

Station Name: Pukaki Aero Raws (PKA)

Period: 2000-02-08 - 2021-07-01

Length of record: 21 years

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	FIRE SEASON
Temperature, degrees Celsius														
mean	20.6	20.1	17.4	13.3	8.8	4.7	4.2	7.1	11.2	14	16.8	19	13	17.3
median	20.6	20.1	17.4	13.2	8.4	4.5	3.9	7	11.2	14.1	16.9	19.2	13.3	17.2
max	31.9	31.1	28	24.9	23.4	17.5	16.1	17.9	21.6	24.6	27.1	28.3	31.9	31.9
min	9.9	7.6	3.3	3.4	-2.4	-9.8	-6.4	-0.2	0.6	2.9	1.6	6.1	-9.8	1.6
Relative Humidity, %														
mean	45.4	48.3	54.2	61.9	72.7	79.9	78.5	71.6	56.6	49.7	45.8	47	59.5	50.4
median	43	47	53	61	73.8	84	80	72	55	47	43	45	57	48
max	100	100	100	100	100	100	100	100	100	100	100	99.1	100	100
min	10	11	12	16	15	27	29	23	15	17	11	15	10	10
Wind Speed, km/h														
mean	13.3	10.7	10	8.7	8.7	7	6.8	8.5	12.1	13.4	14.7	13	10.6	12
median	9.2	7.2	6.4	5.4	5.2	4.6	4.3	5.4	7.6	9.4	10.1	8.6	6.8	7.9
max	47.3	44.6	49	45.1	49	48.7	58.8	57.5	71.5	64.4	53.5	60.8	71.5	64.4
min	1.6	1.6	1.8	0.9	0	0	0	0	0.6	1.4	2.2	1.2	0	0.9
24-hr Rainfall, millimeters														
mean	1.6	1.5	1.1	1.4	1.6	1.9	1.3	1	1.2	1.4	1.6	1.8	1.4	1.5
median	0	0	0	0	0	0.2	0	0	0	0	0	0	0	0
max	38.6	65.2	32	35.8	42.4	69	49.2	29.6	46.2	48.8	65.6	66.6	69	66.6
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Monthly Rainfall, millimetres														
mean	48.4	43.4	35.2	40.3	48.2	55.5	38.3	30.7	32.6	43.4	49.2	55	43.4	45
max	124.2	183.2	74.2	93.4	102.8	150.8	128	66.2	83.2	98.8	119.2	122.8	183.2	183.2
min	4.8	2.2	5	2.2	19.6	9.6	9	3.8	4.6	7.6	2.1	11.4	2.1	2.1
Seasonal Rainfall, millimetres														
mean													520.4	312.9
max													772.3	572.6
min													337	189.7
Fine Fuel Moisture Code, FFMC														
mean	82.5	82.2	80	74.3	64.4	56.5	62.8	67.4	76.2	77.4	81.1	80.4	73.7	79.7
median	88.5	87.8	85.9	83	73.1	62.4	70.9	74.6	82.6	84.3	87.5	87.1	81.6	86.4
max	96.4	96.6	95.5	93.4	92	90.2	87.8	90.5	93.9	93.9	95.8	95.4	96.6	96.6
min	7.3	14.1	10.9	3	3.7	2.3	3.6	2.8	14.6	16.4	5.6	13.1	2.3	3
Duff Moisture Code, DMC														
mean	38.4	43.9	40.4	26.1	8.6	3.1	1.8	3.7	11.9	19.7	31.2	33.8	21.8	33.3
median	33.1	42.8	35.5	24	5.9	1.7	1.3	2.7	9.7	16.8	26.1	30.5	14.2	28.4
max	158.7	113.9	122	80.5	58.1	22.5	12.4	17.8	45.2	69.8	104.2	108.7	158.7	158.7
min	1.7	2.5	2.4	0	0	0	0	0	0	1.3	3.4	1.5	0	0
Drought Code, DC														
mean	351.5	422	460.3	458.1	365.2	264.9	174	141	142.8	167.8	223.2	289.8	289.5	339.9
median	335	418.6	453.5	454.5	372.6	263.3	166.7	121.8	131.2	168.8	209.8	271.1	273.8	339.3
max	656.4	718.1	738	739.6	731.6	519.8	371.7	382.8	400.9	441.6	420.6	521.2	739.6	739.6
min	134.6	45.5	46.9	34.5	8.2	0.1	0.7	0	0.7	1.6	15.3	74	0	1.6
Initial Spread Index, ISI														
mean	7.9	6.4	5	3.2	1.9	1.1	1.1	1.7	3.9	5.3	7.5	6.5	4.3	5.9
median	5.5	4.7	3.4	2.2	1	0.7	0.8	1.1	2.6	3.4	4.9	4.4	2.1	3.9
max	59.2	46.4	52.8	38.7	28.5	24.6	15.8	29.7	54.2	58.2	51.9	57.1	59.2	59.2
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Buildup Index, BUI														
mean	58.2	67.8	64.1	44.2	15.7	5.9	3.2	6.2	18.1	28.2	43.7	50.7	33.7	51
median	53.1	68.3	59.7	42.1	11.1	3.4	2.4	4.8	14.7	25.8	38.9	46.5	24.1	45
max	196.9	144.9	163.8	123.7	96.9	40.2	22.3	29.9	64.8	78.5	118.1	137	196.9	196.9
min	3.2	4.9	4.6	0	0	0	0	0	0	1.7	5.1	2.8	0	0
Fire Weather Index, FWI														
mean	18.5	17.1	13.7	7.9	2.6	1	0.6	1.4	5.6	9	15.2	14.8	8.9	13.7
median	15.6	14.7	10.7	5.4	0.6	0.2	0.3	0.5	3.1	6	11.8	11.5	3.7	10.2
max	104.5	92	103.1	64.2	37.9	28.5	15	35.3	46	69.9	90.6	67.4	104.5	104.5
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Daily Severity Rating, DSR														
mean	7	5.9	4.4	2	0.4	0.1	0	0.2	1.2	2.4	5.3	5	2.8	4.6
median	3.5	3.2	1.8	0.5	0	0	0	0	0.2	0.6	2.2	2.1	0.3	1.7
max	101.9	81.4	99.6	43.1	16.9	10.2	3.3	14.9	23.8	50.1	79.2	46.9	101.9	101.9
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Monthly Severity Rating, MSR														
mean	224.3	167.5	137.2	59	14.2	3.9	1.4	5.5	35.5	75.7	160.5	147.5	86	138.8
max	595.1	292.7	463.2	172.2	83.7	22	8.5	29	127.6	321.7	562.5	331.1	595.1	595.1
min	20.7	36.9	31	4.2	0.1	0	0	0	7.3	11.6	27.6	39.9	0	4.2
Cumulative Daily Severity Rating, CDSR														
mean													1032.2	968.6
max													1804.9	1917
min													392.1	374.8

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	FIRE SEASON
Forest Fire Danger Class (FFDC) Frequency														
Low														
mean	6.1	5.4	8.6	12.9	26.4	28.8	30.8	29.6	18.5	13.8	7.2	8.6	196.6	62
max	21	16	21	24	31	30	31	31	28	26	19	19	235	91
min	0	0	0	2	9	20	28	21	0	2	0	2	154	35
Moderate														
mean	9.1	9.8	11.9	12.8	3.9	1	0.2	1.3	9.4	11.9	11.8	11.2	94.2	79.2
max	17	20	17	22	17	8	3	10	21	24	24	19	148	101
min	3	2	2	4	0	0	0	0	2	5	3	4	68	50
High														
mean	7	6.6	6.2	3	0.4	0.1	0	0.1	1.4	3.5	5.9	5.3	39.5	37.4
max	19	14	13	10	3	2	0	3	7	8	11	11	60	53
min	0	2	1	0	0	0	0	0	0	0	1	1	22	17
Very High														
mean	3.4	3.3	1.9	0.4	0.2	0	0	0	0.7	1	2.1	2.8	15.8	14.6
max	8	9	6	2	2	0	0	0	6	3	6	9	30	27
min	0	0	0	0	0	0	0	0	0	0	0	0	3	2
Extreme														
mean	3.8	1.9	1.7	0.7	0	0	0	0	0	0.7	2	2.5	13.2	13.1
max	9	9	9	3	1	0	0	0	0	7	10	8	27	37
min	0	0	0	0	0	0	0	0	0	0	0	0	2	3
Very Extreme														
mean	1.7	1.3	0.8	0.3	0	0	0	0	0	0	1	0.8	5.9	5.9
max	9	4	7	2	0	0	0	0	0	1	5	3	19	21
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Grass Fire Danger Class (GFDC) Frequency														
Curing source Canterbury (Hill & high Country)														
Curing%	80	80	70	60	60	50	60	60	70	70	70	80		
Low														
mean	2.2	2.1	3.4	6	11.8	14.1	13.1	9.8	3.5	3.6	2.4	2.8	74.7	22.1
max	7	7	8	19	22	28	26	24	8	8	6	7	93	34
min	0	0	0	0	3	3	5	0	0	0	0	0	51	9
Moderate														
mean	8.8	10.4	18.4	21.8	17.9	15.1	17.6	20.3	20.6	17.5	14	11.6	193.9	102.8
max	19	17	22	28	26	26	26	29	26	25	21	21	229	131
min	0	2	8	11	8	1	5	7	14	10	4	4	152	70
High														
mean	11.8	11.6	6.8	2	1	0.8	0.3	0.9	4.2	7	8.8	10.9	66.2	59
max	23	20	14	5	4	2	2	3	9	14	17	19	89	79
min	3	4	2	0	0	0	0	0	0	3	4	4	52	38
Very High														
mean	4.8	2	1.6	0.2	0.2	0	0	0	1.4	2	3.2	3.4	19.2	17.1
max	9	7	6	2	3	1	0	1	5	6	10	9	30	31
min	0	0	0	0	0	0	0	0	0	0	0	0	10	9
Extreme														
mean	3.1	1.9	0.8	0	0	0	0	0	0.2	0.8	1.6	2.2	10.8	10.7
max	6	4	3	0	0	0	0	0	1	4	6	6	19	20
min	0	0	0	0	0	0	0	0	0	0	0	0	2	0
Very Extreme														
mean	0.3	0.1	0	0	0	0	0	0	0	0	0	0.1	0.6	0.6
max	2	1	0	0	0	0	0	0	0	0	0	1	2	3
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Scrub Fire Danger Class (SFDC) Frequency														
Low														
mean	3.1	2.8	3.8	5.3	10.9	13.7	10.6	7.8	4.2	4.7	3.2	3.7	73.6	26.1
max	10	7	9	16	22	28	23	21	11	9	7	10	99	36
min	0	0	0	0	3	3	3	0	0	0	0	0	53	14
Moderate														
mean	0	0	0	0	0	0	0	0	0	0	0	0	0	0
max	0	0	0	0	0	0	1	0	0	0	0	0	1	0
min	0	0	0	0	0	0	0	0	0	0	0	0	0	0
High														
mean	1.9	1.6	3	4	7.6	8.9	12	10	4.3	4.2	1.9	2.8	62	19
max	6	4	8	8	17	18	22	18	10	8	6	7	80	35
min	0	0	0	1	2	0	2	1	0	0	0	0	40	12
Very High														
mean	1.5	1.9	3.1	5.2	5.2	3.8	5.1	6.4	4.2	3	2.1	2.6	44.2	19.2
max	5	5	7	10	13	9	14	14	10	6	5	9	64	29
min	0	0	0	0	1	0	0	0	0	1	0	0	30	6
Extreme														
mean	5	7.2	9.1	10.2	4.1	2	2.4	4.6	9.8	6.5	5.6	6	72.6	50.3
max	11	15	16	18	11	6	7	11	19	10	10	11	90	68
min	1	2	5	2	0	0	0	0	3	1	1	2	45	33

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	FIRE SEASON
Very Extreme														
mean	19.4	14.8	12.1	5.3	3.2	1.7	0.9	2.1	7.5	12.8	17.2	15.8	112.8	97.5
max	29	24	25	14	11	5	4	5	21	25	28	25	147	137
min	4	6	5	0	0	0	0	0	2	6	8	6	84	60