

RAINFALL AT *Carrickfergus, North Woodburn*

Lat.

Lon.

County of *Anttrim*

Rain Gauge, by

Observer *J. E. Reilly Esq.**Belfast Lough - 1.*

Diameter							5				
Height							1.0				
Altitude							735				
Year.....	1880	1881	1882	1883	1884	1885	1886	1887	1888	1889	MEANS.
January							5.30	2.38	3.02	3.76	
February							2.96	1.71	.76	3.26	
March							2.99	1.44	5.27	3.22	
April							2.67	2.16	1.92	4.56	
May							6.03	2.32	4.93	2.72	
June							1.53	.65	5.60	.70	
July							4.57	3.35	10.06	3.93	
August							2.34	3.27	3.95	8.55	
September....							3.82	5.54	2.13	3.51	
October							7.06	1.85	1.54	4.69	
November....							4.33	3.32	7.26	2.58	
December....							4.71	3.02	3.76	2.60	
TOTALS							48.61	31.02	50.30	44.08	

St. Nicholas, Carrickfergus 3 1/2 miles E

"Gauge on margin of Reservoir on bare pastoral mountain. The place is noted for its rapid & heavy floods."

RAINFALL AT Canistota North Woodburn

Lat. _____

Lon. _____

County of _____

Antwerp

Rain Gauge, by _____

Observer _____

G. L. Peirce Esq

F. W. McCullough Esq Ch.

Belfast Lough - 1.

Diameter	5										
Height	10										
Altitude	735 ft										
Year	1890	1891	1892	1893	1894	1895	1896	1897	1898	1899	MEANS.
January	3.85	1.79	3.42	3.64	3.91	3.63	2.06	1.86	2.40	4.63	3.119
February	2.14	.36	1.17	4.04	4.38	1.13	2.58	3.40	3.42	3.84	2.646
March	3.19	2.54	.80	1.55	2.10	5.71	3.91	5.26	1.28	2.20	2.854
April	2.21	2.87	1.27	1.75	2.50	3.09	1.35	3.29	4.04	4.64	2.701
May	2.61	3.73	4.90	1.79	5.05	.55	.98	2.11	3.70	4.84	3.026
June	4.45	2.32	5.34	2.80	4.41	2.25	4.54	7.13	3.54	3.85	4.062
July	4.16	2.53	2.98	3.32	4.86	3.60	8.60	2.93	1.28	3.47	3.772
August	3.85	7.65	7.46	5.24	3.56	4.92	2.49	6.46	5.22	1.54	4.839
September....	4.06	3.43	2.61	2.72	.31	.49	5.37	3.50	4.88	3.00	3.037
October	2.70	5.61	6.07	3.52	7.55	4.60	3.87	3.14	5.36	2.12	4.454
November....	11.33	4.94	4.56	2.94	2.52	4.28	1.74	3.40	4.38	3.60	4.269
December	4.07	5.41	2.70	4.60	3.14	4.06	6.90	5.18	3.70	6.69	4.645
TOTALS	48.62	43.18	43.28	37.91	44.29	38.31	44.39	47.66	43.20	44.42	43.526

1892 St Nicholas Church 3 1/2 miles E
Cottage 14 ft high 60 ft N

RAINFALL AT *Carrickfergus North Woodburn*

Lat.

Lon.

County of *Antim*

Rain Gauge, by

Observer *F. W. McCullough Esq. C.E.*

Belfast Lough - 1.

Diameter ..	5										
Height	1 0										
Altitude ..	735 ft										
Year	1900	1901	1902	1903	1904	1905	1906	1907	1908	1909	MEANS.
January ..	4.12	2.87	2.98	6.32	3.70	2.11	5.31	2.31	3.63	2.30	3.565
February ..	4.51	1.88	3.67	3.78	5.70	2.04	2.71	2.26	2.44	3.27	3.226
March94	2.66	3.02	5.85	2.87	3.87	2.77	4.39	4.75	4.67	3.579
April	4.16	2.92	2.80	2.45	3.27	2.77	2.90	3.37	3.99	6.24	3.487
May	4.11	1.92	5.05	4.07	4.07	2.32	7.21	5.32	2.93	2.23	3.923
June	5.43	3.99	2.74	2.85	1.98	3.18	1.35	5.07	3.86	3.47	3.392
July	4.31	1.40	4.03	5.65	3.96	1.79	4.57	3.56	4.85	4.45	3.857
August	6.49	4.65	4.21	5.55	6.71	9.96	5.46	4.46	3.38	2.93	5.380
September..	2.71	4.21	5.89	3.99	5.56	2.85	1.79	1.40	4.91	3.07	3.638
October....	5.02	4.27	2.46	9.13	1.60	2.95	7.51	5.75	3.79	6.79	4.927
November..	7.48	5.10	5.78	4.81	4.45	5.97	4.55	4.10	3.83	1.46	4.753
December..	4.27	3.92	3.70	4.95	3.16	3.28	4.68	3.96	2.79	3.75	3.846
TOTALS ..	53.55	39.79	46.33	59.40	47.03	43.09	50.81	45.95	45.15	44.63	47.573

RAINFALL at Carrickfergus North WoodburnCounty of AntrimObserver F.W. McCullough Esq. C.E.River Basin Belfast Lough

Rain Gauge, by _____

Diameter ...	5										
Height	10							3.0			
Altitude ...	735 ft										
Year ...	1910	1911	1912	1913	1914	1915	1916	1917	1918	1919	MEANS.
January ...	2.52	1.65	5.71	6.09	2.37	3.56	3.57	3.14	3.95	4.92	3.748
February ...	5.32	3.79	5.09	1.55	4.20	4.60	4.03	2.34	4.34	2.38	3.797
March	2.50	1.88	5.19	3.59	4.80	1.28	2.41	2.53	1.37	4.94	3.049
April	3.06	3.41	1.80	4.17	1.84	2.59	4.10	1.96	2.13	1.54	2.640
May	3.31	2.65	1.99	3.88	2.01	1.58	4.84	5.58	3.07	1.58	3.349
June	4.13	2.50	9.07	3.19	1.71	1.92	2.99	2.81	1.88	2.64	3.284
July	5.20	2.40	4.70	2.32	3.10	6.49	2.03	2.95	4.75	.59	3.458
August	7.33	2.37	8.40	1.10	5.23	6.16	2.32	3.92	4.62	4.11	4.756
September ..	1.78	2.00	2.11	4.68	1.49	.99	.96	1.58	5.21	1.51	2.431
October ...	2.83	4.88	4.53	4.44	2.50	3.85	4.85	5.63	3.60	2.33	4.244
November ...	5.23	5.51	3.21	4.95	5.07	2.62	4.53	3.14	4.71	2.92	4.389
December ...	5.63	7.79	5.73	3.77	7.35	7.40	2.85	3.47	5.33	7.43	5.725
TOTALS ...	48.84	40.83	57.53	44.06	42.17	43.04	45.48	43.05	44.96	38.69	41.865

1917 Dec 1st Newfange 2 3/4 inches

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

RAINFALL at Barrickfergus 17 mile woodhamCounty of AntrimObserver Geo. McCullough Esq. C.E.River Basin Belfast Lough - 1(Belfast W. W. W.)
E. F. Wheeler

Rain Gauge, by _____

(Old Gauge)

Diameter ...	5			5		5"						
Height	3' 0			3 0		3' 0"						
Altitude ...	735			737		735'						
Year	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929	1930 MEAN.	
January ...	4.99	5.66	4.17	4.63	4.32	3.52	6.01	3.21	6.09	2.31	4.01	
February ...	2.74	1.04	4.03	5.76	1.38	5.25	5.25	2.41	3.26	3.11	.49	
March	2.94	2.75	1.50	1.57	2.02	1.66	1.17	2.89	4.94	.58	2.50	
April	3.35	1.18	3.81	4.02	3.33	4.53	3.16	2.06	1.98	1.72	1.28	
May	4.33	2.67	2.04	1.94	5.33	6.89	2.60	1.68	1.47	2.98	2.03	
June	3.90	.47	2.55	1.08	3.69	.62	2.37	5.06	5.65	3.45	1.96	
July	3.53	4.59	4.38	3.77	5.74	3.92	4.46	4.53	2.27	3.09	5.76	
August	3.64	4.06	4.99	7.19	5.09	2.50	4.66	3.54	4.95	6.98	7.17	
September...	3.62	2.13	4.67	4.72	6.08	4.20	2.65	5.05	2.21	1.12	5.00	
October	6.99	4.54	2.02	4.23	2.62	4.25	4.88	4.01	7.88	4.44	6.11	
November...	4.37	5.37	2.26	2.65	3.70	1.72	5.29	5.69	6.41	5.07	4.53	
December...	6.78	4.16	3.91	8.63	5.19	4.08	1.57	2.80	3.77	8.76	4.54	
TOTALS...	57.38	38.62	40.33	50.21	48.49	43.14	44.07	42.93	50.88	43.61	45.38	

1930. Old gauge to be checked N. O. in 1931

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
1925	54° 45'	5° 52'	Barrickfergus	3 1/2 m.	N.W.			

00405

(New Gauge)

Diameter ...	1916-19	19	1920-28							5	
Height	6223		6223							10	
Altitude ...	6222 100	6222 102.9		6222 100	6222 102.9					735	
Year	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929	1930 MEANS.
January ...	1558	1600		4260	4380					2.20	4.31
February ...	1309	1340		3112	3200					3.12	.61
March	1125	1160		2144	2210					.61	2.65
April	953	980		2742	2820					1.65	1.40
May	1807	1850		2895	2970					3.23	2.18
June	1032	1060		2539	2610					3.41	2.10
July	1032	1060		3719	3820					3.41 3.38 7.38	5.89
August	1697	1740		4082	4200					1.24 7.49	7.49
September...	1126	1160		3533	3630					4.95 4.95 5.56	5.20
October	1941	2000		4144	4250					5.56	6.57
November...	1730	1780		3746	3860					5.56	4.80
December...	1908	1960		4089	4150					8.82	4.30
TOTALS...	17213	17690		41005	42100					45.58	47.50

\uparrow \uparrow
 6222 1429-30 17597 $\approx 100 : 102.9$
 6223 " 18088

Reference No. _____

Date.	Lat. N.	Long.	Railway Station.	Distance from gauge	Direction	Parish Church.	Distance from gauge	Direction
						000404		

RAINFALL at Barrickfergus (North Woodburn) old gaugeCounty of AntrimObserver C. H. Allister, G.E.River Basin 1- Belfast Lough

Type of Gauge

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

7.664992/26

Diameter	5"											
Height	3' 0"											
Altitude	737'											
Year	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940	Means	
January	4.40	3.59										
February	3.02	1.3										
March	1.43	2.15										
April	2.79	3.40										
May	4.60	2.58										
June	6.56	3.15										
July	4.15	4.12										
August	4.04	3.79										
September	2.73	4.02										
October	2.28	4.31										
November	7.85	2.04										
December	3.27	5.29										
TOTALS	47.11	38.57	#									

1931. N. P. Terminated.

Data not reqd in future incl. b.1 A on file.

1932. N.P.

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
	54°45'	5°52'W	Barrickfergus.	3 1/2 m	N.W.			

RAINFALL at Garrickfergus (North Woodburn) new gauge.County of AntrimObserver C. H. Wheeler, G.E.River Basin 1 - Belfast Lough.S. H. W. Middleton, Esq., G.E. - 1938

Type of Gauge.....

Annual Average 45.5* in. based on..... years obs. un-weighted. Period of average.....Ref. 3. 66 4992/26

Diameter	5"											
Height	1' 0"											
Altitude	735'											
Year	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940	Means	
January	4.58	3.46	2.52	3.52	2.08	6.59	5.72	5.04	5.08	4.24		Total 3. 41.23
February	3.42	1.18	3.06	1.50	5.19	3.35	7.26	1.79	4.17	3.16		32.08
March	1.56	2.25	2.54	2.41	1.50	3.17	3.32	1.40	5.25	5.08		28.48
April	3.01	3.65	2.19	5.15	3.54	1.32	2.85	1.51	3.57	5.45		31.24
May	4.79	2.67	3.41	4.13	1.05	2.50	1.64	2.67	1.18	1.99		27.03
June	5.90	3.14	3.13	2.70	4.48	5.44	3.22	4.69	3.02	1.57		37.79
July	4.38	4.23	4.23	2.95	1.80	8.67	4.81	4.37	5.95	5.69		47.07
August	4.22	4.15	2.98	6.11	1.57	4.22	4.41	2.76	2.91	1.20		34.53
September	2.61	4.44	1.44	6.13	4.78	4.66	3.17	3.62	3.19	2.73		36.72
October	2.61	4.73	4.22	6.16	7.01	3.85	3.55	7.80	3.48	6.87		50.28
November	8.21	2.67	2.28	1.64	5.77	5.12	1.61	5.11	5.84	6.84		45.09
December	3.48	6.22	2.77	8.17	4.09	5.36	5.73	4.70	4.10	5.35		49.96
TOTALS	48.77	41.79	34.71	49.57	43.31	53.24	47.29	45.46	47.74	50.17		462.11

* Used in general tables in italics. Origin unknown. F.W.

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

Station No. T.F. 6223RAINFALL at Carrickfergus (North Woodburn)

41

County of AntoniaObserver S.H.W. Middleton Esq. C.E.River Basin Belfast-Lough-1R.H. McCullough Esq. B.Sc.

Type of Gauge.....

Annual Average 45.5* in. based on years obs. un-weighted. Period of average..... Ref.....File No. 664992/26

Diameter	5"			967	847			X			
Height	1' 0"				1						
Altitude	735				41						
Year	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	Means
January	3.38	8.02	6.95	5.87	(5.32) ²	5.89	4.98	9.19	3.36	2.15	
February	3.88	2.57	2.69	1.71	5.04	3.86	.71	2.75	2.70	4.11	
March	3.76	3.55	1.10	.90	1.86	2.34	6.82	2.36	3.22	2.11	
April	2.71	2.70	3.48	3.10	2.62	1.44	5.00	2.59	3.7	4.54	
May	3.07	4.59	6.05	2.30	5.42	1.74	4.55	2.08	2.28	1.64	
June	0.54	.74	4.87	3.85	5.60	4.91	5.13	5.30	.73	2.35	
July	5.05	4.87	2.77	5.66	5.59	4.06	5.01	3.43	2.91	6.41	
August	5.83	7.13	8.46	2.56	1.61	5.86	.31	5.65	4.14	7.45	
September	2.32	6.50	4.06	6.73	11.43	7.56	3.86	5.70	3.46	7.47	
October	6.50	4.96	4.18	5.69	11.66	1.95	2.63	3.8	9.58	3.07	
November	5.12	1.06	3.08	6.01	1.92	6.74	6.43	2.81	5.10	3.39	
December	2.18	6.32	3.05	5.24	6.61	4.80	6.09	5.43	4.52	2.65	
TOTALS	43.35	53.01	50.74	49.12	50.68	51.15	48.52	51.60	45.17	47.34	
	D	D	D	D	D	D	D	D	D	D	

Totals
53.61

30.02

28.02

31.35

33.72

34.52

45.76

49.00

52.09

47.03

41.67

43.89

49.08

1945. Jan. part. est. for period 1911-38

* Used in general tables in italics. Origin unknown. (26)

1950. n.p. No low. Records had been showing increasingly too low compared with neighbouring stations.

40004

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.

Station No. T. 6223RAINFALL at Garretstown (North Woodlawn)

51

County of AntumObserver R. H. McCullough Esq., B.Sc.River Basin 1 - Belfast - LoughR. C. D. B. Esq. (B.Sc.)Type of Gauge M.O.Annual Average 45.5 in. based on omitted 1955 years obs. un-weighted. Period of average 1916-50 Ref. 26492/3" " 48.60 " " 25 " " within 1929-57 " File No. 22643/58

Diameter ...	5"											
Height ...	1'0"											10"
Altitude ...	735'											
Year ...	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	Means	
January ...	3.69	3.58	1.52	3.96	4.91	4.23	4.72	5.03	3.09	5.39		
February ...	3.47	.95	1.02	4.27	5.06	1.29	2.97	5.76	1.49	4.03		
March ...	3.70	2.06	.42	4.98	1.96	1.78	4.41	3.09	3.10	3.49		
April ...	1.49	2.74	2.88	1.25	2.88	1.63	1.48	2.77	3.32	3.90		
May ...	3.33	1.35	2.68	5.04	3.48	1.63	3.59	3.18	1.47	2.05		
June ...	2.19	3.00	2.38	4.33	5.97	3.39	1.84	6.08	2.66	2.65		
July ...	3.21	2.47	6.49	4.96	1.50	4.54	4.49	6.00	4.25	9.60		
August ...	4.63	5.84	4.18	3.62	1.38	9.10	4.61	5.14	1.55	5.99		
September ...	3.11	2.32	3.49	5.27	5.19	4.34	7.25	5.12	1.87	3.27		
October ...	0.93	5.07	2.62	7.81	4.21	2.86	4.23	2.79	4.87	7.12		
November ...	8.52	2.32	4.24	7.12	3.46	1.94	2.66	2.06	4.03	5.86		
December ...	5.05	4.28	3.91	5.34	6.39	5.24	4.98	6.65	6.61	3.55		
TOTALS ...	43.32	35.98	35.83	57.95	46.89	41.97	47.23	53.67	38.31	56.90		
	D.N.P.	3. N.P.	D	D	D	D	D	D	D	D		

1951 N.P. low

1952 N.P. consistently low.

1953. Print. Shows a marked improvement since May, but engineers cannot account for this.

Imp. II 1958/60K. by sound. Site slightly overtopped to S. Area affected and new site chosen

000744

Position of Station on Ordnance One-Inch map :

No. of Map.....

National Grid Reference IT 367904

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

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
		C 1929	✓	✓ n.p. 50.	
		✓	D 32 - 40	✓	