

RAINFALL AT Arbroath, Minthead Res?Lat. _____ Lon. _____ County of FifeRain Gauge, by CassellaObserver P. C. Smith Esq. C.E.Weekly S. No. - 3.

Diameter ...									5		
Height									10		
Altitude ...								251			
Year ...	1900	1901	1902	1903	1904	1905	1906	1907	1908	1909	MEANS.
January ...									1.76	1.48	
February ...									.84	.38	
March									3.51	3.26	
April .....									.57	3.02	
May									1.89	2.88	
June									1.21	1.25	
July									2.38	2.60	
August									1.93	2.23	
September ..								# .73	5.63	.59	
October ...								4.87	2.35	3.69	
November ..								1.54	2.43	.33	
December...								3.63	1.54	2.31	
TOTALS ...									25.54	24.02	

4 D. Aug. D.

3 miles from Arbroath
 g. on top of Reservoir bank (OT)
 1909 Colliston Church 1,000 yards N W
 " Station 2,000 " N E

RAINFALL at Arbroath, Muirheads ReservoirCounty of ForfarObserver P. C. Smith Esq. B.E.River Basin South Esk Hb. 3.J. L. Brown Esq. B.E.Rain Gauge, by Casella

Weekly

Diameter ...	5										
Height	10										
Altitude ...	251T										
Year ...	1910	1911	1912	1913	1914	1915	1916	1917	1918	1919	SUMS MEANS 1910-1919
January ...	2.15	.80	2.89	2.90	1.23	2.38	2.95	1.63	1.89	2.90	9.37
February ...	1.57	1.19	2.55	.65	2.47	4.19	2.27	1.14	2.37	2.48	8.26
March	1.09	.81	2.12	3.46	3.61	1.41	2.70	1.37	1.31	1.64	7.02
April	2.44	1.28	.01	2.98	.70	.51	2.20	1.23	.52	1.18	5.83
May	1.79	1.52	1.54	2.92	1.59	1.07	2.97	1.77	3.60	.09	9.31
June .....	.41	.62	2.06	1.96	.69	.93	3.45	1.20	.66	1.16	6.47
July	2.55	1.44	2.69	.50	2.09	2.72	6.37	1.65	4.55	.65	13.22
August	7.36	.73	3.87	1.67	2.69	2.47	1.73	4.70	2.36	1.91	10.70
September ..	.80	.87	2.81	2.31	.50	1.27	1.35	2.32	3.42	1.12	8.21
October ...	1.96	2.34	4.32	1.92	3.11	3.11	4.13	2.89	2.15	2.04	11.21
November ..	2.87	3.06	1.64	1.74	3.16	.97	3.72	2.70	1.62	4.17	12.21
December ...	2.49	4.94	2.13	.88	4.36	6.62	4.22	2.03	1.82	5.12	13.19
TOTALS ...	27.48	19.60	23.63	23.89	26.20 int.D	27.65 ext.D	38.06	24.63	26.27 ext.D	36.04	115.00

1910 Taken at 12 noon - not read on 1st. of month.
 1911 corrected to
 1913 Rain gauge 20 ft high 20 ft N.W.
 1914 Gauge 15 ft high 15 ft N.

Date.	Lat. N.	Long. W.	Railway Station.	Distance.	Direction.	Church.	Distance.	Direction.
1911.	56.33	2.35	Colliston	2000 yds.	NE.	Colliston	1000 yds.	NW.

RAINFALL at Arbroath, Muirheads ReservoirCounty of FifeObserver J. L. Brown Esq. C.E.River Basin South Esk & C. 3D. H. Shaw Esq. (1921)H.O. Pattern Rain Gauge, by Cassella
(125)Y. A. Hogg (1924)Boro' Eng. Arbroath.

Diameter ...	5		5									
Height	10		10									
Altitude ...	251	253	251	251								
Year	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929	1930. Mean.	5015
January ...	2.55	2.99	3.02	2.20	2.26	1.82	3.73	1.88	5.24	1.36	1.33	28.38
February ...	2.07	.61	2.31	4.37	1.12	3.16	5.98	1.98	1.18	1.76	1.31	25.85
March	1.95	2.41	1.75	1.72	.83	1.70	1.14	2.60	4.26	.60	1.49	20.45
April	2.38	1.25	2.12	1.61	1.81	3.37	1.95	.94	1.06	1.33	2.70	20.52
May	3.39	2.46	1.14	1.09	3.73	3.67	2.17	2.51	1.44	2.92	1.42	25.94
June .....	.98	1.21	1.34	.62	1.64	.77	3.09	2.57	4.14	1.49	1.88	19.73
July	2.90	1.00	3.98	1.22	4.44	2.03	2.27	.88	1.64	3.32	2.34	26.02
August	3.37	3.51	2.11	4.54	2.39	2.56	2.99	4.03	4.16	4.68	3.36	37.70
September...	1.60	1.46	.82	3.52	3.92	3.97	3.62	6.61	3.02	.64	8.78	37.96
October	2.84	1.71	4.65	2.48	4.37	2.65	5.43	6.10	4.04	3.01	3.54	40.82
November...	2.72	2.58	1.16	6.32	2.23	.96	5.29	1.84	3.17	3.90	3.44	29.61
December...	4.12	.78	1.04	2.79	3.35	1.25	.27	2.64	2.97	4.55	2.82	26.58
TOTALS...	30.87	21.97	25.44	28.48	32.09	27.91	37.93	34.58	36.32	29.56	34.41	339.56

1921. farm 25 ft. high 30 yds E.
Plantation 15 ft. 30 yds S.

1922. corrected for snow

1929. adjusted for date of reading.

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

Map, 2 miles to 1 inch Series

Reference No.

Date.	Lat. N.	Long. W.	Railway Station.	Distance from gauge	Direction from gauge	Parish Church.	Distance from gauge	Direction from gauge
1920	56° 33'	2° 35'	Colliston	1 1/2 mi	N.E.	Colliston	3/4 mi	N.W.
1921			Arbroath	3	SE			

RAINFALL at Arbroath (Muirhead Reservoir.)County of Angus (Forfar)Observer J.A. Hogg, Esq.River Basin 3. South Esk & C.W.A. Turner, Esq., C.E.Type of Gauge M.O.Annual Average 28.1 in. based on 20 years obs. un-weighted. Period of average 1881-1915 Ref. S

Diameter	5.										
Height	1.0.										
Altitude	251.										
Year	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940	Sums Means.
January	3.48	2.22	1.71	2.25	1.07	4.95	3.95	3.52	3.17	2.62	28.94
February	1.32	.17	3.01	.03	1.92	3.09	3.64	1.23	2.90	2.47	19.82
March	1.48 (2.48)	1.86	2.57	1.81	2.61	3.10	.44	2.10	(2.81)	2.36	21.36
April	2.21 (2.42)	.79	5.29	3.84	.60	1.85	.22	.71	1.31	1.24	19.24
May	4.08	3.04	1.02	2.42	.90	1.23	1.85	3.75	1.68	1.16	21.05
June	4.29	1.30	1.90	.57	3.80	.41	2.20	3.79	.90	(.21)	19.37
July	4.29	5.40	2.16	3.11	1.25	4.13	3.73	4.50	6.20	5.16	39.93
August	4.07	.62	.83	2.26	.92	.68	2.12	1.53	1.68	.74	15.45
September	1.35	1.99	2.05	2.87	5.49	4.03	2.94	2.37	1.62	2.57	27.33
October	.87	7.06	3.38	4.75	4.36	.64	2.40	3.50	3.57	4.12	34.65
November	6.39	.71	2.30	1.04	4.85	2.03	1.87	3.94	3.25	4.32	30.70
December	1.15	3.18	1.92	5.02	2.13	1.11	3.12	3.87	1.88	1.32	24.73
TOTALS	34.93	30.59	22.93	32.33	32.34	25.51	32.82	32.66	29.66	(28.81)	302.58

1932. March & April adjusted for accumulation.

1940. ? low. March. June part estd.

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.			Golliston	2m	N.	Golliston	3m	W.

RAINFALL at Arbroath (Muirheads Res.) Station No. 5599

41

County of Aber (Forfar) Observer W. A. Turner, Esq. C.E.River Basin 3 - South Esk & C. C. R. Thompson Esq.Type of Gauge M Burgk EngineersAnnual Average 28.1 in. based on 20 years obs. un-weighted. Period of average 1881-1915 Ref. S.

File No.

Diameter	5"				857	788					
Height	1'0"					1					
Altitude	251'					41					
Year	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	Means
January	(2.37)	3.73	4.02	1.26	3.12	1.74	3.46	2.84	1.03	1.16	24.73
February	(4.24)	3.17	0.83	.75	2.09	1.07	2.30	2.45	1.19	1.85	19.94
March	(1.93)	1.43	0.56	.87	.82	2.02	2.56	.84	1.42	2.67	14.62
April	(1.96)	1.75	1.48	2.89	1.23	.32	2.27	.92	2.13	1.48	16.43
May	1.90	3.22	3.29	1.87	4.91	1.86	4.41	3.67	1.50	1.52	28.15
June	1.34	0.96	1.54	2.79	2.59	3.97	2.36	2.93	1.27	1.07	20.82
July	2.86	2.67	2.71	(2.65)	2.63	4.13	1.31	2.27	1.83	2.89	25.95
August	3.29	2.67	4.80	2.04	3.69	3.43	.15	7.24	2.58	3.14	33.03
September	0.55	2.57	2.46	2.44	3.29	3.80	1.83	2.21	1.53	5.28	25.96
October	4.19	2.20	2.64	3.86	4.65	.64	1.55	3.28	3.27	1.58	27.86
November	3.97	0.48	1.11	3.36	1.19	6.68	1.96	1.17	4.52	2.99	27.43
December	1.11	2.45	1.09	(2.85)	4.12	3.33	1.66	3.30	1.98	1.10	22.99
TOTALS	(29.71)	27.30	26.53	(27.13)	34.33	32.99	25.82	33.12	24.25	26.73	287.91

1941. Trees 20' high 30' E. 1941 up. figures for Jan-April copied from 5598.

1944/45. May, June, July & December adj. by ref. to 5598.

16/11/46. Position changed to nearly site at the same level clear of all obstructions following correspondence in Aug 1945

1950 July 17th reading lost. and recorded at Springfield Park substituted.

72004

00414

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			Colliston	2m	N	Colliston	3/4m	W

BRITISH RAINFALL ORGANIZATION

RAINFALL at Arbroath (Muirheads Res.) Station No. 5599
 County of Angus (Forfar) Observer Burgh Engineer
 River Basin South Esk 16-3
 Type of Gauge M.O.

51

Annual Average 28.1 in. based on 30 years obs. un-weighted. Period of average 1881-1915 Ref. S
29.86 - - - 35 - - - 1916-1950 1916-1950 P
 File No. 1916-1950

Diameter ...	5 ¹ / ₂ "				857	788					
Height ...	1' 10"					1					
Altitude ...	251'					51					
Year ...	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	Means
January ...	4.50	1.17	0.47	1.12	1.13	2.85	3.31	2.45	1.11	3.66	
February ...	2.14	0.41	.68	2.08	1.53	1.09	3.58	2.06	0.05	1.71	
March ...	2.18	3.30	.19	1.97	1.36	.86	1.66	4.26	0.95	2.06	
April ...	2.35	1.02	2.37	.46	.55	.95	1.55	1.21	2.46	1.86	
May ...	1.57	2.08	2.62	2.87	1.82	.62	1.51	2.58	1.02	1.05	
June ...	2.01	2.15	1.41	2.32	.63	2.93	.37	1.37	2.52	1.73	
July ...	3.79	1.56	4.44	1.64	.90	4.04	4.57	5.09	2.25	1.61	
August ...	3.95	2.48	2.19	3.04	.17	4.65	4.13	3.19	0.59	3.51	
September ...	1.76	1.01	2.61	2.32	1.18	4.77	1.77	2.58	0.42	1.96	
October ...	0.62	2.17	1.37	4.55	1.80	1.54	1.41	1.96	2.38	5.64	
November ...	7.52	1.70	2.23	5.27	2.38	.67	1.24	.82	3.86	3.20	
December ...	1.69	1.06	3.31	2.54	4.80	2.65	3.72	4.08	5.21	1.32	
TOTALS ...	34.08 W	20.11 W	23.89 W	30.18 W	18.25 W	27.65 W	28.82 W	31.65 W	22.82 W	29.37 A.P.	

1960 A.P. on map left.

Position of Station on Ordnance One-Inch map: No. of Map..... National Grid Reference No. (37) 607443

Date.	Lat. N.	Long.	Railway Station.	Distance from gauge	Direction from gauge	Parish Church.	Distance from gauge.
1951			Colliston	2nd	N.	Colliston	2nd W

Summary of Earlier Records from 10-year Sheets:

1916-1950, P-accepted

Record D, or d	1910-19	1920-30	1931-40	1941-50	1951-60
	1910-19	✓ W24-26	✓ W24-26	✓ W24-26	✓ W24-26