

RAINFALL AT Nidderdale West Houses

Lat.

Lon.

County of

Yorkshire

Rain Gauge, by

Observer A R Binns Esq C.E.Ouse - Head 11

Diameter								5	5	
Height								1.0	1.0	
Altitude								1150	1150	
Year	1880	1881	1882	1883	1884	1885	1886	1887	1888	1889 MEANS.
January								3.48	2.44	
February								2.80	3.39	
March								5.20	5.81	
April								4.79	3.54	
May								3.32	2.66	
June								3.07	.76	
July								6.50	3.95	
August								5.31	6.72	
September								1.57	1.46	
October								3.05	7.89	
November								15.01	1.95	
December								4.52	5.70	3.30
TOTALS								59.80	43.67	

RAINFALL AT Niddendale West Houses & Agram

Lat.

Lon.

County of

York w.R.

Rain Gauge, by

Observer

J. Watson Esq C.E.

OUSE - Nidd II

71°31'

Diameter	5										
Height	1	0									
Altitude	1150	T									
Year	1890	1891	1892	1893	1894	1895	1896	1897	1898	1899	MEANS.
January	5.33	3.84	2.36	8.38	4.69	3.89	2.69	6.24	11.03		
February70	3.62	9.41	9.71	1.63	1.20	4.83	5.62	4.48		
March	3.52	.95	1.52	4.40	6.16	6.59	9.57	3.79	2.36		
April	3.94	2.61	.76	3.87	4.65	2.50	3.74	3.39	3.37		
May	5.30	7.17	2.37	2.80	.90	.56	1.79	1.90	3.28		
June	-	1.99	4.75	3.56	3.50	2.74	4.08	3.32	5.88	1.56	
July	6.00	2.62	5.17	3.76	8.01	2.32	1.22	1.21	3.23		
August	10.46	6.78	4.84	5.62	3.43	2.51	6.31	6.21	1.68		
September	5.04	5.38	3.33	.51	1.74	8.12	4.40	1.46	5.92		
October	8.64	12.04	4.97	11.11	5.12	6.88	3.11	6.95	4.89		
November	7.01	3.29	4.55	3.44	7.48	1.61	8.85	4.76	3.90		
December	13.06	2.50	8.38	6.41	5.51	8.74	12.35	6.99	5.03		
TOTALS	574.13	70.99	55.55	51.22	63.51	52.06	49.00	62.18	54.40	50.73	

1893 Nov. 10th Gauge moved a very short distance to Agram
 1890 from P.T. VIII-19

RAINFALL AT Niddendale, Agraman Date Wind & Weather

Lat.

Lon.

County of York W.R. Northern

Rain Gauge, by

Observer J. Watson Eng. Cl.

Wind - II.

Diameter ..	5									
Height ..	10									
Altitude ..	1150 ft									
Year	1900	1901	1902	1903	1904	1905	1906	1907	1908	1909
January ..	6.49	3.24	2.93	8.81	5.23	2.45	7.56	2.33	4.19	2.53
February ..	7.40	2.02	2.44	7.19	5.66	3.70	4.59	3.72	3.80	2.38
March ..	1.54	4.92	1.88	9.23	2.95	4.49	4.37	4.69	3.49	3.73
April ..	3.06	2.94	1.43	2.15	4.87	4.82	1.42	2.32	2.77	2.61
May ..	1.98	1.65	2.48	5.45	4.22	1.21	6.60	5.38	3.34	2.60
June ..	3.61	1.70	1.15	3.02	2.04	1.91	1.93	6.53	1.91	3.58
July ..	2.59	3.48	3.00	4.06	1.62	.89	2.36	2.76	4.87	4.16
August ..	6.77	2.86	3.41	5.60	4.58	4.57	4.04	3.18	3.92	5.34
September ..	1.30	1.79	2.38	5.15	1.45	4.11	.88	.76	3.69	2.76
October ..	7.82	2.17	4.75	11.56	1.90	3.11	9.97	8.65	2.64	4.71
November ..	5.44	6.72	3.14	2.69	3.71	7.38	7.02	3.66	3.44	2.20
December ..	6.79	7.53	5.41	4.00	3.72	2.93	2.52	7.05	2.72	5.25
TOTALS ..	54.79	41.02	34.40	68.91	41.95	41.57	53.26	51.03	40.78	41.85

thus

057403

= West Houses 1915

10 3374

RAINFALL at Niddendale Lodge

County of W.R. Yorkshire

Observer G. J. Waterby Esq.

River Basin Ouse - Nidd

L. Mitchellby, C.B.

Rain Gauge, by _____

Diameter ...	5										
Height	1.0										
Altitude ...	1150 T										
Year ...	1910	1911	1912	1913	1914	1915	1916	1917	1918	1919	MEANS.
January ...	6.05	3.12	5.29	6.97	5.14	7.76	10.66	3.35	5.41	5.18	
February ...	5.04	7.68	3.83	3.79	5.85	9.10	7.52	.94	8.29	2.00	
March	1.12	3.18	6.11	8.62	4.58	.83	3.29	3.13	2.50	5.39	
April	3.65	2.85	7.4	5.74	1.98	1.96	3.56	3.27	1.49	3.25	
May	2.86	2.45	-	4.60	3.40	1.56	3.07	2.57	2.84	2.05	
June	2.27	3.15	5.79	3.03	3.98	.67	2.79	3.58	1.26	1.25	
July	3.25	.21	4.56	1.13	2.76	7.10	2.71	1.88	4.68	2.79	
August	6.43	3.25	6.53	1.30	1.42	3.35	3.29	7.95	2.86	3.75	
September ..	.45	3.28	1.83	2.19	1.70	.81	2.89	3.76	12.04	2.72	
October ...	6.09	4.18	4.27	3.74	3.23	1.12	14.11	8.72	4.40	5.51	
November ..	5.80	7.39	3.57	5.23	7.29	1.73	5.43	5.88	3.76	5.98	
December ...	5.81	8.22	7.53	1.91	10.13	9.97	4.00	3.13	9.00	10.03	
TOTALS ...	48.82	48.96		48.25	51.46	45.96	63.32	48.16	58.22	52.90	

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

RAINFALL at Riddendale West Houses

County of W.R. Yorkshire

Observer S. Mitchell Esq C.E.

River Basin Guse-Ridd 11

Elevt Bradford 1000 ft. N.W.

On Surveyor Rain Gauge, by H.A.Z.

5.00 good condition
 5.00
 5.00 } 44.23

W. Newlands, Esq. M.P. (1930)

Diameter ...	5"											
Height	1	0										
Altitude ...	1150				1165							
Year	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929	1930	M.EANS.
January ...	9.93	10.71	5.47	5.11	5.61	7.36	7.16	5.28	10.43	2.45	7.09	
February ...	6.07	5.50	5.55	10.64	1.30	7.01	4.89	3.32	4.55	1.51	2.08	
March	4.85	5.40	4.22	2.84	2.23	1.55	2.11	4.49	5.17	.50	3.72	
April	7.08	1.64	4.00	4.16	2.88	6.53	2.30	4.17	1.11	2.09	4.85	
May	5.98	2.69	1.37	5.07	7.93	6.48	3.98	3.51	2.80	3.99	1.84	
June	1.61	7.6	3.20	1.60	2.98	2.20	4.51	4.51	7.45	1.94	2.00	
July	7.82	3.51	7.45	5.02	6.88	1.99	4.88	6.61	2.24	3.54	8.00	
August	3.22	7.51	6.12	3.37	6.61	4.51	4.79	9.15	7.72	4.83	6.15	
September...	1.85	2.58	6.75	7.02	7.17	2.86	4.29	7.63	.87	1.81	5.08	
October.....	3.40	3.04	2.32	8.70	6.24	6.11	4.19	7.66	9.01	6.96	5.62	
November...	4.82	2.71	3.10	8.87	6.05	2.99	9.24	5.29	8.31	7.77	6.71	
December...	6.02	10.34	6.17	4.09	8.57	7.14	1.57	3.48	7.84	11.79	5.29	
TOTALS...	62.66	51.19	55.72	76.23	64.45	54.73	53.91	65.10	63.50	48.68	58.43	

Inspected 9.6.1930. S. in grass land in shelter of dam.
 Moved to present position XII-22. Excellent position. Dam at distance to SW.
 Valley runs E to W but shelter beyond. A new gauge has recently been supplied.
 Previously some 30 yrs nearer stream and near somewhat steep slopes
 out of stream. In view of shelter by dam this would be not very much
 unexposed.

S moved in April 1930 80 yards away to N.

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	Parish Church.	Distance from gauge	Direction

RAINFALL at Nidderdale (West Houses)

County of West Riding

Observer Bradford Corps. W.W.

River Basin Ouse-Nidd

~~W. Newlands Esq. CE~~

Type of Gauge Snowdon

The Engineer, Bradford W.W.

Annual Average 52.5 in. based on 42 years obs. un-weighted. Period of average 1881-1915 Ref. S

660554/26

Diameter	5.											
Height	1.0.											
Altitude	1165.											
Year	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940	Mean	Total
January	3.00	9.88	4.30	6.78	2.80	8.83	8.65	11.04	10.80	2.58	68.16	
February	4.93	8.88	9.32	5.54	10.59	3.97	8.03	3.25	7.56	3.59	52.66	
March	1.88	4.53	3.46	5.63	2.28	4.45	3.67	2.07	4.30	4.43	36.70	
April	4.49	6.47	2.28	5.59	5.27	2.19	3.95	.70	3.05	3.52	37.51	
May	4.26	6.29	3.85	5.49	1.37	2.18	4.19	4.65	1.37	1.68	35.33	
June	6.94	3.10	2.05	2.97	5.42	7.05	2.66	4.99	1.71	.63	37.52	
July	5.57	5.21	5.35	1.62	1.80	5.22	3.15	5.86	5.16	5.52	44.46	
August	5.44	1.79	1.21	5.48	1.82	3.67	3.16	4.98	3.43	1.57	32.65	
September	4.58	5.77	3.02	4.83	9.54	3.20	3.02	2.12	3.02	3.94	43.64	
October	3.00	7.44	4.00	9.29	10.44	5.55	3.19	16.43	5.09	6.28	71.31	
November	9.56	6.14	3.04	3.61	10.90	6.58	1.65	9.61	10.15	9.25	72.47	
December	4.59	3.87	1.02	10.56	3.80	6.86	4.89	5.89	3.89	5.37	50.74	
TOTALS	58.24	60.87	45.60	62.39	66.03	60.35	50.21	71.59	59.53	48.36	583.17	
	D	D	D	D	D	D	D	D	D	D		

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	Parish Church.	Distance from gauge	Direction

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

Station No. T.F. 3374

RAINFALL at

Niddendale (West Harrogate)

41

County of West Riding Observer The Engineer
 River Basin Ouse - Nidder - 11 Bradford W.W.
 Type of Gauge Standard

Annual Average 52.5 in. based on 12 years obs. un-weighted. Period of average 1881-1915 Ref. S
 57.76 1916-50 File No. 660554/26

Diameter	5"	257	403								
Height	1' 0"		1								
Altitude	1165'		41								
Year	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	Means Total
January	4.22	4.77	9.89	7.73	7.43	7.34	5.62	11.24	4.88	4.62	67.74
February	6.40	2.10	6.23	4.12	8.98	7.11	6.77	5.94	6.04	9.37	63.36
March	5.20	3.05	3.01	5.2	2.06	2.62	10.11	4.50	1.81	3.06	35.94
April	3.10	2.86	3.74	3.32	4.15	2.53	8.86	5.03	8.07	5.44	47.10
May	3.88	3.79	5.51	2.83	5.54	3.90	3.07	2.61	2.24	2.64	35.01
June	.71	1.03	4.22	4.06	6.25	4.19	4.81	6.41	1.18	2.41	35.27
July	1.84	4.48	3.00	3.07	3.42	4.63	2.30	1.68	3.69	4.18	32.29
August	5.03	5.90	7.25	3.35	5.27	8.90	3.33	5.30	3.29	9.04	53.66
September	4.0	2.78	6.06	8.25	4.71	8.97	4.60	5.15	1.82	8.79	51.53
October	6.42	5.78	4.26	8.18	9.34	2.63	1.94	2.84	7.57	4.27	53.23
November	4.66	2.39	4.33	11.81	1.51	12.51	9.70	3.93	7.97	8.08	66.89
December	1.85	6.95	3.66	6.74	4.63	6.02	4.54	7.68	12.20	2.67	56.78
TOTALS	43.01	45.88	61.167	63.98	63.29	71.35	62.65	62.31	60.76	64.41	598.80

1943 point with arrow

1948 Engineer unable to account for apparent increase 4/49 long

1950 Painted; but big.

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	Parish Church.	Distance from gauge

Station No. 3374

T.E. 46

51

RAINFALL at Middendale (West House)

County of West Riding - Yorks.

Observer

River Basin. Ure - Ridd - 11

The Engineer,
Bradford M.W.

Type of Gauge. Cylindrical 11.0.40.74/96 (2 in max.)

Annual Average 52.2 in. based on 42 years obs. un-weighted. Period of average 1881-1915 Ref. S
" 57.76 " " +1 " within 1916-50 "

File No.

1916-50 16/59/926 F.2.2802/58

Diameter ...	5"									5"
Height ...	1'0"									1'0"
Altitude ...	1165'									1165'
Year ...	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960
January	5.80	4.99	1.55	4.97	3.78	5.53	8.99	6.65	6.09	8.05
February	5.50	1.15	4.30	2.80	2.79	2.70	5.58	7.45	.97	5.97
March	5.18	5.28	1.14	4.36	2.27	2.12	5.09	2.94	3.68	3.09
April	3.97	2.86	4.51	1.79	1.19	2.26	5.4	1.61	6.02	4.01
May	7.16	2.65	2.54	5.41	5.11	1.94	2.79	6.39	1.58	2.05
June	1.55	2.30	3.45	3.02	2.72	3.83	1.74	4.22	2.74	2.38
July	2.31	1.86	6.17	3.65	1.20	5.52	4.20	5.21	3.85	8.28
August	5.52	5.84	5.54	7.22	1.57	9.98	8.09	3.88	1.11	4.18
September	3.74	5.84	5.13	6.15	3.19	4.50	5.44	6.94	.29	4.29
October	3.00	5.86	2.87	11.55	3.43	4.23	7.02	5.27	7.43	7.84
November	13.14	3.15	6.11	10.89	3.59	1.86	3.43	1.66	8.77	11.62
December	11.54	5.72	3.69	5.00	8.93	7.39	6.10	6.51	13.51	7.49
TOTALS ...	68.41	47.50	47.00	66.81	39.77	51.86	59.01	58.73	56.04	64.25
	D	D	D	D	D	D	D	D	D	D

Imp. R. A. Middendale 6/62 gauge round, bottle top provided, rain-tight measure.

Site on rather uneven ground. Sloping N.E. towards E-H-E down valley, adequately sheltered without cloth-shade.

1956 Sept 21 afternoons 14.00 Temp. 10.0. Dewpt. 2.0. Wind SW-SE. Turf wall needed or existing fence N on far side of stone walls. Cell bottle & measure at roof level house. See 3374/1

Impacts 7.9.40 by 300mltr. of E-W-N-E-SSE otherwise reasonable.

Position of Station on Ordnance One-Inch map : No. of Map. 90 National Grid Reference 541043.766

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

Summary of Earlier Records from 10-year Sheets :

Record D, or d	1910-19	1920-30	1931-40	1941-50	1951-60
	✓ p.12 -	✓ ✓ but - 20-24	✓	✓ imp. 49 ✓	