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Summary of Climatological Observations for C74283 - PUKEKOHE EWS

Period	M/M	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Y/M	Year
Total Rainfall (mm)															
Max 1986-2004	20	229.8	210.2	209.3	196.0	230.2	239.4	287.6	271.6	237.8	174.6	180.6	242.9	7	1681.8
Mean		82.6	71.6	89.5	88.2	119.9	136.1	144.7	139.1	119.6	115.3	104.7	99.7		1283.6
Min		11.0	8.6	11.6	16.2	57.2	87.2	34.0	56.8	48.4	61.6	51.4	31.6		892.2
Rain Days - Number of days with 0.1mm or more (day)															
Max 1986-2004	26	18.0	21.0	20.0	22.0	28.0	29.0	27.0	28.0	26.0	24.0	20.0	24.0	8	235.0
Mean		11.8	11.1	11.8	13.5	18.3	20.0	20.1	21.7	19.1	18.1	16.4	12.9		195.3
Min		7.0	4.0	7.0	6.0	11.0	14.0	9.0	14.0	12.0	9.0	9.0	8.0		158.0
Wet days - Number of days with 1mm or more of rain (day)															
Max 1986-2004	26	13.0	15.0	14.0	19.0	21.0	23.0	23.0	23.0	23.0	17.0	15.0	17.0	8	170.0
Mean		7.8	8.0	8.4	9.3	13.4	15.5	16.0	16.4	14.1	13.3	12.1	9.6		142.4
Min		3.0	2.0	5.0	4.0	7.0	12.0	7.0	7.0	5.0	7.0	8.0	4.0		114.0
Maximum 1-day rainfall - 9am to 9am local time (mm)															
Max 1986-2004	24	145.2	64.0	69.2	65.8	96.4	60.0	43.2	65.6	67.8	47.4	55.6	66.0	8	145.2
Mean		33.4	25.4	31.4	28.5	37.3	31.6	30.2	27.9	27.6	28.2	27.9	30.7		64.8
Min		2.2	3.2	4.4	6.6	9.8	15.0	10.9	11.4	10.8	16.6	11.2	11.8		38.8
Extreme Maximum Air Temperature (Celsius)															
Max 1986-2004	52	28.5	30.5	27.0	26.7	22.9	21.5	19.4	20.0	21.4	23.3	25.0	27.2	13	30.5
Mean		27.2	26.8	25.6	23.5	20.7	18.2	17.1	17.5	19.0	21.6	22.1	25.2		28.3
Min		25.5	24.7	24.0	20.2	19.2	16.6	15.7	15.7	16.6	19.8	19.6	22.2		27.3
Mean Daily Maximum Air Temperature (Celsius)															
Max 1986-2004	26	25.6	26.2	23.6	21.4	18.3	16.3	15.8	15.3	17.7	19.8	20.6	23.1	9	19.8
Mean		23.3	23.8	22.2	19.8	17.2	15.0	14.1	14.5	16.2	17.6	19.0	21.5		18.9
Min		22.2	21.3	20.1	17.3	14.8	14.0	13.3	13.2	14.5	16.3	17.6	20.3		18.0
Lowest Maximum Air Temperature (Celsius)															
Max 1986-2004	61	22.2	22.1	21.1	18.2	16.8	13.2	12.2	12.8	14.3	17.0	17.7	19.2	15	10.4
Mean		19.4	19.8	18.0	15.7	13.6	11.1	10.4	11.4	12.4	14.4	15.7	17.6		9.8
Min		17.4	17.5	15.9	13.5	8.7	9.6	8.5	10.0	10.6	12.5	12.3	16.4		8.7
Highest Daily Mean Temperature (Celsius)															
Max 1986-2004	70	24.3	24.1	23.2	22.4	19.1	17.9	15.3	15.0	17.4	19.5	21.2	22.5	15	24.1
Mean		22.4	22.1	21.0	19.6	17.5	15.5	13.7	14.1	15.7	17.3	18.2	20.7		22.8
Min		21.0	20.4	18.2	16.6	14.3	14.3	12.8	13.0	14.2	15.8	15.8	19.2		22.1
Mean Air Temperature (Celsius)															
Max 1986-2004	30	21.0	21.2	19.5	17.6	14.5	13.3	12.7	11.7	13.6	16.1	16.6	18.7	9	15.8
Mean		18.8	19.2	17.6	15.5	13.5	11.4	10.4	10.7	12.2	13.8	15.1	17.3		14.8
Min		17.8	17.6	15.3	12.7	11.5	10.1	9.2	9.1	10.7	12.3	13.8	16.1		14.1
Lowest Daily Mean Temperature (Celsius)															
Max 1986-2004	70	18.0	17.6	16.9	13.1	12.2	8.8	8.1	8.3	10.2	11.6	13.3	15.7	15	7.3

Mean		14.9	15.7	14.3	11.1	9.7	7.1	6.5	7.3	8.4	10.2	11.9	13.9		6.5	
Min		12.8	12.5	10.8	8.9	6.8	5.7	5.3	5.2	6.6	8.2	10.2	12.5		6.1	
Highest Minimum Air Temperature (Celsius)																
Max	1986-2004	64	20.7	20.8	20.1	20.0	17.4	15.8	13.1	13.7	15.3	17.0	18.8	19.2	13	20.5
Mean			18.9	19.0	17.8	16.9	15.2	13.9	11.5	11.6	13.1	14.7	15.8	18.0		19.8
Min			17.5	17.4	14.7	13.1	12.4	12.9	10.5	10.5	11.9	13.0	12.5	16.9		18.5
Mean Daily Minimum Air Temperature (Celsius)																
Max	1986-2004	28	16.5	16.2	15.5	13.9	10.9	10.5	9.7	8.3	10.0	12.3	12.8	15.4	9	11.8
Mean			14.2	14.6	13.1	11.3	9.8	7.7	6.8	7.0	8.3	10.0	11.1	13.1		10.8
Min			13.0	13.0	10.4	8.1	8.3	6.3	5.2	5.0	6.3	8.1	9.6	12.0		10.2
Extreme Minimum Air Temperature (Celsius)																
Max	1986-2004	57	12.7	11.6	10.5	7.1	7.5	5.2	4.6	3.5	5.0	7.3	7.9	11.7	12	1.5
Mean			8.8	9.6	7.8	5.1	4.0	1.4	1.2	1.6	2.6	4.4	5.9	7.9		0.7
Min			6.6	5.9	4.1	1.6	1.8	-0.3	-0.2	-1.0	0.7	1.8	3.4	6.8		-0.2
Mean Daily Grass Minimum Temperature (Celsius)																
Max	1988-2004	18	14.3	14.3	12.7	10.5	8.7	7.9	7.8	5.4	7.4	11.7	10.6	14.1	10	8.3
Mean			11.9	12.0	10.3	8.1	7.1	4.9	3.7	3.8	5.4	7.5	8.4	10.9		7.9
Min			10.6	10.4	7.1	4.3	5.5	2.8	1.4	1.6	2.4	3.9	6.5	9.0		7.5
Extreme Grass Minimum Temperature (Celsius)																
Max	1988-2004	43	9.2	8.7	7.6	2.6	2.7	0.7	0.3	-0.5	1.5	3.6	4.0	7.9	13	-3.1
Mean			5.7	6.0	3.9	0.6	0.1	-2.6	-3.0	-2.4	-1.5	-0.1	1.8	4.7		-4.5
Min			2.4	0.6	0.1	-2.9	-2.2	-5.4	-5.0	-5.1	-3.3	-2.9	-1.4	2.8		-5.4
Mean 10cm Earth Temperature (Celsius)																
Max	1986-2004	20	22.0	22.0	19.8	17.3	14.2	12.5	12.3	12.2	14.3	15.2	17.7	20.4	8	16.1
Mean			20.4	20.3	18.2	15.4	12.8	10.3	9.1	9.9	12.0	14.1	16.2	19.1		15.0
Min			19.1	18.4	16.3	12.8	10.7	8.3	6.6	8.9	10.1	12.5	13.6	17.6		13.9
Mean 20cm Earth Temperature (Celsius)																
Max	1986-2004	21	22.7	23.2	20.7	18.4	15.0	13.4	12.7	11.8	13.5	16.1	18.4	20.7	8	16.8
Mean			21.2	21.4	19.4	16.6	14.0	11.5	10.3	10.7	12.6	15.0	17.1	19.7		15.9
Min			20.3	19.9	17.9	14.5	12.2	9.1	8.7	8.4	10.8	13.5	15.9	18.5		15.3
Mean 30cm Earth Temperature (Celsius)																
Max	1986-1996	26	22.7	22.9	21.3	18.9	16.2	13.3	12.0	12.3	13.9	16.6	19.1	21.7	9	16.2
Mean			21.3	21.6	19.6	17.1	14.4	11.7	10.6	10.9	12.6	15.0	17.4	19.8		15.9
Min			20.4	20.0	18.2	15.0	12.8	10.4	9.8	9.5	11.0	13.9	16.0	18.7		15.5
Mean 50cm Earth Temperature (Celsius)																
Max	1986-2002	29	24.7	25.0	24.1	22.4	20.5	16.0	14.0	13.7	14.9	19.3	21.3	23.5	11	17.3
Mean			21.0	21.6	20.4	18.2	15.9	13.5	11.9	12.1	13.3	15.3	17.2	19.4		16.5
Min			19.8	20.1	18.9	16.2	14.0	11.8	10.9	11.0	12.5	13.8	14.1	18.0		16.0
Mean 100cm Earth Temperature (Celsius)																
Max	1986-2004	23	21.0	22.3	22.2	21.5	19.7	18.2	16.3	15.4	16.1	15.7	17.5	18.9	9	18.7
Mean			19.1	20.0	19.9	18.5	16.9	15.1	13.5	13.0	13.3	14.4	16.0	17.6		16.7
Min			18.2	18.8	18.7	17.0	15.3	13.5	12.2	11.8	11.7	13.2	15.2	16.6		15.8

Days of occurrence: Ground Frost (day)																
Max	1988-2004	44	0.0	0.0	0.0	1.0	3.0	8.0	9.0	9.0	4.0	6.0	1.0	0.0	13	30.0
Mean			0.0	0.0	0.0	0.1	0.5	3.9	5.4	2.8	1.5	0.7	0.1	0.0		19.8
Min			0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		15.0
Days of occurrence: Screen Frost (day)																
Max	1986-2004	58	0.0	0.0	0.0	0.0	0.0	1.0	1.0	1.0	0.0	0.0	0.0	0.0	13	1.0
Mean			0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.0	0.0	0.0	0.0		0.2
Min			0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0.0
Mean of 9am Relative Humidity (percent)																
Max	1986-2004	33	86.9	89.2	88.7	91.5	93.6	94.8	95.5	91.8	88.7	88.1	86.0	89.2	11	87.2
Mean			80.1	84.0	83.1	84.3	87.1	89.8	88.7	86.9	83.8	82.4	79.1	79.2		84.6
Min			68.2	77.1	74.9	78.5	78.9	81.5	80.6	82.0	78.2	74.8	70.3	69.3		80.0
Mean Vapour Pressure (hPa)																
Max	1986-2004	33	20.0	21.3	19.2	17.4	14.9	13.7	13.4	12.6	13.9	15.7	15.8	18.8	11	15.7
Mean			17.5	18.1	16.6	15.0	13.3	11.8	10.7	11.3	12.4	13.3	13.9	16.1		14.5
Min			15.3	16.1	14.4	12.2	11.4	10.5	8.8	9.9	10.7	11.8	11.6	14.4		14.0
Mean Daily Global Radiation (MJ/sq m)																
Max	1986-2004	22	22.6	22.0	18.2	12.5	8.7	7.3	9.2	10.5	15.1	18.3	20.8	23.2	7	14.7
Mean			20.7	18.5	15.5	10.9	7.7	6.3	7.0	9.4	12.4	16.1	18.9	20.6		13.8
Min			17.8	14.8	13.7	9.4	6.6	4.8	5.7	8.3	10.5	13.0	16.0	18.2		12.8
Highest Daily Wind Run (km)																
Max	1986-2004	56	576.0	604.0	417.0	439.0	476.0	586.0	579.0	530.0	569.0	619.0	526.0	513.0	15	604.0
Mean			390.2	380.9	369.5	346.2	400.9	404.8	394.8	412.7	442.5	464.0	427.6	427.5		548.5
Min			244.0	246.0	250.0	217.0	324.0	293.0	236.0	319.0	318.0	324.0	340.0	344.0		470.0
Mean Daily Wind Run (km)																
Max	1986-2004	60	262.6	289.4	238.6	200.4	252.6	283.8	230.9	243.8	301.8	309.4	297.4	254.3	15	234.9
Mean			197.7	175.6	183.6	159.1	182.8	183.9	174.2	193.2	205.4	236.3	228.0	212.0		215.6
Min			121.2	118.9	134.9	103.5	93.5	136.1	79.2	128.3	141.0	174.1	174.7	174.5		183.5
Mean Wind Speed (m/sec)																
Max	1986-2004	18	3.1	3.4	2.8	3.0	2.9	3.3	2.8	2.9	3.5	3.6	3.4	3.1	7	2.7
Mean			2.3	2.2	2.2	2.0	2.1	2.1	2.2	2.3	2.5	2.8	2.7	2.5		2.3
Min			1.8	1.4	1.6	1.4	1.2	1.2	1.0	1.7	1.7	2.0	2.1	2.0		1.9
Days of Wind Gust >= 24 knots (day)																
Max	1986-2004	75	11.0	18.0	7.0	8.0	16.0	17.0	15.0	15.0	16.0	20.0	14.0	10.0	15	123.0
Mean			4.8	4.2	4.1	4.6	7.5	8.1	7.6	7.8	7.6	10.8	8.8	5.4		89.5
Min			1.0	1.0	0.0	2.0	2.0	1.0	1.0	2.0	3.0	1.0	3.0	2.0		67.0
Days of Wind Gusts >= 33 knots (day)																
Max	1986-2004	52	1.0	7.0	1.0	1.0	5.0	5.0	4.0	5.0	7.0	4.0	2.0	1.0	15	25.0
Mean			0.3	0.7	0.1	0.2	0.8	1.0	1.6	1.1	1.5	1.1	0.5	0.1		13.8
Min			0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		5.0
Days of wind Gusts >= 51 knots (day)																
Max	1986-2004	52	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15	0.0

Mean			0.0	0.0	0.0	0.0	0.0	0.0	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	0.0	0.0	0.0	0.0	0.0	0.0	
Wind-Gust - Highest Speed (m/sec)																
Max	1986-2004	75	21.6	24.2	18.0	21.6	21.1	21.1	21.6	20.6	21.6	24.7	21.6	17.0	15	21.6
Mean			15.4	16.2	14.9	15.8	16.4	16.4	17.7	17.4	17.9	17.1	17.0	15.5		21.0
Min			12.4	12.4	11.8	13.9	12.4	12.4	12.4	14.4	12.9	12.4	14.9	13.4		19.6
Maximum 10-minute Rainfall (mm)																
Max	2000-2004	11	8.2	6.1	4.1	3.3	7.7	7.6	4.0	3.5	6.6	8.9	6.7	6.1	2	8.9
Mean			5.1	4.1	2.6	2.4	5.7	3.8	3.1	3.1	2.6	4.5	4.8	5.1		7.6
Min			2.0	2.9	1.8	1.5	4.0	0.2	1.9	2.4	0.2	1.9	1.4	4.0		6.1
Maximum 20-minute Rainfall (mm)																
Max	2000-2004	11	11.7	8.3	5.9	5.2	11.0	8.7	5.7	4.8	8.9	13.3	11.6	11.4	2	13.3
Mean			7.1	5.5	3.8	3.5	7.3	4.8	4.4	4.1	3.7	6.9	6.4	8.4		12.1
Min			2.8	3.8	1.8	2.3	4.1	0.4	2.8	3.2	0.2	2.6	1.4	4.4		11.2
Maximum 30-minute Rainfall (mm)																
Max	2000-2004	11	15.9	10.3	7.6	6.2	14.3	11.8	6.5	6.7	10.7	13.7	15.9	14.5	2	15.9
Mean			8.8	7.0	4.8	4.3	8.7	6.0	5.4	5.2	4.5	8.1	8.5	10.0		14.9
Min			3.0	3.8	1.8	2.7	4.2	0.5	3.3	3.7	0.3	3.0	1.4	4.7		14.3
Maximum 1-hour Rainfall (mm)																
Max	2000-2004	11	19.5	16.4	9.4	9.2	21.5	14.9	7.4	13.0	13.8	13.8	22.4	18.4	2	21.5
Mean			10.5	9.8	7.0	6.0	12.2	8.5	6.4	8.2	6.6	10.1	11.7	12.5		19.8
Min			3.9	4.0	2.9	3.2	5.2	0.9	4.1	4.1	0.3	5.2	1.5	6.5		18.4
Maximum 2-hour Rainfall (mm)																
Max	2000-2004	11	35.7	28.4	13.3	12.9	33.7	16.5	12.1	20.4	15.4	19.5	25.0	20.9	2	35.7
Mean			16.2	15.5	9.9	8.0	16.9	11.0	8.6	12.2	9.1	12.3	15.0	14.6		30.1
Min			5.3	6.9	3.4	3.7	5.6	1.7	5.8	4.3	0.3	7.1	2.2	7.1		20.9
Maximum 6-hour Rainfall (mm)																
Max	2000-2004	11	39.7	42.8	24.8	28.9	48.1	29.2	18.7	27.0	26.2	29.4	35.6	30.4	2	48.1
Mean			21.6	22.1	17.0	14.0	25.8	17.9	11.9	18.9	16.3	18.3	18.8	21.6		39.4
Min			7.8	8.9	4.1	4.2	12.3	5.0	8.1	7.0	0.5	10.7	3.2	12.2		30.4
Maximum 12-hour Rainfall (mm)																
Max	2000-2004	11	42.8	56.0	28.2	43.8	55.8	41.0	22.4	28.1	29.4	29.6	36.4	35.6	2	55.8
Mean			23.5	28.3	20.7	18.9	32.4	23.8	14.8	21.6	18.5	23.4	21.1	25.7		44.7
Min			8.7	9.9	4.3	4.2	14.3	10.0	9.7	12.6	0.6	15.9	3.5	12.8		35.6
Maximum 24-hour Rainfall (mm)																
Max	2000-2004	11	49.6	63.3	43.4	52.0	59.1	43.8	36.3	37.1	34.2	31.0	56.4	43.3	2	59.1
Mean			26.1	35.2	25.9	23.2	38.6	27.2	19.4	26.1	20.0	26.1	29.8	30.5		50.7
Min			8.7	10.0	4.3	6.7	16.7	12.3	10.2	16.4	0.7	18.1	3.9	17.8		43.3
Maximum 48-hour Rainfall (mm)																
Max	2000-2004	11	56.7	90.3	45.9	55.6	59.5	44.2	44.1	38.9	50.5	37.9	59.2	50.5	2	59.5
Mean			31.0	44.1	27.9	25.5	45.0	30.7	24.7	31.7	24.8	31.9	36.1	35.3		55.6
Min			10.1	10.9	5.3	8.9	27.6	13.7	10.2	23.6	0.7	20.5	7.8	17.8		50.5

Maximum 72-hour Rainfall (mm)																
Max	2000-2004	11	60.1	92.7	46.1	55.8	65.3	46.4	57.4	38.9	51.8	38.1	60.0	51.6	2	65.3
Mean			32.8	46.3	27.9	25.9	50.8	33.2	28.9	32.4	25.4	34.2	37.3	37.6		59.0
Min			12.2	14.2	5.3	9.8	33.2	14.1	10.4	25.2	0.7	28.8	7.8	23.0		51.6

M/M = Total number of months missing during the given period
Y/M = Total number of years missing during the given period