

**RAINFALL AT Stirling Waterworks, No. 3 Reservoir**

Lat.

Long.

County of

A

Rain Gauge, by

Observer

A. H. Goudie Esq. CE.

Torth, Rbank - 1.

Diameter.....										
Height.....										
Altitude.....										
Year .....	1870	1871	1872	1873	1874	1875	1876	1877	1878	MEANS.
January.....										
February.....										
March.....										
April.....										
May.....										
June.....										
July.....										
August.....										
September.....										
October.....										
November.....										
December.....										
TOTALS .....	63.25	47.37	38.87	45.79	52.50	62.37	37.62	39.45		

1872-93. Received IX. 1913.Entered 17. XI. 1913.

RAINFALL AT Stirling Waterworks, No. 3 Reservoir

*Lat.* ..... *Long.* ..... *County of* .....

*Town, Province - I.* ..... *Rain Gauge, by* ..... *Observer A. H. Goudie Esq., C.E.*

Diameter .....	1880	1881	1882	1883	1884	1885	1886	1887	1888	1889	MEANS.
January .....											
February .....											
March .....											
April .....											
May .....											
June .....											
July .....											
August .....											
September .....											
October .....											
November .....											
December .....											
TOTALS .....	34.12	43.12	48.56	49.63	48.77	37.38	34.49	32.45	44.05	34.19	

1872-93 (Totals) Received IX. 1913.

Entered 17-XI. 1913.

# RAINFALL AT Stirling Touch Reservoir

Lat.

Lam.

County of

Stirling

Rain Gauge, by

Observer

Col Stirling

Forth R. Bank - I.

Diameter .....											
Height .....											
Altitude .....						700	760				
Year .....	1890	1891	1892	1893	1894	1895	1896	1897	1898	1899	MEANS.
January .....				2.40	6.90	1.10	2.30	1.90	2.93	7.82	
February .....				5.90	11.05	.25	2.00	3.97	2.98	3.31	
March .....				1.80	5.15	3.25	4.70	5.16	1.11	3.11	
April .....				.70	2.65	3.30	1.83	3.03	3.36	4.22	
May .....				2.35	3.60	1.25	.70	2.40	2.39	4.75	
June .....				2.45	1.60	2.75	5.64	6.07	2.10	2.27	
July .....				2.85	2.85	6.00	5.11	1.71	1.22	3.41	
August .....				4.25	4.80	8.50	2.54	6.14	4.87	1.50	
September....				2.15	.35	1.55	5.90	3.29	4.73	3.80	
October.....				4.50	3.65	3.55	3.84	3.40	4.25	3.22	
November....				3.75	4.85	6.80	1.37	3.91	5.68	7.50	
December....				5.30	4.40	5.37	6.28	6.34	6.83	3.59	
TOTALS . . .				37.90	51.85	43.67	42.21	47.32	42.45	48.50	44.00*

\* Computed from Polmaise Gdns. Bucklybie  
The Manse & Kippenross

RAINFALL AT Stirling Waterworks, No. 3. Reservoir.

Lat. \_\_\_\_\_

Long. \_\_\_\_\_

County of \_\_\_\_\_

Rain Gauge, by \_\_\_\_\_  
Forth, R. Grant - I.

Observer A. H. Goudie Esq. C.E.

Diameter .....	1890	1891	1892	1893	1894	1895	1896	1897	1898	1899	MEANS.
January .....											
February .....											
March .....											
April .....											
May .....											
June .....											
July .....											
August .....											
September....											
October.....											
November....											
December....											
TOTALS . . .	4528	4696	48.91	37.91							

1872-93 (Totals) Received X-13. Entered 17. XI. 1913.

Average computed XII/36 from records 1881-1893 height as 4" low.

-inf Survey.

? Mean of 2 gauges  
till 1908  
Gauge No. 1.  
(99)

RAINFALL AT Stirling Touch Reservoir

Lat. .... Lon. .... County of Stirling

Rain Gauge, by Glaisher Observer C Stirling Esq  
Forth, Ebanks - 1. A N. of Dundee Esq.

Diameter ..	...									8	
Height ..	...									26	
Altitude ..	760	755								765	
Year ..	1900	1901	1902	1903	1904	1905	1906	1907	1908	1909	MEANS.
January ..	5.33	2.40	3.86	9.30	4.54	1.64	5.29	3.45	5.29	7.28	4.838
February ..	2.31	1.03	1.93	7.51	3.38	2.14	2.07	3.40	2.06	1.69	2.872
March ..	.60	1.98	2.43	8.63	2.62	5.94	2.39	4.35	5.32	2.10	3.636
April ..	3.23	3.71	1.70	1.02	4.91	2.30	1.02	2.18	1.49	4.777	2.683
May ..	3.15	2.30	2.24	2.66	3.87	1.90	5.10	6.12	3.54	4.29	3.517
June ..	5.00	4.04	2.23	3.45	1.95	.74	1.96	6.29	2.19	2.24	3.060
July ..	3.10	2.64	3.49	5.70	2.70	2.44	2.44	3.04	4.8	3.14	3.287
August ..	4.69	3.63	3.27	6.05	5.29	5.05	5.57	6.54	5.17	3.59	4.885
September ..	3.80	3.17	3.40	3.84	4.28	2.08	1.89	1.89	7.29	2.03	3.367
October ..	6.08	4.44	2.82	10.54	2.11	2.64	6.59	6.44	2.2	8.35	5.203
November ..	6.42	2.92	4.21	2.06	1.52	5.61	4.59	3.15	4.46	2.27	3.741
December ..	9.12	4.28	6.14	3.79	5.07	3.79	3.43	7.07	4.23	6.72	5.304
TOTALS ..	52.83	36.54	37.72	64.55	43.24	31.27	41.64	54.22	48.64	48.47	46.412 75.4

see separate sheets x 100 c.

Aug.

1909. Stirling Parish Ch. 4  $\frac{3}{4}$  miles NE.  
" Station 5 " NE.

N.B. Probably mean of two gauges till 1908.

RAINFALL AT TOUCH RESERVOIRS.

8 SEP 1913

Lat. \_\_\_\_\_

Lon. \_\_\_\_\_

County of STIRLING.

No. 1. Rain Gauge, by \_\_\_\_\_  
 Firth, Rbank - I. Observer A H Goudie Esq

Diameter ...					8 "						
Height .....					1.6 "						
Altitude ...					707						
Year ...	1900	1901	1902	1903	1904	1905	1906	1907	1908	1909	MEANS.
January ...					4.22	1.80	4.24	3.01	5.54	7.28	
February ...					3.34	2.18	1.89	3.90	3.05	1.69	
March .....					2.41	5.91	2.03	4.70	5.44	2.10	
April .....					5.01	2.26	.84	2.13	1.47	4.77	
May .....					3.94	1.85	4.80	6.15	3.43	4.29	
June .....					1.82	.67	1.98	5.37	2.53	2.24	
July .....					2.51	2.28	2.59	2.96	4.21	3.14	
August.....					4.99	4.29	5.42	6.60	5.09	3.59	
September ..					4.11	1.56	1.93	1.93	7.32	2.03	
October ...					2.07	2.19	6.70	6.20	2.19	8.35	
November ..					1.63	4.51	4.63	3.35	4.62	2.27	
December ...					5.18	3.04	3.11	7.48	4.36	6.72	
TOTALS ...					41.23	32.54	40.16	53.78	49.25	48.47	

*And A Goudie  
Water Eng 27/9/13*

Original sheet received 30. IX. 1913

RAINFALL AT TOUCH RESERVOIRS.

30 SEP 1913

Lat. \_\_\_\_\_

Lon. \_\_\_\_\_

County of **STIRLING.**

No. 2. Rain Gauge, by \_\_\_\_\_ Observer \_\_\_\_\_

Forth, R. bank - 1.

Diameter ...					<u>8"</u>						
Height .....					<u>2' 0"</u>						
Altitude ...					<u>765'</u>						
Year ...	1900	1901	1902	1903	1904	1905	1906	1907	1908	1909	MEANS.
January ...					4.85	1.49	6.38	2.46	5.05	7.00	
February ...					3.42	2.10	2.87	2.91	2.87	1.65	
March .....					2.84	5.98	2.77	4.01	5.20	2.24	
April .....					4.80	2.34	1.21	2.24	1.51	4.99	
May .....					3.80	1.95	5.41	6.09	3.65	4.37	
June .....					2.07	.81	1.96	5.61	2.46	2.36	
July .....					2.91	2.62	2.31	3.12	4.16	3.18	
August .....					5.58	5.83	5.73	6.48	5.26	3.57	
September ..					4.45	2.60	1.87	1.86	7.26	2.01	
October ...					2.15	3.12	6.50	6.72	2.25	7.97	
November ..					1.41	6.94	4.55	2.95	4.31	2.05	
December ...					4.96	4.57	2.50	7.26	4.10	6.42	
TOTALS ...					43.24	40.35	44.06	51.71	48.08	47.81	

*Arch Sondre  
Water Eng 27/9/13*

*Original sheet received 30. IX. 1913*

RAINFALL at Stirling, Touch Reservoir No. 3

Water Works 1918

County of Stirling Observer A. H. Boudie Esq.River Basin Forth - N. bank trib. 1.

Rain Gauge, by \_\_\_\_\_

Diameter ...											
Height .....					1	9					
Altitude ...						759					
Year ...	1910	1911	1912	1913	1914	1915	1916	1917	1918	1919	<u>MEANS</u> <u>16-19</u>
January ...						3.47	8.51	2.16	5.72	4.66	21.05
February ...						8.34	5.43	1.02	7.09	1.31	14.85
March .....						2.80	2.52	2.95	1.83	4.06	11.36
April .....						3.61	3.50	1.52	1.27	1.37	7.66
May .....						2.09	5.89	3.95	2.73	1.30	13.87
June.....						.87	1.99	3.34	3.38	2.91	10.62
July .....						3.49	3.30	4.76	1.68	3.21	1.13
August.....						4.27	3.75	4.50	6.47	3.59	3.28
September ..						2.66	2.66	1.06	2.65	1.01	3.38
October ...						1.89	5.36	9.16	7.38	6.99	.96
November ..						7.03	3.55	7.12	7.25	5.42	5.69
December...						10.10	7.63	6.12	2.98	5.74	8.73
TOTALS ...						48.55	61.91	43.39	51.59	38.78	195.67

D

Date.	Lat. N.	Long.	Railway Station.	Distance.	Direction.	Church.	Distance.	Direction.

RAINFALL at Stirling, Touch Reservoir No. 2.County of StirlingObserver A. H. Goudie Esq.River Basin Forth - Right bank trib.

Rain Gauge, by \_\_\_\_\_

Diameter ...	8											
Height .....	2 0										1.4	
Altitude ...	765	759	765		707							
Year ...	1910	1911	1912	1913	1914	1915	1916	1917	1918	1919		SUMS MEANS 16-19
January ...	6.75	3.28	4.71	6.06	4.36	3.26	8.92	2.14	5.60	4.57		21.23
February ...	5.20	6.89	5.26	3.82	6.49	8.64	5.62	9.4	7.02	1.88		14.80
March .....	3.36	1.92	6.64	7.70	6.72	2.80	2.37	2.90	1.78	3.95		11.00
April .....	5.66	3.26	1.58	4.46	3.85	3.82	3.37	1.51	1.13	1.32		7.33
May .....	2.43	2.74	2.07	4.53	2.43	1.96	5.19	3.59	2.56	1.21		12.85
June .....	1.80	2.68	6.06	4.56	.87	1.97	3.08	3.08	.96	2.80		9.98
July .....	5.50	3.08	2.47	1.27	3.53	3.16	4.50	1.70	2.95	1.09		10.24
August.....	11.09	4.12	6.04	2.41	4.01	3.73	4.31	6.23	3.65	3.05		17.24
September ..	1.29	2.28	2.78	3.55	2.45	2.43	1.00	2.44	6.56	3.29		13.29
October ...	2.41	4.94	5.66	3.60	1.81	4.93	8.63	7.09	6.83	.87		23.42
November ..	3.99	7.32	5.69	8.10	7.06	3.46	6.59	6.69	5.07	5.40		23.81
December ...	4.55	7.92	13.35	4.24	9.85	7.08	5.95	2.90	5.49	8.45		22.79
TOTALS ...	54.03	50.43	62.31	54.30	53.43	47.24	69.83	41.21	49.60	37.34		187.98

D

D

Date.	Lat. N.	Long.	Railway Station.	Distance.	Direction.	Church.	Distance.	Direction.
1912			Stirling					

10 585

RAINFALL at Stirling, Touch Reservoir No. 1.

County of Stirling. Observer A. H. Gordie Esq.

River Basin Forth - Right bank trib. 1.

*Rain Gauge, by*

Diameter .....	8										
Height .....	26	2016			10						
Altitude .....	765	455	707		455						
Year .....	1910	1911	1912	1913	1914	1915	1916	1917	1918	1919	MEANS: 16-19
January .....	6.87	3.68	4.71	5.98	4.40	3.29	9.59	2.10	5.99	4.73	22.41
February .....	5.36	7.81	5.22	4.14	6.55	8.89	5.80	.96	7.72	1.26	15.74
March .....	3.60	2.06	6.56	7.78	6.74	2.73	2.37	2.90	1.96	4.00	11.23
April .....	5.68	3.50	1.76	4.36	3.89	3.88	3.42	1.53	1.19	1.41	7.55
May .....	2.43	2.74	2.09	4.25	2.45	1.95	5.60	3.65	2.53	1.18	12.96
June .....	2.12	2.70	6.00	4.80	.81	1.98	3.33	3.15	1.00	2.65	10.13
July .....	5.26	3.00	2.53	1.25	3.77	3.52	4.60	1.71	3.38	1.16	10.85
August .....	10.45	4.12	5.44	2.25	8.99	3.86	4.05	6.32	3.60	3.16	17.13
September .....	1.23	2.30	2.68	3.27	2.35	2.29	1.15	2.75	7.31	3.47	14.68
October .....	2.33	4.93	5.62	3.56	1.80	5.30	8.69	7.73	7.35	.98	24.75
November .....	4.23	7.71	5.55	7.70	7.28	3.38	7.20	6.51	5.50	5.92	25.13
December .....	4.69	7.82	12.67	4.26	10.31	7.26	6.10	2.89	5.67	8.79	23.45
TOTALS .....	54.25	52.37	60.83	53.60	54.34	48.33	61.90	42.20	53.20	38.71	196.01

## RAINFALL at Stirling, Touch Water Works No. 3.

County of Stirling Observer Q. H. Goudie Esq.

River Basin Forth - Right-bank trib. 1. Water Board: Stirling

Rain Gauge, by \_\_\_\_\_

Diameter ...	8		8																	SUMS
Height .....	1.9		1.0																	
Altitude ...	759		759																	
Year .....	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929										
January ...	7.58	9.18	6.01	6.07	6.06	7.30	8.14	7.15	14.03	2.00	7.33								80.85	
February ...	9.05	1.12	4.68	5.69	9.8	6.81	6.68	3.64	7.17	2.05	.60								48.47	
March .....	5.51	8.33	3.64	2.43	1.46	2.15	4.00	3.97	5.22	.60	3.50								40.81	
April .....	2.52	1.47	3.31	4.67	3.36	5.53	2.79	2.92	2.48	1.17	1.45								31.67	
May .....	5.60	3.52	3.81	1.81	6.77	7.52	3.87	2.81	1.86	3.49	2.12								43.18	
June .....	2.23	.71	1.82	1.53	2.36	.61	3.43	5.19	6.20	2.41	2.69								29.20	
July .....	4.71	4.84	4.41	3.92	5.42	1.43	3.82	3.92	3.53	3.72	4.88								44.60	
August .....	7.23	7.38	2.95	7.93	3.35	5.84	4.16	8.66	5.97	6.33	7.14								66.97	
September...	2.44	2.86	2.87	7.71	6.89	4.38	4.56	7.02	4.54	1.38	5.81								49.96	
October.....	2.52	5.16	2.64	7.29	4.22	4.62	5.94	7.90	8.13	5.62	6.66								60.70	
November...	6.71	3.88	3.69	3.85	4.21	1.88	8.83	5.07	6.58	7.89	5.42								57.01	
December...	5.68	7.65	5.66	4.44	9.93	4.54	1.78	1.62	5.92	10.46	5.39								63.07	
TOTALS...	61.78	56.10	45.49	57.36	55.04	51.61	58.00	59.87	71.63	47.12	52.49								616.49	
	$\frac{D}{D}$																			

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

Reference No. \_\_\_\_\_

Date.	Lat. N.	Long.	Railway Station.	Distance from gauge	Direction	Parish Church.	Distance from gauge
1929.			Stirling	5 $\frac{1}{4}$ mi	?		

## RAINFALL at Stirling, Touch Water Works No. 2.

County of Stirling

Observer A. H. Goudie Esq.

River Basin Forth - Right-bank trib. 1.

Rain Gauge, by

Diameter ...	8		8									
Height .....	1. 4		1. 0	1. 0								
Altitude ...	707		707									
Year .....	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929	1930 MEAN.	SUMS
January ...	7.32	9.22	5.93	5.99	6.05	7.09	7.73	7.18	14.17	1.98	7.41	80.07
February ...	8.77	1.13	4.78	5.40	9.6	6.56	6.33	8.52	6.87	1.97	.57	46.80
March .....	5.25	8.54	3.48	2.44	1.43	2.04	3.80	3.74	5.02	.62	3.67	39.83
April.....	2.32	1.43	3.32	4.68	3.24	5.55	2.73	2.72	2.44	1.15	1.62	31.00
May .....	5.44	3.46	3.76	1.69	6.49	7.22	3.64	2.76	1.96	3.49	2.11	41.92
June .....	2.16	.59	1.71	1.50	2.38	.54	3.15	4.85	5.95	2.33	2.61	27.77
July .....	4.29	4.75	4.12	3.94	5.14	1.35	3.75	3.82	3.39	3.76	4.69	43.01
August .....	6.76	6.86	2.75	7.80	3.14	5.98	3.96	8.38	5.74	5.91	6.80	64.08
September...	2.21	2.84	2.65	7.83	6.59	3.66	4.19	6.45	4.37	1.34	5.11	47.24
October.....	2.34	4.97	2.47	7.02	4.11	4.30	5.61	7.12	7.84	5.65	6.65	57.88
November...	6.39	2.80	3.29	3.74	4.03	.85	8.44	4.83	6.49	8.14	5.25	55.45
December...	5.60	7.44	5.54	4.32	9.99	4.55	1.68	1.51	5.88	10.42	6.29	62.22
TOTALS...	59.05	55.03	44.00	56.39	53.55	49.69	55.01	56.88	70.02	46.76	50.98	597.33
	D	D	D	D	D	D	D	D	D	D	D	

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

Date.	Lat. N.	Long.	Railway Station.	Distance from gauge	Direction from gauge	Parish Church.	Distance from gauge
1922			Stirling	5 m.			

## RAINFALL at Stirling, Touch Reservoir No. 1.

County of Stirling

Observer A. H. Goudie Esq.

River Basin Forth - Right-bank trib. 1.

Rain Gauge, by

Diameter ...	8			8									
Height .....	1	0		1	0								
Altitude ...	455			455									
Year .....	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929		MEAN	
January ...	7.53	9.28	5.99	6.18	6.24	7.32	8.25	7.78	15.29	2.01	7.78		83.65
February ...	9.07	1.10	4.93	5.69	9.7	6.47	6.43	3.45	7.46	2.01		.66	48.14
March ....	5.33	8.88	3.82	2.59	1.41	2.14	3.84	3.78	5.33	.64		3.58	41.34
April .....	2.47	1.42	3.33	4.55	3.28	6.03	3.01	2.86	2.60	1.19		1.44	32.18
May .....	5.58	3.48	3.68	1.84	6.72	7.87	3.73	2.87	1.83	3.75		2.26	13.64
June .....	2.12	.48	1.60	1.68	2.53	.59	3.12	4.88	5.87	2.41		2.63	27.91
July .....	4.36	6.56	4.02	3.96	5.03	1.36	4.11	3.74	3.24	3.84		4.48	42.70
August .....	6.81	6.77	2.64	8.50	3.33	5.41	4.14	8.15	5.71	6.05		6.94	64.45
September...	2.26	2.63	2.64	8.04	6.67	3.86	4.17	6.63	4.59	1.41		5.09	47.99
October.....	2.33	4.79	2.57	7.42	4.39	4.63	6.11	7.66	8.57	8.99		6.97	61.43
November...	7.13	3.83	3.68	3.83	4.14	.79	8.90	5.16	6.96	8.77		6.70	58.89
December...	5.71	8.03	5.89	4.34	10.81	4.74	1.78	1.53	6.08	10.77		5.71	65.39
TOTALS...	60.70	55.25	44.69	58.65	55.52	51.21	57.59	58.49	73.53	48.84		53.24	617.71
	D	D	D	D	D	D	D	D	D	D		D	

1929. Water tank below gauge.

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
1929.			Stirling	4 in.			

RAINFALL at Stirling (Duch Reservoir) No. 8.County of Stirling Observer A. H. GoudieRiver Basin Forth - Right Bank D.B. Max. Eq. (1935)

Type of Gauge

Annual Average 49.1 in. based on 18 years obs. un-weighted. Period of average 1881-1915 Ref. Survey  
Completed XII/36

Diameter	8										SUMS Means
Height	1.0										
Altitude	769										
Year	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940	
January	4.65	8.02	6.37	8.63	1.97	6.27	5.61	8.62	4.83	1.75	56.72
February	4.31	1.08	3.16	1.56	4.85	2.37	5.18	2.53	6.62	1.86	31.52
March	1.29	2.55	3.35	3.79	1.99	3.56	2.43	3.52	4.06	4.56	31.09
April	2.91	5.86	1.86	5.37	+65	1.66	2.78	.72	2.94	4.08	32.83
May	5.24	4.26	3.54	2.57	4.43	1.29	2.76	4.28	1.71	1.32	27.40
June	6.48	2.25	1.54	2.74	7.40	2.12	2.85	5.69	2.89	1.23	35.19
July	5.67	3.43	3.88	3.21	1.20	6.44	3.64	5.25	5.87	6.11	45.20
August	2.52	1.84	2.51	5.37	2.83	2.79	3.66	3.04	2.73	1.58	28.87
September	2.11	3.95	1.46	5.60	7.67	4.76	3.31	4.34	2.43	2.98	38.56
October	4.11	6.89	4.15	8.20	10.82	4.87	4.70	9.35	3.08	6.85	62.52
November	10.14	4.87	3.19	1.15	5.32	3.72	1.93	9.84	9.86	6.61	55.13
December	4.13	10.28	1.07	8.17	3.59	7.52	3.04	4.47	2.65	4.93	50.05
TOTALS	53.56	58.28	36.08	55.36	52.72	47.87	40.89	61.65	49.87	43.80	495.08
	D	D	D	D	D	D	D	D	D	D	D

1931. Nearest object No. 3. Rec.

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.			Stirling	5.6 m				

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

## RAINFALL at Stirling (Touch Reservoir) No. 2.

County of Stirling

Observer J. H. Gaudier, M.A., F.R.S.

River Basin 1-Forth - Right Bank

D.B. Marine (1925)

Type of Gauge

Annual Average 17.9 in. based on 29 years obs. unweighted. Period of average 1881-1915 Ref. Summary  
Completed XII/36

Diameter	8											1915 Means
Height	1.0											
Altitude	707											
Year	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940		
January	4.68	7.66	6.43	8.62	2.01	5.95	5.35	8.61	4.62	1.70	55.63	
February	4.34	.08	3.05	5.56	4.99	2.22	5.11	2.68	6.54	1.76	31.36	
March	1.28	2.39	3.22	3.67	1.89	3.34	2.43	3.54	4.06	4.27	30.09	
April	2.77	5.46	1.80	4.90	4.30	1.53	2.52	.70	2.75	3.95	30.68	
May	4.98	3.94	3.35	2.48	.41	1.20	2.55	4.14	1.55	1.22	25.82	
June	6.39	2.18	1.43	2.54	6.71	2.03	2.73	5.44	2.67	1.04	33.16	
July	5.34	3.13	3.72	3.25	1.15	6.06	3.59	4.90	5.54	5.83	42.54	
August	2.41	1.74	2.46	5.04	2.60	2.59	3.44	3.07	2.57	1.57	27.49	
September	1.97	3.67	1.38	5.46	7.09	4.66	3.32	4.22	2.43	2.82	37.02	
October	3.80	5.84	4.09	8.01	9.93	2.89	4.57	9.14	2.76	6.39	59.12	
November	9.96	4.04	2.95	1.13	4.96	3.64	.90	9.67	9.40	6.47	53.12	
December	4.07	10.18	1.01	7.58	3.60	7.42	3.01	4.35	2.63	5.01	48.76	
TOTALS	51.99	50.31	34.89	53.24	49.54	45.23	39.52	60.46	47.58	42.03	474.79	
	D	D	D	D	D	D	D	D	D	D	D	

1931. Nearest object No. 2 Res.

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.			Stirling	5 m.				

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

## RAINFALL at Stirling (Duck Reservoir) No. 1

County of Stirling

Observer A. G. Goudie

River Basin 1-Forth - Right Bank

P. B. Manns Log, (1935).

Type of Gauge.

Annual Average 47.6 in. based on 40 years obs. un-weighted. Period of average 1881-1915 Ref. Survey.  
 Weighted with Falkirk (Kincardine) (Kincardine X1/36)

Diameter	8.	Height	1.0	Altitude	405	Year	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940	YMS Means
January	4.92	8.45	6.73	9.09	2.13	6.26	5.90	9.57	4.87	1.72	59.84						
February	4.57	.09	3.29	.55	5.16	2.35	5.75	2.68	7.26	1.77	33.46						
March	1.28	2.48	3.55	4.05	1.99	3.54	2.58	3.72	4.43	4.71	32.33						
April	2.93	5.97	1.79	5.33	4.58	1.61	2.67	.67	2.78	3.95	32.28						
May	5.26	3.93	3.30	2.55	.46	1.15	2.79	4.37	1.60	1.21	26.62						
June	6.67	2.17	1.42	2.56	6.63	1.93	2.67	5.72	2.86	.93	33.46						
July	5.10	2.96	3.99	3.68	1.07	5.79	3.84	4.72	5.50	5.84	42.49						
August	2.34	1.75	2.66	4.82	2.44	2.77	3.69	2.64	2.23	1.51	26.85						
September	1.93	3.92	1.28	6.05	7.63	4.71	3.44	4.54	2.39	3.03	38.92						
October	4.00	6.58	4.20	8.51	11.03	5.26	4.62	9.65	2.84	6.46	63.15						
November	10.36	4.49	3.03	1.22	5.19	4.03	.94	9.87	10.15	7.01	56.29						
December	4.57	10.80	1.03	7.96	3.58	8.25	3.07	4.55	2.80	5.34	51.95						
TOTALS	53.93	53.59	36.27	56.37	51.79	47.85	41.96	62.70	49.71	43.45	49.64						
	D.	D.	D.	D.	D.	D.	D.	D.	D.	D.	D.						

1931. Water tank below gauge.

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
1931.			Stirling	Hm.			

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

Station No. 5355

## RAINFALL at Stirling (Touch Reservoir) № 3

41

County of Stirling

Observer D. B. Marr Esq.

River Basin 1- Firth Right Bank

Type of Gauge

Annual Average 12.9 in. based on 18 years obs. un-weighted. Period of average 1881-1915. Ref. S

File No.

Diameter	8"				891	004					
Height	1' 0"						1				
Altitude	759'						41				
Year	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	SUMS Means
January	1.76	6.27	6.97	6.69	3.98	6.95	6.63	7.76	5.30	3.94	56.15
February	4.98	1.91	5.10	2.35	7.88	3.90	1.72	6.25	4.98	6.05	45.12
March	2.75	3.68	2.85	-54	4.13	2.97	4.34	4.29	1.89	3.74	31.18
April	2.07	4.26	3.48	3.86	2.59	1.00	8.44	3.76	4.65	4.21	38.32
May	3.10	3.93	4.55	3.32	5.67	2.27	4.63	2.54	2.84	2.30	35.15
June	0.89	1.96	4.02	3.52	4.98	3.91	4.45	5.54	1.21	2.21	32.69
July	3.49	2.55	2.92	4.31	3.36	4.39	4.20	5.30	3.09	6.18	39.79
August	4.67	6.91	8.32	3.83	3.06	4.13	.07	11.20	6.14	6.15	54.48
September	1.98	7.02	3.49	5.33	6.02	7.62	5.31	7.58	2.16	11.01	57.52
October	5.40	4.62	9.02	5.23	7.87	1.01	2.73	6.01	6.11	4.47	52.47
November	4.66	1.15	2.92	4.71	.75	8.17	6.21	4.02	4.57	3.65	43.81
December	4.55	7.22	8.60	6.05	5.06	5.35	2.46	8.40	9.36	2.15	53.20
TOTALS	40.30	51.48	56.24	52.74	55.35	51.67	51.19	72.65	52.30	55.96	539.88

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
1941			Stirling	S <sub>2</sub> W <sub>1</sub>			

Station No. 5356

## RAINFALL at Stirling (Torch Reservoir) N° 2

41

County of Stirling

Observer D. B. MARS, Esq.

River Basin 1-Firth Right Bank

Type of Gauge.

Annual Average 42.9 in. based on 29 years obs. un-weighted. Period of average 1881-1915 Ref. S

File No.

Diameter	8"				891	009						
Height	1' 0"						1					
Altitude	707						41					
Year	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	SUMS	Means
January	1.67	6.20	6.74	6.52	3.96	6.90	6.30	7.44	5.16	3.65	54.54	
February	4.82	1.91	5.02	2.38	7.74	4.03	1.72	6.11	4.78	5.64	44.15	
March	2.64	3.62	2.80	0.53	3.99	2.82	4.10	4.02	1.78	3.52	29.82	
April	1.93	4.01	3.48	3.59	2.44	1.01	8.42	3.60	4.30	3.92	36.70	
May	2.71	3.73	4.35	3.21	5.51	2.11	4.20	2.37	2.60	2.09	32.88	
June	0.86	1.90	3.77	3.34	4.81	3.80	4.15	5.08	1.07	1.99	30.79	
July	3.28	2.49	2.77	4.12	3.21	4.19	4.11	5.02	2.96	5.74	37.89	
August	4.39	6.45	4.91	3.73	2.74	3.68	.03	10.18	5.91	5.59	50.61	
September	1.89	6.89	3.36	5.10	5.75	7.01	5.04	6.95	1.96	10.19	54.14	
October	5.10	4.58	8.72	4.98	7.52	.97	2.50	5.51	5.58	4.10	49.56	
November	4.49	1.13	2.92	7.50	.73	7.55	5.86	3.74	4.14	3.40	41.46	
December	4.55	6.87	2.55	6.08	4.77	5.13	2.32	7.91	9.12	1.88	51.18	
TOTALS	38.33	49.78	54.41	51.08	53.17	49.20	48.75	67.98	49.36	51.71	513.72	

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
1941			Stirling	5 m			

Station No. 5357

## RAINFALL at Stirling (Touch Braehead) N.E.

41

County of Stirling

Observer

D. B. Marts, Esq.

River Basin - Farth; Right Bank

Type of Gauge

Annual Average 17.1 in. based on years obs. un-weighted. Period of average Ref.

File No.

Diameter	8"				891	025					SUMS	Means-
Height	1' 0"						1					
Altitude	455'						4					
Year	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950		
January	1.76	6.15	7.42	6.82	3.99	7.64	6.70	8.05	5.46	4.12	58.11	
February	5.01	1.92	5.47	2.48	7.95	4.64	1.72	6.75	5.33	6.04	47.34	
March	2.88	3.70	3.07	.53	4.31	3.10	4.26	4.38	1.94	3.98	32.15	
April	1.94	4.40	3.70	3.74	2.63	1.07	9.63	3.83	4.79	4.53	40.26	
May	3.07	3.74	4.64	3.29	5.70	1.95	4.56	2.65	2.87	2.03	34.49	
June	0.89	2.03	3.93	3.56	4.97	4.00	4.48	5.67	1.26	1.95	32.74	
July	3.40	2.48	2.98	3.98	3.34	4.24	4.71	5.34	2.98	6.11	39.56	
August	4.80	6.51	8.17	3.79	2.73	3.86	0.05	10.60	5.92	5.66	52.09	
September	1.88	7.29	3.48	5.31	6.19	7.58	5.43	7.61	1.88	10.87	57.52	
October	5.34	4.66	9.03	5.12	7.60	.97	2.68	5.80	6.01	4.51	51.72	
November	4.66	1.18	3.12	8.39	.70	8.02	6.35	4.18	4.52	3.57	44.69	
December	4.85	7.18	2.64	6.80	5.26	5.86	2.48	8.33	9.87	2.12	54.89	
TOTALS	40.48	51.24	57.65	53.31	55.37	52.93	53.04	73.19	52.83	55.52	545.56	
	D	D	D	D	D	D	D	D	D	D	D	

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
1941			Stirling	4 m			

Station No. 5355

51

RAINFALL at Stirling (Touche Reservoir) No. 3.

County of Stirling Observer A. B. Harris Esq.

River Basin Forth Right Bank - 1 J. H. Liahman Esq.

Type of Gauge Plancher

Annual Average 49.1 in. based on 18 years obs. De-weighted. Period of average 1881-1915 Ref. 5  
52.77 - " 35 " " 1916-1950 1916-1950 P  
File No.

Diameter	8"				891	004					
Height	1' 0"						1				
Altitude	759'						51				
Year	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	Means
January	6.89	4.49	1.80	4.94	3.03	3.16	7.49	5.08	1.90		
February	3.65	1.05	1.56	4.88	2.52	1.75	5.27	3.12	1.91		
March	3.44	4.22	2.68	4.64	2.37	2.82	4.95	1.83	3.05		
April	3.78	2.56	2.46	2.22	1.95	1.12	1.83	1.47	4.43		
May	2.02	2.41	3.43	5.39	3.87	2.31	3.49	3.86	1.38		
June	2.76	3.63	3.13	3.11	1.82	4.65	2.22	4.24	2.73		
July	3.72	2.71	6.89	2.35	1.18	6.24	5.37	8.78	5.65		
August	7.80	7.34	3.44	5.14	1.09	1.28	4.67	5.87	1.48		
September	4.34	2.74	5.87	6.89	3.32	6.98	2.74	4.84	1.01		
October	1.34	5.24	3.17	9.94	3.54	4.61	4.96	5.19	4.39		
November	8.22	1.95	7.66	8.78	2.82	1.24	1.63	1.77	5.63		
December	8.76	4.63	6.08	6.47	8.73	6.39	6.57	7.63	4.66		
TOTALS	55.92	42.97	48.17	64.75	36.24	49.55	61.18	53.68	41.22		
	D	D	D	D	D	D	D	D	D	Inp.	

Inv. Sept 1957. By post. A little exposed to south. See view g. in sheltered hollow  
175° NNE  
1959 imp check and 620.

1956 imp. last.

New site 26/7329.5

m imp.  
Ref. 66 86/730913

Position of Station on Ordnance One-Inch map :			No. of Map	National Grid Reference NS (25) 1752915		
Date.	Lat. N.	Long.	Railway Station.	Distance from gauge	Parish Church.	Distance from gauge.
1954			Stirling	4½ mds N.E.	Cambuskenneth	3 mds N.E.

Summary of Earlier Records from 10-year Sheets :

1916-1950, P (Inp.) - accepted

Record D, or d		1910-19	1920-30	1931-40	1941-50	1951-60
		C imp. 1914	✓	✓	✓	✓
		✓ End - 17.11.14	✓	✓	✓	✓

## Air Ministry, Meteorological Office

75/891007

Station No. 5355/1

RAINFALL at Stirling (Torch Res) No. 3. (N. G.)County of StirlingObserver J. H. Leitchman, Esq.River Basin Forth - Right Bank - 1.

Type of Gauge \_\_\_\_\_

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

59.6

Ref. \_\_\_\_\_

File No. \_\_\_\_\_

Diameter	...		891	007						5"		
Height	...				1					1' 0"		
Altitude	...				51					758'		
Year	...	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	Means
January	...									-100	2.08	5.46
February	...										2.37	5.80
March	...										3.44	2.82
April	...										4.88	5.46
May	...									-100	1.41	4.17
June	...										4.40	3.32
July	...										8.92	5.99
August	...										6.05	1.74
September	...										5.15	1.13
October	...										5.85	5.12
November	...										2.02	6.58
December	...										8.91	8.98
TOTALS	...									-100	47.04	60.70
										n.p.	D.	D

1958 n.p. inc.

Position of Station on Ordnance One-Inch map: No. of Map 67 National Grid Reference 24/732913

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
C 1958					

Station No. 5356

51

RAINFALL at Stirling (Tawich Reservoir) 10.2.  
 County of Stirling Observer A. B. Morris Esq.  
 River Basin Forth Right Bank - 1 J. H. Leishman Esq.  
 Type of Gauge Glaisher

Annual Average 47.9 in. based on 29 years obs. un-weighted. Period of average 1881-1915 Ref. 5

File No.

Diameter	8"				891	009					
Height	1'0"						1				
Altitude	707'						51				
Year	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	Means
January	5.47	4.06	1.64	4.71	2.88	3.16	7.48	5.16	1.88		
February	3.22	.81	1.54	4.67	2.52	1.55	4.96	2.99	1.92		
March	2.83	3.81	2.60	4.26	2.33	2.56	4.65	1.65	2.90		
April	3.46	2.12	2.53	2.09	1.74	0.97	1.80	1.44	4.19		
May	1.85	2.23	3.05	4.71	3.48	2.24	3.38	3.61	1.32		
June	2.39	3.36	3.28	2.94	1.75	4.39	2.15	4.01	2.80		
July	3.44	2.48	6.59	2.18	1.07	5.86	4.93	8.36	5.39		
August	4.37	6.93	3.22	4.69	1.10	6.99	4.27	5.86	1.46		
September	4.01	2.60	5.62	6.20	3.10	6.71	2.64	4.59	.98		
October	1.14	4.92	2.98	9.15	3.43	4.76	4.67	5.12	4.13		
November	4.39	1.91	7.26	8.22	2.66	1.20	1.54	1.74	5.36		
December	8.00	4.53	5.98	6.18	8.23	6.17	6.65	7.46	7.49		
TOTALS	50.57	39.76	46.29	60.00	34.29	46.88	49.12	57.99	39.82		
	D	D	D	n.p.	D	n.p.	D	D	NP.		

1954. n.p. low. Ius. Sept 1957 G. moderately good. - least below knife edge - 4½'  
 1955 " " fence 6' diameter. 1/5 from fence 1/2 in local knoll. Recom  
 move to new site 40' east + new g.

1959 np check and low.

Position of Station on Ordnance One-Inch map :			No. of Map	National Grid Reference 26735918		
Date.	Lat. N.	Long.	Railway Station.	Distance from gauge	Parish Church.	Distance from gauge.
1954			Stirling	4½ miles N.E.	Cambuskenneth	2 ¾ miles N.E.

Summary of Earlier Records from 10-year Sheets :

1916-1950, P (Wm) - Rejected

Record D, or d		1910-19	1920-30	1931-40	1941-50	1951-60
		✓ but - 10, 11, 17	✓ ✓	✓ ✓	✓ ✓	✓ but - 4

## Air Ministry, Meteorological Office

Station No. 53561

51

RAINFALL at Stirling (Torch Res) No 2

County of Stirling

Observer

River Basin Forth - right bank - 1

Type of Gauge

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

59.23 " 42 " within 1916-59

Ref.

S

File No.

Diameter	...			991	008				5"		
Height	...					1			1' 0"		
Altitude	...					51			704		
Year	...	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960
											Means
January	...								-100	2.64	5.34
February	...									2.34	6.00
March	...									3.31	2.84
April	...									4.80	5.29
May	...								-100	1.42	4.11
June	...									4.43	3.22
July	...									8.82	6.08
August	...									6.16	1.62
September	...									5.16	1.13
October	...									5.76	4.95
November	...									2.03	6.61
December	...									8.64	9.07
TOTALS	...								-100 n.p. me	46.59	60.29
										D.	D.

1958 n.p. inc. no N.G.R. Met plotted on 1/2" O.S.

Position of Station on Ordnance One-Inch map:

No. of Map 8567

National Grid Reference NS(26) 735918

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
	C 1958.				

Station No. 5357

51

RAINFALL at Stirling (Torch Reservoir) No. 1.  
 County of Stirling Observer D. B. Harris Esq.  
 River Basin Foss M. Right Bank - 1 g. H. Leishman Esq.  
 Type of Gauge Glasisher

Annual Average 47.6 in. based on years obs. un-weighted. Period of average 1916-1950 Ref. P  
 53.05 - " 35 " 1916-1950 File No.

Diameter	8"				891	025					
Height	1'0"						1				
Altitude	453'						51				
Year	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	Means
January	5.96	4.38	1.75	6.16	3.21	3.76	8.37	5.60	1.93		
February	3.63	.92	1.55	5.45	2.67	1.62	5.46	3.10	2.07		
March	3.33	4.24	2.91	5.26	2.59	3.02	5.10	1.74	2.93		
April	4.01	2.43	2.75	2.29	2.04	1.03	2.01	1.35	4.40		
May	1.92	2.41	2.97	5.08	4.11	2.73	3.48	3.72	1.36		
June	2.62	3.42	3.25	3.04	1.93	4.52	2.14	3.82	2.74		
July	3.88	2.67	6.23	2.16	1.02	6.34	5.15	7.79	5.78		
August	7.81	6.31	3.00	4.81	1.26	7.09	4.47	5.22	1.36		
September	4.31	2.82	5.76	6.62	3.51	6.74	2.81	4.74	.92		
October	1.21	5.32	3.09	10.22	3.47	5.36	4.72	5.02	4.42		
November	7.79	2.02	8.42	9.31	2.80	1.28	1.47	1.74	5.84		
December	8.71	4.70	6.81	7.09	9.61	7.06	6.94	7.84	8.03		
TOTALS	55.18	41.64	48.49	67.49	38.22	50.55	52.12	51.68	41.78		
	D	D	D	D	D	D	D	D	NP.		

In the Sept 1957. by sound. 01 & 16 east - west of spray and eddying.  
 Rec. new gauge and move 36° SW. One year overlap  
 1959 NP check.

Position of Station on Ordnance One-Inch map : No. of Map ..... National Grid Reference 267459.7

Date.	Lat. N.	Long.	Railway Station.	Distance from gauge	Parish Church.	Distance from gauge.
1954			Stirling	3½ mds N.E.	Cambuslanga	2 mds N.E.

Summary of Earlier Records from 10-year Sheets :

1916-1950, P (Bm20) accepted

Record D, or d		1910-19	1920-30	1931-40	1941-50	1951-60
		✓ but - 10-11	✓	✓	✓	✓

## Air Ministry, Meteorological Office

Station No. 53571

75-891026

RAINFALL at Stirling (Torch Res) No 1County of Stirling

Observer

River Basin Forth - Right Bank - 1

51

Type of Gauge

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

55.0

File No.

Diameter	...	891	026	5"							
Height	...			1							
Altitude	...			51							
Year	...	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960
January	...								-100	2.07	5.25
February	...									2.19	5.53
March	...									3.05	2.61
April	...									4.53	5.15
May	...								-100	1.39	3.69
June	...									4.03	2.91
July	...									7.97	6.01
August	...									5.34	1.44
September	...									4.98	.95
October	...									5.31	4.63
November	...									1.80	6.13
December	...									8.35	8.65
TOTALS	...								-100	43.95	56.32
										N.P. D.	D.

1958 n.p. inv. No N.G.R. Not plated on 1/2" O.S.

Position of Station on Ordnance One-Inch map: No. of Map ~~NS 26~~ 67 National Grid Reference NS 26 746917

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
c 1958					