

RAINFALL AT Montrose Melville Gardens

Lat. _____

Lon. _____

County of Forfar

Rain Gauge, by _____

Observer W. A. Bruce
Mr J. R. Findlay

S. 22 - 3.

Diameter			5								
Height			9 0							7.0	
Altitude						23					
Year	1890	1891	1892	1893	1894	1895	1896	1897	1898	1899	MEANS.
January			2.30			2.93	.43	1.05	.78	2.71	
February			2.10			.69	1.25	.56	.72	1.88	
March			1.10			2.91	.69	3.23	.79	2.10	
April			1.18			.87	.94	1.17	5.36	2.60	
May			2.18			.62	.79	1.16	1.46	3.22	
June			2.23			1.91	2.52	4.11	1.05	2.51	
July			1.65			4.36	3.10	1.00	1.18	1.64	
August			3.81			3.18	1.67	2.71	2.04	.89	
September....			1.83			.97	2.81	1.50	.90	2.51	
October			4.23			2.68	3.18	2.26	3.07	.50	
November....			1.77			3.01	1.01	.97	3.55	1.40	
December			1.14			2.93	5.96	2.69	1.20	4.03	
TOTALS			25.52	^{No} Reply		27.06	24.35	22.41	22.10	25.99	

1892 Melville Church 230 ft SE

Flagstaff 30 ft high 24 ft N

Gauge in the centre of a flat roofed building 17 ft 6 in
by 12 ft + 7 ft 6 in high rim of gauge 1 ft 6 in above the roof.

1895 Montrose Church 300 yards N.W

House 30 ft high 120 ft E + W

RAINFALL AT *Montrose Melville Gardens*

West End Park

Lat. *56° 42' 30" N*

Lon. *2° 28' 8" W*

County of *Forfar*

Rain Gauge, by

Observer

*Mr J. R. Findlay
S. L. Christie Esq*

S. Sk - 3.

Diameter ..	5											
Height	7.0		9.0									
Altitude ..	23 T											
Year	1900	1901	1902	1903	1904	1905	1906	1907	1908	1909	MEANS.	
January ..	3.26	1.69	1.16	3.32	2.03	.52	1.73	1.38	1.43	1.10	1.762	
February ..	2.88	1.46	1.14	3.55	2.78	.72	.79	.97	.41	.48	1.518	
March	1.39	1.10	1.12	2.65	1.68	3.21	.84	1.18	2.84	3.43	1.944	
April	1.26	2.85	2.39	1.20	1.30	1.97	1.15	2.03	.91	3.21	1.827	
May	1.30	1.90	2.61	1.44	2.33	1.72	4.74	5.19	1.37	2.32	2.492	
June	2.14	1.59	2.25	1.93	.69	.43	.54	5.82	.92	.71	1.702	
July	3.95	1.18	3.02	4.45	.81	1.46	.58	1.96	1.43	3.48	2.232	
August	2.58	2.45	3.40	4.02	4.73	4.49	4.82	2.64	2.39	1.68	3.320	
September ..	1.53	.97	1.71	2.95	1.53	1.44	.87	1.07	3.24	.65	1.596	
October	2.50	2.09	1.64	4.78	.74	1.20	5.17	4.77	2.92	2.48	2.829	
November ..	2.78	1.76	2.25	1.21	1.03	6.46	3.52	2.09	1.40	.74	2.324	
December ..	3.02	3.18	2.23	2.78	1.97	1.34	2.89	2.76	(2.51)	2.52	2.520	
TOTALS ..	28.59	22.22	24.92	34.28	21.62	24.96	27.64	31.86	21.77	22.80	26.06	

1900 Montrose Church 1/2 mile W

Trees 30 ft high 30 ft W

1903 Montrose Station 300 yards N

1908 Dec corrected for hours

Hill

RAINFALL at

Montrose ^{West End Park}
Melville Gardens

5602

County of Forfar

Observer S. L. Christie Esq.

River Basin South Esk to 3

Rain Gauge, by

Diameter ...	5											
Height	9 0				8 6			8 0		9 0		
Altitude ...	207											
Year ...	1910	1911	1912	1913	1914	1915	1916	1917	1918	1919	SUMS Means. 1916-1919	
January ...	1.43	1.63	2.87	3.07	1.18	2.31	.98	1.52	1.76	2.72	6.98	
February ...	2.06	.71	3.04	.70	2.17	4.06	1.89	.86	1.94	1.88	6.56	
March	1.09	1.03	1.22	3.11	3.02	1.14	2.12	1.16	1.18	1.31	5.77	
April	2.05	1.49	.10	2.34	.78	.45	1.66	.88	.46	2.08	5.08	
May	1.91	1.14	1.14	2.83	1.97	.94	2.65	1.65	4.11	.85	9.26	
June	1.00	1.03	1.54	1.83	.77	.76	3.55	.84	1.50	1.05	6.94	
July	2.07	1.49	1.75	.43	2.18	3.53	5.27	1.61	4.96	.59	12.43	
August	5.01	.99	3.26	1.26	1.61	2.49	4.11	3.84	1.89	2.24	12.08	
September ..	.91	.87	1.92	2.79	.67	1.28	.93	1.14	2.76	1.32	6.15	
October ...	2.43	2.05	3.62	1.30	2.17	2.77	3.52	2.74	1.83	2.02	10.11	
November ..	2.86	3.36	2.23	1.38	2.66	1.56	3.19	2.72	1.62	3.60	11.13	
December ...	2.67	5.01	1.43	1.15	4.14	5.80	3.42	1.01	1.67	4.98	11.08	
TOTALS ...	25.49	20.80	24.12	22.19	23.32	27.09	33.29	19.96	25.68	24.64	103.57	

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Date.	Lat. N.	Long. W.	Railway Station.	Distance.	Direction.	Church.	Distance.	Direction.
1912	56°42'37"	2°28'5"	Montrose	400 yds	N	Montrose	300 yds	NE

RAINFALL at *Montrose, Melville Gardens, West-End Park* 1922County of *Forfar*Observer *S. L. Christie Esq*River Basin *South Esk & C. 3.**D. Marshall Esq. 1923.**No. pattern* Rain Gauge, by *(125)*

Diameter ...	5"			6							5		
Height	9.0		1.0	1.0							1.0		
Altitude ...	20	25	12	12				19	25	9			
Year	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929	1930. MEANS.		SUMS
January ...	1.79	1.78	4.07	1.78	2.41	1.75	4.41	1.82	4.76	1.32	1.63		27.52
February ...	1.20	.50	2.01	4.74	.55	3.10	4.35	1.47	1.17	1.71	.90		21.70
March	1.33	2.08	1.93	1.40	.67	1.18	.49	2.47	3.91	.23	1.25		17.24
April	2.13	1.34	2.35	2.41	1.99	2.88	1.95	2.12	1.17	1.05	2.22		21.61
May	2.72	2.63	.62	1.76	3.58	3.33	2.80	2.47	1.49	2.35	1.50		25.25
June37	.80	.88	0.72	1.42	.81	2.34	2.51	3.28	1.57	1.63		16.33
July	3.12	1.91	2.86	1.82	4.41	2.19	2.51	2.04	1.60	3.16	2.39		28.07
August	2.81	2.02	2.21	5.34	3.67	2.12	2.39	3.34	4.33	4.60	5.30		38.13
September...	1.52	1.12	2.72	2.80	5.08	3.21	4.72	6.70	2.54	.64	5.03		36.08
October	2.21	1.44	1.64	2.51	4.81	2.53	5.70	5.17	3.49	2.93	2.81		35.44
November...	2.09	2.20	1.57	2.87	1.85	1.18	5.26	2.20	2.58	3.71	5.58		29.09
December...	3.84	1.08	1.70	3.33	3.08	2.08	5.34	2.39	2.71	4.81	3.34		28.70
TOTALS...	25.13	18.90	24.56	21.48	33.52	26.36	37.56	34.70	33.03	28.08	31.58		324.90

1922. Gauge moved 20 x 22. 15 ft S.

1929. Greenhouse 12' high, 30 yds. WNW.

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	Direction
1920	56° 48' 3"	2° 28' 5"	Montrose	1/4 mi	N	Montrose	1/4 mi	N E

RAINFALL at *From Rose (West-End Park)*County of *Angus (Forfar)*Observer *D. Maxwell, C.E.*River Basin *3. South Esk &c.**The Bungalow, Sunnington (1938)*Type of Gauge *"6. R"*Annual Average *26.0* in. based on *34* years obs. un-weighted. Period of average *1881-1915*. Ref. *S*

Diameter	5.										
Height	1.0										
Altitude	919			19							
Year	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940	Sun's Means
January	4.21	1.60	1.86	1.44	1.13	4.68	4.32	2.98	3.49	1.69	27.40
February	1.66	.20	1.94	.11	1.83	2.91	3.04	.92	2.31	1.48	16.40
March	1.33	3.22	1.60	2.28	1.64	1.92	2.84	.34	2.69	2.62	20.48
April	2.07	2.66	1.72	6.44	3.69	.51	2.18	.37	.66	1.32	21.62
May	3.12	3.24	1.14	2.48	1.10	1.15	2.28	2.86	1.28	1.37	20.02
June	5.00	1.04	1.01	.80	3.93	.88	1.92	3.46	1.70	.15	19.89
July	4.84	3.66	2.94	2.69	1.08	4.19	4.25	3.58	4.64	5.07	36.94
August	2.16	.54	.99	3.05	1.58	1.11	6.49	.72	1.81	.74	19.19
September	1.55	2.20	1.09	3.35	4.01	3.44	1.38	3.28	2.46	2.49	25.25
October	.79	6.75	3.96	2.83	3.65	.98	2.15	3.42	2.91	4.71	33.15
November	6.49	1.23	2.48	1.16	4.53	1.16	.80	3.84	3.54	6.08	31.31
December	1.14	2.34	1.58	4.36	2.49	1.91	3.94	3.29	1.26	2.31	24.62
TOTALS	34.36	28.68	22.31	30.99	30.66	24.84	36.59	29.06	28.75	30.03	296.27
	D.	2	D	D.	D.	D	3	D	D	D	

Inspected 26/5/41 by Mr. Haines. 5 gage gauge which is bad and in need of repair or replacement. Pipe broken. Measuring glass broken at 4.0. Site unsatisfactory. g. is on concrete slab with wall 12 high & from p. which might cause overflowing.

via New gauge placed in position close of concrete slab.

1933 up.

Position of Station on reduced Ordnance Survey Map,
1 mile to 1 inch Series

No. of Map.....

Reference No.....

Date.	Lat. N.	Long.	Railway Station.	Distance from gauge	Direction from gauge	Parish Church.	Distance from gauge	Direction from gauge
			L.N.E.R.	1/2 m	NNW	Montreal	1/2 m	NE.

RAINFALL at Montrose (West End Park) Station No. 5602 41
 County of Angus (Forfar) Observer The Borough Surveyor
 River Basin 3 - South EPK & C.
 Type of Gauge B.A. ?

Annual Average 26.0 in. based on 34 years obs. unweighted. Period of average 1881 - 1915 Ref. S.

File No. X

Diameter	5"				856	991						
Height	1'0"					1						
Altitude	19'					41						
Year	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	SUM	Means
January	2.87	4.22	3.22	1.17	4.20	1.43	4.12	3.85	1.02	1.45	27.55	
February	4.83	1.76	0.99	.84	2.08	0.96	2.42	2.39	1.23	2.25	19.75	
March	1.41	1.56	0.40	.73	.82	1.64	2.70	.69	1.40	2.49	13.84	
April	2.42	1.29	1.29	2.63	1.05	0.28	2.89	1.05	2.12	1.28	16.30	
May	1.89	2.94	3.88	2.60	4.52	1.74	4.37	3.49	1.56	1.28	28.27	
June	1.33	0.82	1.08	2.39	1.99	3.52	2.55	2.99	1.12	.97	18.76	
July	2.63	2.49	1.73	1.79	2.86	4.44	1.65	2.19	1.93	3.89	25.60	
August	2.85	2.98	4.09	1.29	4.23	2.60	.07	5.76	3.26	2.85	29.98	
September	0.38	2.58	2.23	2.06	3.25	3.25	1.66	1.84	1.82	5.84	24.88	
October	4.54	2.55	2.63	4.45	4.68	0.55	1.39	2.82	3.49	1.15	28.25	
November	4.00	.42	1.13	2.72	1.35	6.46	1.93	1.01	3.77	3.03	25.82	
December	0.83	2.53	1.02	2.71	4.57	3.43	1.94	3.75	1.80	1.41	23.99	
TOTALS	29.98	26.14	23.69	25.38	35.60	30.30	27.66	31.83	24.52	27.89	282.99	

1950 May & Oct. corr after ref. to the observ.

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.
1941			NER	20 mls	NNW.	Montrose	29 mls	NE.

BRITISH RAINFALL ORGANIZATION

13/5/60

(Wellington Park)

Station No. 5602

RAINFALL at

Montrane (West End Park)

51

County of

Angus (Forfar)

Observer

The Borough Surveyor

River Basin

South Esk - 3

Type of Gauge

11.0, 1930, 1930

Annual Average 26.8 in. based on 34 years obs. un-weighted.

Period of average

1881-1915

Ref. S

28.79 - " " 35 " " 1916-1950

File No. 1916-1950

F

Diameter ...	5"5"				856	991						
Height ...	1'0"	16" 12.5"				1						
Altitude ...	19'					51	17'					
Year ...	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	Means	
January ...	4.57	-1.00	(6.00)	1.15	.90	3.19	2.47					
February ...	2.31	-1.00	0.66	2.19	1.99	1.42	-1.00					
March ...	2.27	-1.00	0.29	2.12	1.47	.98						
April ...	2.49	1.04	3.13	1.28	.71	1.02						
May ...	1.47	2.83	1.90	2.98	1.39	1.42						
June ...	1.69	2.26	1.44	1.56	.68	2.59						
July ...	2.69	2.38	4.00	1.66	.65	3.33						
August ...	3.80	2.42	2.33	2.66	.36	4.56						
September ...	1.45	.80	2.85	2.02	1.65	4.75						
October ...	0.76	2.40	1.21	5.18	2.43	1.82						
November ...	7.07	1.91	2.52	4.81	2.09	.81						
December ...	1.91	2.00	3.34	2.75	6.28	3.53	-1.00					
TOTALS ...	32.48	-1.00	24.27	30.30	19.61	28.42	-1.00					
	D	inf.	D	D	D	D	D					

Imp. IT Thomson 19.6.53. Garden wall 6'8" N to S, 20'30" avg. Ground slopes down E to W 1:8. Built building beyond.
 Site on sheltered garden, well-wooded garden, suitable sheltered.

1960 terminated. No records mid river 1957. Very much to 5602/1 in Feb 1957

No. 37 714577

Position of Station on Ordnance One-Inch map :

No. of Map

National Grid Reference

Date.	Lat. N.	Long.	Railway Station.	Distance Direction from gauge	Parish Church.	Distance Direction from gauge.
1951			(L.N.E.R.)	20.3 NNW	Montrane	29.3 NE

Summary of Earlier Records from 10-year Sheets :

1916-1950, P-accepted

Record D, or d	1910-19	1920-30	1931-40	1941-50	1951-60
	✓ but not shut d. 19	✓ shut d. 20	✓	✓	✓

RAINFALL at

Montrose (Wellington Park)

Station No. 5602/1

51

County of

Angus

Observer

Burgh Surveyor.

River Basin

Type of Gauge

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

File No.

288

Diameter ...				854	648		5"				
Height ...					1		1'				
Altitude ...					51		17'				
Year ...	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	Means
January ...							(250)	3.26	1.13	3.97	
February ...							2.68	2.49	0.15	2.40	
March ...							2.23	4.67	1.10	1.54	
April ...							0.52	1.81	1.75	1.98	
May ...							1.44	2.57	1.56	.71	
June ...							1.16	1.14	3.51	1.74	
July ...							3.93	6.20	2.33	2.49	
August ...							3.78	4.80	0.45	5.79	
September ...							1.18	2.18	0.57	2.87	
October ...							1.09	1.44	3.13	7.53	
November ...							1.12	.58	5.04	4.26	
December ...							2.88	3.80	6.20	2.18	
TOTALS ...							24.51	34.94	25.92	37.26	

g. previously at 5602
1957 printed with footnote.

4000 4

37/22582
37/718578

Position of Station on Ordnance One-Inch map :

No. of Map

National Grid Reference

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

Summary of Earlier Records from 10-year Sheets :

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