

381099  
154RAINFALL AT Ledgwater, Newquay Bay, CornwallObserver H. P. Pearce, D.D.Phil. Trans. 1844, p. 29  
- Lx. p. 157  
- Lx. p. 230

Rain	{	By.....				
Gauge	{	Diameter.....in.	Height above Ground,.....ft.....in.	Above Mean Sea Level .....	ft.	

YEAR.....	1762				1767	1768	1769	MEANS.
January.....	4300				5725	6900	4690	
February.....	2100				6370	3760	4640	
March.....	2800				3600	0350	2260	
April.....	1050				2000	3180	1690	
May .....	1000				1900	1550	4010	
June .. ....	0200				0500	4750	4100	
July .. ....	0500				5775	46900	1320	
August .. ....	3500				2200	3900	3350	
September.....	4300				2390	4570	3700	
October .. ....	5600				4110	5010	2250	
November.....	3217				2380	6930	6350	
December.....	0400				1920	5150	4190	
TOTALS ....	29967				37100	50890	42730	

MET.O.B. RAINMASTER  
RETROSPECTIVE

381099

NGR: SW(10) 505330

ALT 250 ft = 76 metres. Date of review: 19-7-78

154

Ludgvan, Penzance  
Cornwall

Rev. W. Borlase

Cornwall

Fowey & E. Coast Streams - 2.

YEAR --	1760	1761	1762	1763	1764	1765	1766	1767	1768	1769	MEANS.
January --			4.30					3.72	6.90	4.69	
February--			2.10					6.37	3.76	4.64	
March---			2.80					3.60	3.5	2.24	
April ---			1.05					2.00	3.18	1.69	
May - - -			1.00					1.90	1.55	4.01	
June - - -			.20					.50	4.75	4.10	
July - - -			.50					5.78	4.98	1.32	
August- -			3.50					2.20	3.40	3.55	
September-			4.30					2.39	4.51	3.70	
October - -			5.60					4.14	5.01	2.25	
November -			3.20					2.58	6.93	6.35	
December -			1.40					1.92	5.15	4.19	
TOTALS -			29.95					37.10	50.89	42.73	

C

C C C

MET-O-E PAINMASTER  
RETROSPECTIVE

381099

7 P 7 58-800: SW(10) 505330

ACT 250 ft = 76

metres. Date of review 19-7-78

Met-SW(10) 505330

505330 76

454

Rainfall at Sudgwan, Penzance  
Cornwall

Rev. W. Borlais

Cornwall

Diameter of Gauge, ..... in. Height above Ground, ..... ft. .... in. Above Mean Sea Level, ..... ft.

Tawny & S. T. Coast Streams - 2.

YEAR - -	1770	1771	MEANS.
January - -	3.10	3.30	
February - -	3.30	4.50	
March - - -	4.04	2.90	
April - - -	3.40	.90	
May - - -	3.00	2.25	
June - - -	3.20	.20	
July - - -	1.95	.72	
August - -	1.85	3.63	
September - -	2.84	3.40	
October - -	2.55	4.55	
November - -	7.25	1.45	
December - -	4.10	5.35	
TOTALS -	44.64	30.15	

c c

\* Receiver quite full. Might have run over. Don't know

METEOROLOGIST  
RETROSPECTIVE

381099

NBR: SW(10)505330

ALT: 250 ft = 76 meters Date of review: 19-7-78

## METEOROLOGICAL OFFICE

**RAINFALL 1770-1779**

No. \_\_\_\_\_

(Old No. \_\_\_\_\_)

County CornwallStation LUD GYANAuthority Rev Wm Berlasc

Grid Ref. \_\_\_\_\_ DCnn No. \_\_\_\_\_

Altitude \_\_\_\_\_ metres 250 feet (O.D. \_\_\_\_\_)

Earliest year with complete data \_\_\_\_\_

River Basin. \_\_\_\_\_

File \_\_\_\_\_

Tributaries \_\_\_\_\_

TF \_\_\_\_\_

	Average 1916-1950	<u>1994</u> <u>1770</u>	<u>1992</u> <u>1771</u>	<u>1993</u> <u>1772</u>	1974	1975	1976	1977	1978	1979	1980
January ...		<u>3.16</u>	<u>3.29</u>	<u>6.44</u>							
February ...		<u>3.29</u>	<u>1.50</u>	<u>6.80</u>							
March ...		<u>4.03</u>	<u>2.90</u>	<u>5.54</u>							
April ...		<u>3.39</u>	<u>.90</u>	<u>2.88</u>							
May ...		<u>2.99</u>	<u>2.25</u>	<u>1.50</u>							
June ...		<u>3.19</u>	<u>.20</u>	<u>2.00</u>							
July ...		<u>1.95</u>	<u>.72</u>	<u>1.53</u>							
August ...		<u>1.85</u>	<u>3.62</u>								
September		<u>2.83</u>	<u>3.39</u>								
October ...		<u>(6.54)</u>	<u>4.55</u>								
November		<u>7.34</u>	<u>1.45</u>								
December		<u>4.09</u>	<u>5.34</u>								
TOTAL ...		<u>44.65</u>	<u>30.81</u>								
1916-1950 Percentage											
D, d, or M											

## AVERAGE ANNUAL RAINFALL

Based on data for years.

Date of calculation.

1916-1950 (Introduced \_\_\_\_\_) mm ( \_\_\_\_\_ in) \_\_\_\_\_

1931-1960 (Introduced \_\_\_\_\_) mm ( \_\_\_\_\_ in) \_\_\_\_\_

(Introduced \_\_\_\_\_) mm ( \_\_\_\_\_ in) \_\_\_\_\_

Type and capacity of gauge 3" square funnel

NOTES on inspections, unorthodox equipment or exposure, changes of equipment, site or altitude (each note to be dated):

See notes to sheets 1760-59 and 1760-69

NOTES on years with incomplete or unsatisfactory data:

Continue notes overleaf if necessary.

## METEOROLOGICAL OFFICE

## RAINFALL 1760-1769

No. \_\_\_\_\_  
(Old No. \_\_\_\_\_)

County Cornwall

Station LUDGVIAN

Authority Rev. Wm Barlase

Grid Ref. \_\_\_\_\_ DCmn No. \_\_\_\_\_

Altitude \_\_\_\_\_ metres 250 feet (O.D. \_\_\_\_\_)

Earliest year with complete data

River Basin.

File \_\_\_\_\_

Tributaries \_\_\_\_\_

TF \_\_\_\_\_

	Average 1916-1950	1760	1761	1762	1763	1764	1765	1766	1767	1768	1769
January ...		1.13	4.31	1.10	5.49	4.91	.05	(3.72)	6.89	4.68	
February ...		2.46	2.09	5.34	3.07	2.90	2.15	6.36	3.75	4.63	
March ...	1.27	1.28	2.79	(1.34)	(1.00)	8.66	2.18	3.59	3.35	2.24	
April ...	.63	2.83	1.05	2.00		3.34	2.35	2.00	3.17	1.69	
May ...	(3.19)	3.38	1.00	.95		1.10	3.05	1.90	1.55	4.01	
June ...		.64	.20	2.65	2.53	1.46	1.45	.50	1.74	4.09	
July ...	1.85	1.07	.50	4.29	2.48	.91	2.27	5.77	4.89	1.32	
August ...		2.37	3.49	3.71	2.48	2.87	1.53	2.20	3.89	3.85	
September		3.49	4.29	2.33	1.69	2.03	1.95	2.39	4.50	3.69	
October ...	9.48	5.59	4.01		3.05	7.15	2.94	4.13	5.00	2.25	
November		5.39	3.21	5.77	3.05	4.43	4.11	2.57	6.92	6.34	
December		3.89	4.21	1.40	9.35	7.39	3.38	3.18	1.92	6.14	4.18
TOTAL ...		37.73	29.92	42.84		163.14	30.21	37.05	50.79	42.67	
1916-1950 Percentage											
D, d, or M											

## AVERAGE ANNUAL RAINFALL

Based on data for years.

Date of calculation.

1916-1950 (Introduced \_\_\_\_\_) mm (\_\_\_\_\_ in)

1931-1960 (Introduced \_\_\_\_\_) mm (\_\_\_\_\_ in)

(Introduced \_\_\_\_\_) mm (\_\_\_\_\_ in)

Type and capacity of gauge 3 square funnel

NOTES on inspections, unorthodox equipment or exposure, changes of equipment, site or altitude (each note to be dated):

## Notes (Prof. J. Oliver):

(i) gaps due to breakage of rainfall measure.

(ii) May 1760, March 1763, March 1764, January 1767 and October 1770 are estimates by Barlase in cases where some recording doubt occurred. In Dec 1765 some water overflowed from the measuring glass.

See also notes to sheet 1750-69

NOTES on years with incomplete or unsatisfactory data:

Gauge read only 2 or 3 times per month

Continue notes overleaf if necessary.

## METEOROLOGICAL OFFICE

## RAINFALL 1750-1759

No. \_\_\_\_\_

(Old No. \_\_\_\_\_)

County Cornwall Station LUDGVAN  
 Authority Rev. Wm. Borlase Grid Ref. \_\_\_\_\_ DCNN No. \_\_\_\_\_  
 \_\_\_\_\_ Altitude \_\_\_\_\_ metres 250 feet (O.D. \_\_\_\_\_)  
 Earliest year with complete data \_\_\_\_\_ River Basin \_\_\_\_\_  
 File \_\_\_\_\_ Tributaries \_\_\_\_\_  
 TF \_\_\_\_\_

	Average 1916-1950	1950	1972	1973	1974	1975	1976	1977	1978	1979	1980 <u>1759</u>	
January ...												<u>1.45</u>
February ...												<u>3.36</u>
March ...												<u>1.28</u>
April ...												<u>.85</u>
May ...												<u>5.27</u>
June ...												<u>1.80</u>
July ...												<u>2.22</u>
August ...												<u>2.53</u>
September												
October ...												<u>4.52</u>
November												<u>3.79</u>
December												<u>3.07</u>
<b>TOTAL ...</b>												
1916-1950 Percentage												
D, d, or M												

## AVERAGE ANNUAL RAINFALL

Based on data for years.

Date of calculation.

1916-1950 (Introduced \_\_\_\_\_) mm (\_\_\_\_\_ in) \_\_\_\_\_

1931-1960 (Introduced \_\_\_\_\_) mm (\_\_\_\_\_ in) \_\_\_\_\_

(Introduced \_\_\_\_\_) mm (\_\_\_\_\_ in) \_\_\_\_\_

Type and capacity of gauge 3 inch square funnel

NOTES on inspections, unorthodox equipment or exposure, changes of equipment, site or altitude (each note to be dated):

Extracted from "William Borlase's contribution to meteorology and climatology" by Professor J. Oliver of Swansea University (copy in Treura Museum). Photo-copies of pp. 305-310 held by Met. O.S. and of 275-317 in the library.

The above values were converted from mm to inches as an addition to the ms. archives of the Meteorological Office by D. S. Water-Smyth.

NOTES on years with incomplete or unsatisfactory data:

Gauge read only 2 or 3 times per month

Continue notes overleaf if necessary.