

Station Name: Kaitaia Observatory (KX)

Period: 1963-01-01 - 2021-07-01

Length of record: 58 years

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	FIRE SEASON
Temperature, degrees Celsius														
mean	22.3	22.8	21.6	19.4	17	15	14.2	14.4	15.5	16.7	18.4	20.5	18.1	20.2
median	22.2	23	21.8	19.5	17	15	14.1	14.4	15.5	16.8	18.3	20.7	18	20.4
max	29.1	29	29	24.6	22.9	20	19.2	20	21	22.4	25.4	26	29.1	29.1
min	14	14.4	15	11.6	9.2	9	7.9	6.8	8.8	9.3	10.8	13	6.8	9.3
Relative Humidity, %														
mean	64.6	63.4	65.5	68	71.9	75.7	74.8	73.4	71.5	69.6	68.3	67.7	69.6	66.8
median	62	61	64	66	71	75	75	72	71	68.2	67	65	68	65
max	100	100	100	100	100	100	100	100	100	100	100	100	100	100
min	29	33	36	31	44	31.8	35	38	38	34	34	29	29	29
Wind Speed, km/h														
mean	21.4	20.7	20.7	20.7	20.7	20.8	22	22.9	24.5	24.5	24	22.8	22.1	22.1
median	20.5	20.1	20.1	20.1	20.4	20.4	22.2	22.2	24.1	24.1	24.1	22.2	22.2	22.2
max	63	70.4	68.9	59.9	59.9	65.1	63	59.3	79.4	67.5	62.7	55.6	79.4	70.4
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24-hr Rainfall, millimeters														
mean	2.6	3.2	2.9	3.5	3.9	5	5.1	4.8	4	3.1	2.9	3	3.7	3
median	0	0	0	0.1	0.3	0.8	1.2	0.8	0.5	0.1	0	0	0.1	0
max	122.2	159.3	116.7	111	151.3	92.3	104.8	81.3	101.5	71.6	79	75.8	159.3	159.3
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Monthly Rainfall, millimetres														
mean	81	88.2	89	105.6	120.2	150.9	159.1	148.9	119.5	94.8	87	94.1	111.5	91.4
max	325.4	374.8	242.8	363.8	298.5	288.7	376.5	437.9	235.5	213.3	197	209.7	437.9	374.8
min	2.3	6.7	6	10	29.3	58.3	24.7	66.9	39.8	21.7	14.8	17.8	2.3	2.3
Seasonal Rainfall, millimetres														
mean													1338.2	641.6
max													1847.2	1007.6
min													903.3	276.6
Fine Fuel Moisture Code, FFMC														
mean	78.9	78.9	77.5	73.9	69.3	61.9	61.3	63.6	67.6	71.8	74.7	75.2	71.2	75.8
median	85.2	85.5	84.4	81.5	76.4	66.7	65.2	68.1	73.6	78.5	81.4	83	79.1	83.1
max	91.2	90.5	89.5	90.1	88.1	86.5	86.1	87.5	87.3	88.6	89.5	91.6	91.6	91.6
min	0	3	0	0.9	1	0.3	2.5	0	0	0.7	1	6.1	0	0
Duff Moisture Code, DMC														
mean	23.1	29.4	20	13	5.7	1.9	1.4	2	3.8	7.2	11.7	16	11.2	17.1
median	19.6	23.5	15.3	9.1	4	1.3	0.9	1.5	2.9	5.7	10.3	13.3	6.1	12.3
max	91.3	112.4	104.7	72.9	59.2	13.9	10.6	12.6	21.5	32.7	38.1	64.7	112.4	112.4
min	0	0	0	0	0	0	0	0	0	0	0.1	0	0	0
Drought Code, DC														
mean	202.9	266.6	248.5	196.5	121.6	41.3	13.6	10.3	13.1	32.9	75.8	132.9	112.8	164.8
median	196.6	268.5	243.2	161.9	92.6	14.6	7.2	7.2	9.6	28.9	70.2	130.2	59.4	129.8
max	499.6	661.6	716.1	645.2	558.2	376.4	194.1	77.6	60	123.3	276.3	388.1	716.1	716.1
min	6.9	5.8	5	3.5	1.4	1.4	1.1	0.9	1.3	2.8	4.9	6.4	0.9	2.8
Initial Spread Index, ISI														
mean	6	6	5.3	4.1	2.9	2.1	2	2.4	3.1	4	4.7	5.1	4	5
median	5.5	5.3	4.7	3.5	2.4	1.5	1.5	1.8	2.5	3.5	4.2	4.6	3.1	4.4
max	32.8	38.1	28.4	20.7	17.5	16.7	22	17.1	23.2	20.3	20.5	23.6	38.1	38.1
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Buildup Index, BUI														
mean	34.6	44.1	31.5	20.9	9.4	2.9	1.9	2.5	4.3	9	16.3	23.7	16.7	25.6
median	30.6	37.5	25.1	14.8	6.6	1.9	1.3	1.9	3.3	7.4	14.6	20.5	8.9	18.9
max	124.5	157	141.8	105.5	93.1	22.8	13.3	13.6	21.5	37.6	56.7	89.8	157	157
min	0	0	0	0	0	0	0	0	0	0	0.3	0	0	0
Fire Weather Index, FWI														
mean	12.1	13.6	10.2	6.6	3.1	1.3	1	1.3	2.2	4.1	6.5	8.7	5.9	8.8
median	10.9	11.7	8.8	4.9	1.5	0.5	0.4	0.5	0.9	3.1	5.7	7.2	2.9	6.8
max	59.6	65.4	59.3	43.8	25.5	16.1	19.6	12.7	17.9	25.8	28.8	40.5	65.4	65.4
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Daily Severity Rating, DSR														
mean	3.1	3.9	2.5	1.2	0.4	0.1	0.1	0.1	0.2	0.5	1.1	1.9	1.2	2
median	1.9	2.1	1.3	0.5	0.1	0	0	0	0	0.2	0.6	0.9	0.2	0.8
max	37.7	44.4	37.4	21.9	8.4	3.7	5.3	2.4	4.5	8.6	10.4	19	44.4	44.4
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Monthly Severity Rating, MSR														
mean	94.2	111	76.6	37.8	12	3.1	2.3	3.2	6.2	16.6	33.4	57.9	37.8	61.1
max	312.9	376.7	342.8	188.3	52.1	15.7	15.9	7.9	22.5	56.9	80.8	223.9	376.7	376.7
min	9.3	19.5	18.7	1.3	0.5	0.1	0.2	0.3	0.6	1.7	3.6	10.4	0.1	1.3
Cumulative Daily Severity Rating, CDSR														
mean													454.1	428
max													1178.5	1082.8
min													206.4	164.9

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	FIRE SEASON
Forest Fire Danger Class (FFDC) Frequency														
Low														
mean	8.1	7.1	10.5	16.2	25.6	29.3	30.8	30.8	28.6	23.8	15.5	12.6	239	94.1
max	28	18	25	30	31	30	31	31	30	31	30	27	282	133
min	0	0	0	0	10	22	28	28	21	5	1	0	178	39
Moderate														
mean	14.4	10.7	14.2	11.3	5.1	0.7	0.2	0.2	1.4	7	13.2	13.8	92.2	84.2
max	26	23	23	23	19	8	3	3	9	23	25	22	132	111
min	2	1	3	0	0	0	0	0	0	0	0	3	52	46
High														
mean	5.7	6	4.4	1.9	0.3	0	0	0	0	0.2	1.3	3.6	23.5	23.3
max	16	14	14	18	7	0	0	0	0	3	10	13	61	59
min	0	0	0	0	0	0	0	0	0	0	0	0	3	3
Very High														
mean	1.9	2.3	1.1	0.4	0	0	0	0	0	0	0	0.8	6.6	6.6
max	14	13	6	5	1	0	0	0	0	0	0	10	39	34
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Extreme														
mean	0.7	1.7	0.7	0.1	0	0	0	0	0	0	0	0.2	3.5	3.5
max	7	11	10	3	0	0	0	0	0	0	0	5	25	23
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Very Extreme														
mean	0.1	0.3	0.1	0	0	0	0	0	0	0	0	0	0.5	0.5
max	4	2	3	0	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
Grass Fire Danger Class (GFDC) Frequency														
Curing sources Northland (Zone 1 Far North)														
Curing%	80	80	75	50	40	40	45	45	50	55	70	75		
Low														
mean	1.9	1.8	2.3	3.6	5.6	9.3	9.3	7.7	5.2	3.7	2.4	2.9	55.8	18.7
max	10	6	10	14	13	21	19	18	11	9	9	9	80	33
min	0	0	0	0	1	4	2	3	0	0	0	0	38	6
Moderate														
mean	8.6	8.4	12.5	21.4	24.1	19.9	20.8	22.2	22.5	21.4	16.3	12.3	210.4	100.8
max	17	18	19	28	29	26	29	27	27	28	24	21	246	128
min	1	0	5	14	18	9	12	13	16	14	5	3	179	67
High														
mean	16.1	13.9	13.9	4.9	1.3	0.8	0.9	1.1	2.3	5.8	10.6	13.6	85.2	78.9
max	23	23	23	12	6	5	5	5	8	13	23	22	115	111
min	7	5	6	0	0	0	0	0	0	0	3	2	59	54
Very High														
mean	3.8	3.4	2.1	0.1	0	0	0	0	0	0.1	0.7	2.1	12.3	12.1
max	12	12	10	3	0	0	1	0	1	1	4	11	26	27
min	1	0	0	0	0	0	0	0	0	0	0	0	3	3
Extreme														
mean	0.6	0.7	0.2	0	0	0	0	0	0	0	0	0.1	1.7	1.7
max	4	8	2	0	0	0	0	0	0	0	0	2	8	8
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Very Extreme														
mean	0	0	0	0	0	0	0	0	0	0	0	0	0	0
max	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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	3.7	5.2	8.2	12.2	12.9	11.5	9	6.6	4.8	4.9	85.6	31.9
max	12	9	11	17	17	25	22	21	16	15	11	12	123	50
min	0	0	0	0	1	6	3	5	3	0	1	0	58	13
Moderate														
mean	0	0	0	0	0	0	0.1	0	0	0	0	0	0.1	0
max	0	1	0	0	0	0	1	0	0	0	0	0	1	1
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
High														
mean	0.8	0.8	1	1	1.9	2.7	2.8	2.2	1.3	0.8	0.8	0.8	16.8	5.9
max	5	3	3	4	7	7	8	7	7	4	4	4	36	16
min	0	0	0	0	0	0	0	0	0	0	0	0	6	1
Very High														
mean	1.3	1.5	2.1	3.1	4.1	4	4.4	4.3	3.2	2.7	2.4	2.1	35.4	15.3
max	5	4	5	9	10	10	10	10	7	8	7	6	54	28
min	0	0	0	0	0	1	0	0	0	0	0	0	22	5
Extreme														
mean	5.8	5.2	7	8.7	9.5	7	6.9	7.9	8.5	8.6	7.1	6.4	88.7	48.7
max	15	15	12	15	15	16	19	15	15	15	14	13	132	68
min	1	0	2	4	4	1	1	1	4	4	2	1	64	28

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Very Extreme														
mean	19.8	17.6	17.2	11.9	7.3	4.1	3.9	5.1	8	12.3	14.8	16.7	138.7	110.4
max	30	28	25	24	15	12	13	12	19	25	26	27	189	155
min	8	8	8	2	1	1	0	1	1	3	3	3	99	76