

RAINFALL AT

Gawald Thorpe Reservoir

Lat. _____

Lon. _____

County of Haddington

Rain Gauge, by _____

Observer _____

W. Ross Young Esq. C.E.

E. coast stream - 3.

Diameter ...								12			
Height								16			
Altitude ...											
Year ...	1900	1901	1902	1903	1904	1905	1906	1907	1908	1909	MEANS.
January ...								.63	3.35	1.43	
February ...								1.21	1.34	2.20	
March								1.53	4.29	7.46	
April								2.20	2.35	3.10	
May								2.23	1.85	2.32	
June								2.83	.95	1.18	
July								2.55	3.68	2.73	
August								2.33	2.10	3.43	
September ..								1.54	2.55	3.30	
October ...								8.93	1.32	3.26	
November ..								2.34	1.60	.50	
December ...								3.65	.47	3.86	
TOTALS ...								31.97	25.85	34.77	

1907 Gawald Church 2 miles 5
 Lippid Station 4 . 3
 "Nothing near"

N.B. Annual values rejected from survey Sep. 1929.

RAINFALL at Garvald, Thorter ReservoirCounty of Haddington
East Coast Plains 3.
River Basin Forth 2.Observer H. Ross Young Esq. C.E.
A. S. married Esq. C.E. (1913)

Rain Gauge, by _____

Diameter ...	12			5							
Height	1	6									
Altitude ...				700							
Year ...	1910	1911	1912	1913	1914	1915	1916	1917	1918	1919	MEANS.
January ...	3.42	1.53	4.41	2.12	1.10	1.50	1.80	3.26	1.65	4.28	2507
February ...	3.10	1.50	2.17	.60	1.60	2.95	2.30	.50	1.90	1.10	1772
March	1.21	2.23	2.34	3.55	2.45	1.10	3.10	1.15	1.12	2.20	2045
April	2.75	1.43	.50	1.80	.49	.60	3.15	1.25	1.12	2.70	1577
May	1.78	1.10	1.20	2.90	2.18	.80	4.45	1.25	1.40	.25	1731
June	1.80	4.90	2.30	.95	2.20	1.53	2.38	1.10	.14	1.30	1860
July	3.45	1.10	1.10	.25	2.30	3.40	3.70	1.50	1.75	.25	1880
August	4.90	.97	4.20	1.30	1.90	3.50	3.35	7.80	1.30	1.70	3092
September ...	1.48	1.15	3.20	1.90	.45	1.95	2.80	1.00	3.50	1.60	1903
October ...	4.10	3.73	2.30	2.50	2.03	2.35	4.00	3.10	3.30	2.10	2981
November ...	3.20	5.60	1.10	1.20	2.95	1.25	5.00	1.00	1.60	6.20	2910
December ...	2.45	4.10	1.45	1.42	5.90	4.25	2.60	2.10	1.10	3.50	2887
TOTALS ...	33.64	29.34	26.27	20.49	25.55	25.18	38.63	25.01	19.88	27.18	27117

N.B. Annual values reported from Survey Map. 1929

Date.	Lat. N.	Long.	Railway Station.	Distance.	Direction.	Church.	Distance.	Direction.
1913			Gifford			Garvald		

RAINFALL at Garswald (Thorpe Reservoir)County of HaddingtonObserver J. G. Miller, Esq. C.E.River Basin E. coast streams.

Mr. Andrew Robertson. (1925)

(1926) N.O. Rain Gauge, by _____

Diameter ...	3"					5	6"		5		
Height	1.0						1'				
Altitude ...	700		715				700'				
Year	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929	1930. MEANS.
January ...	2.10	2.80	1.80			2.10	1.25	2.50	3.77	.80	4.27
February ...	2.00	1.65	1.20			1.50	2.70	.73	1.76	.57	1.00
March	2.50	1.10	1.50			.75	1.70	2.60	2.75	.13	1.93
April	2.25	.50	1.86			1.40	3.60	.98	1.08	1.66	1.55
May	2.53	1.30	.50			1.90	3.00	1.92	1.12	1.68	1.08
June	0.53	.50	1.10			3.00	.50	2.85	4.80	1.90	1.30
July	5.53	1.00	3.40			3.40	2.10	4.04	1.81	2.80	5.08
August	4.90	3.40	2.20			1.10	2.60	6.18	4.20	4.38	6.08
September...	1.10	1.50	1.60?			3.80	3.60	6.72	1.80	.12	4.57
October	1.30	2.70	4.00			3.62	1.30	3.58	3.76	2.90	2.32
November...	1.80	1.50	.50?			3.25	.80	2.78	4.03	3.88	4.50
December...	3.00	1.15	1.10?			1.08	2.30	3.72	2.15	4.50	2.40
TOTALS...	28.45	19.10	20.76			26.90	25.45	38.60	33.03	24.82	36.08

1920 object not found - "none".

1925, low. n.p.

1926. The old float type of gauge has been replaced by type A. which will be used in future.

Site inspected by J. Blacklock 18.9.29

N.B. Annual values rejected from Survey Map 1929

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° 55' 5"	2° 57' 3"	Gifford.	4.5 m	W.	Garswald.	1 mi	N.W.

RAINFALL at Gawald (Hosier Reservoir)County of HaddingtonObserver A. Robertson, C.E.River Basin S. East Coast StreamsJames Ross Esq. (5/1939)
Adam Robson Esq.Type of Gauge In. O.

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

Diameter	5"										
Height	1' 0"										
Altitude	700'							125			
Year	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940	Means
January	1.85	2.70	1.90	1.72	1.44	3.72	(3.00)	2.90	6.57	.93	2673
February	1.54	.68	2.00	.00	1.50	3.68	2.54	.95	1.84	1.53	1626
March .....	.83	2.65	.75	11.88	1.22	2.95	3.25	.40	3.32	2.63	2288
April	3.20	1.70	1.48	11.10	3.05	2.00	.93	.12	1.00	1.91	1949
May	2.87	3.05	1.40	2.30	1.12	1.15	2.68	2.95	1.30	1.71	2053
June	3.82	1.20	1.55	3.00	2.85	1.38	1.30	3.20	3.44	.45	2219
July	3.47	3.20	3.10	2.44	.70	3.62	3.68	3.20	2.80	9.65	3576
August	6.10	.39	.75	3.87	2.90	1.72	3.80	1.36	2.13	.99	2401
September	2.56	2.78	2.48	1.50	2.08	3.60	1.30	3.20	1.84	2.64	2398
October	1.63	7.32	3.30	3.15	0.10	1.90	3.78	5.30	5.30	4.21	4179
November	3.04	1.40	3.12	3.72	4.40	3.30	1.55	3.60	3.49	4.73	3235
December .....	.75	2.65	2.05	5.68	2.48	1.90	6.08	3.10	1.30	2.11	2810
TOTALS	31.66	29.72	23.88	36.36	29.84	30.92	(33.89)	30.28	34.33	33.19	31407

new gauge 1925, records 1931 + 1932 seem reasonable 11.12.33.

1937 Jan estimated

Annual Average 26.0" rejected from survey as 7" too low.

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.			Gifford, E. Linton	4.5m	W.	Gawald	1m	N.W.

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

Station No. 5096

RAINFALL at Garnald (Thornton Reservoir)

41

County of East Lothian Observer Adam Robson Esq.River Basin 3- East Coast SkeansType of Gauge CB

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

File No.

Diameter	5"				903	625					
Height	1' 0"					1					
Altitude	725'					41					
Year	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	Means
January	1.92	3.30	2.34	1.63	3.15	1.36	3.78	6.75	1.43	.70	2642
February	2.49	1.41	1.16	1.13	2.17	1.11	(1.00)	1.40	.73	2.85	1551
March	3.10	.72	1.43	.52	.58	2.64	3.60	.93	1.21	2.27	1700
April	1.64	1.04	1.06	2.23	1.17	.64	3.46	1.93	1.11	2.77	1705
May	1.97	1.64	3.28	4.03	4.60	1.95	3.95	1.58	2.27	1.78	2705
June	1.24	1.24	2.23	2.67	1.16	1.81	2.32	4.27	1.05	1.86	1985
July	2.81	3.13	3.46	2.53	2.38	2.70	2.10	1.77	2.41	2.11	2540.
August	2.80	2.07	3.14	3.34	4.79	5.30	.28	13.19	3.32	2.42	4065
September	0.78	2.10	1.65	5.15	3.07	3.20	1.39	2.64	1.28	5.19	2645
October	3.31	2.60	2.60	2.48	3.49	.67	.90	2.75	5.96	1.63	2639
November	4.09	.74	0.80	5.86	.76	5.71	2.77	1.49	5.02	5.54	3278
December ....	.68	1.56	0.93	2.73	2.60	2.43	2.32	2.61	2.59	2.10	2061
TOTALS	26.83	21.55	24.08	34.48	29.92	29.52	27.87	41.31	28.38	31.22	29516

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			E. Linton	4 1/2 m	N.	Garnald	1 1/2 m	N.W.

BRITISH RAINFALL ORGANIZATION

Station No. 5096

RAINFALL at Garvald (Jamber/Reservoir)

51

County of East Lothian

Observer Adam Nelson Esq.

River Basin 3 East Great Britain

Type of Gauge M.O. M.R.I. 449

Annual Average in. based on years obs. un-weighted. Period of average Ref.
" 30.26 " 37 " " within 1916-58. " " 1916-50 " \$
File No.

Diameter ...	5"				903	625					
Height ...	1'0"					1					
Altitude ...	725'					5'					
Year ...	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	Means
January ...	3.10	1.96	.83	2.57	1.93	1.32	2.53	1.43	1.15	3.63	
February ...	3.18	.70	1.04	2.01	2.11	2.49	2.84	1.85	0.36	2.06	
March ...	4.11	1.15	.34	1.72	2.00	1.20	1.77	1.72	0.72	0.93	
April ...	3.23	1.83	3.53	.82	.66	.82	.92	2.67	1.92	1.06	
May ...	3.81	1.99	2.43	5.77	1.81	.58	1.28	1.77	0.50	1.11	
June ...	1.60	2.40	2.53	1.87	.82	2.41	1.36	2.85	2.43	0.80	
July ...	3.61	1.81	4.75	2.08	1.60	4.23	4.41	4.52	1.70	3.23	
August ...	5.02	2.71	2.03	6.85	.99	9.09	5.48	2.27	0.63	4.04	
September ...	0.70	3.81	3.51	2.95	1.13	3.98	1.58	1.74	0.54	2.65	
October ...	.51	3.03	2.15	5.18	2.17	1.26	1.91	1.53	2.05	6.41	
November ...	5.32	4.41	2.86	4.39	1.39	1.10	2.29	.75	6.32	3.32	
December ...	1.91	3.36	2.17	2.76	(4.61)	2.81	2.17	5.74	4.19	2.65	
TOTALS ...	36.10	29.16	27.70	38.67	21.22	31.29	28.54	28.84	22.51	31.89	
							W	W	W	W	

1955 Dec. amended
1959 little low but accepted
lus 9.8.60 ~~to Garvald~~ g. only fair - river can miss
new g. recommended - g. on S bank of res. O/E
to winds from NE. Also risk of spring. Suggest overlap
35° NE of present site.

00014

Position of Station on Ordnance One-Inch map: No. of Map National Grid Reference 607695

Date.	Lat. N.	Long.	Railway Station.	Distance Direction from gauge	Parish Church.	Distance Direction from gauge.
1951			East Hinton	4.8.0 N	Garvald	1.4.2 N.W.

Summary of Earlier Records from 10-year Sheets:

Record D, or d	1910-19	1920-30	1931-40	1941-50	1951-60
	✓	NR 23 a 24	✓	✓	
	—	—	—	✓ w 44 50	

Station No. 5096

RAINFALL at Garnald (Thornton Reservoir)

51

County of East LothianObserver Adam Robson Esq.River Basin 3 East Coast StreamsType of Gauge A M.O. Mk I

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

File No. R300

Diameter ...	5"											
Height ...	1'											
Altitude ...	725'									725' <i>from</i>		
Year ...	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	Means	
January ...	3.10	1.96	.83	2.57	1.93	1.32	2.53	1.43	1.15	3.63	2045	
February ...	3.18	.70	1.04	2.01	2.11	2.49	2.84	1.85	.36	2.06	1864	
March ...	4.11	1.15	.34	1.72	2.00	1.20	1.77	1.72	.72	.93	1566	
April ...	3.23	1.83	3.53	.82	.66	.82	.92	2.67	1.92	1.06	1746	
May ...	3.81	1.99	2.43	5.77	1.81	.58	1.28	1.77	.50	1.11	2105	
June ...	1.60	2.40	2.53	1.87	.82	2.41	1.36	2.85	2.43	.80	1707	
July ...	3.61	1.81	4.75	2.08	1.60	4.23	4.41	4.52	1.70	3.23	3194	
August ...	5.02	2.71	2.03	6.55	.99	9.09	5.48	2.27	.63	4.04	3881	
September ...	.70	3.81	3.51	2.95	1.13	3.98	1.58	1.74	.54	2.65	2259	
October ...	.51	3.03	2.18	5.18	2.17	1.26	1.91	1.53	2.05	6.41	2623	
November ...	5.32	4.41	2.36	4.39	1.39	1.10	2.29	.75	6.32	3.32	3165	
December ...	1.91 d	3.36	2.17	2.76	4.61	2.81	2.17	5.74	4.19	2.65	3237	
TOTALS ...	36.10	29.16 d	27.70 d	38.67 d	21.22 d	31.29 d	28.54 w	28.84 w	22.51 w	31.89 w	2057.2	

1957 a little low but accept.

Installed 9/9/60. Once referred to NE. Further checked F. 11/3.

Gauge moved 35 yds. N.E. to slightly more sheltered position 28/9/60

Position of Station on Ordnance One-Inch map : No. of Map..... National Grid Reference 36 608695

Date.	Lat. N.	Long.	Railway Station.	Distance from gauge	Direction	Parish Church.	Distance from gauge.	Direction
1944			East Linton	4 1/2 m	N	Garnald	1 1/2 m	NW

Summary of Earlier Records from 10-year Sheets :

Record D, or d	1910-19	1920-30	1931-40	1941-50	1951-60
C 1907	✓	20-22, 25-28	✓	✓	✓