

# RAINFALL AT Gatworth Oldfield

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

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

County of York W.R.

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

Observer W. H. Hodgkinson Esq. Cl.

Use. Aue 9

Diameter ....							5				
Height .....							10				
Altitude ....							1008				
Year .....	1890	1891	1892	1893	1894	1895	1896	1897	1898	1899	MEANS.
January ....							2.47	1.29	3.90	7.37	
February ....							1.62	3.38	3.77	2.48	
March .....							6.72	5.27	1.94	2.08	
April .....							2.57	2.90	3.10	2.77	
May .....							.78	1.53	2.79	3.31	
June .....							3.28	9.26	3.02	1.52	
July .....							2.37	2.51	.77	2.42	
August .....							2.53	3.49	4.21	1.52	
September....						<sup>#</sup> 2.02	7.53	4.10	1.22	6.01	
October .....						4.82	5.45	1.79	5.38	3.30	
November....						4.62	2.47	4.25	4.13	1.76	
December ....						4.43	5.08	5.82	5.64	4.03	
TOTALS ....							42.87	45.59	39.87	38.57	

Gatworth Cl 13 1/2 miles E of S

House 40 ft high 200 ft N

Gauge on Reservoir Bank

Not used Kephley Water 1912 ? small owing  
to wrong funnel being used

# RAINFALL AT *Oakworth Oldfield*

Lat.

Lon.

County of

*York W.R. Central*

*Symon Smirton*

Rain Gauge, by

*Karl Hopton*

Observer

*H. N. Hopkinson Esq. C.E.*

*Rise - Air 9.*

*W Fowlds Esq. C.E.*

Diameter ..	5										
Height ....	1.0										
Altitude ...	1008										
Year ....	1900	1901	1902	1903	1904	1905	1906	1907	1908	1909	MEANS.
January ..	4.95	2.77		4.64	4.12	1.85	6.74	2.23	3.69	2.27	
February ..	4.15	1.44		5.47	4.45	2.81	3.25	3.26	3.17	3.22	
March ....	.80	3.77		6.42	2.35	4.20	3.59	4.10	3.99	2.98	
April .....	2.72	2.90		2.15	3.66	3.20	1.90	2.61	2.97	3.86	
May .....	2.44	1.16		3.84	2.84	1.20	3.69	3.79	2.80	2.95	
June .....	3.21	1.29		1.70	2.27	3.11	2.09	7.25	2.40	2.66	
July .....	3.57	1.74	3.84	4.66	2.76	2.00	1.98	3.01	4.81	5.80	
August ....	5.39	2.20	3.32	6.18	4.76	5.31	4.43	4.43	3.83	3.47	
September ..	1.42	.93	1.76	5.65	.87	2.56	1.23	1.04	3.70	3.34	
October ....	5.56	3.02	4.96	12.88	2.00	3.69	6.57	4.84	2.23	4.45	
November ..	4.41	5.64	3.07	2.71	3.88	5.15	5.30	2.93	3.58	2.02	
December ..	5.19	4.76	4.44	2.81	3.95	1.58	3.48	5.29	3.04	5.39	
TOTALS ..	43.81	31.64		59.11	37.91	36.66	44.25	44.78	40.21	42.41	

1900 Haworth Church 13/4 miles E by S

House 40 ft high 200 ft N

1902 During the first six months an incorrect funnel was in use

1906 Haworth Station

1909 Oakworth Station 2 1/2 miles E

Highley Water 1912 Not used previous to 1902. ? small enough to use of young funnel

RAINFALL at Gatworth Oldfield FiltersCounty of W YorkshreObserver W Fowdell & CoM R Barnett Esq CL 1914River Basin Don - Aire 9Snowdon Rain Gauge, by Kent & Holborn  
Nov 3 1915

Diameter ...	5										
Height .....	10										
Altitude ...	1008 ft										
Year ...	1910	1911	1912	1913	1914	1915	1916	1917	1918	1919	MEANS.
January ...	5.26	2.00	5.26	4.41	4.03	7.75	5.14	2.64	3.14	5.40	
February ...	5.25	5.91	2.29	2.19	3.83	5.59	5.60	.65	7.32	1.64	
March .....	1.05	2.21	5.59	6.16	5.93	1.16	3.09	2.95	1.60	4.99	
April .....	4.10	2.53	1.08	4.59	2.08	2.12	3.73	1.76	1.23	2.50	
May .....	3.52	1.56	3.24	3.26	2.00	2.22	3.04	2.28	2.69	2.58	
June .....	3.29	4.84	7.44	2.09	2.06	.90	2.73	2.37	2.22	1.59	
July .....	4.18	.39	5.28	1.30	3.82	4.64	3.61	1.61	5.05	2.61	
August .....	5.59	2.48	7.12	1.55	2.06	5.21	3.31	6.59	2.96	3.57	
September ..	.37	3.82	2.53	1.52	3.16	1.11	2.84	2.12	11.17	2.03	
October ...	4.43	4.08	4.61	2.32	2.43	1.54	9.76	8.11	3.39	2.66	
November ..	4.88	4.80	3.49	5.20	7.19	2.20	4.10	5.30	2.77	5.98	
December ...	6.46	7.36	5.62	3.34	7.80	8.16	4.19	2.04	8.00	7.85	
TOTALS ...	48.38	41.98	53.55	37.93	46.39	42.60	51.14	38.42	51.54	41.00	

1912 House 40 ft high 200 ft N

Date.	Lat. N.	Long.	Railway Station.	Distance.	Direction.	Church.	Distance.	Direction.
	53° 50' 15" N	1° 59' 20" W	Haworth	1 3/4 m 1470 ft	EB S E 40° N	Gatworth	2 1/2 m 1400 ft	E 12° S



RAINFALL at Cakworth Oldfield FiltersCounty of W. YorksObserver M. R. Barnett Esq. C.E.River Basin Cuse - AireKeighley Valley Water Bd.Snowdon Rain Gauge, by M. R. G.  
J.O. (127)(1929) Alton Adkinson, Esq. C.E.

Diameter ...	5										
Height .....	10										
Altitude ...	1008										
Year .....	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929	1930 MEANS.
January ...	6.22	8.59	4.61	4.71	3.41	4.54	5.41	4.97	10.73	2.53	7.35
February ...	3.82	7.0	5.59	7.32	1.69	8.07	4.87	2.46	7.00	7.7	1.11
March .....	4.33	4.15	3.30	2.59	1.48	1.80	2.40	4.38	4.01	.90	2.69
April .....	5.70	2.01	4.14	3.87	2.49	3.54	2.44	3.72	1.58	1.26	4.07
May .....	5.47	2.46	2.02	4.88	6.17	4.81	3.94	1.67	1.53	2.90	2.34
June .....	2.41	2.7	2.94	1.41	2.84	.02	2.89	4.11	6.54	1.73	2.18
July .....	6.63	2.21	5.66	4.47	4.57	1.98	3.42	3.88	1.75	2.39	7.98
August .....	1.80	6.25	6.39	5.52	5.21	5.18	3.87	7.24	5.49	2.95	6.71
September...	1.89	1.80	5.36	5.91	4.46	3.50	3.96	6.22	0.90	1.54	5.03
October .....	2.90	3.02	1.09	6.03	4.26	5.36	4.28	4.53	6.32	6.42	6.48
November...	3.18	2.54	2.35	6.49	3.52	3.04	4.28	5.54	7.35	8.07	6.92
December...	3.99	7.92	4.53	4.32	4.96	5.98	1.85	3.04	2.96	10.41	4.21
TOTALS...	43.34	42.27	47.98	57.52	45.06	47.82	46.61	51.76	55.76	41.87	57.07

No other rain 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 from gauge	Parish Church.	Distance from gauge	Direction from gauge
1920	53° 55' 18"	1° 59' 41"	Haworth	10600 ft	E 41° S	Haworth	9100	E 16° S

RAINFALL at Oakworth (Oldfield Filters)County of West RidingObserver A. Atkinson, Esq., C.E.River Basin Ouse-Aire - 9J. Noel Wood, Esq., M.C., C.E.Type of Gauge SnowdonA. Boothman, Esq., C.E.Annual Average 44.6 in. based on 39 years obs. un-weighted. Period of average 1881-1915 Ref. S

744053/27

Diameter	5.										
Height	1.0.										
Altitude	1008.										
Year	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940	Means
January	4.84	5.59	3.30	4.78	2.84	6.47	6.22	6.53	7.05	2.58	
February	5.58	.27	6.47	.39	9.16	3.10	7.90	2.94	5.70	2.10	
March	.49	2.89	2.42	3.40	2.30	3.49	3.59	2.06	3.89	3.55	
April	4.19	3.88	1.83	2.87	3.56	2.03	3.84	.90	2.44	4.27	
May	2.81	4.58	2.94	3.45	1.21	2.25	3.34	4.96	1.49	1.79	
June	6.73	1.50	2.60	2.70	4.33	4.02	2.44	5.14	3.51	.96	
July	4.71	4.51	3.00	2.57	2.20	4.20	3.01	4.93	7.57	4.90	
August	4.63	1.72	1.85	4.08	1.99	3.35	2.44	6.03	3.17	2.43	
September	4.41	6.50	2.14	2.61	8.26	4.71	1.84	2.11	2.07	5.10	
October	2.57	8.00	5.82	6.15	11.79	6.03	2.45	11.53	3.00	4.95	
November	7.98	3.81	3.26	2.25	8.25	6.79	2.36	7.07	8.90	7.25	
December	2.67	1.99	0.89	7.08	4.71	6.53	3.04	5.65	3.11	5.07	
TOTALS	51.61	44.24	35.72	42.33	60.60	52.97	42.83	59.85	51.90	44.95	
	D	D	D	D	D	D	D	D	D	D	

1933. Gauge inspected on Aug. 23<sup>rd</sup> site found to be not ideal - third site selected and marked S of old, recommended that check gauge be set up here, and comparative readings taken for some months. See file 744053/24.

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
1931			Haworth	10,600ft	E 7° S	Haworth	9,100ft	E 7½° S

RAINFALL at Bakewell (Oldfield Filter) No. 2County of York, D. R.Observer A. Atkinson, Esq. B.E.River Basin Ouse - Aire - 9J Noel Wood Esq. MC. C.E.Type of Gauge SnowdonA. Boothman, Esq. RE

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

c/1933

Diameter .....			<u>5</u>								
Height .....			<u>10</u>								
Altitude .....			<u>978</u>								
Year .....	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940	Means
January .....				5.04	2.80	3.75	5.71	7.10	7.48	2.38	
February .....				.46	8.91	3.01	7.48	2.74	5.73	2.27	
March .....				3.39	2.24	3.26	3.16	1.85	2.86	3.60	
April .....				2.81	3.47	1.44	3.66	.82	2.38	4.10	
May .....				3.24	1.15	2.25	3.29	4.91	1.53	1.75	
June .....				2.64	4.27	4.00	2.67	5.04	5.41	.95	
July .....				2.50	2.05	4.08	2.89	4.85	7.46	4.88	
August .....				3.98	1.95	3.24	2.38	5.91	3.18	2.21	
September .....				2.60	8.02	4.51	1.85	2.10	2.02	4.64	
October .....			<u>Comp</u>	6.16	11.71	5.74	2.36	11.05	2.99	4.74	
November .....			3.21	2.18	7.93	6.57	2.28	7.03	9.01	7.75	
December .....			.63	6.68	4.58	5.45	2.70	5.73	5.64	5.31	
TOTALS .....			<u>inch</u>	41.68	59.08	50.30	40.43	59.13	52.64	44.58	

1933 g. in position selected by Dr. Huxford in August 1933

1934 Dry stone wall 4'6" high 33'7"

Twyf wall erected 28.3.38.

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	Parish Church.	Distance from gauge	Direction
<u>1933</u>			<u>Bakewell</u>	<u>10602ft</u>	<u>E 7° S</u>	<u>Bakewell</u>	<u>9.100ft</u>	<u>E 7° S</u>





RAINFALL at § Oakworth (Oldfield Filling) Station No. 3289/1 No. 41County of Yorkshire W.R.Observer A. Bodman Esq. CERiver Basin Ouse - Aire - GJ. E. V. Boldy Esq. (1946)Type of Gauge Snowdon(W. & A. Eng. March 1947)Annual Average in. based on years obs. un-weighted. Period of average RefFile No. W. & A. 53/27

Diameter	5"		074	894							
Height	1' 0"			1							
Altitude	978'			41							
Year	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	Means
January	2.62	4.98	6.41	8.19	4.78	5.39	4.69	10.08	3.23	4.11	
February	7.36	1.59	4.61	2.98	4.97	7.36	2.39	3.32	3.69	7.42	
March	4.71	3.73	1.69	68	1.53	1.63	10.28	2.26	1.83	2.48	
April	2.82	2.27	2.98	3.52	2.80	1.48	4.45	3.17	5.27	4.82	
May	2.63	3.98	3.08	3.87	5.37	1.98	2.91	1.03	2.50	2.82	
June	.86	1.56	3.59	3.04	3.76	2.76	3.01	5.66	.72	1.77	
July	2.64	4.28	3.26	3.00	2.50	4.21	3.16	2.50	2.97	4.10	
August	6.89	5.09	6.59	3.57	4.51	8.15	.31	4.68	2.64	6.88	
September	.64	3.67	4.84	7.45	2.62	8.22	3.00	3.07	1.14	7.18	
October	6.33	8.21	2.71	5.35	6.63	1.14	1.55	2.54	5.42	2.63	
November	3.60	1.99	3.85	6.92	.82	7.89	7.31	2.14	6.58	5.85	
December	2.96	4.42	2.71	5.10	2.77	4.45	4.80	4.78	8.97	2.96	
TOTALS	44.28	45.77	46.32	53.67	43.06	54.66	47.86	45.23	44.96	54.69	

1944 Dry stone wall 4 ft 6 in, 33 ft 7 in.  
 1946 Reg. Guf. work in reasonable repair.

of 412

§ Turf wall round gauge

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.
1941			Haworth	10600 ft.	E 7° S.	Haworth	9100 ft.	E 7 1/2° S.



Station No. 3289RAINFALL at Parkworth (Pitfield Tiltus)

51

County of West Riding YorksObserver R. S. V. BoldingRiver Basin Dun - Aire - 9Brown Water Board (1/4/60)Type of Gauge SnowdonAnnual Average 44.6 in. based on 34 years obs. un-weighted. Period of average 1881-1915 Ref. 5" " 48.89 " " 29 " " within 1916-50 " " 1916-50File No. 744053/27

Diameter ...	5"										
Height ...	1'0"										
Altitude ...	1008'										
Year ...	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	Means
January ...	4.84	5.67	1.51	3.43	2.46	5.41	3.90	3.77	3.27	6.20	
February ...	4.31	1.39	2.80	3.54	2.09	1.96	3.76	7.21	.72	3.58	
March ...	5.63	2.38	1.77	2.97	2.30	1.71	3.54	2.19	2.03	2.25	
April ...	2.62	2.40	3.19	.43	1.67	3.37	.40	1.35	3.80	2.29	
May ...	3.66	2.43	2.26	3.53	3.09	1.50	1.01	4.94	1.24	1.78	
June ...	1.34	2.50	3.81	1.95	2.23	2.77	2.68	4.89	2.83	1.13	
July ...	2.73	2.91	3.71	4.17	.72	4.71	4.25	3.57	2.24	6.10	
August ...	4.12	5.40	4.44	6.58	1.24	7.80	4.65	3.72	1.28	4.19	
September ...	2.86	3.19	4.33	4.51	1.94	4.34	4.19	4.07	.26	2.93	
October ...	1.46	4.04	1.99	6.87	2.57	2.20	5.10	3.66	4.91	5.47	
November ...	9.77	1.94	5.33	6.16	2.82	1.75	1.95	1.31	4.10	7.48	
December ...	8.71	4.75	2.16	7.53	5.57	4.69	5.83	4.91	8.15	4.57	
TOTALS ...	52.05	39.00	37.50	51.67	28.70	42.21	41.26	45.59	34.83	47.97	
	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	

1951. n.p. check. 1953. n.p. check. 1954. n.p. check.  
 1952. n.p. check.  
 1954 n.p. SW Blackhall 5'5". gauge old built round. Rain barrel. Set in depression in ground 14" deep approx 8'5".  
 1955 overexposed all directions. V. exposed on level earth platform built out on E. of road on steep slope facing S.W. (further back).  
 1957 n.p. check. 1960 n.p. check. 1956 n.p. over exposed, check.  
 1958 n.p. check.  
 1959. n.p. check.

Position of Station on Ordnance One-Inch map :

No. of Map.....

National Grid Reference 44/053374

Date.	Lat. N.	Long.	Railway Station.	Distance Direction from gauge	Parish Church.	Distance Direction from gauge.
1951			<u>Harrogate</u>	<u>10600'</u> <u>E 7° S</u>	<u>Harrogate</u>	<u>9100'</u> <u>E 7 1/4° S</u>

Summary of Earlier Records from 10-year Sheets :

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

RAINFALL at <sup>8</sup> Haworth (Oldfield Fittera) No. 2. Station No. 3289/1 51  
 County of West Riding - Yorks Observer L. S. V. Bolding Esq.  
 River Basin Crane - Aire - 9 Crane Water Board (1/4/60)  
 Type of Gauge Snouton Chalk No. 1637/33

Annual Average in. based on years obs. un-weighted. Period of average 1916-50 Ref. 5  
" " 48.68 " " 22 " W. 1934-57 " " 1916-50  
 File No. 744052/27

Diameter ...	5"		074	894							
Height ...	1'0"			1							
Altitude ...	978'			51							
Year ...	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	Means
January ...	4.70	5.28	1.63	4.04	2.31	5.38	3.98	4.14	4.02	6.57	
February ...	4.19	1.58	2.78	3.24	2.03	1.99	3.57	7.14	.81	3.38	
March ...	5.14	2.34	2.21	3.07	2.35	2.12	3.61	2.27	2.21	2.18	
April ...	2.78	2.90	3.58	.64	1.57	3.23	.41	1.90	4.18	2.99	
May ...	3.90	2.68	2.40	3.90	3.59	1.68	1.23	5.92	1.52	1.86	
June ...	1.54	3.02	4.08	2.31	2.72	3.56	2.97	5.38	3.47	1.32	
July ...	3.02	2.86	4.30	4.97	.82	5.10	4.99	3.95	2.61	6.57	
August ...	4.36	5.78	4.30	8.12	1.28	9.96	5.61	3.77	1.51	4.69	
September ...	2.99	4.12	4.05	4.78	2.39	4.35	5.37	4.52	.30	3.05	
October ...	1.44	4.77	2.15	7.72	3.30	2.52	5.75	4.19	5.56	5.70	
November ...	10.05	2.20	5.61	7.20	2.98	1.75	2.49	1.76	5.19	8.17	
December ...	9.74	4.67	2.35	6.43	6.19	5.17	6.03	5.28	9.35	5.98	
TOTALS ...	53.85	42.20	39.44	56.42	31.53	46.81	46.01	50.32	40.73	52.96	
	D	D	D	D	D	D	D	3	D	D	

1958-1960: Replaced 5' in. Snouton Gauge. Outflow can operate as fountain with topog. base. Insufficient.  
 Present 6' in. gauge has original side on marked hill side below platform of 33.39  
 Some shallow S.W. to S.E. by stone walls & steep wall but rather exposed since slope is to S.W.  
1958 replaced

Insufficient

Position of Station on Ordnance One-Inch map: No. of Map..... National Grid Reference 44102329'

Date.	Lat. N.	Long.	Railway Station.	Distance Direction from gauge	Parish Church.	Distance Direction from gauge.
1951			Haworth	10600' E 7°S	Haworth	9100' E 7½°S

Summary of Earlier Records from 10-year Sheets:

Record D, or d	1910-19	1920-30	1931-40	1941-50	1951-60
			Comp 1933 ✓	✓	