

RAINFALL AT *Portland Bill Lighthouse*

Lat. Lon. County of *Dorset*
 Rain Gauge, by Observer *The Meteor Council*
Dorset Field Club H. Eaton

Form - 3.

Diameter ..	...		8								
Height ....	...		10								
Altitude ..	...						183	23			
Year	1900	1901	1902	1903	1904	1905	1906	1907	1908	1909	MEAN.
January ..	4.22	1.30	.98	2.34	3.97	1.02	4.91	1.36	.70	.73	2.153
February ..	4.30	1.03	1.41	1.72	4.00	.53	3.29	.94	1.26	.27	1.875
March	1.03	3.00	2.05	2.63	1.23	4.70	1.29	.31	2.23	3.49	2.196
April .....	.94	2.63	2.05	2.90	.96	1.41	1.02	2.95	1.66	1.38	1.790
May	1.21	1.07	2.22	1.99	2.25	.32	2.36	1.71	1.36	1.55	1.604
June	2.67	.78	2.29	1.80	.85	2.05	1.66	1.22	.36	3.32	1.700
July .....	.63	1.51	1.24	2.17	2.89	.60	.75	1.11	1.01	1.60	1.351
August	1.46	2.00	3.37	3.37	4.01	2.11	.30	.76	1.37	2.07	2.082
September ..	.78	3.45	2.92	2.73	1.39	2.31	.43	.71	1.97	2.14	1.883
October	1.70	3.17	2.23	6.67	2.60	1.98	3.30	9.79	4.38	5.00	4.082
November ..	3.01	.37	3.15	.96	1.12	4.07	2.81	2.49	.95	.85	1.978
December ..	4.76	3.40	1.53	2.27	2.77	.52	1.27	3.24	2.76	4.58	2.710
TOTALS ..	26.71	23.71	25.44	31.55	28.04	21.62	23.39	26.59	20.01	26.98	25.404

1906. Note Mr P.C. Waite reports that this gauge is placed immediately under the Lighthouse on leeward side and very badly exposed. Observer when asked declined to move it.

1906, later, moved to New Lighthouse, but still sheltered.

R.S. Henshaw 16. XI. 07

RAINFALL at Portland Bill New LighthouseCounty of DorsetshireObserver Meteorological OfficeRiver Basin Frome & C 3

Rain Gauge, by _____

Diameter ...	8											
Height	10											
Altitude ...	23			37	19							
Year ...	1910	1911	1912	1913	1914	1915	1916	1917	1918	1919	MEANS.	Sum
January ...	2.69	.70	3.57	3.95	.89	3.66	1.02	.91	2.71	5.44		6.79
February ...	3.16	1.17	1.21	1.20	3.40	4.29	4.02	1.03	1.03	3.39		10.58
March .....	.64	2.20	3.12	2.59	5.33	.87	2.60	2.41	1.03	3.65		9.69
April .....	.97	1.10	.01	2.07	1.05	1.34	.39	1.10	1.42	1.42		4.33
May	1.55	1.01	1.36	1.46	1.20	2.25	1.14	1.89	1.26	.63		4.92
June	1.50	1.30	2.47	.25	.28	.83	.79	1.53	.47	.52		3.31
July	2.75	.10	1.58	.39	3.57	2.95	.57	1.61	2.67	1.57		6.42
August	1.65	1.06	4.15	2.31	3.08	.83	4.72	3.62	1.34	2.38		12.06
September ..	.20	.76	1.90	2.38	1.58	1.30	2.10	1.35	4.68	.98		9.11
October ...	4.06	2.79	4.00	2.87	2.01	3.50	4.11	3.85	1.34	1.25		10.55
November ..	3.57	2.73	1.59	2.58	4.80	1.76	3.65	1.14	1.85	2.82		2.46
December ...	3.24	4.21	4.07	2.16	6.66	8.55	4.13	1.10	2.64	4.38		12.25
TOTALS ...	25.98	19.13	29.03	24.21	33.95	32.13	29.24	21.54	22.44	28.43	26.608	

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

RAINFALL at Portland Bill, (New Light House) (old gauge)County of DorsetshireObserver Meteorological OfficeRiver Basin 3. From H.C.Light House1922-99 Liberty

Rain Gauge, by _____

Diameter ...	8					4							
Height	1.0					1.0							
Altitude ...	19					32							
Year	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929	1930 MEANS		
January ...	4.16	3.41	2.95	1.28	3.95	4.46	3.49	1.87	3.02	1.25	3.28	30.13	16.19
February ...	4.13	3.1	2.04	4.55	1.02	4.05	1.74	2.28	2.29	1.61	1.75	21.07	
March	2.18	1.01	2.00	1.57	1.31	.38	.30	2.00	2.22	.09	1.05	14.05	
April	2.56	.74	2.53	2.65	2.06	2.24	3.17	1.47	1.48	.75	1.87	21.51	
May	1.39	2.01	.54	1.33	2.95	2.97	1.26	.44	1.44	1.75	1.81	17.89	
June	2.24	.29	.75	.49	1.38	.51	1.97	1.29	1.52	1.36	.31	11.81	
July	3.19	.20	2.97	.58	2.56	2.89	.94	2.57	1.52	.99	1.26	19.71	
August	1.09	1.56	1.94	1.24	1.54	1.94	.78	2.63	2.29	1.29	2.82	19.18	
September...	1.51	.55	1.59	2.15	2.93	3.14	.65	5.14	1.74	.34	2.81	22.35	
October	1.48	.67	1.06	5.06	5.26	3.94	2.75	1.55	5.14	3.39	1.96	32.26	
November...	1.11	1.50	1.94	1.80	3.82	2.57	8.08	2.42	3.17	6.68	4.37	37.46	
December...	3.25	1.22	3.93	3.04	5.15	3.44	.38	2.89	2.95	6.35	3.31	35.70	
TOTALS	24.59	13.47	24.24	25.68	33.93	32.53	25.55	26.55	28.78	25.85	25.60		
	0	0	0	0	0	0	0	0	0	0	0		

P.T.O.

Standard gauge 50 yds N.E of Light House ^{which is} 136 ft High.
 A chemut Jera 3'6" high 30 ft diameter was in use around
 the gauge from 1/2/25 until 13/3/26 when it was removed

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
1920.	50°32'	2°25'W						

RAINFALL at Portland Bill NEW GAUGE.County of Dorsetshire Observer Meteorological OfficeRiver Basin Frome & C 3

Rain Gauge, by _____

Diameter ...							6				
Height							1.0				
Altitude ...							32				
Year	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929	1930 MEANS.
January ...								1.88	3.21	1.31	3.30
February ...								2.36	2.30	1.64	.78
March								2.07	2.33	.07	1.08
April								1.48	1.59	.81	1.85
May .....								.42	1.46	1.91	1.78
June								1.36	1.61	1.48	.31
July								2.48	1.52	1.00	1.31
August								2.63	2.39	1.30	2.74
September...								5.24	1.94	.35	3.02
October								1.67	5.39	3.22	2.23
November...								2.53	3.43	6.67	4.61
December...	For old Gauge records see previous sheet							2.96	3.13	6.44	3.67
TOTALS...								27.03	30.30	26.20	26.63
								50		D.	20

1927. not printed, check gauge
1929

This gauge was erected on 9/9/26 30 yds W of Lighthouse.

A Chestnut Pole 3'6" high 30 yds diameter, was erected end of October 1926.

A turf bank about 7 in high was also erected around the gauge.
at a distance of about 4 feet in May 1928. When inspected March 1929
the rim of gauge was found to be 3-4 ins above level of top of turf wall

1930. Inspected 16/1/30 Turf wall raised

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

RAINFALL at Portland Bill (Lighthouse) (Old G.)County of DorsetshireObserver The Meteorological OfficeRiver Basin Frome R.C. - 3

Type of Gauge

Annual Average 25.2 in. based on 22 years obs. ~~un~~-weighted. Period of average 1881/1905 Ref. Bogn

Diameter	8.										
Height	1.0.										
Altitude	32										
Year	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940	Means
January	1.48										
February	1.28										
March	.99										
April	1.38										
May	2.42										
June	2.51										
July	2.63										
August	2.41										
September	.										
October	.										
November	.										
December	.										
TOTALS	imp.										

15.10

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, EXHIBITION ROAD, LONDON, S.W.7.

RAINFALL at Portland Bill (Lighthouse)

M.W.R.

County of DorsetshireObserver The Meteorological OfficeRiver Basin Frome & C - 3

Type of Gauge

Annual Average 25.2 in. based on 32 years obs. ~~un~~-weighted. Period of average 1881 | 1915 Ref. B&N

Diameter	8.										
Height	1.0.										
Altitude	32.										
Year	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940	Means
January	2.03	2.06	2.02	2.55	.76	4.65	4.90	3.63	4.98	3.11	30.69
February	1.74	.08	3.78	.05	2.90	3.13	4.75	.79	1.66	4.26	23.14
March	1.16	1.94	3.27	2.74	1.16	3.35	3.88	.31	.93	2.96	21.72
April	1.57	1.45	.96	1.82	3.09	1.52	1.67	.00	1.38	1.48	14.94
May	2.61	2.68	1.91	.68	1.72	.46	2.94	1.39	.96	1.06	16.41
June	2.66	1.92	1.35	1.12	3.37	2.16	.44	.65	2.18	.25	15.07
July	2.63	1.65	2.00	.09	.33	3.49	4.10	1.76	3.14	1.96	21.18
August	2.72	.70	.58	2.23	2.89	.16	3.32	1.97	1.96	-	16.83
September	1.30	2.89	3.54	2.49	2.84	1.91	2.34	1.22	.81	1.37	20.76
October	.54	5.93	1.40	1.27	4.72	1.40	3.34	2.75	5.33	3.70	30.38
November	4.04	2.03	.77	1.91	7.21	3.49	2.22	4.77	4.70	6.93	38.07
December	.90	1.41	.99	7.80	4.07	2.69	2.94	2.22	1.81	1.90	26.73
TOTALS	23.90	24.79	21.57	24.78	35.06	28.41	36.96	21.46	29.81	28.98	275.59

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

RAINFALL at Portland Bill (Lighthouse) Station No. 1650 M.W.R.+A 41
 County of Dorset Observer Lightkeeper (M.O.)
 River Basin Frazer + C. - 3
 Type of Gauge Standard (+ A)

Annual Average 25.2 in. based on 22 years obs. un-weighted. Period of average 1881-1915 Ref. R.O.N.

File No. 2.1.16.16

Diameter	8"				36	712					
Height	1'0"					3					
Altitude	32'					41					
Year	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	Means
January	3.75	3.31	4.56	2.02	2.13	2.49	2.61	4.99	.77		
February	3.03	.12	.81	.37	2.12	2.36	2.01	.88	.94		
March	3.00	2.01	.71	.08	.80	1.29	6.65	.97	1.27		
April	1.54	.90	.63	1.38	.62	2.27	1.76	1.36	(200)		
May	2.46	3.48	1.71	.15	1.76	3.41	2.03	1.88		1.45	
June	2.52	1.48	1.17	1.23	2.41	2.47	2.06	1.52		1.46	
July	.79	1.28	1.97	2.21	1.17	.80	1.14	.85			
August	2.44	3.66	1.54	1.98	1.68	3.62	1.19	2.70			
September	1.22	2.04	2.31	1.65	2.62	2.91	1.04	2.21		3.45	
October	1.12	2.93	2.83	3.00	2.09	1.31	1.52	1.84		.98	
November	1.78	1.52	2.30	5.20	.55	3.77	1.64	1.76		5.49	
December	2.03	3.39	2.84	1.56	4.10	3.08	2.72	3.63		2.34	
TOTALS	25.68	25.12	23.38	20.83	22.05	29.78	26.37	24.59	11.10	11.10	197.80
	D	d	d	d	d	D	D	D	np inc	np inc	

1946 Aug. suspected. Drives T.S. recorder installed recently alongside Standard gauge which
 kept well under 7 inches. S. likely to be affected.

1949 Replaced 28.648 11" Hg. Inf. well worn. Autographic gauge only 10 in. from chest. Outlets case
 of 8 in. gauge lost 2 gauges.

Inspected Mr. G.A. West 27.7.49. New rain gauge 435 awaiting installation. Gauges
 (20ft. wide) site near to disused quarry. Not entirely satisfactory but can left for present. (Diagram in G.F.)
 1949 N.P. incomplete.
 1950. Inf. well erected round gauge May 00.

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

RAINFALL at S. Portland Bill Lighthouse Station No. 1550 (MWR) 125 51County of DorsetObserver Lightkeeper, for M.O.River Basin Frame 4 C-3Type of Gauge Snowdon (T.A.)
No. 15552/52Annual Average 25.2 in. based on 22 years obs. unweighted. Period of average 1881-1915 Ref. B. of N.
26.59 " " 26 " " 1927-1943, 1953-1956 1916-1950 P

File No.

Diameter ...	8"			8"	3.50	772		5"		5"	
Height ...	1' 0"					3		1' 0"		1' 0"	
Altitude ...	32'					51		35'		35'	
Year ...	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	Means
January ...	3.38		.70	1.43	3.21	4.59	2.72	2.99	3.98	3.14	
February ...	6.11		1.49	2.43	2.27	.09	4.21	2.62	.33	2.55	
March ...	3.48		.40	3.53	1.44	.67	2.22	1.11	2.83	1.67	
April ...	2.15		1.92	.10	.74	1.55	.51	.40	1.77	2.15	
May ...	2.58	2.19	2.79	1.29	2.74	.93	1.43	1.45	.60	1.59	
June ...		.95	1.33	2.39	2.48	1.72	.97	2.33	.57	1.67	
July ...		.86	2.66	2.70	5.00	1.90	3.44	2.18	1.26	2.41	
August ...	3.21	1.83	1.25	2.41	1.20	2.67	1.93	1.89	1.13	4.39	
September ...	2.36	5.35	2.18	2.30	1.15	4.28	2.75	4.26	.02	4.35	
October ...	.35	3.86	3.36	2.02	6.09	2.08	2.63	2.62	2.82	8.39	
November ...		3.69	1.52	4.60	2.26	.75	2.03	2.89	5.18	5.67	
December ...		2.77	.58	3.12	6.12	4.17	2.41	4.81	6.24	3.36	
TOTALS ...	Imp.	Imp.	20.48	28.82	32.70	25.30	27.25	24.55	26.73	41.34	
		NP	D	D	P	D	D	D	D	D.	

1951 N.P. Imp.

1952 N.P. Imp.

1953 N.P. Imp.

Imp. 11' Wood 2.4 x 7.54

Imp. 12-18' deep no weeds

Imp. 3' within well + 1' above mound

Imp. 135' Lighthouse 125' C.S.

Imp. 1/2 was rebuilt in 1956 and is now in

good condition

Imp. A.S. Buchanan 22.10.08 - satisfactory

Imp. " " 2.10.57 - " "

Imp. " " 2.4/5/60 - " "

Position of Station on Ordnance One-Inch map :

No. of Map

National Grid Reference SY(20) 677624

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

Record D, or d	1910-19	1920-30	1931-40	1941-50	1951-60
	✓	✓	✓	41-48	
	- but 7 19	✓	✓	241, 46-48	
				272-45	