CDSR</b>														
mean													496.5	464.5
max													789	888.8
min													188.4	165.6

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	FIRE SEASON
<b>Forest Fire Danger Class (FFDC) Frequency</b>														
<b>Low</b>														
mean	7.6	6.4	8.1	16.4	25.2	29.5	30.7	30	26.2	25.9	16	15.4	237.3	96
max	17	26	19	29	31	30	31	31	30	31	28	30	284	144
min	0	1	0	4	12	27	26	20	11	11	5	0	192	59
<b>Moderate</b>														
mean	14.7	11	12	11.2	5.6	0.5	0.3	1	3.7	4.9	12.8	12	89.9	78.7
max	20	17	20	18	17	3	5	11	18	18	23	17	132	98
min	7	3	3	1	0	0	0	0	0	0	2	1	66	58
<b>High</b>														
mean	5.3	6.4	7	2	0.2	0	0	0	0	0.2	1.1	2.4	24.7	24.5
max	11	13	18	11	3	0	0	0	1	2	6	12	38	47
min	0	0	0	0	0	0	0	0	0	0	0	0	5	4
<b>Very High</b>														
mean	1.9	2.3	2.1	0.2	0	0	0	0	0	0	0.1	0.7	7.3	7.2
max	8	6	6	1	0	0	0	0	0	0	2	5	18	22
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Extreme</b>														
mean	1.2	1.9	1.5	0.1	0	0	0	0	0	0	0	0.4	5.2	5
max	8	9	7	2	1	0	0	0	0	0	0	9	15	15
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Very Extreme</b>														
mean	0.3	0.2	0.3	0	0	0	0	0	0	0	0	0.1	0.8	0.8
max	5	2	3	0	0	0	0	0	0	0	0	2	5	5
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: Māui/Manawatu (Palmerston North)</b>														
Curing%	80	90	70	50	40	40	40	40	40	40	50	60		
<b>Low</b>														
mean	1.4	1.5	2.2	4.4	6.8	10.2	10.7	9.2	5.6	5.8	2.9	4.3	65	22.4
max	5	6	8	10	14	21	30	20	12	11	8	8	101	37
min	0	0	0	0	1	4	2	1	0	2	0	0	44	12
<b>Moderate</b>														
mean	10	6.4	14.2	21.7	23.2	19.5	19.8	21.4	22.4	22.5	20.8	20.8	222.5	116.4
max	19	11	24	27	30	26	29	30	27	28	26	26	250	137
min	2	3	7	16	14	9	1	11	17	16	13	14	166	93
<b>High</b>														
mean	13.8	12.2	12.5	3.8	1	0.3	0.5	0.4	2.1	2.7	6.1	5.8	61.2	57.2
max	19	17	23	10	4	3	3	2	7	6	14	17	79	78
min	8	7	4	0	0	0	0	0	0	0	2	0	46	40
<b>Very High</b>														
mean	4.4	5.8	2	0.1	0	0	0	0	0	0	0.2	0	12.5	12.3
max	12	10	6	1	0	0	0	0	0	1	4	0	21	21
min	0	2	0	0	0	0	0	0	0	0	0	0	3	3
<b>Extreme</b>														
mean	1.4	2.4	0.1	0	0	0	0	0	0	0	0	0	4	3.9
max	6	8	1	0	0	0	0	0	0	0	0	0	10	10
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>Very Extreme</b>														
mean	0	0.1	0	0	0	0	0	0	0	0	0	0	0.1	0.1
max	0	1	0	0	0	0	0	0	0	0	0	0	1	1
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	2.9	2.5	3.4	5.6	7.6	11.3	11.8	10.9	7.5	7.6	4.9	5.6	81.4	32.4
max	6	8	8	11	17	21	30	21	19	15	11	12	118	47
min	0	0	0	0	1	5	2	1	0	4	0	0	55	18
<b>Moderate</b>														
mean	0	0	0	0	0	0.1	0	0	0	0	0	0	0.2	0
max	0	0	0	0	0	1	1	0	0	0	0	0	1	0
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<b>High</b>														
mean	1	0.6	0.8	1.7	3.5	5	4.1	3.7	2.3	1.8	1.3	1.7	27.4	9
max	5	2	3	4	11	11	8	10	6	4	5	5	44	19
min	0	0	0	0	0	2	1	0	1	0	0	0	19	3
<b>Very High</b>														
mean	2.1	1.6	2.2	3.1	5.1	6	5.3	5.4	3	3.3	2.3	2.4	41.8	17.2
max	6	5	7	9	10	11	12	9	8	8	7	7	58	32
min	0	0	0	0	1	1	0	2	1	0	0	0	28	8
<b>Extreme</b>														
mean	6.2	5.7	6.6	10	9.6	5.6	7	8	9.3	8.2	7.6	7.3	91	51.4
max	13	12	12	18	16	10	12	19	18	12	12	12	121	67
min	2	2	3	3	5	1	0	0	3	5	2	4	54	31

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	FIRE SEASON
<b>Very Extreme</b>														
mean	18.8	17.9	18	9.7	5.2	2	2.8	3	7.8	10.2	13.9	14	123.4	102.3
max	27	24	27	18	13	6	11	6	11	16	23	26	144	131
min	10	9	12	1	1	0	0	0	0	4	6	4	90	71