

BLAND — OF KING STREET. DANDENONG.

RAINFALL CHARTS FOR - 1973-1974-1983



DATE	JAN.	FEB.	MAR.	APRIL	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.	DATE
	CMS POINTS	CMS POINTS	CMS POINTS	CMS POINTS	CMS POINTS	CMS POINTS	CMS POINTS	CMS POINTS	CMS POINTS	CMS POINTS	CMS POINTS	CMS POINTS	
1				6		13		6					1
2													2
3			15	18	188				20			4	3
4			4	44	4				8		4		4
5							40		10	16			5
6			28	83					16	160			6
7			4			5		51	10	14			7
8				29		26			4	26			8
9						22	3		16	26			9
10					11	15	2	26	12				10
11					45	16		30	70	60			11
12					25			19	5	28			12
13			15		10	10		30		24		24	13
14		29	12			5			44	21			14
15						14				46			15
16		22					37	13					16
17												14	17
18				83			32	19	6			19	18
19									6			6	19
20	1							9	5	13			20
21	166			5				24	17				21
22				22			4						22
23							17	3				6	23
24		58	46		4					59			24
25		32	5								48		25
26		83	4			12			26				26
27		8		4	84	6	4	102					27
28					24		2	31	60				28
29						10			32				29
30					19				24	11			30
31								49					31
Totals									357				
No. of Days													
Totals	Since Jan. 1	2 Months	3 Months	4 Months	5 Months	6 Months	7 Months	8 Months	9 Months	10 Months	11 Months	Year	
	167	232	133	286	365	144	141	409	339	498	102	82	
Average all Years	JAN.	FEB.	MAR.	APRIL	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.	YEAR

The rain should be entered on the day it is measured — In N.Z. enter against previous day.  
(100 points equal 1 inch.)

## How to Mount a Rain Gauge and Take Rainfall Observations

THE site selected for a rain gauge should, if possible, be an open one, unobstructed by high trees or fences, on level ground, not on a slope or terrace.

For accuracy the "MARQUIS" Rain Gauge should be secured to a post by mounting the enclosed bracket in a true vertical position as near to ground level as possible, or at the lowest safe height.

The post on which the "MARQUIS" Rain Gauge is fixed should be twice as far away from obstructions as the height of surrounding buildings or trees.

Wind is the most serious disturbing influence. Driving rain will fail to reach the opening of the gauge if it is placed too close to buildings or trees. On the other hand, if the gauge is in a very open position the wind blowing against the gauge causes eddies, which

occasionally carry away considerable quantities of rain. As much as 20 per cent. has been known to be lost at times.

Rainfall should be measured at 9 a.m. daily and the amount entered against the date on which it is measured. In N.Z. it is entered against the date of the previous day.

The gauge should be examined immediately on the cessation of heavy rain, the amount and the time of commencement and cessation noticed and the water returned to the gauge so as not to interfere with the next morning's reading.

Best results are obtained by installing the "MARQUIS" Rain Gauge in pairs and spacing them about twenty feet apart. The effects of strong wind are thus reduced and more accurate readings may be obtained from the average of such pairs.

### INSTRUCTIONS FOR USE \*

#### MS70 MARQUIS "600" RAIN GAUGE

(1) Remove the gauge from the bracket and take the reading of the water level by holding it opposite the eye with the back in a vertical position.

(2) The MARQUIS "600" Rain Gauge holds 600 points  $\equiv$  6.00 inches or 15.2 cms and is marked as follows, reading upwards from the bottom on inch scale:

From 0 — .20 (20 Points) in one point graduations or .01 in.  
 " .20 — 1.00 (100 Points or 1 inch) in two point graduations or .02 inch.  
 " 1.00 — 6.00 (600 Points or 6 inches) in five point graduations or .05 inch.

Thus, (a) If the water is one mark above .10 the reading is 11 points (.10 + .01).

(b) If the water is one mark above .20 the reading is 22 points (.20 + .02).

(c) If the water is one mark above 1.25 the reading is 130 points (1.25 + .05) and so on.

(3) Empty the gauge and replace in the bracket, recording the reading on this chart, or in a suitably ruled book.

#### MS102 MARQUIS "1000" PROFESSIONAL RAIN GAUGE

By reason of the greater ratio of catchment area to calibrated measure the MARQUIS "1000" Professional Rain Gauge is an even more accurate instrument and has a capacity of over ten inches  $\equiv$  1000 points, or 25 cms of rain.

(1) Remove catchment funnel and lift out the measure which holds 100 points  $\equiv$  1 inch, and is graduated in 1/100" (.01") or 1 point of rain.

(2) If this is less than 1 inch (1.00) take the reading by holding it upright or setting it on a level slab, then bringing the eye opposite the water level so as to fix the nearest line on the scale to the water surface, e.g. If this is just above the mark .40 then the reading is 40 points of rainfall.

(3) If there is more water in the outer gauge than can be measured at once, the water is to be carefully poured up to the 100 point mark on the inner measure as often as necessary, counting the number of times and finally measuring the residue as points. e.g. 3 measures (including first)  $\equiv$  3 ins. or 300 points + 40 points residue  $\equiv$  340 points.

(4) Should it be necessary the water may be emptied into a separate container so that it can be re-checked.

(5) Replace empty measure in gauge, locate catchment funnel, replace gauge in bracket and record rainfall in points or cms on this chart or in a suitable ruled book.

#### CARE:

Clean the Measure with mild soap or detergent and water. DO NOT USE SOLVENTS OR ABRASIVES. An ordinary bottle brush is useful in cleaning any collection of dust at the bottom.

\* The instructions for both the Marquis "600" and the Marquis "1000" as noted above refer exclusively to the inch measure. For centimetre readings merely read directly the figure as shown on the measure. No alterations are necessary. Note that when recording in cms transversion into points is not advisable. Points have their equivalents only in inches.

MANUFACTURED BY:

# MARQUIS PLASTICS

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1973

DATE	JAN	FEB	MAR	APRIL	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	DATE
1			.10	.02			.01	.27		.03			1
2			.06		.19				.21				2
3			.05		.73			.05	.02		.03	.05	3
4		.29			.10		.16						4
5		1.56	.03			.23	.01	.40	.28		.02		5
6		3.21				.11		.20	.09				6
7		.29	.08	.07		.32	.01	.04	.10				7
8		.01	.05				.02	.02					8
9								.04		.47			9
10	.04				.09	.34	.01	.02	.19	.01	.10		10
11						.18			.12				11
12					.01	.01	.69		.23		.35		12
13	.95				.05		.01	.04	.16		.36		13
14	.04		.42						.14		.22		14
15	.03		.03		.44	.59	.02	.11	.03	.01	.01	.16	15
16				.04	.07		.33					1.22	16
17				.38	.22		.09	.12					17
18			.08	.30	.02		.16	.42		.31			18
19		.87	.60	.46	.10	.01	.05	.24	.24	.07			19
20		.61		.20		.01		.05	.09	1.23	.16		20
21		.85		.09		.37	.11			.23		.03	21
22				.17		.30	.08		.02	.01		.57	22
23				.06	.15	.01	.02					.19	23
24				.01	.42	.09	.01	.02	.11				24
25					.02	.18			.01			.4	25
26	.02			.06	.32	.16	.19	.12	.34				26
27				.20			.20	.19	.05	.38			27
28		.58	.59		.02		.01	.68		.41	.08		28
29			.23		.18		.01	.06		.37	.64		29
30			1.00		.16	.08		.12		.03	.02	.2	30
31	1.32		.24					.01		.09		.6	31
TOTAL	2.40	8.27	3.56	2.06	3.29	2.99	2.20	3.10	2.43	3.65	1.99	2.34	TOTAL

10.67 14.03 16.09 19.38 22.37 24.57 27.67 30.10 33.75 35.74 38.08



# RAINFALL REGISTRATION CHART

Date	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Date
	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	
1						18	19	11				60	1
2	60.				16	10	38	14					2
3					58		6	10	64				3
4					18				22		22		4
5	5		7	56	19				27				5
6				20			25		18			13	6
7				4			62					10	7
8					15	50			30		23		8
9			50		4			25	27		36		9
10				7	10	41	12		33		14		10
11	10			20								4	11
12	5			18		50							12
13	40		5	8		31			45				13
14	36			6					40	157			14
15				10	57	8			4	132			15
16	5				44	6				10	17		16
17				1				160	14	33	186		17
18				<del>12</del>				15					18
19											11		19
20										22			20
21			18					29	38	25			21
22		20	55				55						22
23			10	69				12					23
24			82										24
25			18		22	23			10				25
26				17		45		26			75		26
27	40				6			19					27
28			8		10	30	56						28
29					23		8	15	20		53		29
30					62	49	27	17		16	90		30
31					24						74		31
Totals		20											
No. of days													
Cumulative Totals	Since Jan 1st	2 mths	3 mths	4 mths	5 mths	6 mths	7 mths	8 mths	9 mths	10 mths	11 mths	year	
Annual Average	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	



# RAINFALL REGISTRATION CHART

1984

Date	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Date
mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
1	22	4	4			62	16						1
2	61							14	26		14		2
3	9						3		68			42	3
4					53		22	27	16	110		12	4
5					30					4		28	5
6													6
7	9	1				9	18						7
8													8
9										17			9
10							7	56					10
11			3					40	17		60		11
12					20		30	4	15		24	28	12
13							13				140		13
14			95										14
15			12				41						15
16	64											142	16
17				60		12		10	44	30		45	17
18				30				14	64	56			18
19						9	40	10	16	27			19
20			51				3	40	67	4		196	20
21		82		106				40	21				21
22								30	50		10		22
23					11		2				40		23
24	20			30	26		10	30			53		24
25	7			9		12		15	13				25
26	63							27	10			12	26
27								25					27
28		50	114	16				25	25		14		28
29		11	27			34	51	16	41				29
30	15				3	6	+						30
31	6						18						31
Totals	270												
No. of days													
Cumulative Totals	Since Jan 1st	2 mths	3 mths	4 mths	5 mths	6 mths	7 mths	8 mths	9 mths	10 mths	11 mths	year	
Annual Average	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	

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# RAINFALL REGISTRATION CHART

Date	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Date
mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	
1				28		50				33			1
2						18			12				2
3			11			24	16		4	100		9	3
4						27	42		8	14	35		4
5		60		3		2	66				36		5
6				64			9						6
7							15						7
8							8						8
9							64					11	9
10			100			15							10
11			100			41	18				57		11
12			18			4	7					32	12
13					193						73	63	13
14			127			48					16	40	14
15						18							15
16						14			8		10		16
17			11		26		18	136			34		17
18								85			12		18
19	110						34	28					19
20								14		17			20
21			52							16			21
22		6			20		47	80					22
23						43	18	29					23
24								34			55		24
25					7	4				32	12		25
26					54			54		38			26
27	30				185	20	20			60			27
28	47		31		3	14		28		11			28
29	5				18	14	91	41				14	29
30			10		31	11	4	10					30
31			27		3								31
Totals								4					
No. of days													
Cumulative Totals	Since Jan 1st	2 mths	3 mths	4 mths	5 mths	6 mths	7 mths	8 mths	9 mths	10 mths	11 mths	year	
	192	66	429	95	440	409	447	458	32		360		
Annual Average	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	



# RAINFALL REGISTRATION CHART

Date	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Date
mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	
1	6			4	2	7			18				1
2	2					32	31	13	16				2
3	56						12		5		31	12	3
4	7					19	95	20				89	4
5		13				16	16				14	5	5
6				6			3			11	20		6
7				15	154		4	14		71	20		7
8			39		81		70	13		3	20		8
9		10				3	6		33	5			9
10	10					14			17				10
11					16	14				74			11
12	58				8	8			13	90			12
13	22				40			28				4	13
14			13					70				78	14
15	5								23			21	15
16			7	13	13		4		10			38	16
17	12			3	40	40	7					12	17
18					15		23		15				18
19				4						13	52		19
20	12			14	14	8			23	30			20
21		4			4	4	44	52		32			21
22	3	7					13						22
23				138	134								23
24				106	106					67			24
25	12			4				11	5				25
26	11							17					26
27	12		4	5			10					16	27
28						60	14			83			28
29			12	5	33	96				4	20	21	29
30				65	10	59				6			30
31										16			31
Totals	214	34	82	40	468					50.5	187	285	
No. of days				360	360								
Cumulative Totals	Since Jan 1st	2 mths	3 mths	4 mths	5 mths	6 mths	7 mths	8 mths	9 mths	10 mths	11 mths	year	
				360	360	154	385	343	298	148	148		
Annual Average	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	

*Handwritten signatures and marks at the bottom of the page.*