

# RAINFALL AT *Harrogate Harlow Hill Reservoir No. 1*

Lat. ....

Lon. ....

County of *W. York North*

*Snyder  
Kaiser*

Rain Gauge, by

Observer *J. J. Dixon Esq. C.E.*

*N. F. Hill - 11.*

*J. Bagshaw Esq. C.E.*

Diameter ..								8			
Height ....								10			
Altitude ..								552 <del>ft</del>	589 <del>ft</del>		
Year ....	1900	1901	1902	1903	1904	1905	1906	1907	1908	1909	MEANS.
January ..								1.08	1.31	1.04	
February ..								1.49	1.43	.57	
March ....								2.22	3.29	3.16	
April .....								1.19	2.43	2.90	
May .....								4.54	2.77	1.78	
June .....								3.24	.98	3.30	
July .....								2.07	2.82	3.56	
August ....								1.85	1.75	3.34	
September..								.99	2.66	1.53	
October....								7.04	1.84	2.42	
November..								2.74	1.52	.85	
December ..								3.29	1.18	3.90	
TOTALS ..								31.74	23.98	28.35	

1907 *1/3 mile* *565*  
*St Marks Church* *1 mile* *E*  
*Harrogate Station* *1 1/2* *NE*  
*Lignum Shed 15 ft high 100 yards* *W*  
 1908 *Nothing near*

# RAINFALL AT *Hannogate Harbor Hill Reservoir No 2*

Lat. ....

Lon. ....

County of *W.R. York* *Northern*

*Reading* Rain Gauge, by *N. H. ...* Observer, *F. J. ...*  
*mid - 11.*

Diameter ..								8			
Height ....								4 6			
Altitude ..								552 <del>ft</del>			
Year ....	1900	1901	1902	1903	1904	1905	1906	1907	1908	1909	MEANS.
January ..								.94			
February .								1.35			
March ....								2.10			
April .....								1.14			
May .....								4.34			
June .....								(3.10)			
July .....								2.03			
August ....								1.75			
September ..								.94			
October ....								6.12			
November ..								2.56			
December ..								3.27			
TOTALS ..								29.64			

*Particulars same as No 1 Gauge*

RAINFALL at Harrogate Harbour Hill Res No. 1County of W. Yorksh.Observer F. Bagshaw Esq. Ch. Ad. West Eng. C.E.River Basin Ons. Nidd 11Rain Rain Gauge, by \_\_\_\_\_

Diameter ...	8										
Height .....	1 0										
Altitude ...	589 ft	551 ft		589 ft							
Year ...	1910	1911	1912	1913	1914	1915	1916	1917	1918	1919	MEANS: Totals
January ...	3.15	.97	3.68	3.14	1.46	3.99	1.51	2.05	2.29	3.83	9.71
February ...	2.54	2.51	1.82	.87	1.53	3.35	3.45	.72	2.85	1.74	8.77
March .....	.55	1.25	3.66	3.21	2.64	.73	3.31	1.91	1.05	2.93	9.20
April .....	2.68	1.10	.31	3.03	1.12	1.29	1.53	1.39	.70	1.49	5.11
May .....	2.24	1.03	3.11	2.18	1.48	1.58	2.91	1.95	2.95	1.29	9.10
June .....	3.04	2.87	6.60	1.46	1.91	.75	1.77	1.50	.64	1.34	5.25
July .....	3.20	.44	4.94	.98	4.81	3.78	1.75	1.01	4.01	2.23	9.00
August .....	4.10	2.86	5.72	1.13	1.37	2.26	1.76	6.77	2.93	2.17	13.63
September ...	.20	2.88	1.88	1.25	1.53	.77	1.94	.85	6.79	1.01	10.59
October ...	3.90	2.94	3.22	2.86	1.89	1.22	5.44	3.78	1.62	3.10	13.94
November ...	3.42	3.21	1.53	2.40	3.87	1.52	2.42	2.70	1.36	1.71	8.19
December ...	2.82	4.49	2.53	1.67	6.33	6.49	2.09	.99	3.08	4.12	12.28
TOTALS ...	31.94	26.55	39.00	24.18	29.94	27.70	29.88	25.66	32.27	26.96	114.77

*Rejected from Survey: 3" too low.*

Date.	Lat. N.	Long.	Railway Station.	Distance.	Direction.	Church.	Distance.	Direction.
			Harrogate	1 m	NE	Harbour	1/3 m	SW



RAINFALL at Harrogate Harlow Hill Reservoir No. 1.County of N. Yorks.Observer A. J. West Esq. C.E.River Basin Cuse. Nidd 11Water Eng. HarrogateRain Gauge, by Flaisher8.00  
7.99  
7.98 } no leaks 11.23.

Glass barilla correct

Diameter ...	8											
Height .....	10											
Altitude ...	589											
Year .....	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929	1930 Means.	1920-30 Totals
January ...	3.22	3.64	3.02	1.61	2.11	2.82	2.91	2.27	6.69	1.51	5.12	34.92
February ...	2.06	1.10	2.82	4.53	.82	4.45	2.30	1.20	2.91	.70	.78	22.67
March .....	2.27	1.71	1.81	1.62	1.31	.76	1.00	1.94	2.65	.55	2.31	17.93
April .....	4.20	1.19	3.10	2.00	1.86	4.06	1.26	1.78	.92	1.33	2.83	24.53
May .....	2.69	1.74	1.08	3.25	4.56	4.38	2.25	1.99	2.29	1.51	1.58	27.32
June .....	1.83	1.4	1.41	.88	2.78	.04	3.38	2.94	5.46	1.20	1.74	21.80
July .....	6.06	1.51	5.06	2.88	3.61	1.41	2.38	4.65	.88	3.04	5.09	36.57
August .....	1.57	3.72	6.84	3.62	3.12	2.52	3.09	8.62	4.00	2.26	3.73	43.09
September...	.97	1.03	3.29	2.41	3.20	2.48	1.35	3.90	.44	.49	4.28	23.84
October.....	3.32	1.61	.70	3.60	3.55	3.49	3.19	3.03	5.16	3.32	2.48	33.45
November...	1.54	2.30	1.16	2.92	2.37	1.79	5.45	2.72	3.71	4.23	4.54	32.73
December...	2.88	3.58	3.45	3.11	3.29	3.75	.78	2.13	1.58	5.51	2.59	32.65
TOTALS...	32.61	22.27	33.74	32.43	32.58	31.95	29.34	37.17	36.69	25.65	37.07	351.58
	D	D	D	D	D	D	D	D	D	D	D	D

Inspected 2. 11. 23.

Shedible alongside N.E. tipping bucket gauge 5 ft. high. Amounts  
frontraces of recorder in good agreement with amounts from shedible.

Gauges on line sloping to N.E. Drop of 8 ft. in about 6 yds +  
further drops with. Somewhat overcast. Suggest immersion gauge in  
flood about 50 yds away to good position + having recorder 5 ft. + reading  
all clear for a year.

Rejected from Survey: 2" too Low

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
			Harrogate	1 mi	N.E.	Harlow	1/3 mi	SW

## RAINFALL at Harrogate (Harlow Hill Res.)

County of West RidingObserver A.S. West, Esq., C.E.River Basin Ouse - Nidd - 11

Type of Gauge.....

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

660560/26

Diameter	3.											
Height	1.0.											
Altitude	<del>589.</del>					549.				549		
Year	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940	Means	Totals
January	1.56	2.26	1.96	2.28	1.45	3.99	3.48	4.02	4.42	1.39	26.81	
February	2.39	.21	3.50	.33	3.55	2.28	4.50	1.61	2.86	1.67	22.90	
March	.61	1.97	1.72	2.75	.96	2.71	2.63	.22	2.23	1.93	17.73	
April	3.35	2.63	1.35	3.81	2.09	1.76	3.38	.13	1.53	2.66	22.69	
May	3.32	4.93	3.24	1.76	1.10	2.12	3.11	3.17	1.10	.80	24.65	
June	5.76	.63	1.30	2.40	3.23	4.64	1.65	2.96	1.96	.35	24.88	
July	3.59	4.20	2.68	1.32	.71	4.45	2.14	3.94	6.27	5.58	34.85	
August	3.77	1.43	0.82	1.51	1.88	2.07	.89	3.80	2.18	.71	18.56	
September	5.56	2.81	1.93	2.45	5.39	2.45	1.28	2.73	1.11	2.09	27.80	
October	1.04	3.88	3.97	2.66	5.35	1.85	2.25	5.33	2.88	3.22	32.43	
November	5.07	2.32	2.73	2.41	5.57	3.23	1.80	3.62	4.53	4.17	35.45	
December	1.20	1.19	0.72	6.03	2.36	2.39	2.75	4.50	2.10	2.92	26.16	
TOTALS	37.22	28.46	25.39	29.71	33.64	33.94	29.86	36.03	33.17	27.49	314.91	
	D	D	D	D.	D.	D	D.	D	D	D	D	

1942. Obs. stated Wxy 589' due to printer's error. Corrected 549'

Revised February as 2' too low. Data not 1942.

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			Harrogate	1 1/4 m	NE	Harlow Hill	1/4 ml	SW

## RAINFALL at Harrogate (Harlow Hill Res.) new g.

County of West Riding Observer A.S. West Esq. C.E.River Basin Quee. Nidd-11

Type of Gauge.....

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

660560/26

Diameter .....							8					
Height .....							1	6	1	0		
Altitude .....							561					
Year .....	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940	Means	
January .....							3.49	4.03	4.42	1.39		
February .....							4.54	1.62	2.86	1.67		
March .....							2.66	.22	2.25	1.94		
April .....							3.38	.14	1.63	2.66		
May .....							3.12	3.17	1.13	.80		
June .....							1.65	2.97	1.98	.35		
July .....							2.12	3.92	6.29	5.57		
August .....							.89	3.80	2.18	.71		
September .....							1.28	2.74	1.11	2.09		
October .....							2.25	5.35	2.88	3.22		
November .....							1.81	3.61	4.53	4.17		
December .....							2.74	4.50	2.40	2.92		
TOTALS .....							29.93	36.07	33.36	27.49	#	

Records not required, being almost identical with No. 2358.

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
1937			Harrogate	1 1/2 mi.	N.E.	Harlow Hill	1 1/2 mi.	S.W.



Station No. 3358

RAINFALL at Harrogate (Harlow Hill Res.)

41

County of West Riding

Observer A. S. West Esq. CE

River Basin Ouse - Nidd

The Water Engineer

Type of Gauge

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

File No. 660569/26

Diameter	8"		058	527							
Height	1' 0"			1							
Altitude	549 589			41			549 589				
Year	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	1941-50 Means Totals
January	3.34	3.18	4.05	4.15	3.34	3.46	2.24	7.03	1.13	1.80	33.72
February	4.05	1.35	1.40	1.50	3.88	3.50	(3.09)	1.94	1.23	6.08	27.02
March	3.17	2.16	1.03	.39	1.18	1.10	7.00	1.46	.94	1.11	19.54
April	1.90	1.63	1.44	2.87	2.21	1.77	3.33	2.63	2.45	2.81	23.10
May	1.67	2.38	2.21	.69	2.34	3.08	4.06	1.06	2.03	2.09	22.21
June	.28	1.04	2.62	2.95	3.06	2.08	3.41	3.80	.85	.60	20.66
July	2.85	2.36	1.33	3.34	2.27	3.80	3.96	1.07	2.51	3.29	26.78
August	3.01	2.33	2.93	3.38	3.53	4.61	.93	3.86	2.43	4.82	31.59
September	.38	1.34	3.14	5.23	1.96	5.87	1.91	1.92	.93	4.23	27.51
October	4.43	2.52	1.84	3.08	4.50	1.95	1.07	1.17	3.16	2.18	25.90
November	3.13	1.44	2.23	5.79	.48	6.16	3.00	1.28	4.20	4.26	31.97
December	1.04	2.47	1.63	3.22	2.16	2.50	2.55	3.56	4.04	1.78	24.90
TOTALS	29.22 D	25.52 D	25.85 D	36.59 D	30.91 D	39.88 D	36.55 D	30.78 D	25.90 D	33.70 D	314.90

1942. Obs. station but of 589 print in error in second col. Count. 549

1947. Feb. part read for snow

20004

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			Harrogate	1 1/4 ml.	N.E.	Harlow Hill	1 1/4 ml.	S.W.

Station No. 3358

TF 95

RAINFALL at Harrogate (Harlow Hill Res.)

51

County of West Riding - Yorks

Observer J. H. Water Engineer

River Basin Ouse - Tidd - 11

Below Water Board

Type of Gauge 17.0 (on ramp 14.5 ft. 5.2 ft. 0.15 ft.)

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

Ref.

Pr. not worked &amp; of 1960 - still low 1960-67

File No. 660560/26 E 16133/53

Diameter ...	8"		058	527							
Height ...	1'0"			1							
Altitude ...	549'			51							
Year ...	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	Means
January ...	3.17	3.03	.54	1.69	1.62	4.06	1.76	2.33	3.14	4.95	26.29
February ...	3.24	.47	1.30	2.40	1.83	1.42	2.27	4.06	.10	2.27	19.36
March ...	4.17	2.07	.69	1.79	1.98	1.25	2.31	1.80	1.34	2.32	19.72
April ...	1.38	1.39	2.47	.33	.97	2.29	.34	.96	4.06	1.41	15.60
May ...	6.14	1.51	1.41	4.54	2.49	.80	1.19	3.57	.65	0.86	23.16
June ...	1.36	1.89	1.58	1.77	1.77	3.71	1.59	3.49	1.34	1.10	19.60
July ...	2.30	1.44	3.03	1.14	1.20	4.84	2.74	3.62	1.76	4.66	26.73
August ...	6.74	3.35	3.90	6.43	1.09	6.85	5.82	2.94	1.01	2.49	40.62
September ...	2.82	3.62	2.14	2.57	1.59	4.00	4.05	3.61	.18	3.34	27.92
October ...	.93	3.36	2.12	3.89	2.14	1.41	3.30	2.06	2.93	6.34	28.48
November ...	7.19	1.71	2.89	5.45	2.39	.81	1.90	.85	3.96	5.86	33.01
December ...	3.34	2.08	1.35	3.22	4.04	2.29	2.85	4.34	5.68	3.53	32.72
TOTALS ...	42.78	25.92	23.42	35.22	23.11	33.73	30.12	33.63	26.15	39.13	313.21
	D	D	D	D	D	D	D	D	D	D	

1/4 m. NW Harrogate 515' Below tide of g. running. Overgrown to E. NE. and also down slope of ground to town. Weather on 4/11/59 180K. Drizzle from N-E. Better site available 80 ft. to NW of SE corner of field. Same M.R.

with Yorks Ouse R. B. T.C.

Position of Station on Ordnance One-Inch map :

No. of Map 96

National Grid Reference 44/299 E 2

Date.	Lat. N.	Long.	Railway Station.	Distance from gauge	Direction from gauge	Parish Church.	Distance from gauge.	Direction from gauge.
1951.			Harrogate	1/4 m.	NE.	Harlow Hill	1/4 m.	SW.

Summary of Earlier Records from 10-year Sheets :

1916-1950, P-Rejected

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