

RAINFALL AT *Lowthorpe The Elms*

Lat.....

Lon.....

County of *York*.....

Rain Gauge, by.....

Observer *H. Onslow-Piercy Esq*

Diameter.....				5							
Height.....				1							
Altitude.....				63	63						
Year.....	1870	1871	1872	1873	1874	1875	1876	1877	1878	1879	MEANS.
January.....				1.65	1.34	2.46	.89	3.60	3.06	1.25	1.425 ✓
February.....				1.61	1.53	.92	3.14	2.25	1.33	3.06	1.384 ✓
March.....				1.86	.94	.75	4.27	2.44	1.32	1.38	1.296 ✓
April.....				1.00	1.17	.45	2.41	4.04	2.05	1.56	1.268 ✓
May.....				2.11	2.08	1.18	.82	2.23	3.57	3.29	1.525 ✓
June.....				.99	.64	2.22	3.81	1.93	2.24	3.44	1.627 ✓
July.....				2.29	1.88	3.71	2.18	2.28	.83	3.19	1.636 ✓
August.....				1.84	2.07	2.31	1.95	4.42	6.48	2.85	2.192 ✓
September.....				2.13	1.76	2.73	3.86	3.83	1.92	2.21	1.844 ✓
October.....				2.17	1.72	5.10	2.91	2.49	2.57	1.31	1.827 ✓
November.....				1.31	3.71	6.24	4.06	2.34	5.84	2.17	2.567 ✓
December.....				.33	3.40	1.38	6.66	2.48	3.02	.83	1.870 ✓
TOTALS.....				19.29	22.24	29.45	36.96	34.33	34.23	26.54	20.304 x

1877 Gooseberry bush 1ft high 3ft from gauge  
 78 " " 2ft " 3ft 1in " "

Lowthorpe church  $\frac{1}{4}$  mile S.

# RAINFALL AT *Lowthorpe, The Elms* **80**

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

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

County of *York, E. R.*

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

Observer *A. Enslow Percy, Esq.**Number 3*

Diameter ....	5										
Height .....	1.0										
Altitude ....	63 ft										
Year .....	1880	1881	1882	1883	1884	1885	1886	1887	1888	1889	MEANS.
January ....	.42	1.45	2.43	2.24	2.42	2.08	3.66	1.78	1.05	1.64	1.917
February ....	1.75	3.15	1.48	2.70	1.99	2.12	1.16	.68	1.60	1.57	1.819
March .....	1.92	3.16	1.55	1.61	2.24	1.70	2.99	1.64	2.22	1.81	2.084
April .....	1.49	1.10	4.33	1.35	1.75	2.17	1.78	1.18	2.34	3.55	2.104
May .....	1.80	1.35	1.56	1.83	.57	1.73	5.09	1.69	.83	3.08	1.953
June .....	2.07	1.46	3.20	2.40	.63	3.09	.81	.14	2.08	.41	1.629
July .....	4.90	1.78	3.47	3.44	1.72	1.27	3.01	1.54	5.26	2.57	2.893
August .....	2.13	5.39	2.78	1.06	1.05	3.20	2.26	1.54	3.13	4.86	2.789
September....	5.80	4.00	1.14	4.89	1.23	3.67	1.05	1.99	1.62	1.17	2.656
October .....	6.09	3.76	5.47	3.24	.97	6.58	3.23	3.18	1.29	4.82	5.863
November....	2.53	1.69	3.19	2.52	1.92	1.55	2.23	2.19	3.05	1.26	2.213
December ....	2.88	3.01	4.78	1.81	2.65	.97	3.73	1.77	1.88	1.59	2.507
TOTALS ....	33.78	31.30	35.38	29.06	19.14	30.13	30.98	19.32	26.35	28.33	28.377

*1880. Lowthorpe 1/4 mile S.**1882 Small bush 1 1/2 ft high 3 ft NW.*

RAINFALL AT Lowthorpe The Elms

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

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

County of York E.R.

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

Observer H. Onslow Percy EsqGumblers 3

Diameter ....	5											
Height .....	10											
Altitude ....	63 $\pi$											
Year .....	1890	1891	1892	1893	1894	1895	1896	1897	1898	1899	MEANS.	
January ....	2.05	1.08	1.30	2.20	2.09	4.96	.75	2.52	.71	2.56	2.022	
February ....	1.64	.21	2.04	3.00	2.58	.99	.86	2.42	1.35	1.33	1.642	
March .....	1.28	1.99	1.37	.41	1.13	2.38	2.27	3.32	2.02	2.07	1.824	
April .....	.75	1.81	1.50	.50	1.32	1.66	1.09	1.69	3.34	1.76	1.542	
May .....	2.78	1.87	2.87	1.69	1.67	.60	.89	1.20	2.74	3.93	2.024	
June .....	2.25	.89	3.61	1.43	4.11	2.30	2.03	1.88	2.78	1.22	2.256	
July .....	1.65	3.90	1.29	2.09	2.74	4.93	1.01	.49	.87	1.18	2.015	/
August .....	4.15	3.35	2.86	1.40	1.62	3.09	1.55	3.52	3.15	.59	2.528	
September....	1.60	1.49	1.03	1.81	1.43	.95	3.02	3.01	.33	2.55	1.722	
October .....	1.32	3.25	6.57	1.97	4.77	4.38	6.07	1.83	4.06	2.39	3.661	
November....	2.79	3.06	1.59	3.72	1.79	2.68	1.68	2.60	3.15	1.01	2.407	
December ....	1.34	2.95	1.29	2.56	2.99	2.29	4.09	2.28	2.44	2.65	2.488	
TOTALS . . .	23.60	25.85	27.32	22.78	28.24	31.21	25.31	26.76	26.94	23.24	26.125	

1880 -



RAINFALL AT Lowthorpe, The Elms

Lat. ....

Lon. ....

County of York E.R.Snowdon Rain Gauge, by N.H.Observer H. J. Lowthorpe Esq.Number, L. bank - 3.FK Hawes Esq.

Diameter ..	5											
Height ....	10											
Altitude ..	63 ft											
Year ....	1900	1901	1902	1903	1904	1905	1906	1907	1908	1909	MEANS.	
January ..	3.61	1.69	1.29	1.65	2.06	.64	3.08	1.25	1.70	.68	1.765	
February ..	3.84	2.89	1.32	.85	2.63	1.08	1.74	1.56	2.00	1.47	1.938	
March ....	.92	2.04	1.27	2.31	1.65	2.34	1.90	1.16	2.31	4.42	2.032	
April .....	.89	1.83	.82	2.55	1.08	1.95	1.04	1.80	3.00	2.56	1.751	
May .....	1.50	.78	2.26	2.44	2.07	.89	2.23	2.83	1.73	2.06	1.879	
June .....	1.69	1.61	1.82	1.72	.75	.90	.76	2.27	.92	3.63	1.607	
July .....	1.17	.83	2.16	3.03	2.03	1.58	2.01	.94	2.02	3.01	1.878	
August ....	4.12	3.26	2.06	2.44	3.03	3.03	1.94	2.24	1.83	4.77	2.872	
September..	.86	.53	.55	3.08	1.22	1.73	.96	.69	2.05	1.45	1.312	
October....	3.13	1.67	2.35	6.28	.60	2.61	3.72	4.76	1.32	3.52	2.996	
November ..	2.72	3.84	1.37	2.02	2.38	3.91	3.17	2.20	1.43	.99	2.403	
December ..	3.79	4.05	2.17	1.19	2.19	.31	2.28	3.56	2.38	4.60	2.652	
TOTALS ..	28.24	25.02	19.44	29.56	21.69	20.97	24.83	25.26	22.69	33.15	25.085	54.3

1906 Jan 1<sup>st</sup> Gauge moved 12 yards W (New Gauge)  
 1907 Lowthorpe Church 1/4 mile SE  
 " Station 1/2 " SE  
 Bank 2' 6" high 3 yards E

RAINFALL at Lowthorpe ShelmsCounty of E.R. Yorkshire Observer F K Hawes EsqRiver Basin Humber Left Bank Tributaries 3

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

Diameter ...	5											
Height .....	1.0											
Altitude ...	63 K											
Year ...	1910	1911	1912	1913	1914	1915	1916	1917	1918	1919	MEANS.	
January ...	2.12	1.58	3.24	3.55	1.78	3.26	.85	3.37	1.52	3.19		8.98
February ...	2.48	1.13	1.69	.84	1.00	3.65	3.60	.85	1.94	1.57		7.96
March .....	.91	2.18	2.88	2.53	2.03	1.51	3.48	2.06	1.11	3.46		10.11
April .....	1.66	1.16	.21	1.72	.56	.81	1.03	1.96	1.53	1.87		6.39
May .....	2.69	.74	2.78	1.94	1.80	1.67	2.83	1.31	2.22	.79		7.15
June .....	1.28	3.33	3.92	1.21	1.63	.16	1.94	1.36	.47	.86		4.63
July .....	2.15	1.10	3.76	.42	3.65	6.27	1.82	1.98	3.00	1.49		8.29
August .....	3.17	2.37	4.93	.84	3.12	2.18	2.00	5.47	1.92	2.23		11.62
September ..	.43	3.19	1.81	.57	1.41	1.86	1.36	.48	5.70	1.73		9.29
October ...	3.31	1.97	3.16	2.82	1.94	1.26	2.81	3.03	.97	4.82		11.63
November ..	3.90	3.63	3.25	2.76	2.57	2.67	3.12	1.61	1.28	2.83		8.84
December ...	2.61	3.77	1.78	1.70	5.12	5.56	3.06	1.08	4.16	3.39		11.69
TOTALS ...	26.71	26.15	33.41	20.50	26.64	30.86	27.92	24.56	25.82	28.23	27.08	66.53

Sums  
16.19

8.98

7.96

10.11

6.39

7.15

4.63

8.29

11.62

9.29

11.63

8.84

11.69

66.53

27.08

66.53

11.62

9.29

11.63

8.84

11.69

66.53

27.08

66.53

11.62

9.29

11.63

8.84

Date.	Lat. N.	Long.	Railway Station.	Distance.	Direction.	Church.	Distance.	Direction.
1911			Lowthorpe	1 1/4 mi	SE	Lowthorpe	1/2 mi	SE

RAINFALL at Lowthorpe The ElmsCounty of E. R. YorkshireObserver F. H. Hawes Esq.River Basin Humber - Left Bank Tribs 3Snowdon

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

Diameter ...	5											
Height .....	1	0										
Altitude ...	63											
Year .....	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929	1930 Means.	
January ...	2.97	2.48	2.99	1.42	2.37	1.64	2.44	1.51	3.82	2.11	2.74	26.46
February ...	.86	.19	3.02	4.00	1.71	2.57	2.00	1.27	1.68	1.03	1.12	19.45
March .....	1.74	.83	2.22	1.32	1.24	1.84	.60	1.56	2.86	.08	2.06	16.35
April .....	4.06	1.02	.99	1.53	1.74	2.50	1.42	2.93	.99	1.18	2.63	20.01
May .....	1.92	1.97	.83	3.30	3.17	2.45	1.93	1.07	1.01	1.23	1.32	20.22
June .....	.84	.24	1.11	.64	1.29	.02	3.75	3.44	5.61	1.20	1.44	17.58
July .....	5.46	.95	4.51	2.59	4.06	1.94	1.32	2.55	.51	1.20	4.82	29.91
August .....	1.22	3.95	2.91	3.30	1.92	2.11	2.25	6.39	2.46	2.19	3.06	31.76
September...	1.50	.84	2.07	2.06	2.48	3.39	1.05	3.85	.52	.30	3.88	31.94
October .....	1.97	1.45	1.51	1.64	3.78	2.08	3.28	1.61	5.51	2.04	1.86	25.53
November...	.97	2.89	1.70	3.11	1.71	4.40	2.90	3.69	2.50	3.40	3.70	30.97
December...	3.22	1.53	2.43	3.22	2.42	3.52	.80	2.49	1.53	4.56	1.99	28.01
TOTALS...	26.73	18.68	26.29	28.13	27.89	28.46	23.71	32.36	24.80	20.52	30.62	28819

1925 Bush Apple Tree 7 ft. N.W.

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 from gauge	Parish Church.	Distance from gauge	Direction from gauge
1920			Lowthorpe	1 1/4 mi	E	Lowthorpe	1 1/4 mi	E



## RAINFALL 1961-1970

Station Lowthorpe (The Elms)  
 County East Riding Yorkshire.  
 Authority \_\_\_\_\_

No. 3403  
 (Old No. \_\_\_\_\_)  
 Grid Ref. \_\_\_\_\_  
 Altitude \_\_\_\_\_ ft.  
 River Basin \_\_\_\_\_  
 Tributary \_\_\_\_\_

File \_\_\_\_\_ TF \_\_\_\_\_ / MWR / m / a \_\_\_\_\_

	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	Means
January ...	2.75	1.26	1.52	1.66	2.67	3.43	3.04	2.04	3.73	1.87	
February ...	2.31	.55	3.37	1.94	2.99	2.96	2.81	.67	1.16	1.53	
March ...	.85	2.01	2.01	2.46	.52	1.22	2.31	.16	2.03	1.37	
April ...	2.86	2.71	1.21	2.32	2.54	1.76	2.49	.40	1.48	1.59	
May ...	2.68	4.54	2.06	.83	.37	1.57	3.64	2.27	1.39	.62	
June ...	2.97	.39	1.45	1.00	1.87	2.26	1.75	2.22	3.38	.47	
July ...	3.29	2.03	.75	1.63	.24	3.14	1.79	3.18	2.86	5.76	
August ...	2.72	2.28	.17	2.14	1.29	2.20	1.57	2.91	2.60	1.11	
September ...	3.93	2.82	3.14	2.09	4.43	2.49	1.32	1.47	1.38	1.47	
October ...	1.46	3.22	5.59	1.85	3.99	2.32	2.60	2.98	3.74	2.71	
November ...	2.80	1.41	2.50	2.69	3.51	3.34	2.01	2.12	2.89	3.12	
December ...	1.48	1.51	.76	3.59	2.49	1.47	3.47	3.59	2.60	1.96	
TOTAL ...	30.10	24.73	24.53	24.20	26.91	28.16	28.80	24.01	29.24	23.58	
Percentage ...											

## AVERAGE ANNUAL RAINFALL

Actual

Estimated from data for:-

1881-1915 \_\_\_\_\_ in. \_\_\_\_\_

1916-1950 \_\_\_\_\_ in. \_\_\_\_\_

\_\_\_\_\_ in. \_\_\_\_\_

Type and capacity of gauge \_\_\_\_\_

\*NOTES on unorthodox equipment or exposure, inspections, changes of equipment, site or altitude:-

Earliest year with complete data (D : W : M) \_\_\_\_\_

\*NOTES on years with incomplete or unsatisfactory data:-

1931-35 2.0934  
 from 4.1090

1936-1939 consider  
 Table XX cor 8c or  
equiv. club

\*Each note to be dated. Continue notes overleaf if necessary.

RAINFALL at Lowthorpe (The Elms)County of East RidingObserver F. K. Hawes, Esq.River Basin Humber - Left Bank Tribs - 3.

Type of Gauge

Annual Average 26.5 in. based on 35 years obs. un-weighted. Period of average 1881-1915 Ref. B.M.

661610/26.

Diameter	5.											
Height	1.0.											
Altitude	63.											
Year	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940	Means	
January	2.75	1.26	1.52	1.66	2.67	3.43	3.04	2.04	3.73	1.87	2.397	
February	2.31	.55	3.37	1.94	2.99	2.96	2.81	.67	1.16	1.53	2.049	
March	.85	2.01	2.01	2.46	.52	1.22	2.31	.16	2.03	1.37	1.494	
April	2.86	2.71	1.21	2.32	2.54	1.76	2.49	.40	1.48	1.59	1.936	
May	2.68	4.54	2.06	.83	.37	1.57	3.64	2.27	1.39	.62	1.997	
June	2.97	.39	1.45	1.00	1.87	2.26	1.45	2.22	3.38	.47	1.776	
July	3.29	2.03	.75	1.63	.24	3.14	1.79	2.18	2.86	6.0	2.497	
August	2.72	2.28	.17	2.14	1.29	2.20	1.57	2.91	2.60	1.11	1.893	
September	3.93	2.82	3.14	2.09	4.43	2.49	1.32	1.47	1.38	3.47	2.554	
October	1.46	3.22	5.59	1.85	3.99	2.32	2.60	2.98	3.74	2.71	3.046	
November	2.80	1.41	2.50	2.69	3.51	3.34	2.01	2.12	2.89	5.12	2.829	
December	1.48	1.51	.76	3.59	2.49	1.47	3.47	3.59	2.60	1.96	2.292	
TOTALS	30.10	24.73	24.53	24.20	26.91	28.16	28.80	24.01	29.24	27.08	26.776	
	D.	D.	D.	D.	D.	D.	D.	D.	D.	D.	D.	

1940 n.p. low

↑  
 p.u.w.  
 213006  
 Diff. 10.5 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
			Lowthorpe	1 1/4 m	S.E.	Lowthorpe	1/4 m	S.E.



RAINFALL at Louthorpe (The Elms) Station No. M 2403  
 County of East Riding Observer F. K. Hawes Esq. <sup>died 1911/46</sup>  
 River Basin Humber Left Bank Trib-3 W. J. Tinsdale Esq.  
 Type of Gauge J. TATE Esq.

Annual Average 26.5 in. based on 35 years obs. un-weighted. Period of average 1881-1915 Ref. B. of N.

File No. E 5162 1-17 6/6/1917

Diameter	5"										
Height	1' 0"										
Altitude	63'										
Year	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	Means
January	2.66	4.46	3.38	1.75	4.41	2.08	2.55	4.97	.85	1.38	2852
February	2.77	1.64	.20	2.05	1.72	1.92	3.11	.98	.74	3.83	1896
March	2.92	.62	.54	.30	.59	1.43	4.17	.77	1.02	1.12	1348
April	1.45	1.02	.94	2.07	2.18	1.31	1.81	1.16	2.06	3.23	1723
May	1.64	3.67	2.80	.50	1.87	1.35	.60	1.91	1.66	2.11	1811
June	.28	1.09	1.00	1.82	2.40	2.10	2.67	4.55	.93	.99	1783
July	2.96	1.75	.78	3.30	1.14	2.34	1.13	1.12	1.98	3.11	1961
August	3.02	1.70	3.37	3.97	3.04	3.51	.40	3.98	2.27	5.10	3036
September	.77	2.06	4.06	3.95	1.64	4.59	1.61	1.47	1.54	3.52	2521
October	3.73	1.46	1.40	2.53	2.57	1.24	.86	1.64	3.04	1.52	2010
November	3.51	1.26	2.84	3.40	1.23	5.66	1.77	1.02	4.32	4.29	2930
December	.54	1.92	1.25	2.04	1.31	3.00	1.83	1.94	2.34	3.91	2008
TOTALS	26.25 D	22.65 D	22.56 D	27.74 D	24.10 D	30.53 D	22.51 D	25.56 D	22.78 D	34.11 D	2587.9

1944

1946

1947

High Branch of Tree 8' away now cut down 1/9/44  
 Terminated owing to death of F.K. Hawes. Rest of family moving from The Elms.  
 5th recommenced Aug. 13<sup>th</sup> 1946 by Mr W. J. Tinsdale.

22.4.68

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.

Station No. 3403 mRAINFALL at Louthorpe (The Elms) (WOODMAN'S LOT TAGE) 12.2.55 **51**County of East RidingObserver J. Lyle Esq.River Basin Humber Left Bank Trib. 3

Type of Gauge

C. KETTLEWELL Esq. 12.2.55 W. J. T. W. 1953Annual Average 26.2 in. based on 35 years obs. un-weighted. Period of average 1881-1915 Ref. 1916-1950 PFile No. 5.5.162/47

Diameter ...	5"											
Height ...	1'0"											
Altitude ...	63'											
Year ...	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	Means	
January ...	2.20	2.10	1.41	1.83	1.66	4.90	1.39	2.66	2.33	5.58	26.06	
February ...	2.23	1.12	2.25	1.99	(2.30)	1.83	2.51	4.06	.31	1.92	20.52	
March ...	2.84	2.13	.36	2.04	2.48	.91	1.36	1.91	1.15	1.31	16.49	
April ...	1.74	1.26	2.71	.43	.71	1.08	.67	.99	2.50	0.72	12.81	
May ...	4.22	1.89	1.88	1.89	3.19	.48	.92	1.63	.68	1.41	18.19	
June ...	1.59	2.04	2.49	1.84	1.22	2.33	1.66	3.44	1.06	0.52	18.19	
July ...	1.62	1.94	1.81	1.87	1.39	3.89	3.47	3.83	1.23	3.12	24.17	
August ...	6.60	2.15	2.26	5.24	.53	5.65	3.84	1.53	.25	4.21	32.26	
September ...	1.47	4.09	1.45	2.32	1.30	1.44	2.61	2.00	.18	2.45	19.31	
October ...	1.47	2.78	1.54	3.64	2.01	1.58	2.19	2.02	2.04	7.96	27.23	
November ...	4.33	4.18	2.10	4.90	1.20	1.45	2.68	.61	3.48	4.62	29.05	
December ...	1.60	2.68	1.62	2.27	3.43	2.28	2.06	3.33	4.73	2.99	26.99	
TOTALS ...	31.91	28.36	21.88	29.76	21.42	27.82	25.36	28.01	19.94	36.81	271.27	
	D	D	D	D	D	D	D	D	D	D		

1955 Feb. est'd. M.O.

20004

Position of Station on Ordnance One-Inch map :

No. of Map.....

National Grid Reference M(57)084608

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

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
	✓	✓	✓ np 40	✓	
	✓ but - 10-17	✓	✓	✓	