

## RAINFALL at Machen, Machen Quarry

County of Monmouth  
River Basin Rhymney & Ebbw

Observer The Machen Stone &amp; Lime Co Ltd

Snowdon Rain Gauge, by S.

Diameter ...					- 5 -					
Height .....					- 5 1/2			10		11
Altitude ...					250					
Year .....	1920	1921	1922	1923	1924	1925	1926	1927	1928	M.EANS. 1930
January ...						5.51	7.71	5.20	9.51	2.17
February ...						6.99	3.72	4.03	4.85	1.58
March .....						4.6	8.4	4.37	5.13	1.84
April.....						2.58	2.79	1.87	1.70	1.91
May .....						5.65	2.85	.95	.99	3.66
June .....						1.00	2.19	4.84	2.77	3.12
July .....						4.36	2.45	6.50	2.69	2.38
August .....						5.18	4.30	5.97	4.32	3.83
September...						9.14	5.58	1.34	7.67	1.75
October.....						6.33	6.17	3.62	4.74	9.62
November...						3.79	1.50	9.40	5.84	7.13
December...						8.68	4.39	.30	4.08	6.02
TOTALS...						in p	48.57	41.51	56.0	6.53
						d	d	d	d	52.51
						d	d	d	d	53.97

1924. S. installed Sept. 1<sup>st</sup>. House 40' high 20 yds. to S.

1927. Tree 3 ft. high, 15 ft. S.E. wall 12' 10 yds. S.E. to N.

1930. Wall 4 ft. high 3 yds. S.W. Hedge 2' 6" 5 yds. S. Tree 20' 8 yds. S.E. Gauge read in winter 9 a.m. in summer 9 a.m.

Position of Station on reduced Ordnance Survey Map, 2 miles to 1 inch Series				No. of Map	Reference No.		
Date.	Lat. N.	Long.	Railway Station.	Distance from gauge	Direction	Parish Church.	Distance from gauge
1924	51° 25' 20"	3° 7' 25"	Church Rd.	34 m	S. E.	Lower Machen	3 m S. E.
1930			Machen G.W.R.	from	N.W.	St. John's Machen	4 m N.W.

## RAINFALL at Machen (Machen Quarries)

County of Monmouth

Observer Machen Quarries &amp; Lime Co.

River Basin Taff Vale = 1

Machen Quarries Ltd.

Type of Gauge B.A.

Annual Average.....in. based on.....years obs. un-weighted. Period of average.....Ref.....

817124/28

Diameter	5											
Height	1	1										
Altitude	250											
Year	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940	Means	
January	4.06	7.11	3.69	5.91	7.95	6.31	6.45	7.51	9.67	3.54	6520	
February	2.93	13	5.10	.59	5.21	3.12	7.93	2.05	3.49	5.21	3026	
March	1.34	2.63	4.64	2.93	1.33	4.43	5.62	.60	2.29	3.84	2955	
April	3.57	5.10	2.17	3.04	6.58	3.73	4.23	.14	4.68	4.79	3803	
May	8.12	5.91	3.18	1.75	.84	1.18	2.63	5.09	1.27	2.13	3210	
June	4.03	2.29	1.67	1.59	5.84	3.24	1.87	2.86	2.59	.85	2683	
July	4.78	5.06	3.00	1.62	.93	8.78	4.29	5.23	9.14	5.40	4823	
August	5.37	1.43	1.63	4.39	1.83	1.89	1.10	4.22	2.69	.21	2476	
September	2.45	5.49	2.10	4.50	9.59	3.58	2.05	2.59	0.97	1.50	3512	
October	1.15	7.28	5.28	3.74	6.72	2.29	4.61	9.04	4.15	7.55	5181	
November	9.56	2.48	107	1.92	8.55	5.98	3.06	7.59	9.93	10.39	6053	
December	3.12	2.45	2.32	13.20	4.16	7.24	3.98	5.95	2.73	2.89	4804	
TOTALS	50.48	47.36	35.75	46.18	52.53	51.77	48.12	52.87	53.60	H8.30	48596	
	50.48	47.36	35.75	46.18	52.53	51.77	48.12	52.87	53.60	H8.30	48596	

1931. Wall 4 ft. high, 3 yds. S.W.

Hedge 2 " 6 in., 5 "

Tree 16 " 0 " 8 " S.E.

1934. Gauge moved 20 yds N.W.

House 20' high 3/4 yds N.W.

Bulky 8' " 3 " W.

1936 House 16' high 15' N.W. Shed 6' high 10' S.W.

1937 House 20' high 12' N.W. Shed 7' high 9' S.W.

1940 Jan. part satis.

Position of Station on reduced Ordnance Survey Map, } No. of Map..... Reference No.....  
1 mile to 1 inch Series

Date.	Lat. N.	Long.	Railway Station.	Distance from gauge	Direction	Parish Church.	Distance from gauge	Direction
1931			Machen	1/4 m.	N.W.	Machen	1/4 m.	N.W.
			"	"	N-	(1934) - "	1 m	S.E.
1937			Church Rd. Machen	1/2 m. 3 m.	S.E. N.E.	Lower Machen Machen	1/2 m. 1 m	S.E. S.E.

BRITISH RAINFALL ORGANIZATION, EXHIBITION ROAD, LONDON, S.W.7.

Station No. 4003

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## RAINFALL at Machen (Machen Quarry)

County of Monmouth

Observer Machen Quarries Ltd.

River Basin Rhymney - 1

Type of Gauge 3 ft A. Standard (1946) B.A.  
1950.

Annual Average 17 in. based on years obs. un-weighted. Period of average

Ref.

File No. 817124 28

Diameter	5			488	594						
Height	1	1		20		1					
Altitude	250					41					
Year	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	Means
January	5.25	5.93	9.56	4.78	3.75	7.01	4.45	11.10	1.55	1.77	5.515
February	5.56	.49	3.08	1.07	6.27	4.16	1.75	3.11	2.67	9.12	3.728
March	3.86	3.25	1.43	.38	2.30	1.70	9.24	2.67	2.22	3.50	30.55
April	1.39	2.75	1.41	3.11	2.45	1.93	4.57	3.60	4.22	3.79	29.22
May	2.93	7.64	4.90	1.70	4.00	4.43	2.66	4.02	4.58	2.19	39.05
June	1.63	.09	3.34	2.95	5.20	5.42	2.51	4.63	.85	2.04	2.866
July	3.98	2.90	3.00	2.99	8.56	2.52	3.30	2.17	1.64	6.88	32.94
August	7.46	5.94	5.45	2.84	4.49	8.62	1.00	5.13	3.20	8.55	52.68
September	1.39	4.73	5.10	5.47	2.94	7.08	2.45	4.48	2.56	8.00	46.20
October	3.41	3.17	3.40	6.33	6.18	1.65	1.67	6.02	10.52	2.43	44.78
November	2.84	1.16	3.19	10.28	.49	8.26	5.59	2.40	4.78	7.22	46.21
December	4.72	5.80	3.13	3.66	7.37	6.08	4.71	7.20	3.97	3.29	49.93
TOTALS	44.42	43.85	46.99	45.56	49.00	58.86	43.90	56.53	42.76	58.78	49065

1941 House 25' high 12' N.W.

lavatory 6' high 8' S.W.

1944 No. 20 4' N.W. 6' 1/2 2' S.W.

1946 House 20 high 8' N.W. Lavatory 7' high 8' S.W.

Position of Station on reduced Ordnance Survey Map, No. of Map  
1 mile to 1 inch Series

Reference No.

Date.	Lat. N.	Long.	Railway Station.	Distance from gauge	Direction	Parish Church.	Distance from gauge	Direction
1941	-	-	Machen G.W.R.	1/2 mi km.	N.W. N	Lower Machen	1/2 mi 1 mi.	S.E. SE
1946			Machen			Lower Machen		

Station No. 4003

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## RAINFALL at MACHEN (MACHEN QUARRY)

MACHEN (FORRUM ROAD) c. 1954.

(WYNDHAM STREET)

County of MONMOUTHSHIRE

Observer MACHEN QUARRIES LTD.

River Basin 1 - RHYMNEY

Observer D. B. Thomas, Esq.

Type of Gauge B.A.

Annual Average in. based on years obs. un-weighted. Period of average

Ref.

File No. 817124/28

Diameter	5"		488	594						5"
Height	2' 0"				1	1' 6"				1' 10"
Altitude	250'				51					250'
Year	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960 Means
January	6.14	5.02	1.19	3.57	3. 91	5.68	6.34	5.22	6.40	5.36 4.883
February	5.70	1.04	2.53	5.47	2. 21	4.43	6.29	6.09	7.34	4.53 3.663
March	5.22	3.51	2.21	5.04	2. 30	1.62	6.28	1.20	3.83	2.15 3.336
April	4.18	3.89	5.06	.90	2. 32	2.50	.17	.92	3.91	2.57 2.632
May	3.02	4.39	3.80	2.81	5. 94	1.30	2.11	4.49	1.12	1.62 3.060
June	1.58	2.24	2.68	6.34	4. 45	3.35	1.31	3.70	2.09	2.65 3.029
July	1.41	3.06	6.30	3.04	.44	4.54	4.58	4.41	3.89	5.37 3.732
August	6.59	7.01	5.42	4.63	1. 06	6.01	4.30	6.20	1.77	5.12 4.811
September	5.53	3.77	5.60	6.48	1. 99	5.89	6.29	8.80	.26	6.01 5.023
October	1.65	6.10	4.00	7.31	2. 80	2.26	4.86	5.20	4.91	8.62 6.771
November	10.19	5.63	4.05	11.06	5. 63	1.30	2.53	2.49	6.41	11.11 6.060
December	5.30	3.51	1.69	4.22	7. 93	6.42	3.57	4.97	11.81	7.38 5.680
TOTALS	56.51	49.17	44.53	60.87	40.98	41.30	48.63	53.69	46.74	62.49 50.991

House 20' high S' NW. Observatory 7' high S' SW

12<sup>th</sup> March 1954. Gauge moved to rd. WSW approx.

MAR 1955 HOUSE 30'-60' NW-SE. may cause over-shading, not less than 10' SSW

1957

Inspected 24-11-60 by Giffhäuser. g. moved to observe low in Wyndham St. p. 0/5 SSW → WSW Terrace houses  
20'-40' SSW → 12'-15' SW → 20'-30' WSW. Reasonably satisfactory site 10-12 yards N garden.  
adopted 1/61

ST(31)210893

Position of Station on Ordnance One-Inch map : No. of Map : National Grid Reference (3)222 884

Date.	Lat. N.	Long.	Railway Station.	Distance from gauge	Direction from gauge	Parish Church.	Distance Direction from gauge.
1946			Machen	1/2 mi 200 yd	N E	Lower Machen	1 mi 1/2 "
1957			"			"	

Summary of Earlier Records from 10-year Sheets :

	1910-19	1920-30	1931-40	1941-50	1951-60
Record D, or d		Cimp 1924 d 1925-29 D 1930	D 1931 1936-40 d 1933-35 ~1932	D 1941-45 1949-50 d 1946-47	