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Summary of Climatological Observations for E05368 - PALMERSTON NORTH AWS

Period	M/M	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Y/M	Year
Total Rainfall (mm)															
Max 1991-2004	12	121.6	270.8	113.6	124.4	119.6	162.8	148.8	126.0	148.6	198.4	173.8	175.4	3	1080.0
Mean		57.0	76.1	56.7	67.2	78.8	94.4	81.9	70.8	80.9	89.4	87.3	88.0		901.6
Min		21.2	13.8	26.6	22.8	26.6	39.4	11.0	19.8	12.2	28.0	47.6	34.8		686.6
Rain Days - Number of days with 0.1mm or more (day)															
Max 1991-2004	13	14.0	21.0	17.0	19.0	21.0	23.0	27.0	25.0	24.0	20.0	20.0	22.0	3	197.0
Mean		9.9	9.8	11.7	11.8	15.2	16.8	17.7	17.1	16.4	15.1	15.0	14.2		166.5
Min		6.0	3.0	7.0	5.0	10.0	10.0	4.0	12.0	8.0	10.0	7.0	9.0		151.0
Wet days - Number of days with 1mm or more of rain (day)															
Max 1991-2004	13	10.0	18.0	13.0	15.0	14.0	16.0	20.0	20.0	19.0	17.0	14.0	19.0	3	144.0
Mean		7.1	7.3	7.8	7.8	10.2	12.2	12.2	12.1	12.0	11.1	11.4	10.8		118.7
Min		5.0	2.0	3.0	4.0	7.0	8.0	2.0	5.0	4.0	6.0	7.0	7.0		103.0
Maximum 1-day rainfall - 9am to 9am local time (mm)															
Max 1991-2004	12	50.2	79.6	28.0	48.4	46.8	58.8	27.8	30.0	37.0	52.0	40.6	41.6	3	58.8
Mean		23.9	29.1	17.7	24.2	23.9	24.1	16.8	16.2	18.0	25.3	22.8	22.3		42.0
Min		7.0	6.0	12.0	7.8	8.2	13.6	8.4	8.0	4.2	14.0	11.2	8.4		24.0
Extreme Maximum Air Temperature (Celsius)															
Max 1991-2004	17	30.5	29.8	29.2	25.7	23.6	19.1	19.3	17.5	22.0	25.4	28.2	29.9	5	30.5
Mean		27.4	27.7	26.8	23.6	20.2	17.5	16.3	16.5	18.9	22.1	23.0	26.2		29.1
Min		23.1	24.6	24.0	19.1	18.5	14.9	14.8	15.3	15.5	19.0	19.6	24.1		27.4
Mean Daily Maximum Air Temperature (Celsius)															
Max 1991-2004	13	26.1	25.4	24.4	20.0	17.0	14.9	14.5	14.2	16.5	18.4	19.5	22.5	3	18.9
Mean		22.9	23.3	21.3	18.4	15.9	13.4	12.6	13.1	15.0	16.8	17.8	20.9		17.8
Min		20.1	20.6	18.9	15.6	12.8	12.1	11.5	12.0	13.2	15.4	16.5	19.4		16.6
Lowest Maximum Air Temperature (Celsius)															
Max 1991-2004	20	18.7	19.2	19.7	15.5	14.9	11.1	11.2	10.4	13.2	13.5	15.4	17.0	6	9.4
Mean		16.7	17.3	16.0	13.2	11.5	9.4	8.7	9.2	10.7	12.0	13.4	16.0		7.9
Min		15.2	14.6	14.0	11.2	8.8	7.5	4.9	7.6	8.0	9.8	10.7	13.8		4.9
Highest Daily Mean Temperature (Celsius)															
Max 1991-2004	22	23.5	24.1	23.1	21.5	18.3	15.2	14.6	14.0	16.8	18.0	20.3	23.0	8	24.1
Mean		21.5	22.3	20.9	18.4	15.8	13.6	12.7	12.8	14.5	16.5	17.2	20.9		22.9
Min		20.1	20.6	19.0	15.8	13.3	11.1	11.5	11.2	12.3	14.7	14.7	18.5		22.2
Mean Air Temperature (Celsius)															
Max 1991-2004	13	20.4	20.3	19.1	15.6	12.5	11.1	10.8	9.8	12.1	14.0	15.1	17.7	3	14.0
Mean		17.6	18.0	16.2	13.5	11.4	9.3	8.5	8.9	10.7	12.5	13.5	16.2		13.2
Min		15.5	15.9	13.8	10.5	8.9	8.0	6.8	8.0	9.3	11.1	12.0	14.9		12.0
Lowest Daily Mean Temperature (Celsius)															
Max 1991-2004	22	13.4	16.0	14.3	9.9	9.0	5.8	5.8	6.4	8.2	10.4	11.7	13.8	8	4.6

Mean		11.5	13.3	11.5	8.1	6.4	4.4	4.1	4.9	6.3	7.7	9.2	12.1		3.9	
Min		9.8	10.0	8.0	5.4	3.4	2.8	2.6	3.6	4.8	5.6	7.5	8.6		2.6	
Highest Minimum Air Temperature (Celsius)																
Max	1991-2004	22	19.7	19.4	19.0	17.2	15.6	13.0	12.2	11.9	12.6	16.0	16.0	18.4	8	19.7
Mean			17.3	17.8	16.0	15.2	13.4	11.4	10.6	10.4	11.3	13.5	13.5	17.0		18.6
Min			15.8	16.5	13.4	12.7	10.4	9.6	8.6	8.6	9.8	11.8	11.5	15.3		18.0
Mean Daily Minimum Air Temperature (Celsius)																
Max	1991-2004	13	14.7	15.1	14.1	11.6	8.8	7.4	7.0	5.8	7.7	10.1	10.6	13.9	3	9.4
Mean			12.3	12.7	11.0	8.6	7.0	5.1	4.4	4.7	6.5	8.2	9.1	11.6		8.5
Min			10.8	10.6	8.7	5.5	5.0	3.3	2.0	3.5	5.2	6.8	6.9	10.3		7.4
Extreme Minimum Air Temperature (Celsius)																
Max	1991-2004	19	6.2	9.1	10.4	2.0	2.4	-0.3	-0.1	0.5	2.6	4.5	5.1	9.3	7	-1.0
Mean			4.0	5.2	3.9	0.3	-0.5	-2.1	-2.6	-1.8	-0.5	0.9	2.0	5.6		-3.1
Min			2.3	0.8	0.8	-3.6	-3.4	-5.8	-5.1	-3.4	-2.4	-1.6	-0.1	2.0		-5.1
Days of occurrence: Screen Frost (day)																
Max	1991-2004	20	0.0	0.0	0.0	3.0	3.0	9.0	13.0	8.0	4.0	2.0	1.0	0.0	8	25.0
Mean			0.0	0.0	0.0	0.5	1.2	4.2	5.1	4.0	1.4	0.5	0.1	0.0		16.8
Min			0.0	0.0	0.0	0.0	0.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0		6.0
Mean of 9am Relative Humidity (percent)																
Max	1991-2004	13	81.2	82.1	83.8	86.4	88.5	89.3	89.6	87.8	84.7	82.8	81.5	82.4	2	82.2
Mean			74.1	76.8	78.9	80.7	84.9	86.3	86.3	83.7	78.8	79.7	76.1	75.7		80.0
Min			56.6	68.7	74.3	76.5	79.3	82.9	82.3	79.2	74.3	74.5	70.7	58.9		78.5
Mean Vapour Pressure (hPa)																
Max	1991-2004	13	16.8	18.0	16.0	14.5	12.3	11.3	10.7	10.1	11.7	12.6	13.5	15.6	2	12.8
Mean			14.6	14.9	13.9	12.6	11.3	9.8	9.2	9.4	10.5	11.6	11.9	13.9		12.0
Min			11.7	13.4	12.3	10.6	9.6	8.8	8.1	8.8	9.3	9.9	10.6	11.6		11.4
Mean Daily Global Radiation (MJ/sq m)																
Max	1991-2004	11	24.2	21.9	17.7	11.6	7.4	6.1	7.2	9.7	13.7	16.7	22.0	22.7	2	14.0
Mean			22.0	19.1	15.1	10.2	6.8	5.2	6.1	8.4	11.8	15.5	18.8	20.5		13.3
Min			19.8	15.8	12.9	9.2	5.7	4.5	4.8	6.9	10.7	12.8	16.7	16.0		11.6
Highest Daily Wind Run (km)																
Max	1991-2004	48	861.0	1041.0	876.0	857.0	846.0	858.0	843.0	951.0	949.0	1005.0	1106.0	849.0	13	861.0
Mean			748.2	709.9	691.2	654.8	735.4	731.1	659.1	732.3	728.6	764.1	830.1	749.4		861.0
Min			658.0	563.0	534.0	529.0	558.0	593.0	461.0	610.0	615.0	574.0	602.0	648.0		861.0
Mean Daily Wind Run (km)																
Max	1991-2004	48	476.8	466.8	432.3	374.6	435.8	422.9	447.2	398.3	431.4	455.3	619.9	436.3	13	352.7
Mean			384.4	379.6	362.4	313.5	342.7	329.6	337.6	338.3	377.6	381.1	438.8	394.4		352.7
Min			287.4	315.2	296.6	254.5	280.5	265.6	257.1	277.1	299.4	306.6	343.3	337.7		352.7
Mean Wind Speed (m/sec)																
Max	1991-2004	13	5.4	5.4	4.9	4.4	5.1	5.0	5.1	4.6	5.0	6.3	7.1	5.1	2	4.6
Mean			4.4	4.4	4.2	3.7	3.9	3.9	3.8	4.0	4.4	4.7	5.2	4.5		4.2
Min			3.4	3.7	3.4	2.9	3.3	3.1	3.0	3.2	3.5	3.6	4.0	3.8		3.8

Days of Wind Gust >= 24 knots (day)																
Max	1991-2004	34	21.0	20.0	20.0	15.0	20.0	20.0	18.0	17.0	22.0	26.0	27.0	22.0	11	192.0
Mean			15.6	14.4	14.2	10.5	13.2	11.4	12.6	12.5	15.4	17.8	18.7	16.4		185.0
Min			10.0	7.0	10.0	5.0	7.0	5.0	3.0	8.0	9.0	11.0	13.0	11.0		179.0
Days of Wind Gusts >= 33 knots (day)																
Max	1991-2004	34	11.0	12.0	8.0	5.0	12.0	8.0	8.0	8.0	10.0	15.0	17.0	9.0	11	72.0
Mean			5.3	2.8	3.8	2.3	3.8	3.9	2.9	3.5	4.6	7.3	7.5	4.5		62.3
Min			2.0	0.0	1.0	1.0	1.0	1.0	0.0	1.0	1.0	2.0	1.0	1.0		57.0
Days of wind Gusts >= 51 knots (day)																
Max	1991-2004	34	0.0	1.0	0.0	0.0	1.0	0.0	0.0	0.0	1.0	1.0	1.0	1.0	11	1.0
Mean			0.0	0.1	0.0	0.0	0.2	0.0	0.0	0.0	0.1	0.1	0.2	0.1		0.7
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	1991-2004	34	25.2	30.4	23.7	21.6	26.8	25.7	24.7	22.1	26.8	26.8	26.3	26.3	11	26.8
Mean			21.7	20.2	20.2	19.5	22.5	21.7	19.2	20.3	20.8	22.4	22.6	22.6		26.3
Min			20.1	14.9	17.5	17.0	18.5	18.0	14.9	18.0	17.0	18.5	17.0	18.5		25.7
Mean MSL Pressure at 9am (hPa)																
Max	1991-2004	11	1021.9	1022.5	1022.4	1023.2	1023.1	1020.1	1027.7	1021.2	1023.9	1021.2	1016.4	1016.9	2	1018.3
Mean			1015.8	1016.4	1016.9	1019.2	1016.5	1015.1	1015.9	1014.4	1014.8	1014.1	1012.5	1013.9		1015.6
Min			1012.2	1006.6	1013.1	1015.9	1010.3	1008.2	1003.6	1003.5	1005.5	1010.7	1005.9	1008.2		1013.3

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