

Station Name: Masterton Aero Aws (MSX)

Period: 1991-10-01 - 2021-07-01

Length of record: 29 years

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	FIRE SEASON
Temperature, degrees Celsius														
mean	22.1	22.1	20	17.1	14.4	11.7	11	11.7	14	15.8	17.7	20	16.5	19.2
median	22.1	22	20	17.1	14.4	11.7	11	12	14	16	18	20	16	19
max	32.4	31.3	29	25.1	24.4	20.6	18.7	19.7	22.1	23.4	28.1	30	32.4	32.4
min	9	11	9	6	3.9	2.1	1.8	0.3	3.8	5	6	8	0.3	5
Relative Humidity, %														
mean	54.2	54.8	59.2	65.9	71.1	74.8	75.2	70.8	64.9	63	60.3	58.7	64.4	59.5
median	52	52	57	65	70	75	75	70	63	61	58	57	63	57
max	98	98	100	100	100	100	100	100	98	98	96	98	100	100
min	13	19	26	35	28	36	41	31.2	26	31	24	19	13	13
Wind Speed, km/h														
mean	16.8	15.1	15.2	13.4	13.7	14.2	13.6	15.1	16.5	18.2	18	17.3	15.6	16.3
median	15	13	13	11.4	11.6	11.8	11.2	13	15.1	17	17	17	14	15
max	57.2	61	57	61	59	61.2	74.2	71.9	55	54	64	54.7	74.2	64
min	0	0	0	0	0	0	0	0	0	0	0	1.8	0	0
24-hr Rainfall, millimeters														
mean	2	2.2	2.7	2.5	2.8	3.4	3.4	3.1	2.9	2.7	2.5	2	2.7	2.4
median	0	0	0	0.1	0.2	0.4	0.4	0.3	0.2	0.2	0	0	0.1	0
max	87.4	85.5	98.6	83.1	82.5	79.3	84.8	70.8	79.3	51.8	86.6	53.6	98.6	98.6
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Monthly Rainfall, millimetres														
mean	63.9	61.6	85.4	75.7	89.1	101.8	104.3	94.6	86.3	85.6	74.5	62.3	82.1	72.7
max	184.2	266.2	327.7	213.3	243.5	208.6	263.6	240.3	314.4	166.4	187	168	327.7	327.7
min	13.4	11.8	17.9	13.2	10.4	32.2	25	20.4	16.8	19	8	15.6	8	8
Seasonal Rainfall, millimetres														
mean													985.1	505.5
max													2253.3	1028.2
min													574.2	276.8
Fine Fuel Moisture Code, FFMC														
mean	80.3	80.4	76.1	72	65.8	58.9	58.8	62.9	69.4	71.5	75.2	77.7	70.8	76.2
median	86.5	86.7	84.8	81.1	73.5	63.8	65	68.7	76.4	79.5	83	84.4	79.4	83.9
max	96.7	94.7	93.1	90.3	89	89.3	86	88.2	90.1	89.9	93.1	94.1	96.7	96.7
min	8.8	6.6	8.5	4.9	6.1	1.8	2	2.5	5.6	5.3	6.1	7.6	1.8	4.9
Duff Moisture Code, DMC														
mean	30.6	36.1	26.3	13.9	7.4	2.6	1.7	3.1	6.8	8.9	15.4	23.4	14.7	22
median	27.3	31.8	19.5	10.8	4.5	1.4	1.3	2.2	5.6	7.6	13.3	19	8.2	16.1
max	105.8	109.9	122.5	56.1	43.3	37.7	10	15.5	35	29.1	56	102.5	122.5	122.5
min	2.4	0.1	0.9	0	0	0	0	0	0	0	0	0.5	0	0
Drought Code, DC														
mean	276	349.3	353.7	284.8	220.4	117.7	56.3	35	34.5	41.2	94.1	174	169.9	223.5
median	290.7	364.7	369.3	275.6	185	89.9	18.2	15.2	23.9	35.4	90.4	176	108.7	198.2
max	523.5	671.2	767.5	688.1	695.1	544	363.5	247.9	222.5	147.8	237.4	376.3	767.5	767.5
min	7.5	5	4	2	1	0.6	0.2	0	0.6	1.9	4.7	6.1	0	1.9
Initial Spread Index, ISI														
mean	6.9	6.2	4.9	3	2.2	1.6	1.4	1.9	2.9	3.7	4.7	5.3	3.7	4.9
median	5.1	5	3.8	2.3	1.4	0.8	0.8	1.2	1.9	2.5	3.6	4.2	2.2	3.6
max	54.6	39	36.6	45.6	28.5	29	10.9	26.9	23	29.7	31	36.6	54.6	54.6
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Buildup Index, BUI														
mean	46.4	55.7	42.4	23.8	13	4.6	2.8	4.1	8.2	11	21	33.6	22.2	33.2
median	44	52	34.4	18.6	8.1	2.5	2.1	2.9	6.9	9.6	18.8	29.4	12.3	24.4
max	131.3	154.6	160.1	86.4	65.5	64.3	12.7	19.8	34.9	35.8	70.2	117.4	160.1	160.1
min	4.5	0.2	1.8	0	0	0	0	0	0	0	0	1	0	0
Fire Weather Index, FWI														
mean	15.2	15.7	11.1	5.4	2.9	1.3	0.8	1.3	2.9	4.2	7.3	10.5	6.5	9.9
median	12.5	13.4	8	3.3	0.8	0.3	0.3	0.4	0.9	2.4	5.5	8.3	2.4	6.6
max	85.2	67.5	71.8	73.6	37.3	48	9.6	18.9	22.3	27.8	41.1	61.9	85.2	85.2
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Daily Severity Rating, DSR														
mean	5	5.2	3.3	1.1	0.5	0.2	0	0.1	0.4	0.6	1.5	2.8	1.7	2.8
median	2.4	2.7	1.1	0.2	0	0	0	0	0	0.1	0.6	1.2	0.1	0.8
max	71	47	52.5	54.8	16.5	25.7	1.5	5	6.6	9.8	19.5	40.3	71	71
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Monthly Severity Rating, MSR														
mean	156.7	143.6	97.9	31.4	13.9	6.2	1.4	3.3	11	19.8	44.8	88.7	51.6	83.3
max	395.2	373.3	272	114	62.8	89.3	6.3	12.2	49.5	41.9	142.8	281.2	395.2	395.2
min	15.7	8.5	5.4	2.1	0.3	0	0	0.3	0.2	4.2	11.1	6.9	0	2.1
Cumulative Daily Severity Rating, CDSR														
mean													618.7	586.8
max													1181.3	1289.9
min													98.1	129.2

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Forest Fire Danger Class (FFDC) Frequency														
Low														
mean	8.2	7	12.3	18.6	25.3	29.2	30.9	30.5	25.4	22.2	14	11.2	234.9	92.9
max	22	27	30	29	31	30	31	31	30	31	22	28	325	152
min	1	0	3	2	6	22	30	28	14	8	2	2	163	52
Moderate														
mean	11	9.5	10.8	9.2	4.9	0.6	0.1	0.5	4.4	8.6	13.2	12.4	85.3	74.7
max	18	18	23	21	24	6	1	3	15	23	25	18	131	106
min	5	0	1	1	0	0	0	0	0	0	8	2	40	45
High														
mean	5.4	5.8	3.9	1.8	0.7	0	0	0	0.1	0.2	2.5	4.4	24.8	24.2
max	10	13	12	6	4	0	0	0	3	2	9	10	46	46
min	0	0	0	0	0	0	0	0	0	0	0	0	1	3
Very High														
mean	2.8	2.1	2.1	0.3	0.1	0	0	0	0	0	0.2	1.8	9.4	9.8
max	9	9	10	3	2	0	0	0	0	0	3	6	23	22
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Extreme														
mean	2.9	2.9	1.4	0.1	0	0.2	0	0	0	0	0.1	1	8.6	8.5
max	10	12	10	2	0	5	0	0	0	0	1	6	24	25
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Very Extreme														
mean	0.7	0.9	0.4	0	0	0	0	0	0	0	0	0.2	2.2	2.2
max	5	8	5	1	0	0	0	0	0	0	0	3	12	12
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Grass Fire Danger Class (GFDC) Frequency														
Curing source Wairarapa (Wairarapa)														
Curing%	90	95	95	80	60	50	45	45	50	65	70	80		
Low														
mean	2.1	2	3.6	5	10.7	12.4	13.6	10.6	6.2	5.5	3.4	2.3	77.4	23.6
max	6	8	8	13	19	22	26	21	20	13	10	7	126	39
min	0	0	0	0	2	5	5	3	1	0	0	0	60	8
Moderate														
mean	8.7	7.6	9.7	17.3	19.1	16.5	16.9	19.4	20.6	19.3	16.5	12.5	184	91.6
max	17	15	17	24	28	25	26	28	26	24	25	24	230	123
min	3	1	2	11	12	8	5	7	10	12	7	5	150	62
High														
mean	11.2	10.1	11.9	7	1.1	1	0.5	0.9	3.1	5.9	8.7	12	73.3	66.6
max	19	16	20	18	4	6	3	4	9	16	19	19	92	84
min	6	2	5	2	0	0	0	0	0	2	3	3	46	43
Very High														
mean	5.1	5.3	3.4	0.6	0.1	0.1	0	0	0.1	0.3	1.3	3.4	19.8	19.8
max	10	13	13	3	1	2	0	1	1	3	5	9	33	41
min	0	0	0	0	0	0	0	0	0	0	0	0	7	7
Extreme														
mean	3.6	3.2	2.2	0.1	0	0	0	0	0	0	0.1	0.8	10.1	10
max	10	10	10	1	0	0	0	0	0	0	2	3	29	31
min	0	0	0	0	0	0	0	0	0	0	0	0	3	3
Very Extreme														
mean	0.4	0.2	0.1	0	0	0	0	0	0	0	0	0	0.7	0.7
max	3	1	1	1	0	0	0	0	0	0	0	0	5	5
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Scrub Fire Danger Class (SFDC) Frequency														
Low														
mean	3.4	3.1	5.4	6.8	10.5	13.6	13.7	11.7	7.8	6.9	5	4	91.8	34.3
max	9	11	13	16	18	22	27	19	22	14	13	11	148	55
min	0	0	0	0	2	5	5	3	2	1	0	0	68	15
Moderate														
mean	0	0	0	0	0	0	0.1	0.1	0	0	0	0	0.2	0
max	0	0	0	0	0	1	1	1	0	0	0	0	1	0
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
High														
mean	1.8	1.8	2.2	3.2	4.6	5.3	5.6	4.6	4	3.1	2.4	2.2	40.9	16.7
max	4	7	8	8	8	11	11	8	9	7	4	8	61	28
min	0	0	0	0	0	0	1	1	0	0	0	0	30	9
Very High														
mean	2.7	2.1	2.1	4	4.9	4.1	5.1	4.7	3.9	3.7	3.1	3.1	43.5	20.8
max	6	7	5	8	11	9	10	11	8	6	8	7	64	33
min	0	0	0	0	0	0	0	1	0	1	0	1	29	11
Extreme														
mean	5.2	5	7.4	9	6.9	4.4	4.6	6.7	8	7.5	6.6	6	77.2	46.8
max	11	10	15	17	13	10	10	15	15	13	14	17	102	65
min	1	0	1	4	1	0	0	2	1	2	1	1	57	25

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Very Extreme														
mean	18	16.2	13.8	7	4.1	2.6	2	3.3	6.4	9.8	12.8	15.7	111.7	93.7
max	25	25	26	16	12	9	7	8	15	19	23	25	143	133
min	7	4	3	1	0	0	0	0	1	4	6	3	53	53