

RAINFALL AT

Derby Midland Railway

Lat. _____

Lon. _____

County of

Derby

Rain Gauge, by _____

Observer

W Langdon Esq

Inst. Serial - 6.

Diameter . . .										5	
Height										4.6	
Altitude										148 L	
Year	1880	1881	1882	1883	1884	1885	1886	1887	1888	1889	MEANS.
January . . . .		.60	4.50 [#]	2.66	2.60	1.88	2.62	1.36	.86	1.19	
February		4.60	2.10	2.77	1.38	2.02	.25	.38	.64	1.42	
March		2.20	1.70	.57	1.58	.87	1.78	.90	2.17	3.43	
April		1.70	3.00	2.16	1.61	1.87	1.68	1.14	1.69	2.52	
May		1.20	2.10	1.10	.90	1.87	5.08	1.29	.52	3.51	
June		2.30	4.50	4.41	.99	2.95	1.20	.84	2.74	.37	
July		1.10	2.90	2.15	3.72	.25	3.60	1.34	4.76	2.70	
August		4.30	1.90	1.56	2.28	1.90	2.53	1.48	2.38	2.87	
September . . .		1.90	2.50	4.68	1.11	2.67	1.04	1.92	.92	2.34	
October		3.60	5.10	2.60	1.12	5.58	4.57	1.42	.60	2.37	
November		2.90	3.80	3.60	1.06	2.41	1.71	1.42	3.42	.93	
December		2.20	3.30	1.06	2.22	.56	2.85	1.30	1.59	1.96	
TOTALS		(68.00) [*]		29.32	20.57	24.83	28.91	14.74	22.29	25.61	

* computed from Chest Church

St. Andrews Church 500 yards N.W.
 Shed 22 ft high 33 ft N.W.

RAINFALL AT *Derby Midland Railway*

Lat. _____

Lon. _____

 County of *Derby*

Rain Gauge, by _____

 Observer *W Longdon Esq*
Zero, descent - 6,

Diameter	5											
Height	1.5											
Altitude	138	156	170									
Year	1890	1891	1892	1893	1894	1895	1896	1897	1898	1899	MEANS.	
January	2.40	1.82	1.38	1.43	1.65	3.33	.91	2.07	1.18	2.77	1.894	
February ....	.69	.12	1.25	2.44	2.32	.12	.66	3.11	1.48	1.24	1.343	
March	1.10	1.45	.90	.34	1.04	1.29	2.68	2.10	1.19	1.01	1.310	
April .....	.71	2.55	.74	.82	1.24	2.09	.86	1.84	2.07	2.32	1.524	
May	1.70	2.17	2.65	2.15	1.42	.52	.36	1.39	2.42	3.01	1.779	
June	1.52	4.65	3.36	.76	2.03	.96	1.87	3.25	1.44	2.89	2.272	
July	1.58	2.11	2.13	2.80	2.28	3.07	2.15	.23	1.25	2.27	1.989	
August	2.97	3.65	2.75	1.58	1.85	2.08	1.51	2.88	2.13	.95	2.285	
September....	1.66	1.07	2.82	2.14	.50	.42	3.17	2.64	.38	2.64	1.744	
October.....	1.58	4.66	2.65	1.88	2.04	2.24	2.06	.97	2.55	2.89	2.352	
November....	(3.46)	2.10	1.44	1.19	1.74	3.09	.98	1.71	2.32	1.30	(1.933)	
December ....	.74	3.73	1.27	2.29	2.10	2.31	3.65	2.95	1.87	2.27	2.218	
TOTALS	(20.11)	30.08	23.34	19.82	20.21	21.52	20.86	25.14	20.28	25.56	(22.692)	

1890 St Andrews Church 600 yards N.W.

Timber Stack 12 ft high 24 ft S

Bunding 12 " " 36 " N

36 " " 90 " N.W

1890 Gauge moved 300 yards E.

RAINFALL AT *Derby Midland Railway*

Lat. Lon. County of *Derby*

Smidder Rain Gauge, by Observer *W. Langdon Esq.*

Front *sement - 6.*

g. Sayers Esq.

Diameter ..	5										
Height	1.5										
Altitude ..	156 π										
Year	1900	1901	1902	1903	1904	1905	1906	1907	1908	1909	MEANS.
January ..	3.80	1.50	.93	2.00	2.05	.80	3.28	1.15	1.13	1.28	1.792
February ..	3.63	1.16	1.54	1.15	2.80	.67	2.57	1.76	1.42	.65	1.735
March ....	.61	1.92	1.41	3.43	1.57	2.51	1.51	1.38	2.72	3.07	2.013
April	1.06	1.76	2.25	1.90	1.67	1.37	.60	1.73	2.34	1.48	1.616
May	1.59	.84	2.63	3.15	1.81	.39	1.65	3.84	2.40	1.84	2.014
June	4.76	1.84	2.53	1.26	.53	2.39	2.04	3.25	1.53	2.26	2.239
July	3.97	3.31	1.40	2.21	1.95	.84	.55	2.67	2.45	3.01	2.236
August	4.61	1.51	3.22	4.86	2.67	2.93	.92	3.38	3.81	2.45	3.036
September ..	.85	.90	1.66	2.70	1.67	1.20	.96	.75	1.67	2.31	1.467
October	2.93	1.62	2.42	5.38	.55	1.20	5.05	3.79	1.09	3.51	2.754
November ..	2.22	1.74	1.69	1.96	1.25	2.50	2.60	1.83	1.57	.50	1.786
December ..	4.09	5.44	1.69	1.23	1.39	.63	2.10	2.85	1.50	4.35	2.527
TOTALS ..	34.12	23.54	23.37	31.23	19.91	17.43	23.83	28.38	23.63	26.71	25.215

1900 Building 12 ft high 36 ft N
 " 36 " 90 " N.W.
 1909 Fence 7'9" high 42 ft NE

+ Inspected

RAINFALL at Derby Midland RailwayCounty of DerbyshireObserver J. Saynor EsqRiver Basin Trent-Derwent 6Snowdon Rain Gauge, by

Diameter ...	5										
Height	1.5										
Altitude ...	155 X										
Year ...	1910	1911	1912	1913	1914	1915	1916	1917	1918	1919	MEANS.
January ...	2.47	.77	3.98	3.38	1.50	2.60	1.50	2.48	1.70	3.17	
February ...	2.36	1.70	1.60	.87	1.33	2.63	4.59	.82	1.98	2.30	
March .....	.52	1.39	2.67	3.78	2.27	.97	3.64	1.32	1.29	4.41	
April	1.85	1.38	.20	3.21	.77	.95	1.61	.95	1.32	1.20	
May	2.43	.73	2.56	2.11	1.79	1.73	1.92	2.61	3.25	1.36	
June	1.58	2.35	5.22	1.15	1.83	1.24	1.28	2.90	.56	.77	
July	2.84	.05	3.50	.90	3.53	7.38	2.01	1.21	2.46	2.65	
August	3.56	1.69	6.12	2.15	1.64	2.12	2.65	4.64	1.91	2.09	
September ..	.54	1.51	1.02	1.48	.97	.89	.91	1.55	5.34	1.60	
October ...	2.00	2.12	2.99	2.76	1.98	1.59	2.82	3.60	1.25	2.42	
November ..	4.56	2.12	1.93	2.39	3.62	2.66	2.93	1.47	1.39	1.77	
December ...	4.82	3.96	3.36	1.01	5.71	4.85	2.37	1.04	3.77	3.68	
TOTALS ...	29.53	19.77	35.15	25.19	26.94	29.61	28.23	24.59	26.12	27.42	27.255

1912 fence 7.9' high 42 ft NE

+ Inspected

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

L.M.S.

RAINFALL at Derby Midland RailwayCounty of DerbyshireObserver J. Lavers Esq.River Basin Great-Oderwent 6

[M&S Reg. Electrical Dept.]

Snowdon Rain Gauge, byHoward (in)

5.00

5.00

5.00

glass correct (flat bottom) } overflow capacity only 1.90 in. in all.

(1925) Snowdon:											
Diameter ...	5"										
Height	^{superior} 1.5"					1.0					
Altitude ...	156										
Year	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929	1930 MEANS.
January ...	2.91	2.41	3.49	1.99	2.09	2.16	2.73	1.87	5.16	1.24	3.60
February ...	1.98	3.0	2.58	3.24	5.4	2.78	2.66	1.73	2.52	.44	.71
March	1.83	1.02	1.65	1.07	9.7	8.6	1.07	2.45	1.70	.21	2.83
April	3.76	1.01	2.42	1.78	2.22	1.87	1.91	2.22	1.19	.94	2.73
May	2.00	1.68	.92	2.42	3.66	5.77	2.97	1.40	87	2.31	3.03
June	2.74	.29	.82	4.1	2.04	.00	2.11	4.08	2.76	1.14	1.76
July	3.70	.44	3.85	3.56	2.68	2.21	2.27	3.10	1.32	1.54	5.70
August .....	.71	4.64	4.78	2.32	2.66	3.40	2.03	3.18	3.09	2.01	2.26
September...	1.56	1.05	1.80	2.30	2.62	3.14	.96	4.43	82	.54	3.98
October	1.67	2.32	.39	1.99	4.17	3.32	2.52	2.17	3.92	3.06	3.06
November...	.71	1.38	.65	2.09	1.55	1.65	3.48	3.14	3.31	5.06	2.91
December...	2.42	1.86	3.37	2.72	2.35	2.14	.84	2.19	1.93	3.80	1.96
TOTALS...	25.99	18.40	26.72	24.89	27.55	29.30	25.55	31.96	28.59	22.38	34.53
	D	D	D	D	D	D	D	D	D	D	D

1920 Fence 7' 9" high 42 ft. N.E.

Inspected 25. 22.VII.22 2. in flat yard of railway which sheds in distance good position (perhaps later to open for a Howard), good observers.

Recommended a Snowdon.

1928. Board fence 7' 2" high 25' N.E.

Check 2. Inspected 25. 22.VII.22 Howard 5.00, 5.01, 5.00; overflow capacity only 3.84 in. 2. in more sheltered position at edge of rising path about 2 ft. above ground. 20 was recommended. D. be moved later down the path. Position would then be fairly good & quite satisfactory as a check 2.

Position of Station on reduced Ordnance Survey } No. of Map

Reference No.

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

RAINFALL at Derby (L.M. & S. Railway)

County of Derbyshire

Observer L.M. & S. Rly.

River Basin Trent - Derwent 6

(J. J. Dutton Esq.)

Type of Gauge Standard M.O. (1920)

Annual Average 25.1 in. based on 35 years obs. un-weighted. Period of average 1921-1955 Ref. A.M. Sheet

23692/30.

Diameter	5										
Height	1 0										
Altitude	156										
Year	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940	Means
January	1.59	1.69	1.56	2.41	.76	3.13	2.99	3.16	4.94	2.96	
February	2.72	.26	2.91	.42	2.21	1.72	3.80	.73	1.01	2.76	
March	.10	1.47	2.27	1.57	.69	1.72	2.12	.31	1.46	1.73	
April	3.62	2.80	1.27	2.14	3.24	1.65	2.13	.12	1.66	1.83	
May	2.65	6.55	1.52	.77	.39	.42	2.20	1.98	1.03	.98	
June	3.32	.94	1.48	.48	2.83	3.48	.90	1.80	.72	.83	
July	3.49	3.77	1.95	.97	.34	3.97	2.71	4.14	3.70	2.34	
August	5.84	1.84	.75	2.56	1.25	.93	.27	1.60	2.30	.30	
September	2.09	2.05	1.89	2.00	4.16	3.15	1.34	2.56	.98	.61	
October	.62	2.81	3.91	1.54	3.47	1.49	1.85	2.26	3.21	3.86	
November	2.86	1.67	1.04	2.03	4.90	2.05	1.49	2.55	3.99	5.73	
December	1.14	.55	.32	4.35	3.65	1.74	2.54	3.67	1.17	1.77	
TOTALS	30.04	26.40	20.87	21.24	27.89	25.45	24.34	24.88	26.17	26.72	
	D.	D.	D.	D.	D.	D.	D.	D.	np	D.	

1934.

1931. Board fence, embankment 13'10" high 25'6" E. Timber shed 20' approx. 36'8" S.

1934. Gauge moved Jan. 22nd 1936 yds. N.

1938 Building 28' N.

1944. Site moved. ref letter d. 1.1.40. encl. 34 of f. 23692/30

Flower Bed 30' SE Flower Bed 30' NE. Pole 10' high 40' S Running rails 14' W.

1939 np. low.

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
1940			Derby	287 yds.	S.			
			Derby	200 yds	N	St. Andrews	200 yds	W

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

Station No. T.F. 2659RAINFALL at Derby (L. & N. Railway)

41

County of Derbyshire Observer L. J. Dutton Esq.River Basin Leam - Derwent - GType of Gauge M.O.British Railways (1948)Annual Average 25.1 in. based on 35 years obs. un-weighted. Period of average 1881-1915 Ref Av. N. SheetsFile No. 23692/30

Diameter	5"			110	486						
Height	1'0"				1						
Altitude	156				41						
Year	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	Means
January	3.09	2.19	3.89	2.89	1.80	2.53	1.86	5.07	1.01	.91	
February	1.69	.83	.54	1.63	2.19	3.43	1.52	1.44	.61	4.33	
March	2.56	1.81	.96	.13	0.78	.74	5.41	.79	1.78	.58	
April	1.60	.93	.66	2.02	1.76	1.21	2.15	1.89	2.44	2.35	
May	2.23	3.34	2.93	1.48	1.92	1.20	1.90	1.34	2.27	1.60	
June	.81	.18	1.95	1.52	2.43	2.40	1.30	2.66	.44	1.28	
July	3.98	1.87	1.10	2.52	1.71	1.45	2.71	1.23	3.55	1.86	
August	4.45	2.15	2.42	2.17	2.58	3.42	.37	4.49	2.03	3.08	
September	.31	.83	2.00	3.29	2.23	2.93	1.76	2.12	1.97	3.80	
October	2.66	2.01	1.76	2.19	3.21	1.31	.26	2.96	4.16	.89	
November	2.70	1.17	1.80	3.63	.20	4.61	2.06	1.33	3.12	4.45	
December	.99	1.79	.75	1.28	1.66	2.36	2.61	3.60	2.01	1.54	
TOTALS	27.27 n.p.	40 19.31 n.p.	20.76 n.p.	24.75 n.p.	22.47 n.p.	27.59 n.p.	23.91 n.p.	28.92 n.p.	25.39 n.p.	26.67 n.p.	

1941. n.p. low. Flower bed 30' S.E. & 30' N.E. Pole 10' high 40' S. Running Rails 16' W.

1942. n.p. low

1943. n.p. low

1944. n.p. low (aircraft inspection)

1.12.45 Gauge moved to new site

1945 n.p. low.

1946 n.p. low

25/10/47 Jan-Oct Totals seems low. File not available

1948 Jan-Oct seems reasonable.

James 5ft high 50ft. NE and 34 ft. SW. Walls 10ft high
57 ft. SE and 68 ft. NW.

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 from gauge	Parish Church.	Distance from gauge.	Direction from gauge.
1941 1.12.45			Derby L.M.S. — " —	200 y. 500 yd.	N. N.	St. Andrews — " —	200 y. 510 yd.	W. W.

BRITISH RAINFALL ORGANIZATION

Station No. 2459

T.F. 23

RAINFALL at DERRY, ~~5~~ RAILWAY ~~3~~ RIFLE RANGE.

51

County of DERRY Observer BRITISH RAILWAYS

River Basin TRANT - DERRYNT - 6

Type of Gauge M.O.

Annual Average 25.1 in. based on 35 years obs. un-weighted. Period of average 1881-1915 Ref. A.W.S.
" 26.9 " " 34 " " WITHIN 1916-57 1916-1950 S

File No. 23692/30

Diameter ...	5"			110	486						
Height ...	1' 6"										
Altitude ...	156'				51						
Year ...	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	Means
January ...	2.28	2.53	1.07	1.13	2.58	3.43	1.69	2.52	3.19	4.86	
February ...	2.65	1.01	1.93	1.98	2.11	.67	2.16	3.54	.17	2.00	
March ...	4.70	2.68	1.51	2.12	2.50	1.24	2.22	1.58	1.46	1.44	
April ...	1.31	1.68	2.57	.29	1.19	1.63	.15	.83	2.16	1.19	
May ...	3.05	2.74	2.08	2.10	3.16	.60	.80	2.14	.34	1.40	
June ...	1.44	2.56	3.26	2.97	4.19	2.81	1.44	3.90	.76	2.50	
July ...	.78	2.10	3.02	2.19	(1.00)	2.30	2.81	5.24	1.04	3.16	
August ...	4.81	1.98	2.68	4.09	.35	4.08	3.09	1.97	1.03	3.35	
September ...	1.50	1.53	1.62	3.18	1.05	2.83	5.73	2.61	.05		
October ...	.75	3.01	2.03	3.20	1.90	1.28	1.47	2.30	2.14		
November ...	5.44	1.72	1.96	4.34	1.82	.94	2.18	1.92	2.26		
December ...	2.15	3.11	1.01	3.30	2.14	3.39	1.87	3.74	3.37		
TOTALS ...	30.86	26.65	24.74	30.89	23.99	26.20	25.61	31.74	17.97	inc.	
	d	d	d	d	d	d	d	d	d	d	

1951 Fence 6' at 36' S.W. Fence 12' at 70' N.W. Fence 5' at 51' N.E. Wall 10' at 87' S.E.
 1954. Early in May site dug for altitudes etc. removed. Interfered with later but put in order for beginning of June with a hope it would be possible to obtain records. No suitable altitudes site.
 1955 - July, etc. d. 1903.
 1960. Feb. alt. app. 1903.
 7.12.58. G. repaired (note on F 1090)
 1957 Mar-Apr, Oct-Nov. app. 1903
 1961. Interfered. New building 1/5 of gauge.

Position of Station on Ordnance One-Inch map: No. of Map: National Grid Reference SK(43)365349

Date.	Lat. N.	Long.	Railway Station.	Distance from gauge	Direction from gauge.	Parish Church.	Distance from gauge.	Direction from gauge.
1954			Derry	300x	N	St Andrews	400x	N.W.

Summary of Earlier Records from 10-year Sheets:

Record D, or d	1910-19	1920-30	1931-40	1941-50	1951-60
	✓	✓	✓ n.p. 39 331-34 d 35-40	✓ n.p. 41-46 d 45-50	