

RAINFALL AT New Cumnock Knockencorsoan

Lat.

Long.

County of

Ayr

Rain Gauge, by

Firth of Clyde - 2.

Observer

J. Wilson Esq C.E.R. Gilmour Esq C.E.

Diameter .....	6										
Height .....	1.0										
Altitude .....	1040										
Year .....	1890	1891	1892	1893	1894	1895	1896	1897	1898	1899	MEANS.
January .....	7.70				8.20	1.20	4.00	2.40	6.20	7.40	
February .....	1.50				10.50	1.50	3.70	4.50	6.40	3.50	
March .....	4.90				4.80	5.60	7.00	6.10	3.20	2.90	
April .....	2.10				4.20	4.10	2.70	3.60	3.90	5.60	
May .....	4.10				5.00	.20	.90	3.60	2.50	4.60	
June .....	7.80				3.60	2.40	5.40	7.50	4.60	2.50	
July .....	6.30				4.30	4.50	6.40	4.00	3.90	5.50	
August .....	5.30				7.00	8.40	4.00	7.40	9.30	2.70	
September .....	9.80				.20	3.20	6.50	5.80	8.10	6.90	
October .....	7.00				5.00	5.40	3.60	3.80	5.40	5.20	
November .....	13.00				5.50	6.90	3.00	5.40	6.80	6.90	
December .....	1.40				5.00	6.10	7.00	7.10	10.00	6.40	
TOTALS .....	70.90	not recd			63.30	49.50	54.80	61.20	70.30	60.10	

RAINFALL AT Shaws Works Knockencorsam

Lat.

Lon.

County of

Ayr

Rain Gauge, by

Observer D Macalister Esq

Firth of Clyde - 2

Diameter ..	6										
Height ....	1 0										
Altitude ..	1040										
Year ....	1900	1901	1902	1903	1904	1905	1906	1907	1908	1909	MEANS.
January ..	9.00	3.30	7.50	8.70	5.90	4.50	7.00	4.00	7.00	6.60	63.50
February ..	5.00	2.30	1.60	8.10	5.80	3.50	4.30	5.90	4.10	6.00	46.60
March ..	.60	2.00	4.80	8.80	3.90	6.10	3.40	5.50	6.70	4.00	45.80
April ..	3.80	5.20	2.70	2.10	5.20	4.50	1.70	4.80	2.30	6.00	38.30
May ..	4.90	2.50	2.70	4.70	3.50	2.60	7.60	6.90	4.50	4.20	44.10
June ..	3.10	3.30	2.10	3.30	3.10	1.30	2.50	6.20	4.70	3.10	32.70
July ..	5.00	1.70	7.10	6.60	4.00	4.80	4.50	3.20	5.20	7.20	48.30
August ..	6.60	8.00	5.50	12.40	6.00	6.40	5.60	6.80	6.20	4.80	68.10
September ..	6.10	5.70	5.40	4.80	7.20	4.80	3.00	2.00	12.50	3.00	54.50
October ..	8.60	6.90	4.00	12.00	4.00	5.60	9.20	8.90	2.00	6.50	67.70
November ..	7.10	8.00	5.00	5.20	6.00	5.90	6.50	7.30	6.30	3.70	61.00
December ..	10.20	4.70	6.60	6.40	4.40	5.50	6.90	7.60	7.50	6.00	65.80
TOTALS ..	70.00	53.60	55.00	82.10	59.00	55.50	62.20	69.10	68.80	61.10	636.40

RAINFALL at Shaws Water Works, Knockencorsan

County of Ayr Observer D. Macalister Esq. - G.S.  
 River Basin <sup>Clyde</sup> Firth of Firth left bank trib. 2.  
 Rain Gauge, by \_\_\_\_\_

Diameter ...	6	1910	1911	1912	1913	1914	1915	1916	1917	1918	1919	MEANS.
Height .....	1 0											
Altitude ...	1040											
Year ...		1910	1911	1912	1913	1914	1915	1916	1917	1918	1919	
January ...	6.00	4.70	6.70	3.50	6.80	6.50	8.10	4.40	5.90	5.70		
February ...	9.00	8.50	6.10	3.50	7.70	8.00	5.90	1.90	10.50	2.20		
March .....	2.30	1.70	9.80	5.20	8.00	5.00	3.20	3.40	3.20	3.00		
April .....	4.40	3.90	4.30	4.60	4.80	3.50	6.00	2.40	2.20	4.40		
May .....	2.50	3.30	3.30	6.00	3.60	1.90	7.00	4.00	4.10	1.20		
June .....	2.40	4.50	6.90	6.00	2.00	2.20	2.00	3.90	2.30	6.20		
July .....	3.50	4.70	3.50	1.40	2.50	7.40	3.40	2.90	5.30	1.80		
August .....	12.00	4.80	6.10	1.50	6.60	4.10	4.90	4.80	5.60	4.70		
September ..	2.90	4.60	3.80	2.70	4.00	2.50	2.90	5.90	7.50	6.80		
October ...	2.40	5.20	8.40	4.20	4.00	4.30	10.30	12.80	11.00	1.90		
November ..	4.80	7.20	7.90	9.40	6.60	3.00	7.20	14.70	9.50	5.80		
December ...	9.40	11.00	9.40	6.60	8.00	8.00	9.00	3.60	9.60	10.70		
TOTALS ...	61.60	64.10	76.20	54.60	64.60	55.40	69.90	64.70	76.70	54.40		

Date.	Lat. N.	Long. W.	Railway Station.	Distance.	Direction.	Church.	Distance.	Direction.
1919,	55° 52' 6"	4° 48' 20"						

## RAINFALL at Shaws Waterworks (Mackersan).

County of Cly. Observer J. Wallace, Fitter, Eng.  
 River Basin 2. Firth of Clyde. Dr. Inst. C. E.  
Floating Rain Gauge, by

Diameter ...	6	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929	1930. MEAN.
Height .....	1.0											
Altitude ...	1040											
Year .....	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929		
January .....	7.90	14.60	4.80	11.30	7.30	4.40	14.20	10.00	14.50	3.60	10.90	
February .....	9.20	2.80	5.40	8.10	2.20	3.50	8.10	4.80	6.50	3.60	5.50	
March .....	6.60	8.30	2.20	3.60	1.40	2.70	5.40	5.60	7.50	2.90	4.90	
April .....	3.00	2.20	4.20	4.10	3.50	5.10	2.70	4.40	3.10	1.40	2.50	
May .....	9.50	3.80	5.30	2.80	4.70	7.90	4.40	4.70	2.20	7.80	3.20	
June .....	2.70	2.10	3.40	2.30	3.30	2.40	5.10	5.50	8.80	5.10	3.90	
July .....	5.40	5.50	3.30	5.80	5.00	2.20	3.90	7.90	6.10	8.70	4.40	
August .....	6.50	8.40	3.20	8.10	5.50	4.70	6.40	7.90	6.20	9.20	8.30	
September...	4.30	3.00	3.80	8.40	8.50	4.50	6.50	9.80	6.90	8.50	6.80	
October.....	4.60	5.40	4.00	7.30	3.90	5.40	9.80	9.80	12.40	9.90	14.40	
November...	8.00	3.70	4.00	5.30	5.20	2.30	10.90	7.70	12.30	9.70	10.60	
December...	5.90	13.00	5.90	5.60	8.30	2.90	4.90	1.70	7.70	15.20	9.70.	
TOTALS...	73.60	72.80	49.50	73.00	58.80	48.00	82.30	79.80	94.20	80.50	79.50.	

1925. This seemed too low in some months, but accepted after ref: Gauge in good order and no change of method.  
 a.w.

1930 as recommended by us a new standard 5" g. was installed during Dec 1930, 375yds  
 S.E. of this one. From 1/1/31 both gauges will be read concurrently & returns furnished  
 for both.

Position of Station on reduced Ordnance Survey } No. of Map \_\_\_\_\_ Reference No. \_\_\_\_\_  
 Map, 2 miles to 1 inch Series

Date.	Lat. N.	Long. W.	Railway Station.	Distance from gauge	Direction from gauge	Parish Church.	Distance from gauge	Direction from gauge
1920	55° 26' "	4° 48' 20"	Wemyss Bay					

RAINFALL at Shaw W.W. (Knockencorvan)County of AyrObserver J. MacAlister, C.E.River Basin 2 - Firth of ClydeType of Gauge FAnnual Average 61.5 in. based on 3½ years obs. un-weighted. Period of average 1931-1935 Ref. S

Diameter	6"										
Height	1' 0"										
Altitude	1040'										
Year	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940	Means
January	9.10	12.50									
February	5.90	10									
March	1.80	3.00									
April	3.20	6.50									
May	5.60	3.20									
June	9.30	2.90									
July	6.10	5.50									
August	3.30	5.00									
September	2.40	7.40									
October	4.40	9.20									
November	10.30	6.90									
December	7.60	12.90	X								
TOTALS	72.00	75.10	M.	M.							

1931. n/p. Gauge to be kept until end of 1932, and then dismantled.

1932. n/p. Letter from M.C. Edinburgh. Gauge abandoned at end of 1934.

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 from gauge	Parish Church.	Distance from gauge	Direction from gauge
1931.			Wemyss Bay					

RAINFALL at Shaws W.W. Knockencowan (new gauge)

County of Ayr. Observer J. MacAlistair C.E.

River Basin 2 - Firth of Clyde.

Type of Gauge Snowdon

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

Diameter	5										Means
Height	1.0										
Altitude	1040										
Year	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940	
January	8.60	12.80	8.70	9.50	4.50	6.70	10.10	10.40	5.40	4.50	
February	7.00	10	7.80	1.80	9.30	4.10	5.70	4.80	9.30	3.10	
March	1.50	3.50	5.10	3.60	3.00	5.00	1.60	8.20	4.80	5.80	
April	3.00	6.00	5.60	5.40	4.40	2.20	4.10	1.10	4.10	4.10	
May	5.30	3.30	4.50	5.10	.70	3.20	2.00	4.90	2.20	1.40	
June	8.50	2.70	3.40	4.20	4.60	2.30	5.70	8.80	2.80	2.00	
July	6.60	5.90	7.10	4.90	4.50	8.20	6.20	6.80	8.10	4.80	
August	3.00	4.50	6.80	6.20	3.40	5.20	4.50	4.40	2.70	4.10	
September	2.40	7.10	1.20	8.00	9.30	5.20	5.50	7.90	4.80	6.50	
October	8.00	10.40	3.60	10.80	16.20	9.20	3.90	13.30	6.00	7.20	
November	10.10	7.10	4.90	3.80	7.90	5.70	1.70	12.80	11.60	9.20	
December	8.80	13.30	2.80	12.70	5.40	11.00	3.30	7.50	4.10	8.60	
TOTALS	73.40	76.70	60.40	76.00	73.20	62.00	54.30	90.90	65.56	61.30	
	M.										

1931. New gauge 16/2/30. 375 yds. SW of old. From 1 Jan. 1931 this gauge to be taken as the official gauge at Knockencowan (Old 6" gauge badly exposed, recommended by Dr. Glaspole to be removed to more sheltered ground.)

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 from gauge	Parish Church.	Distance from gauge	Direction from gauge
			Wemyss Bay.					

649638

Station No.

5219/1

## RAINFALL at Shaw's W.W. (Knockencorse)

41

County of Ayr

Observer J. Mac. Alister, C.E.

River Basin 2 - Firth of Clyde

Type of Gauge Showdon

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

Ref.

File No.

Diameter	5"			649	638						
Height	1' 0"					1					
Altitude	1040'					41					
Year	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	Means
January	2.00	(10.50)	8.40	9.20 (4.00)	9.50 (10.50)	9.30	8.80	4.50			
February	6.40	(2.50)	4.40	3.10 (9.70)	4.20 (2.00)	6.20	7.80	5.80			
March	3.60	6.90	4.10	1.90	5.20	3.10 (5.00)	7.90	4.80	3.90		
April	3.80	3.50	4.60	4.40	2.10	4.90	8.60	4.10	8.80	4.20	
May	3.40	4.10	4.10	(6.00)	5.40	1.50	5.40	2.50	2.60	2.00	
June	2.50	3.00	5.10	(6.00)	5.00	5.10	4.60	6.80	1.60	3.70	
July	5.50	6.00	2.50	(6.00)	5.00	4.70	5.60	8.00	2.90	6.20	
August	6.80	8.60	11.20	5.00	3.70	4.30	0.00	7.70	5.50	7.10	
September	2.60	7.90	6.50	(8.00)	7.80	9.10	6.80	10.20	3.20	11.30	
October	6.50	8.90	12.70	(8.50)	9.50	6.60	3.40	10.90	9.20	5.80	
November	6.80	1.50	4.40	(9.70)	1.00	8.40	9.50	5.80	7.40	5.30	
December	4.30	11.90	4.00	8.90	6.80	8.60	4.40	9.10	10.00	2.00	
TOTALS	53.70	(75.30)	75.00	(76.70)	65.20	64.00	65.80	88.50	72.60	61.80	
				mp.			M	M	M	M	

1942 Jan and Feb est'd. from map. 1944 May-July, Sep-Nov publ.

New gauge installed Aug. 1945.

1945 Jan &amp; Feb. off &amp; part est'd.

1947 Jan, Feb, Mar, est. for June M.O. 387

60004 03504

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
1941			Wemyss Bay				

649036

Station No. 52191

RAINFALL at Glenock W.W. (Knockencorran)

51

County of Ayrshire

Observer J. Mac Gregor, C.E.

River Basin. 2-Tributary of Clyde

Comptroller (C.M.S.)

Type of Gauge. Smaythorn 15" Bradfield map

Walter Engleman (Ref 1950)

Annual Average..... in. based on..... years obs. un-weighted. Period of average..... Ref.....  
" " 68.71 " " 27 " 1916-50 " " " " S  
File No. ....

Diameter	5"						649	638		
Height	1' 0"								1	
Altitude	1040'	m.s.m. 940'					940	51		
Year	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960
January	(6.20)	(8.50)	4.80	(8.50)	5.10	4.50	7.60	7.60	2.30	5.20
February	4.40	(3.50)	3.50	(7.50)	4.20	2.20	4.90	4.70	2.70	6.90
March	4.50	4.80	1.70	4.80	2.00	3.60	6.40	2.10	4.30	3.50
April	3.70	3.20	3.20	3.70	4.50	1.90	3.20	2.90	5.50	6.60
May	2.80	2.30	3.30	3.90	4.30	4.10	2.30	5.00	2.00	3.20
June	2.30	4.60	1.80	6.50	8.30	4.00	2.90	4.00	4.00	3.60
July	5.30	4.50	7.80	5.90	6.90	6.20	6.30	7.00	8.00	6.70
August	4.90	7.20	6.80	7.30	1.30	7.50	6.10	5.80	2.20	4.60
September	5.30	5.00	8.00	8.90	8.80	5.10	4.20	5.30	2.00	4.30
October	2.50	8.60	4.90	11.20	6.30	3.20	6.70	5.70	7.60	4.50
November	8.50	2.90	10.30	11.40	3.70	3.20	4.00	2.70	7.60	10.30
December	9.40	7.00	6.20	9.10	9.00	7.60	7.90	7.70	12.30	7.50
TOTALS	59.80	62.00	62.30	(88.40)	63.40	53.20	62.60	60.50	60.50	66.90
	M	M	M	H	M	M	M	M	M	M

1953. Report by Thomson to the "slit below water edge" elsewhere gauge read. Site on heathmoor grassland ground into W-E-S. face N.E. Slope well broken turf well no improvement possible

1954. Mowring low land. Rainwater decline current. Jan 1954. 1954/06/05

Oct 1957. Rec. wt. yes carried out.

April 1958. Rec. carried out.

1969 np low.

40004 60004

60004.

Position of Station on Ordnance One-Inch map : No. of Map ..... National Grid Reference 24/249632.

Date.	Lat. N.	Long.	Railway Station.	Distance from gauge	Parish Church.	Distance from gauge

Summary of Earlier Records from 10-year Sheets :

Record D, or d		1910-19	1920-30	1931-40	1941-50	1951-60
		✓	✓	*	✓ p 44	

New gauge 8754 m. w. of old