

RAINFALL AT Gromer, Howard's Hill

Lat.

Lon.

County of ..

Norfolk

Rain Gauge, by ..

Observer ..

The Meteor Council
W. H. Archer Esq

Stops - 3.

Diameter ..				8							
Height				10							
Altitude ..				197 I							
Year	1900	1901	1902	1903	1904	1905	1906	1907	1908	1909	MEANS.
January ..				1.40	1.76	1.00	3.03	1.01	.78	.57	1.36
February ..				.29	2.27	.99	1.77	1.30	1.27	.42	1.19
March				1.34	1.50	1.67	.95	1.29	1.77	2.04	1.51
April				1.48	.78	1.25	.51	2.68	1.97	.86	1.36
May				2.43	1.38	.86	2.31	2.69	1.25	1.02	1.71
June				1.95	.55	3.69	1.89	1.80	1.20	2.30	1.91
July				3.31	2.35	1.03	.39	.99	2.86	2.77	1.96
August				2.95	2.75	2.39	1.82	2.18	1.49	1.85	2.13
September ..				.60	2.65	1.52	1.55	.58	1.05	1.99	1.59
October				1.68	3.83	1.26	2.93	2.66	3.53	1.15	3.79
November ..				1.16	1.67	1.66	1.90	3.49	1.92	1.51	1.82
December ..				1.31	1.10	1.77	.78	2.31	2.23	.92	1.88
TOTALS ..				24.20	19.49	19.47	22.07	21.98	18.52	23.78	

1903 Gromer Church $\frac{3}{4}$ mile E
 " Beach Station $\frac{1}{2}$ " E.S.E.
 Opposite high 10 ft N.W.

N.B. Values rejected when Rainfall Survey Map
 prepared in Nov. 1926.

RAINFALL at Fromer, Howard's Hill.County of NorfolkObserver W. H. Archer Esq.River Basin Stiffkey + C 3Meteorological Office
W. H. Archer Esq. N.B.C.

Rain Gauge, by _____

Diameter ...	8										
Height	1.0										
Altitude ...	197 T										
Year ...	1910	1911	1912	1913	1914	1915	1916	1917	1918	1919	MEANS.
January	2.51	1.58	2.73	2.24	1.42	2.63	1.56	1.69	2.01	2.26	2.063
February	2.22	1.22	1.62	.50	1.22	2.14	2.57	1.14	.70	1.79	1.512
March	.65	1.49	2.49	1.81	2.52	1.67	2.14	1.49	.59	1.44	1.629
April	1.59	.86	.26	1.68	.40	.55	1.20	1.53	2.25	1.15	1.147
May	2.44	.97	.91	1.66	.97	1.18	1.88	.59	1.03	.83	1.246
June	1.12	2.44	3.14	.68	1.79	.73	1.76	.79	.51	1.04	1.400
July	4.15	.50	3.31	1.07	2.45	3.50	1.03	1.88	3.54	2.16	2.359
August	1.55	1.18	(9.47)	.63	2.03	2.10	2.51	2.80	2.01	2.27	2.655
September	.94	1.47	2.22	1.12	1.05	.97	1.22	1.54	4.18	.59	1.530
October	1.06	2.08	1.82	2.68	1.78	1.73	2.13	3.39	1.61	1.54	1.982
November	3.88	2.39	2.38	1.69	2.30	2.39	2.26	1.35	1.50	1.87	2.201
December	3.40	3.11	1.99	.44	4.47	3.45	3.00	.83	2.40	3.36	2.645
TOTALS	25.51	19.29	(32.34)	16.20	22.40	23.04	23.26	19.02	22.33	20.30	22.369

1910 ? small

N.B. Values rejected from 1928 Survey.

Date.	Lat. N.	Long.	Railway Station.	Distance.	Direction.	Church.	Distance.	Direction.
1919	52° 56'	1° 17' E						

RAINFALL at Cromer, Howards Hill.County of NorfolkObserver Urban Dobson HouseRiver Basin Staffs - 3Rain Gauge, by old gauge See next sheet.

Diameter ...	8										
Height	1.0										
Altitude ...	196										
Year	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929	MEANS.
January ...	1.46	1.49	2.79	.79	1.97	1.07	2.19	1.19	3.06	1.22	
February ...	.40	.37	1.61	2.50	1.39	1.70	1.07	1.41	1.13	.84	
March .....	.87	.53	1.34	1.55	.67	1.63	.30	1.80	1.13	.08	
April	1.92	.75	1.19	.87	1.48	1.52	1.85	1.12	1.24	.73	
May .....	.97	1.38	.68	1.00	2.92	1.67	1.49	.68	1.21	1.03	
June .....	.96	.35	.98	.43	.97	.42	3.00	3.51	2.08	.74	
July	2.18	.40	3.05	2.13	1.67	1.41	1.74	2.02	1.41	2.30	
August	1.11	2.10	1.33	1.43	2.37	2.69	1.20	2.44	1.87	1.21	
September...	1.24	.67	1.40	.93	2.30	2.66	1.18	2.78	.61	.67	
October .....	.89	1.95	.58	1.69	3.69	1.71	1.97	1.49	2.93	#	
November...	.48	1.22	.78	2.21	1.63	2.41	2.44	2.17	2.08		
December...	1.78	1.48	1.34	2.05	1.65	2.31	.86	1.68	2.38		
TOTALS...	14.24	12.69	17.07	17.58	22.72	21.20	19.29	22.29	21.13	660.258/26	

1920. Bad. not published.

1921. " " "

1922. " " "

1923. " " "

Notes: collected by Inspector 22/7/24 just over 1 furlong WSW of rail station.

1924. not printed, Cont.

1925. " " check, see new gauge.

1926. " " Cont.

1927. Gauge leaks repaired 3rd June 1927. See 349 Bells 660258/26

N.B. annual values, 1920-29, rejected from Survey, 1928.

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
	52° 56'	1° 17' E						

RAINFALL at Craze, Howards Hill new siteCounty of NorthObserver Craze V.D.C.River Basin Stiffness R. 3

Rain Gauge, by

Diameter	.....									5'	5'	8"	8"
Height	.....									1'			
Altitude	.....									178'			
Year	.....	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929	1930	
January	.....										1.36	1.48	
February	.....										.88	1.02	
March	.....										.08	1.26	
April	.....										.99	1.70	
May	.....										1.09	2.30	
June	.....										.56	.68	
July	.....										2.43	4.13	
August	.....	19									1.93	1.99	2.20
September	.....										.66	.81	5.24
October	.....										3.04	3.26	1.59
November	.....										2.54	2.32	3.74
December	.....										2.68	4.29	1.82
TOTALS	.....										unp.	20.66	27.16
												20.66	D

Approved as official gauge as from 1/9/29 see G.F.

1929. S. gauge until 31/8/29 when 8" gauge from Howards Hill old site was transferred - 2, 5" gauges which were on loan (1 at Cesswicks one at Howards Hill returned to M.O.)

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 Groner, ^{Essex Works} ~~Howard's Hill~~County of Norfolk Observer Groner U.D.C.River Basin Stiffkeys & C. S.

Rain Gauge, by _____

NEW GAUGE.

Diameter ...						5"					
Height						1.0					
Altitude ...											
Year	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929	1930 1930
January ...						1.33	2.78	1.56	3.54	1.43	1.48
February ...						2.07	1.37	1.79	1.52	.83	1.02
March						1.89	.40	2.26	1.10	.07	1.26
April						1.70	2.41	1.46	1.41	.88	1.70
May						1.89	1.74	.82	1.25	1.08	2.30
June .....						.60	3.41	4.38	2.20	.81	.68
July						1.54	2.13	2.67	1.44	2.42	4.13
August						2.96	1.42	2.89	1.90	1.31	2.20
September...					<i>imp</i>	3.14	1.35	3.56	.63	.81	5.24
October					<i>4.02</i>	2.13	2.48	2.09	3.10	3.26	1.59
November...					<i>1.87</i>	3.18	3.22	3.83	2.54	3.01	3.74
December...	<i>see previous page</i>				<i>2.35</i>	3.09	1.06	2.26	2.67	4.28	1.82
TOTALS...					<i>imp</i>	25.52	23.77	29.57	23.30	27.49	27.76

To reason for setting up this gauge see files 475053/24
~~Approved as official gauge as from~~ 660254/26 end 1929
 Hatt
 Discontinued on 30/9/29 see Howard's Hill (new gauge)

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	Parish Church.	Distance from gauge	Direction

RAINFALL at Cromer (Gas Works) (Howards Hill) M.W.R.County of NorfolkObserver Cromer V.D.C.River Basin Stiffkeys & C. - 3.black to the W.D.B.

Type of Gauge.....

Annual Average 23.3 in. based on..... years obs. un-weighted. Period of average..... Ref. Av. Work Sheet

Diameter	8.					8"						
Height	1.0.					1' 0"						
Altitude	78					178'						
Year	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940	Means	
January	2.37	1.04	.65	1.39	2.19	2.30	2.12	2.43	4.20	1.48	21.17	
February	2.69	.57	2.19	.78	1.89	2.69	2.14	.54	.62	1.33	16.44	
March	.63	2.14	2.13	1.31	.52	.36	2.65	.41	1.74	2.31	14.20	
April	2.94	2.18	.65	2.49	2.65	.85	2.64	.55	1.99	1.28	18.22	
May	4.34	3.16	2.11	2.64	.78	1.43	1.97	2.09	.80	1.92	21.24	
June	1.76	.28	2.15	1.03	2.45	2.69	1.39	1.15	1.47	.39	14.76	
July	2.80	4.68	2.57	.78	.96	4.64	2.72	1.55	1.74	2.88	25.32	
August	3.99	1.30	.72	1.66	1.83	1.26	.96	1.64	2.13	1.19	16.68	
September	2.20	2.13	1.86	1.65	5.23	2.66	2.19	2.56	.90	1.31	22.69	
October	1.16	4.41	2.84	1.85	2.27	2.38	1.58	2.54	5.14	2.22	26.39	
November	1.58	1.69	1.94	1.80	3.44	2.59	2.69	1.63	4.00	5.17	26.53	
December	1.69	.62	.63	2.91	1.78	1.38	3.74	3.63	1.96	2.36	20.70	
TOTALS	28.15	24.20	20.44	20.29	25.99	25.23	27.79	20.72	26.69	23.84	243.34	
	D	D	D	D	D	D	D	D	D	D		

Height above sea level amended see encl 9A of file 60130.

1935. Inspected 30/8. Gauge surrounded by fence of wooden paling's 3'6" high and 5ft from gauge.

1926. Inspected 29.9.36. No change.

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

Station No. 1447

RAINFALL at Gromer (Howards Hill)

(MWR) 51

County of NorfolkObserver Clerk to the V.D.C.River Basin Stiffkeys 06-3Type of Gauge H.O. ordered 5/48

MKD on Insp. 1955

Annual Average 23.8 in. based on 23 years obs. un-weighted. Period of average 1916-1950 Ref. N. W. P. 195024.9 " " 28 " " 1929-1956

File No.

Diameter ...	8"										
Height ...	1' 0"										
Altitude ...	178										
Year ...	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	Means
January ...	2.86	2.49	1.67	2.35	2.07	3.03	1.85	2.18	3.86	4.20	2656
February ...	2.18	1.04	1.64	2.06	3.05	3.23	2.21	3.75	.21	2.32	2169
March ...	3.33	2.40	.96	2.30	1.76	.75	1.94	1.34	.78	1.26	1682
April ...	3.25	1.57	2.27	.56	.76	.88	.57	1.49	1.96	.70	1401
May ...	2.28	1.16	1.34	1.47	2.79	.54	1.11	3.06	.60	.42	1477
June ...	1.64	.68	2.61	2.36	1.45	2.24	2.07	2.06	.76	.82	1669
July ...	1.72	1.00	2.46	2.62	.31	3.23	2.37	4.85	3.24	3.23	2503
August ...	3.53	1.97	2.57	4.47	.26	3.50	2.91	2.19	4.01	3.02	2837
September ...	2.10	2.85	1.27	2.47	1.52	1.19	3.58	2.15	.09	4.06	2128
October ...	1.04	2.27	2.51	2.60	3.55	3.27	1.51	2.16	1.97	3.65	2453
November ...	3.11	4.07	1.49	3.87	.80	1.30	1.58	.66	2.23	4.34	2345
December ...	1.38	2.82	1.19	2.69	1.82	1.46	2.56	3.09	3.62	3.77	2440
TOTALS ...	28.42	24.32	21.92	29.82	20.14	24.62	24.26	28.98	23.33	31.79	25760
	D	D	D	D	D	D	D	D	D	D	

Imp. 30.7.52. N. Hops. Areas with previous inspection that this is overpacked & results cannot be representative of Gromer
 Station in Howards Hill & at the Mod. School recommended approval.

Inspected 16.6.55 Mr. W. Andrews. Gauges and measures verified, site of gauges as before.

" 15.7.57 Mr. B. W. Johnston - Possible alternative site "The Meadows" approved. Move recommended.
 (173 ft ± 14995/52)

Position of Station on Ordnance One-Inch map :

No. of Map

National Grid Reference 63/208422

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- accepted

	1910-19	1920-30	1931-40	1941-50	1951-60
Record D, or d	✓	✓ N.P. 20-26	✓	✓	
	- but 19	✓ but 27-29	✓	✓	

RAINFALL at Cramer (H. Aranda Hill) Station No. 1447 M.W.R. **41**
 County of Norfolk Observer C. R. H. to the U.D.C.
 River Basin Stifford & C-3
 Type of Gauge M.O. gauge no. 1248

Annual Average 23.8 in. based on years obs. un-weighted. Period of average 1881-1915 Ref. A.V. Wash. Stn.

File No.

Diameter	8"			203	876						
Height	1' 0"				1						
Altitude	478'				41						
Year	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	Means
January	1.40	2.57	3.37	2.04	2.74	1.39	1.52	2.94	1.25	1.03	2025
February	2.13	1.13	.66	1.65	1.39	3.12	3.45	.56	.74	3.05	1788
March	2.83	1.07	.41	.70	1.68	.70	3.62	.49	.77	.24	1251
April	.78	.48	.70	1.47	2.41	.96	1.63	.76	2.55	2.01	1365
May	1.87	2.76	1.93	1.85	1.97	1.15	.91	3.96	2.09	1.87	2036
June	.78	1.28	1.56	1.81	1.52	2.13	.91	1.98	.60	1.94	1451
July	2.91	3.30	.85	1.35	1.17	4.54	1.26	1.22	.85	6.61	2406
August	3.54	.86	1.53	1.22	2.96	4.50	.34	2.34	1.45	2.43	2117
September	.42	1.83	2.00	4.62	1.11	2.78	.90	1.36	1.97	2.78	1977
October	2.98	3.30	1.44	3.07	1.81	2.24	.23	2.60	3.21	.92	2180
November	2.14	2.85	2.43	5.03	.72	3.64	1.36	.72	2.51	4.44	2584
December	.93	1.99	.96	1.06	1.93	2.73	1.80	1.47	1.56	3.47	1790
TOTALS	22.71	23.42	17.84	25.87	21.41	29.88	17.83	30.40	19.53	30.79	22970

VII.43 Observed that all broken & broken for several years only, had been cleared.
 Inspected 27/10/49 New 5" g. gauge & taper measure installed 14.9.48. in separate enclosure, used
 by E.A. Corps. 3 screen enclosure, but has exposed. Satisfactory
 4/10/49. Insp. R. B. A. Corp. G. gauge good condition satisfactory exposed.
 23/5/50. Insp. M. E. A. Corp. 8" gauge satisfactory, gauge overexposed to the sun.
 25/6/50. Dr. Glasspool M.E. 8" gauge overexposed to W. Broken should be kept out for
 radius of 6 ft. 1950 rain gauge site to be closed of underground new mill to
 be recommended in 1951.
 Inspected 16.6.50 M.E. A. Corp. 8" gauge

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

BRITISH RAINFALL ORGANIZATION