

RAINFALL AT Pennarth

Lat. Lon. County of Glamorgan
 Swarder Rain Gauge, by N 43 Observer Edgar J. Evans Esq. C.E.
 & No 2506 Ogmore to - 5.

Diameter ..			5								
Height			1	1			5.0				
Altitude ..			128	ft			160	ft			
Year	1900	1901	1902	1903	1904	1905	1906	1907	1908	1909	MEANS.
January ..			2.23	4.59	3.99	1.09	5.74	2.34	2.38	1.92	
February ..			.95	1.52	5.03	1.07	2.93	1.67	2.25	.66	
March			2.22	4.65	2.20	5.11	2.70	1.35	2.61	4.02	
April			1.83	2.41	1.59	2.63	1.32	3.43	2.71	2.09	
May			2.06	2.24	2.63	.11	4.08	2.74	1.44	1.66	
June			2.53	2.32	.80	3.67	2.22	3.39	.34	2.49	
July			1.98	3.95	4.17	.88	.82	2.33	3.16	2.38	
August			3.30	5.68	2.94	3.82	3.06	3.12	5.46	3.50	
September..		#	2.34	2.66	3.31	2.57	1.51	1.12	.96	2.89	3.37
October....			2.25	2.94	9.31	2.51	2.05	6.29	6.19	2.46	5.87
November ..			1.06	3.96	2.22	3.11	3.56	3.61	3.15	1.40	1.80
December ..			5.54	3.13	3.34	2.84	1.84	2.33	6.44	3.01	6.40
TOTALS ..			29.79	45.54	34.38	27.29	36.22	37.11	30.11	36.16	

1901 Gauge fixed 440 yards from the coast line
 1902 Pennarth Church .38 mile NNE
 Tree 30 ft high 63 ft N
 Pennarth Station .09 mile SW
 1906 Nov 1st Gauge moved 1/8 mile NW
 Pennarth Church .4 miles NNE
 " Station 1/8 " SSE
 No object near
 1907 Gauge moved 240 yards NW

RAINFALL at PemarthCounty of GlamorganObserver E. J. Evans & Co.River Basin Ogmore & C. 5Smelter Rain Gauge, by H. J.

Diameter ...	5											
Height	5.0											
Altitude ...	160 π											
Year ...	1910	1911	1912	1913	1914	1915	1916	1917	1918	1919	MEANS- TOTALS	1910-19
January ...	3.88	1.40	4.81	6.54	1.80	3.74	3.01	1.38	4.77	5.50	14.46	
February ...	4.48	4.18	2.79	.80	3.23	4.15	5.66	1.55	2.23	4.16	13.60	
March77	2.91	5.89	4.72	6.05	1.50	4.43	2.93	2.46	6.06	15.88	
April	2.78	2.41	.36	4.13	2.26	1.47	1.91	2.18	2.15	2.01	8.25	
May	3.24	.90	1.89	2.44	2.05	3.07	4.71	2.65	1.44	.62	9.42	
June	4.76	2.55	5.43	1.81	2.55	1.14	3.27	2.68	1.48	1.31	8.74	
July	2.31	.09	3.16	.67	5.13	3.92	1.79	2.61	6.65	2.40	13.45	
August	4.99	1.83	8.86	.97	3.49	1.43	4.10	7.06	3.62	2.69	17.47	
September ..	.31	1.77	.70	3.03	3.08	1.67	2.72	2.50	10.44	1.69	17.35	
October ...	4.92	3.36	5.07	4.66	2.27	4.52	3.17	6.66	2.61	2.65	20.09	
November ..	5.87	5.24	2.72	4.04	4.86	2.52	2.99	2.08	2.80	3.02	10.89	
December ...	5.13	3.12	6.62	2.16	6.96	8.08	3.78	1.06	6.88	7.72	19.44	
TOTALS ...	43.44	34.76	48.30	35.97	43.73	37.24	46.54	35.34	47.53	39.63	169.04	

1912 Jan 15 ft high 27 ft W.

Date.	Lat. N.	Long.	Railway Station.	Distance.	Direction.	Church.	Distance.	Direction.
1911	51.26.13	3.10.26 W	Pemarth	1/8 mi	SSE	Pemarth	1/4 mi	NNE

RAINFALL at PenarthCounty of GlamorganObserver E. J. Evans, Esq., C.E.River Basin Ogmore - 5(1926) n.o. Shroton Rain Gauge, by Nord 3.

Diameter ...	5"				5"									
Height	5.0													
Altitude ...	160				198		160							
Year	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929	1930 1930.	1920-30 Total 13		
January ...	5.36	4.38	3.72	2.43	4.85	3.48	6.02	4.55	7.68	1.41	4.77	45.65		
February ...	1.29	.11	4.08	7.08	0.38	5.03	2.76	3.19	4.39	1.48	.59	30.38		
March	3.36	2.60	4.01	1.66	1.33	.14	.69	3.84	3.75	.63	2.24	24.25		
April	4.16	.70	3.25	2.69	2.49	2.26	2.08	1.74	1.62	.39	2.54	23.92		
May	3.36	2.18	1.75	2.34	3.53	4.04	1.95	1.85	.43	2.77	1.48	25.98		
June	3.19	.08	1.32	.63	2.78	.23	1.67	3.16	2.27	2.07	.65	18.05		
July	5.21	1.11	3.81	3.02	6.59	3.21	2.04	3.80	2.48	2.14	2.84	36.25		
August	2.69	3.36	4.31	4.23	7.21	5.88	3.84	4.47	2.49	3.64	4.15	46.32		
September...	3.13	4.16	2.84	2.99	5.16	4.72	1.71	6.91	.66	.66	4.03	36.97		
October	3.65	2.27	1.26	6.26	4.25	5.45	4.38	3.42	5.24	6.45	3.71	48.34		
November...	2.47	2.37	1.74	3.57	3.28	2.39	7.53	5.32	4.26	9.56	4.64	47.13		
December...	4.40	2.76	5.71	3.60	4.59	4.20	.25	2.75	4.25	7.20	4.08	43.79		
TOTALS...	12.27	26.08	37.80	40.55	48.74	41.03	34.92	45.00	34.52	38.40	35.72	430.03		

No object near g.

1722. Tree 15 ft. high 27 ft. W.

Inspected 23. 16.11.24. Record stopped. Chose new site in yard behind U.D.C. Office. Must be 5 ft. above ground with buildings round. Fairly good site.

1924. Gauge moved 1st Sept. 480 yards to N.W.E.

1930. Obs. taken 9 A.M.

1924 values computed from Lower South for purpose of preparing new averages 16.65348

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
1920	51°26'13"	5°10'26"	Penarth	1/2 mile	S.E.	Penarth	1/2 mile	N.W.
1924			"	470 yards	S.W.	"	267 yds.	E.N.

RAINFALL at *Penarth (Council Offices.)*County of *Glamorgan.*Observer *B. J. Evans, G.E. Retired 31/3/35*River Basin *5-0gmore & c.**The Surveyor to the V.D.C.*Type of Gauge *Snowdon*Annual Average *27.1 in. based on 22 years obs. un-weighted.* Period of average *1881-1918* Ref. *5*

813298/27

Diameter	5.											
Height	5.0.											
Altitude	160.			155								
Year	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940	Means 1921-40	
January	3.17	5.20	2.47	2.65	.80	4.06	4.58	4.92	6.40	4.07	38.32	
February	3.05	.00	5.12	.55	3.39	1.62	6.00	1.46	2.48	2.83	26.50	
March	.93	1.74	2.96	1.70	.96	3.19	3.60	.53	1.03	2.98	19.62	
April	2.68	3.60	1.68	2.53	4.90	2.23	3.98	.14	3.13	2.69	28.66	
May	7.68	4.20	2.03	1.55	1.13	1.76	2.32	2.59	0.98	1.83	26.07	
June	3.45	1.07	2.10	1.63	3.29	3.59	.97	1.31	2.02	.67	20.10	
July	3.90	3.55	2.30	1.75	.27	6.13	2.91	2.65	6.38	4.21	34.05	
August	4.78	1.88	1.96	3.34	2.27	.99	.62	4.27	3.69	.19	23.99	
September	1.83	4.28	1.96	3.92	9.08	3.20	1.73	2.05	0.65	1.49	30.19	
October	.99	7.25	4.03	2.93	5.36	2.03	4.13	7.75	3.52	4.85	42.84	
November	4.42	1.82	0.72	1.83	5.56	3.84	2.38	5.37	7.76	7.88	41.58	
December	2.47	1.88	2.07	9.15	3.36	3.60	1.58	4.71	2.76	2.19	33.77	
TOTALS	39.35	36.57	29.40	33.43	40.57	37.34	34.80	37.75	40.88	35.88	265.69	

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.			Penarth	670 yds.	S. by W.	Penarth	267 yds.	E. by N.

RAINFALL at Penarth (West House Station No. 4054)
 County of Glamorgan Observer The Surveyor to the V.D.C.
 River Basin S - Ogmore &c.
 Type of Gauge Standard No. 1949

41

Annual Average 37.1 in. based on 22 years obs. unweighted. Period of average 1881-1915 Ref. S

File No. 8132.98 | 27

Diameter	5			5'		491	644				
Height	5 0			4' 0"	1' 0"		1				
Altitude	160			151'	148		41				
Year	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	Means
January	4.61	3.82	5.29	2.73	3.68	3.70	3.39	7.81	1.38	1.44	
February	2.48	.16	1.18	1.20	5.00	2.90	1.34	2.37	1.77	6.33	
March	2.15	2.03	1.37	.43	1.35	1.12	6.58	1.42	1.66	2.81	
April	1.02	.83	1.03	3.01	1.38	2.15	2.30	2.64	2.54	3.18	
May	1.52	3.61	2.92	2.37	3.11	5.10	2.53	3.92	3.84	1.87	
June	1.27	.59	1.66	3.36	4.88	4.02	2.43	2.76	.73	1.56	
July	2.72	1.94	1.65	2.74	2.56	1.98	2.28	4.48	1.76	5.04	
August	5.60	4.33	3.74	4.23	2.16	7.77	1.17	5.71	2.24	8.48	
September	.58	2.10	4.55	4.88	3.13	4.66	2.00	3.97	2.61	7.00	
October	2.15	2.90	2.09	4.51	4.94	1.00	.94	5.91	7.10	2.54	
November	1.80	.89	2.09	7.08	.96	5.80	5.26	2.63	4.17	7.36	
December	2.86	3.00	2.23	3.30	5.29	3.45	4.05	3.52	4.65	2.78	
TOTALS	28.76	26.20	29.20	40.44	38.34	43.65	34.27	47.14	34.45	49.59	
	D	np	np	D	D	D	D	D	D	D	

1942 np low. 1943 np low; new g. installed, end of Oct. old g. was found to be defective. New g. installed satisfactory.
 Jan 1st 1944. g. moved 1800 ft. S 26° W to rear of Council Offices
 west house, Stanwell Rd.

Alt = 43 ft. A.C.L. 31-156718
 Alt = 56 ft. A.C.L. 31-153714

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			Penarth Town	2000'	SSW.	St Augustines	700'	ENE
1944			"	400'	S. E	All Saints	900'	S.W.

BRITISH RAINFALL ORGANIZATION

Air Ministry, Meteorological Office

RAINFALL at

Station No. 4054

County of

Glamorgan

Observer

The Surveyor to Penarth U.D.C.

River Basin

5-Ogmore & C.

Type of Gauge

M.O.

Annual Average 37.1 in. based on 22 years obs. un-weighted. Period of average 1881-1915 Ref. S

File No. 83298127

Diameter ...	<u>5"</u>				<u>491</u>	<u>64.5</u> <u>64.4</u>		<u>N B</u>			
Height ...	<u>1'-0"</u>					<u>1</u>		<u>1958-60</u>			
Altitude ...	<u>148'</u>					<u>51</u>		<u>on next page</u>			
Year ...	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	Means
January ...	<u>4.64</u>	<u>3.96</u>	<u>0.89</u>	<u>2.77</u>	<u>4.03</u>	<u>4.33</u>	<u>3.81</u>		<u>4.25</u>		
February ...	<u>4.25</u>	<u>1.13</u>	<u>1.87</u>	<u>4.82</u>	<u>2.36</u>	<u>0.22</u>	<u>3.78</u>		<u>.41</u>		
March ...	<u>4.04</u>	<u>2.97</u>	<u>1.31</u>	<u>3.84</u>	<u>1.24</u>	<u>1.02</u>	<u>4.08</u>		<u>2.88</u>		
April ...	<u>3.63</u>	<u>3.17</u>	<u>3.84</u>	<u>0.89</u>	<u>1.74</u>	<u>1.32</u>	<u>0.17</u>		<u>2.76</u>		
May ...	<u>3.00</u>	<u>3.80</u>	<u>2.67</u>	<u>1.80</u>	<u>5.32</u>	<u>1.03</u>	<u>1.74</u>		<u>1.16</u>		
June ...	<u>0.43</u>	<u>2.07</u>	<u>1.77</u>	<u>3.27</u>	<u>3.86</u>	<u>2.38</u>	<u>1.18</u>		<u>1.67</u>		
July ...	<u>1.22</u>	<u>1.84</u>	<u>4.17</u>	<u>3.45</u>	<u>0.22</u>	<u>3.04</u>	<u>4.59</u>		<u>3.72</u>		
August ...	<u>4.44</u>	<u>5.96</u>	<u>5.29</u>	<u>3.67</u>	<u>1.12</u>	<u>7.17</u>	<u>3.05</u>		<u>3.37</u>		
September ...	<u>3.48</u>	<u>4.65</u>	<u>4.69</u>	<u>6.90</u>	<u>2.61</u>	<u>5.34</u>	<u>4.77</u>		<u>.36</u>		
October ...	<u>1.59</u>	<u>5.21</u>	<u>2.86</u>	<u>5.62</u>	<u>2.05</u>	<u>2.03</u>	<u>3.82</u>		<u>4.87</u>		
November ...	<u>7.53</u>	<u>4.47</u>	<u>3.07</u>	<u>7.29</u>	<u>3.24</u>	<u>1.26</u>	<u>2.95</u>		<u>4.10</u>		
December ...	<u>3.27</u>	<u>3.20</u>	<u>1.68</u>	<u>3.45</u>	<u>4.87</u>	<u>3.98</u>	<u>2.10</u>		<u>7.91</u>		
TOTALS ...	<u>41.52</u>	<u>42.43</u>	<u>34.11</u>	<u>47.77</u>	<u>32.66</u>	<u>33.12</u>	<u>36.04</u>		<u>37.46</u>		

1957. 1.1.57 9. moved 400' SW, at lower altitude. Now at Alexandra Park.
→ No Temp.

PBE 57 31-182 714
 POST 4140 57.2

Position of Station on Ordnance One-Inch map:

No. of Map

National Grid Reference ST 31 18714

Date	Lat. N.	Long.	Railway Station	Distance Direction from gauge		Parish Church	Distance Direction from gauge
<u>1951</u>			<u>Penarth</u>	<u>400'</u>	<u>S.E.</u>	<u>All Saints</u>	<u>900'</u> <u>S.W.</u>

Summary of Earlier Records from 10-year Sheets:

Record D, or d	1910-19	1920-30	1931-40	1941-50	1951-60
	<u>✓</u>	<u>✓</u>	<u>✓</u>	<u>✓</u>	
	<u>✓ But 1911 blank</u>	<u>✓ 23-6 & 3 blank</u>	<u>Only 36-40 D</u>	<u>✓ But 42-43 n.p.</u>	

Air Ministry, Meteorological Office

Station No. 4054

RAINFALL at Penarth (Alexandra Park)

County of Glamorgan

Observer Surveyor

River Basin S - Ogmore & C

Type of Gauge _____

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

" " 38.00 " " 35 " " 1916-50 " " 1916-50 " " P

File No. _____

Diameter ...	5"				491	644						
Height ...	1'-0"											
Altitude ...	122'					51						
Year ...	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	Means	
January ...								3.57	4.25	3.73		
February ...								4.50	4.1	2.14		
March ...				CONTINUED FROM PREVIOUS PAGE.				0.65	2.88	2.01		
April ...								0.81	2.76	2.42		
May ...								3.72	1.16	1.31		
June ...								2.79	1.67	1.57		
July ...								2.82	3.72	6.02		
August ...								4.27	3.37	5.27		
September ...								6.63	3.6	4.90		
October ...								3.98	4.87	8.51		
November ...								2.72	4.10	7.10		
December ...								4.64	7.91	6.00		
TOTALS ...								41.10	37.44	50.98		

No. 1000

Position of Station on Ordnance One-Inch map: _____ No. of Map _____ National Grid Reference ST(31)187714

Date	Lat. N.	Long.	Railway Station	Distance Direction from gauge		Parish Church	Distance Direction from gauge	
1958			Penarth	850'	W	All saints	1200ft	W.S.W

Summary of Earlier Records from 10-year Sheets: _____ 1916 - 50 _____ P accepted

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