

Lammermoor Hills : Stobshall Res.

RAINFALL at Kanside Reservoir

10

County of Haddington

Observer W. Allan Carter Esq.

River Basin Tyne &c - 4

J. Ross Esq. B.E. (1918)

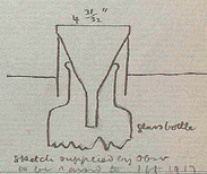
Standard Rain Gauge, by

Gauge A

Diameter ...							5				
Height							0 4		1 0		
Altitude ...							998				
Year ...	1910	1911	1912	1913	1914	1915	1916	1917	1918	1919	MEANS.
January94	3.17	3.09	2.52	1.78	1.98	1.28	1.04	4.07	
February ...		1.32	2.11	1.24	1.91	4.08	3.03	1.98	2.46	2.80	
March		1.74	2.03	2.02	3.12	1.38	4.89	1.04	.78	1.77	
April		1.41	.33	2.52	.93	1.13	3.81	1.51	.89	2.19	
May85	1.57	2.99	2.25	1.36	5.26	1.71	2.29	.71	
June		5.32	4.85	1.75	2.71	1.27	3.18	1.05	.63	1.60	
July		1.06	1.45	.81	2.36	5.40	4.81	.97	3.18	.94	
August		1.01	4.56	1.58	2.84	4.13	3.99	8.63	2.02	1.92	
September...		1.31	3.70	2.57	.82	2.30	2.57	.94	3.98	1.49	
October ...		3.66	2.04	2.75	2.18	1.79	4.08	1.72	3.60	3.85	
November ..		5.09	1.32	1.84	3.37	1.64	4.35	1.06	1.58	5.70	
December...		3.33	.97	1.08	5.02	4.83	2.55	1.88	1.61	2.91	
TOTALS ...		27.04	29.00	24.24	30.03	30.99	44.50	23.77	24.06	30.01	

1911-1915 Rec'd 28 Jan - End 17 Dec 1917

1919. Wood wire fence 3' 6" high 3' 6" each side.



Date.	Lat. N.	Long. W.	Railway Station.	Distance.	Direction.	Church.	Distance.	Direction.
1916	55° 51'	2° 48'	Kumbie	2 1/2 mls	N.N.W	Kumbie	2 1/2 mi.	W.N.W.

Lammoxum Hills = Stobhill Res.
RAINFALL at Wantside Reservoir, Gauge B

10 5100

County of Haddington

Observer H. Allan Carter Esq.
J. Ross Esq., F.R.S. (1918)

River Basin Tyne & Co. - 4

See J. A. Haddington
Rain Gauge, by

Diameter ...	5					5					
Height	0 4					0 4 1 0					
Altitude ...	950					950					
Year ...	1910	1911	1912	1913	1914	1915	1916	1917	1918	1919	MEANS.
January ...	1.14	3.70	3.56	2.87	2.12	2.48	1.00	1.46	5.15		
February ...	1.64	2.47	1.13	2.36	4.40	2.83	3.54	2.92	3.15		
March	2.40	2.65	2.92	3.54	1.74	4.48	1.18	1.12	3.60		
April	1.58	.39	2.91	1.02	1.13	4.48	2.10	1.12	2.75		
May92	1.65	3.42	2.26	1.56	5.43	1.88	2.76	.85		
June	5.43	5.08	1.99	3.17	1.41	4.32	1.30	.74	1.75		
July	1.12	1.60	.95	2.55	6.12	5.05	1.29	3.45	1.00		
August94	4.81	1.72	2.90	5.13	3.93	8.83	2.70	2.22		
September...	1.42	4.11	2.58	.82	2.80	2.60	1.20	4.54	2.12		
October ...	4.12	3.37	3.00	2.71	2.78	4.81	2.70	4.60	4.35		
November ..	5.65	1.64	2.02	4.17	2.02	5.38	1.95	2.30	7.20		
December...	3.95	1.26	1.12	6.44	6.09	3.04	2.20	2.10	3.40		
TOTALS ...	30.31	32.73	27.32	34.81	37.30	48.83	29.17	29.81	37.64		

1711-1915 Rec'd 25 Jan + Ent'd 17 Dec 1917

1919. Wire fence 3' 6" high 3' 6" each side

Date.	Lat. N.	Long.	Railway Station.	Distance.	Direction.	Church.	Distance.	Direction.
1916	55° 51'	2° 48'	Humble	2 1/2 mi.	N. N. W.	Humble	2 1/2 mi.	N. N. W.

RAINFALL at Hammermill Hills (Huddersfield Re.) B.County of HuddersfieldObserver J. Ross, Esq., F.R.S.River Basin 4 Tyne etc.

Rain Gauge, by

See page A.
from sheet
no. 1919000.(1926) Summerson

Diameter ...	5"	4	5			5"					
Height	1.0	2.0				1'					
Altitude ...	950					950'					
Year	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929	1930. MEANS.
January ...	3.00	4.32	1.90	1.98	2.05	4.32	4.97	2.35	4.35	1.00	2.56
February ...	1.90	2.40	2.41	4.92	.98	5.08	(2.26)	.95	2.12	.60	1.80
March	2.95	2.34	2.53	1.49	.53	3.18	2.60	2.94	3.17	.28	2.38
April	3.30	1.49	3.29	2.08	1.04	2.78	2.50	1.34	1.08	1.98	2.42
May	1.82	2.15	.69	3.65	4.88	3.57	2.97	1.69	2.10	2.63	1.78
June	1.10	.63	1.83	1.11	2.01	1.15	4.71	2.87	6.73	3.31	1.61
July	3.33	2.16	3.78	2.02	4.74	2.03	4.96	3.66	1.84	2.28	5.25
August	5.57	5.31	2.28	4.66	4.45	3.06	1.62	9.47	5.73	5.46	7.72
September...	1.36	1.57	2.31	2.65	4.77	5.34	4.29	7.55	2.51	.29	3.85
October	2.30	3.85	5.24	3.48	3.30	2.62	3.82	3.00	4.51	3.39	4.80
November...	2.62	2.45	1.27	3.92	4.93	1.25	4.83	3.80	3.75	3.89	3.11
December...	3.60	2.11	2.97	3.70	3.80	3.51	(.97)	3.12	2.42	4.50	2.14
TOTALS...	23.02	20.78	30.50	35.72	37.48	37.89	40.50	42.74	40.31	29.61	39.32.

1920. June 5th. 4th. — on open hill
 1921. May & June corrected by map.
 1926. Feb. & Dec. adjusted by surrounding stations.

Position of Station on reduced Ordnance Survey } No. of Map

Map, 2 miles to 1 inch Series

Reference No.

Date.	Lat. N.	Long.	Railway Station.	Distance from gauge	Direction from gauge	Parish Church.	Distance from gauge	Direction from gauge
1920	56° 50' 40"	2° 48' 0"	Stumble	2 1/2 m.	N.W.	Stumble	2 1/2 m.	N.W.

RAINFALL at Lammermoor Hills (Hobkirk Pass)County of HaddingtonObserver J. Broad, Esq., G. C.River Basin 4 Fre & C.

See Appendix
for details
 (1926) Sumner Rain Gauge, by _____

Diameter ...	5	4	5			5"					
Height	1.0	2.0				1'					
Altitude ...	998					998'					
Year	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929	1930. MEANS.
January ...	1.85	3.21	1.46	1.27	(1.84)	2.68	3.59	1.62	3.06	.63	1.92
February ...	1.36	1.67	1.67	3.41	.80	3.31		.87	1.28	.40	1.27
March	2.15	1.81	2.04	1.21	.47	2.76	1.75	2.61	2.46	.21	2.22
April	2.59	.92	2.75	1.74	.82	2.43	1.98	1.09	.84	1.70	1.96
May	2.51	1.41	.55	3.18	4.64	3.21	2.57	1.54	1.95	2.20	1.26
June	1.18	.72	1.88	0.96	1.65	1.00	4.20	2.60	5.93	2.65	1.29
July	3.57	1.91	3.58	1.77	4.10	1.90	4.51	2.68	1.74	1.73	4.87
August	5.12	4.57	2.05	3.84	4.07	2.69	1.36	8.68	5.61	5.12	6.88
September...	1.15	1.28	2.16	2.09	4.38	5.10	4.15	7.24	2.25	.20	3.17
October	2.08	3.72	4.67	2.93	2.80	2.10	3.06	2.53	3.67	2.98	4.02
November...	1.81	2.03	1.16	3.12	4.49	1.05	2.87	3.12	3.21	2.80	2.70
December...	3.01	2.05	2.31	3.08	(3.54)	2.50		2.80	2.11	3.20	1.90
TOTALS...	28.38	25.30	26.28	28.62	(33.60)	30.73		37.38	34.11	23.82?	33.56?

1920 high 3 ft. 4 ft. off surrounding gauge
 1924. Jan & Dec. corrected by own data. May & June adjusted to map.

1925. n.p. low.
 1926. Feb. & Dec. of no value, too low. not printed.

1930. no action yet, re-inspection, decided to print with?

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.	55° 51'	2° 48' 00"	Humble	2 1/2 m.	N.W.	Humble	2 1/2 m.	N.W.

RAINFALL at Lammermoor Hills (Stotskie Res.) B.County of HaddingtonObserver J. Ross / ~~Adm~~ EegRiver Basin H. Type CAdam Robson EegType of Gauge M. G.Annual Average 33.2 in. based on 17 years obs. un-weighted. Period of average 1881-1911 Ref. 5

Diameter	6"										
Height	1' 0"										
Altitude	950'										
Year	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940	Means
January	2.65	2.51	3.13	1.86	1.23	4.84	3.27	3.02	5.58	1.11	
February	2.13	1.63	2.14	.72	2.13	3.16	4.09	1.79	1.86	1.98	
March	2.70	2.99	.89	4.73	1.40	4.03	4.08	.53	4.22	2.38	
April	3.76	1.84	1.80	2.89	2.46	2.41	1.05	.29	1.23	2.42	
May	2.02	2.79	1.36	3.08	1.39	1.03	3.52	3.62	1.20	2.13	
June	4.27	1.00	1.90	2.86	2.44	2.95	1.17	4.30	3.54	.55	
July	4.07	3.29	4.11	2.10	1.12	3.25	4.23	2.87	2.46	10.00	
August	7.82	.50	.57	3.12	2.92	1.91	4.43	1.96	1.69	1.09	
September	2.11	1.98	2.33	2.15	2.25	3.72	1.87	3.25	2.45	2.84	
October	1.52	7.99	3.43	2.44	7.43	2.11	3.69	5.54	5.16	3.26	
November	1.82	1.37	3.25	4.95	3.64	3.89	.97	4.00	2.63	4.90	
December	1.18	3.20	2.50	4.66	3.08	1.83	5.83	3.75	1.31	2.72	
TOTALS	36.05	31.09	27.41	36.66	31.49	35.14	38.20	35.42	34.33	36.38	

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>Humble</u>	<u>2 1/2</u> m	<u>N. N.W.</u>	<u>Humble</u>	<u>3</u> m	<u>N. N.W.</u>

RAINFALL at Lammermuir Hills (Stoshil Rd.) ACounty of Haddington Observer J. Ross, Esq. Eng.River Basin H - Tyne & C. Adam Robson Esq.Type of Gauge M.O.Annual Average 25.9 in. based on 9 years obs. un-weighted. Period of average 1893-1901 Ref. 100 No 445
Deleted 18.40. overlap using Stoshil Rd. B & West Topo.

Diameter	5"										
Height	1' 0"										
Altitude	998'										
Year	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940	Means
January	1.66	2.15	2.69	1.37	1.08	4.22	3.07	2.82	5.26	9.6	
February	1.55	1.23	1.88	.07	1.61	2.80	3.62	1.54	1.58	1.59	
March	1.99	2.32	.80	4.27	1.25	2.97	3.52	.44	3.67	2.70	
April	2.89	1.54	1.48	3.51	2.05	1.80	.83	.19	1.03	2.30	
May	1.79	2.30	1.13	2.90	1.11	.87	3.26	3.45	.99	1.89	
June	3.68	.93	1.63	2.67	2.30	2.70	1.13	4.31	3.20	.49	
July	3.81	2.88	3.59	2.03	1.12	3.58	3.92	2.66	2.23	9.32	
August	7.46	.43	.47	2.99	2.74	1.84	4.17	1.90	1.52	.95	
September	1.78	1.77	2.02	2.00	2.04	3.74	1.83	2.97	2.22	2.72	
October	1.44	7.27	3.18	2.29	6.31	1.77	3.52	5.27	4.88	3.47	
November	1.62	1.12	3.11	4.41	3.49	3.08	.92	3.68	3.48	4.97	
December	0.89	2.89	2.29	4.46	2.77	1.39	6.38	3.88	1.00	2.47	
TOTALS	30.78	26.83	24.27	32.97	27.87	30.76	36.17	33.11	31.06	33.83	

Wire fence surround 4' distant.

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.			<u>Stumble</u>	<u>2 1/2 m.</u>	<u>N.N.W.</u>	<u>Stumble</u>	<u>3 m.</u>	<u>W.N.W.</u>

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

Station No. 5100

RAINFALL at Lammermoor Hills (Stobhill Res.) B. 41County of East Lothian Observer Adam Robson Esq.River Basin 4 - Tyne & CType of Gauge MAnnual Average 33.0 in. based on 17 years obs. un-weighted. Period of average 1881 - 1915 Ref. S

File No.

Diameter	5"			902	469						
Height	1'0"										
Altitude	950'				41			927'			
Year	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	Means
January	2.69	3.84	3.10	2.17	4.62	2.05	3.67	5.38	1.44	.57	
February	3.31	(2.49)	1.41	1.96	3.29	1.21	1.19	2.34	.81	2.97	
March	2.68	1.14	1.38	.75	.82	2.58	(4.42)	1.10	1.18	1.91	
April	1.42	1.30	1.20	1.83	(1.41)	.59	3.97	2.10	1.20	2.14	
May	2.62	2.12	4.55	3.12	4.58	1.78	3.53	1.72	2.02	.84	
June	1.37	1.41	2.53	2.15	2.41	1.93	2.85	3.82	1.18	1.54	
July	2.69	4.86	2.98	2.20	2.03	3.46	2.53	2.32	2.58	2.39	
August	4.00	2.58	3.57	2.97	4.43	5.03	.16	11.79	2.71	3.45	
September	0.97	1.59	1.63	5.39	2.86	3.42	1.49	2.76	1.36	6.89	
October	3.30	2.78	2.60	2.56	3.14	.50	.94	2.12	4.60	2.20	
November	4.19	.90	1.23	6.29	.42	5.87	3.60	1.68	4.34	4.52	
December	0.78	1.89	1.26	3.07	2.45	2.76	2.21	2.43	2.96	2.72	
TOTALS	30.02	26.90	27.44	34.46	32.46	31.18	30.56	39.56	26.38	32.14	
	W	W		W	W	W	W	W	W	W	

1941 no objects near to gauge.

1942 Feb. contd. for snow.

1945 April part cat'd

* 1948 Gauge re-sited 1.9.48.

1949/50 Gauge reported damaged beyond repair date not given.

4/7/50 Sup. M. Thoms. wire adopted 1/9/52 unsatisfactory. Gauge to be moved back to old site & surrounded with turf wall.

20004

1940's bank subsiding

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			Humble	2 1/2 mi	NNW	Humble	3 mi	NNW

BRITISH RAINFALL ORGANIZATION

Station No. 5101

RAINFALL at Lammermuir Hills (Stobichel Res.) A. 41County of East Lothian Observer Adam Robson Esq.River Basin H-Tyne & C.Type of Gauge MBAnnual Average 28.9 in. based on 9 years obs. un-weighted. Period of average 1881-1915 Ref P.B. No 445

File No.

Diameter	5"										
Height	1' 0"										
Altitude	998'										
Year	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	Means
January	2.31	3.38									
February	2.85	(2.30)									
March	2.26	1.08									
April	1.22	1.16									
May	2.33	1.82									
June	1.19	1.18									
July	2.50	4.11									
August	3.68	2.03									
September	.80	1.42									
October	3.06	2.77									
November	3.88	.72									
December	.65	1.71									
TOTALS	26.73	23.68									

1943 Tunnel of gauge stolen Jan. 1943. Not replaced. Observations ceased.
 1942 Feb cord for snow.

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			Hambie	2 1/4	N.N.W.	Hambie	3	N.N.W.

BRITISH RAINFALL ORGANIZATION

Station No. 5100
RAINFALL at Lammermoor Hills (Stenhouse Res.) B

51

County of East Lothian Observer Adam Rodman Esq.

River Basin 4 - Tyne & Co.

Type of Gauge M.O. M.N. 11 519/50

Annual Average 34.22 in, based on 40 years obs. un-weighted. Period of average 1916-58 Ref. 48
File No.

Diameter ...	5'				902	769					
Height ...	1'0"					1					
Altitude ...	927'					51					
Year ...	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	Means
January ...	3.42	2.18	0.81	2.49	2.06	2.20	3.44	1.99	1.35	3.67	
February ...	3.52	.66	1.03	2.09	2.18	2.77	3.31	2.24	0.59	3.63	
March ...	3.93	1.65	.36	2.20	1.57	1.34	2.10	1.70	1.19	1.70	
April ...	3.77	1.88	3.56	.77	1.12	.62	1.20	2.01	2.50	1.43	
May ...	2.62	1.91	2.09	6.30	1.86	.74	1.64	2.44	0.58	1.74	
June ...	2.15	2.58	2.68	2.55	.81	2.29	1.32	3.14	2.68	1.25	
July ...	2.81	2.04	4.35	2.67	2.97	5.02	5.43	5.20	2.52	3.24	
August ...	7.15	3.48	2.59	5.66	(.98)	8.50	8.21	3.34	0.81	4.23	
September ...	1.29	4.53	3.62	3.69	(1.70)	3.37	1.99	2.43	0.70	2.48	
October ...	0.65	2.92	1.89	5.02	(2.54)	1.43	1.85	1.36	2.40	6.20 #	
November ...	5.41	4.56	2.81	4.35	1.52	1.07	1.89	.94	7.18	3.59	
December ...	1.77	4.52	2.40	2.94	4.83	3.76	3.30	5.97	5.47	2.54	
TOTALS ...	38.49	32.91	28.19	40.73	24.14	33.11	35.68	33.01	27.96	100 n.p.	
	n.p.	n.p.	!			w	w	w	w		

1951. n.p. too high
 1952. n.p. high
 1953. paint 1954 No Kumpwell yds. (8/53)
 has at 1960 S. Shaw & Co. Ltd. Sup. A more accessible site is required by Wals. Sup.
 Present site is best available but not good. A new site was selected on
 flat bottom of disused quarry at N end of res. o/e to SE but steep
 quarry walls max elev 20'. None will be made a 1st Riv.
 1960 n.p. inc 1961 gauge moved to NW slope 1/1 3/5/60 100 n.p.

Position of Station on Ordnance One-Inch map : No. of Map National Grid Reference 34 50 62 20

Date.	Lat. N.	Long.	Railway Station.	Distance from gauge	Direction from gauge	Parish Church.	Distance from gauge.
1954			Humbie	2 1/2 mi	N.N.W.	Humbie	3 mi. W.N.W
			00344				

Summary of Earlier Records from 10-year Sheets :

Humbie 1943. date changed.

Record D, or d	1910-19	1920-30	1931-40	1941-50	1951-60
	c 1941 ✓	✓	✓	✓ n.p. 1950	
			w 31-40	for 1941-50, n.p. 1950	

Air Ministry, Meteorological Office

Station No. 5100/1

RAINFALL at Lammenmin Hills (Stavahel Ho) Mas Lita

County of East Lothian

Observer East Lothian W. B.

River Basin 4/ Tyne and coast

Type of Gauge M.O. Mk II

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

File No. _____

Diameter ...				902	774						5"	
Height ...					1						1'	
Altitude ...					51						900'	
Year ...	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	Means	
January ...										-100		
February ...												
March ...												
April ...												
May ...												
June ...												
July ...												
August ...												
September ...												
October ...										-100		
November ...										# 3.59		
December ...										2.54		
TOTALS ...										Imp. np -100		

1961 R/gauge moved from S/N 5100. 1960 np. inc.

Position of Station on Ordnance One-Inch map: No. of Map 63 National Grid Reference 36/50/622

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

Summary of Earlier Records from 10-year Sheets:

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