## Rainfall at Whittle Dean Reservois

Diameter of Ganco in

Height above Ground, ..... ft. ..... in.

Above Mean Sex Level, ...... ft.

YEAR	1850	1851	1852	1833	1854	1833	1836	1857	1838	1859	MEANS.
		1.84								.75	
February		1.21								.90	
March										1.48	10 46
April										2.74	
May										.23	
June										2.14	
T. L.				1000						2.93	
August								100000000000000000000000000000000000000		1.50	
September -										3.49	
October										3.25	
November -										1.41	
December -										1.66	
Totals -										22.78	
	. C	0	0	0	0	0'	1	. 0	(4	6	

# Rainfall at Whittle Dean Reservoir 60

D. D. Main

	,	
Diameter of Gauge, in.	Height above Ground, ft ft in.	Above Mean Sea Level, 380 ft.

YEAR	1860	1861	1862	1863	1864	1865	1866	1867	1868	1869	MEANS
*								100000000000000000000000000000000000000		1.16	
										2.02	1.834
										1.45	1.891
										2.39	
										3.13	
										1.69	
										.33	
										1.40	
September -										3.19	
October										1.31	
										2.78	
December -	3.32	1.27	1.18	1.42	3.49	1.01	2:59	2 65	3-49	2.21	2.263
TOTALS -	27.28	22.80	24.32	27.09.	25.92	23.09	33 45	23.39	23.77	23-06	25.417

28.67 (3)

This of Type Yalley Helle.

#### RAINFALL AT Newcastle + G. M. M. Mille Dean Res Lon County of Northumberland Observer Aw R. & Wheeler Diameter ..... Height ..... Altitude ..... YEAR ..... 1870 1871 1872 1873 1874 1875 1876 1877 1878 1879 MEANS. 1.55 90 2.72 1.68 137 2.78 .56 2.65 3.29 .69 1.819 February ..... 91 1.42 2.43 .82 .86 1.06 1.74 2.71 .77 2.55 1.527 1.32 .98 2.35 1.69 1.21 .96 3.32 3.37 .57 1.02 1.679 April ..... 74 3.18 3.14 44 2.05 72 1.49 4.02 2.54 2.05 2.037 May ..... ·74 · 40 1.20 2.90 2.15 66 2.43 2.54 2.72 1.70 1.744 1.36 4.07 2.10 1.61 81 1.26 2.50 1.35 2.43 4.72 2.221 July ..... 68 3.18 4.17 2.66 2.00 4.31 98 3.14 25 3.53 2.490 August ..... 1.69 2.40 3.44 2.65 2.20 2.27 1.76 7.40 3.97 4.39 3.214 September..... 1. 24 3.87 3.88 2.35 2.82 3.20 3.52 1.69 2.26 .85 2.5

3 62 2 78 5 40 2 58 1 75 401 1 68 2 48 1 41 81 2.652

1. 60 2463. 96 1.54 1.98 4.27 3.64 2.25 3.63 2.10 2.443

3.93 1.364.61 .99 4.53 2 90 6.74 2.50 2.07 .85 3.048

19.38 27.00 30.40 21.91 23.73 28.40 30.36 36.10 25.91 25.26 2x yus

October.....

November.....

December.....

TOTALS .....

RAINFALL AT Whitely Donn Country of North weeberland Lat. 989 Mary Esg Rain Gauge, by mangham Exp Type- Lower 3. Diameter .... Height ..... Altitude .... 1888 1889 Year ..... 1880 1881 1882 1883 1884 1885 1886 1887 MEANS. 1.04 .74 1.633 28 92 2.49 3.75 1.47 4:42 February .... 1.52 2.47 1.94 1.43 1:45 .76 1:17 .49 .87 .97 1.82 1.83 1.48 1.12 March ..... / 27 2.18 1.61 1.516 April ..... 2 13 1.00 2.26 1.33 1.87 290 1.938 May ...... 1.12 1.65 1.63 2.40 1.69 3.28 3.82 1.48 .37 1.849 June ...... 2 62 2 19 3 77 1.56 53 137 56 32 1.85 .38 1.515 July ..... 499 3.18 2.91 3.58 410 139 3 03 1.23 5-24 3.03 3.268 August ..... 1. 27 4.97 3.10 2.33 '92 3'09 2 78 1.61 1.99 September... 4.51 4.44 1.35 4.22 2.52 2.54 1.98 4.33 October ..... 3 20 3.78 2.68 1.95 1.34 2.98 1.25 2.45 .58 4.54 2.775 November... 2 83 1.80 4.22 1.64 1.21 136 4:29 3.03 4.15 1.06 2.579 December ... 3 30 2.18 3.16 1.63 1.95 1.28 3.16 1.84 1.08 2:093 22.93 22.87

### RAINFALL AT note W. W. Whitele Dean

Type 3		_ Runn G	lauge, by			Obser	667		mith	1	
Diameter	10										
Height											
Altitude											
Year	1890	1891	1892	1893	1894	1895	1896	1897	1898	1899	ME
January	1.93	.95	1.29	2.25	1.67	3.96	1.22	1.63	115	2.39	1.8
February	1.18	.05	3.14	3,40	3.22	1.07	36	.99	1.16	.80	1.5
Mareh	1.97	2.89	.69	.25	-77	2.06	3.07	3.26	1.49	.63	1. 1
April									1.80		
May									2.82		
June									2.39		
July									.62		
August									2.53		
September	1.81		1				- 1		.48		
October	1.20								5.19		
November		2.07							3.18		
December	1.31								1.49		

#### RAINFALL AT Newcastle & Gateshead W.W. white Dean

County of Northumberland Rain Gauge, by al Forster Es co Tyne, lower - 3. Diameter .. 10 Height .... 6 Altitude . 380 Year .... 1900 1901 1902 1903 1904 1905 1906 1907 1908 1909 MEANS. January .. 3.28 .98 1.39 . 44 2.30 .47 1.35 1.22 1494 1.26 1.91 1.619 February .. 4.38 1.15 1.56 1.33 1.91 .76 .84 1.09 March .... 1.04 1.43 1.46 3.34 3-67 1.84 1.52 1.56 1.37 April ..... 1.36 1-12 1-21 1.01 1.52 2.99 1.30 2.32 May ..... 1.36 1.99 1.86 2.12 2.32 .74 3.99 2.82 2.25 1.66 2.16 2.28 2.19 3.46 2.56 1.31 2.34 . 89 -57 3.89 2.26 4.19 1.18 1.54 1.28 1.62 3.14 1.79 2238 July ..... /. 49 5.09 2.40 August .... 3.95 1.59 1.64 3.26 2.34 3.42 1.38 3.29 2836 .64 .58 .61 1.29 1.13 1.91 2.32 1.79 1244 5.67 .73 2.14 3.91 October .... 4-37 2-08 2.21 5.98 1.91 2.19 3.119 November. 3.05 3.68 2.43 1.94 2.62 3.98 3.15 1.51 .52 2:429 December . . 1.93 2.38 1.75 1.57 1.59 .70 1.38 2.56 .57 TOTALS .. 30.90 23.19 20.34.28.59 20.53 21.15 2730 26 02 21.37 26.23 4567

this

#### RAINFALL at Whitle Dean Newcastle W.W.

county of Nowhumberland observer Oh Forelin Egy che

River Basin Tyne, 20war 3

\_\_Rain Gauge, by\_\_\_\_\_

Diameter	5										
Height	06										
Altitude	380										
Year	1910	1911	1912	1913	1914	1915	1916	1917	1918	1919	MBANS.
January	1.65	1.22	2.46	2.86	1.59	2.14	1.61	3.68	2.26	2.65	10 20
February							1970 C PR 19	100	1.69	1.89	7 40
March						The second second	3-13		1.26	2.26	8 19
April							1.42		1.39	1.66	6 59
May							2.77			1.25	812
June							2:34			1.04	637
July				1		The same	2:64	1000		2.03	913
August						11	3.50			2.65	13.85
September						6.75	1.49	200		1.37	9.82
October							3.36	The second	200000000	4.04	12.00
November				CONTRACTOR OF THE PARTY OF THE	10.000		416			4.17	10 73
December						100000000	3.33	7-13-7-2004	2.44		9.96
Totals	25.14	2540	31.67	25.21	25:77	71,50	32:41	27,00	252.16	5750	112:36

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

RAINFALL at Whittle Dean Newcaste N. M. (man)
Country of Northumberland Observer a. S. Forester Eng C. (dec)
River Basin Lyne: Lower 3 C. Hard Cocile by at (1921)

Howard Rain Gauge, by

er	Relation 1											
	5											
	06											
е	380											
and the last	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929	MEANS.	1920-3 Tahous
y	2.76	4:24	2.74	1.00	1.84	2.08	1.85	1.48	2.85	1.81	3.15	25.80
		.09					2.63			.83	1.63	17.41
		1.15					1.32			.30	1.81	17-75
			2.44				1000	1.87		1.75	1-64	18.84
			.94				3.19			.77	1.13	23.88
							3.77				1.29	20.92
							3.16				601	3560
			2.02				2.54				5.44	41.50
			405								2.27	26.75
r											2.45	23.72
ber	1										2.85	23.67
	200										2.27.	29.26
ber	1.67	2.06	1.19	1.82 3.52 1.97	3.14	1.98	2.82	2.90	3·11 2·67 1·91	1.74	2.45 2.85 2.27.	

. 1x. 26. G. on reservoir bank as stretch. No. 2 was in similar position or the S. side of embankement (also Howard gauge but to lack). Both gauges somewhat over exposed + better position to the E. about 15 years from trees at edge of reservoir.

Position o	f Station on : Map, 2 mile	reduced O. to 1 inch	rdnance Survey } N	Vo. of Map	Reference No		
Date.	Lat. N.	Long.	Railway Station.	Distance Direction from gauge	Parish Church.	Distance Direction from gauge	

#### RAINFALL at Whittle Dene Res. (Newe, W. W.)

County of Northumberland Observer A. Hardcastle, Esq., C.E. 1938

River Basin Tyne-Lower - 3. Newsackle & Senteahid W.Co.

Type of Gauge

Annual Average 25.3 in based on M. years obs. un-weighted. Period of average 1881-1815 Ref. S.

								660	605/26			
Diameter		5.										
Height		0.6.								10		
Altitude		380.										
Year		1931	1932	1933	1934	1935	1936	1937	1938	1939	1940	Means Total
January		1.94	1.07	136	1.61	2.14	3.40	2.97	1.69	3-85	1.52	215
February		1.48	.68	3.73	.19	2.97	2.70	3.51	85	1.24	1.50	188
March		 1.17	241	.99	368	.73	2.07	2.46	50	3.58	2.80	203
April		 3.43	1.54	1.43	3.93	2.65	1.76	2.24	. 22	1.05	1.38	196
May		2.83	3.30	1.89	1.16	.90	2.03	2.66	2.92	1.03	1.08	198
June		407	1.15	238	2.47	3.01	2.65	2.00	3.19	2.30	.56	236
July		4.68	4.86	2.22	2.57	.66	3.67	2.20	2.08	2.77	7.21	329
August		4.35	2.55	2.27	2.97	3.05	2.67	2.38	2.22	2.78	1.16	26-30
September	r	1.15	3.28	1.90	1.54	3.48	3.19	1.72	1.65	1.39	1.77	210
October		 - 93	3.70	3.52	3.72	4.78	1.99	2.04	453	6.32	2.85	343
November		 2.47	1.09	3.12	2.95	3.45	2.93	1.11	2.64	3.17	2.74	256
December		1.12	.92	1.21	3.43	1.63	1.82	4.40	3-50	1.21	2.52	217
TOTALS		 2962	26.55	26:02	30-22	29.45	30.67	29.42	25.99	30.69	27.09	2860

1940 Van cound for suos

Position of Station on reduced Ordnance Survey Map, No. of Map													
Date.	Lat. N.	Long.	Rallway Station.	Distance Direction from gauge	Parish Church.	Distance Directio							

RA	I	NFA	LL a	t	Whit	tle I	ene d	Rea			5. 35 V.W)	70		
Cou	nty	ofc	Nort	humb	erlam	۵	Observer	Neuz	stle	* Gate	head	W.C.		
Rive	er B	asin	Jyne	- 1º						8				
		out the												
nnual Aver	-						. Period	l of avera						
of world A reach Whiles. File No. 60005/26														
				017	2/3			-				-		
Height		000	4-											
Altitude		380		-	41							1941-50		
Year		1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	Means		
January		2.74	2.56	2.67	.99	4.03	1.60	1.56	8.10	1.20	2.21	27.66		
February		4.08	1.12	1.37	1.80	1.54	.83	2.79	1:35	1.08	3.79	1975		
March		3.02	99	-82	-53	44	1.59	3.08	82	-63	.74	1266		
April		1-62	.80	1.22	1.62	1.79	-84	3.11	2.03	1.16	2.11	16 30		
Мау		2.26	-89	2.89	1.99	3.96	1.88	2.25	1.34	.65	1.34	19.45		
June		-84	1.26	1.96	2.20	2.87	1.95	3.79	345	.86	120	2038		
July		2.72	2.61	2.12	2.85	185	4.48	4.70	1.04	1.85	3-17	27.39		
August		3.30	3.96	4.60	1.87	1.52	3.76	.27	525	2-26	3.85	3064		
September		-43	2.29	3 ob	603	2.01	4.64	1.16	3:23	1-13	3:42	2740		
October		3-46	2.67	2.89	2.71	293	.87	.93	1.83	2.57	1.14	2200		
November		3-04	.49	1.95	6.21	79	3.89	3.02	1.54	2.34	4.67	27.94		
December		42	2.12	.94	1.74	1.32	1.79	2.77	1.74	2.80	1.47	17:11		
Torus		27.93	21.76	ab-49	30.54	25.05	28.12	29.43	31.72	18.53	29.11	26868		

Position of	Station on red 1 mile to	uced Ordna 1 inch Seri	nce Survey Map, N	o. of Map	Reference No	·····
Date.	Lat. N.	Long.	Railway Station.	Distance Direction from gauge	Parish Church.	Distance Direction from gauge.

December ... 1.77 2.69 1.29 2.54 3.17 1.60 2.04 3.45 3.22 2.05 23.82 28-44 24.90 2.5832.24 19.39 28.37 2507 30.91 17.75 32.02 259.67 TOTALS .

1.64 2.31 2.93

.87 8.65 3.78

3.07 2.28

1.53

1.37 2.37

1.02 .61

4.10 1.18

4.03 .27 3.83

-84

1.22 1-99 2.28 1.54 1.92 5.42

1931-40

25.26

37.48

21.63

24:55

24.69

4.69

.78 1.73

4.16 3.06

1910-19

2.46 2.24

A.53 4.45

2.30 3.69

1-12 5.63

2.94 1.16 2.77

2.33

2.81

2.74

1952. Sept Oct los but enge er state gange some

1956 Feb amended Mc 3, Eng agrees

July ... 1.38

October ... .69

November ... 6.60

August ... 4.76 2.31 September ... 1-23

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

(62) Wt. 13072-389 10M 6/50 T.S. 841

Record D, or d

Vbut -20-25

1920-30

1951-60

1941-50