

RAINFALL AT

between last 1000 ft.
Wade Stone Reservoir, Summit of Blackstone Ridge

From Memoirs of the Library Philosophical Society of Manchester

Authority, Observer *Thomas Henshaw, Esq.*

Vol. VI, 2^d Series, p. 581

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

| YEAR..... | 1830 | 1831 | 1832 | 1833 | 1834 | 1835 | 1836 | 1837 | 1838 | 1839 | MEANS. |
|----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| January..... | 33 | 72 | 77 | 53 | 8.25 | 2.76 | 8.25 | 4.05 | 4.0 | 2.07 | |
| February..... | 2.15 | 1.46 | 56 | 4.07 | 6.05 | 4.50 | 2.06 | 4.50 | 2.0 | 3.00 | |
| March..... | 77 | 3.98 | 2.50 | 1.38 | 4.20 | 3.72 | 4.50 | 4.4 | 2.25 | 4.50 | |
| April..... | 2.99 | 2.33 | 2.70 | 3.50 | .97 | 1.54 | 2.15 | 4.3 | 1.90 | 1.25 | |
| May..... | 3.30 | .52 | 1.82 | 1.12 | .80 | 2.80 | .25 | 1.05 | 2.80 | - | |
| June..... | 4.89 | 1.90 | 4.40 | 4.21 | 3.30 | 1.65 | 4.40 | 2.83 | 3.80 | 2.72 | |
| July..... | 2.85 | 3.72 | 1.57 | 2.60 | 6.05 | 1.40 | 6.75 | 2.75 | 3.80 | 4.00 | |
| August..... | 2.39 | 2.95 | 4.00 | 3.94 | 2.70 | 1.00 | 2.25 | 1.52 | 6.40 | 3.28 | |
| September..... | 6.56 | 4.65 | 53 | 2.64 | 2.39 | 5.90 | 2.90 | 4.03 | 1.30 | 5.02 | |
| October..... | 1.31 | 4.36 | 3.63 | 3.90 | 1.50 | 5.45 | 3.70 | 6.07 | 4.65 | 2.40 | |
| November..... | 4.34 | 5.96 | 4.03 | 6.72 | 2.58 | 4.08 | 6.14 | 4.90 | 3.00 | 4.00 | |
| December..... | 1.70 | 4.60 | 4.52 | 2.67 | 1.15 | 1.08 | 2.90 | 5.60 | 2.05 | 2.95 | |
| TOTALS | 33.58 | 37.15 | 31.63 | 47.34 | 39.94 | 36.48 | 41.25 | 38.17 | 32.53 | 35.79 | |

MEAN...
 RETRO...

561308

NGR: SD(34) 972164

ALT: 1500 ft = 457 metres. Date of review 20-7-78

RAINFALL AT

Between Land & Water.
From Memoirs of the Literary & Philosophical Society of Manchester
Vol VI. 2nd Series, p. 581

Authority Observer

Thomas Fleming Esq

Rain { By

Gauge {

Diameter.....in.

Height above Ground,.....ft.....in.

Above Mean Sea Level.....ft.

| YEAR..... | 1840 | | | | | | | | | MEANS |
|----------------|-------|--|--|--|--|--|--|--|--|-------|
| January..... | 6.40 | | | | | | | | | |
| February..... | 2.60 | | | | | | | | | |
| March..... | .20 | | | | | | | | | |
| April..... | .15 | | | | | | | | | |
| May..... | 3.40 | | | | | | | | | |
| June..... | 2.40 | | | | | | | | | |
| July..... | 4.70 | | | | | | | | | |
| August..... | 4.00 | | | | | | | | | |
| September..... | 5.00 | | | | | | | | | |
| October..... | 2.08 | | | | | | | | | |
| November..... | 5.02 | | | | | | | | | |
| December..... | .35 | | | | | | | | | |
| TOTALS | 36.90 | | | | | | | | | |

MET. O. & C.
RETRO. & C.

561308

NGR: SD(34) 972164

ALT: 1500 ft = 457 metres. Date of rain gauge 20-7-78.

561308

489

10

White Holme, Blackstone Edge Reservoir
 Rochdale Canal Co.'s Gauge.

1500 ft + S.L.

| YEAR - - | 1810 | 1811 | 1812 | 1813 | 1814 | 1815 | 1816 | 1817 | 1818 | 1819 | MEANS. |
|--------------|------|------|------|------|------|------|------|------|------|-------|--------|
| January - - | | | | | | | | | | 2.90 | |
| February - - | | | | | | | | | | 3.50 | |
| March - - - | | | | | | | | | | 3.20 | |
| April - - - | | | | | | | | | | 3.20 | |
| May - - - - | | | | | | | | | | 3.50 | |
| June - - - - | | | | | | | | | | .25 | |
| July - - - - | | | | | | | | | | 2.22 | |
| August - - - | | | | | | | | | | 1.50 | |
| September - | | | | | | | | | | 2.00 | |
| October - - | | | | | | | | | | 1.25 | |
| November - | | | | | | | | | | 3.00 | |
| December - | | | | | | | | | | 2.10 | |
| TOTALS - | | | | | | | | | | 28.62 | |

9 Branch Mem. 7-14

MET O'S. REAPPROPRIATION
RETROSPECTIVE 1810

561308

NGR: 52(34) 972164

SLT: 1500 ft = 457 metres. Date of revision 20-7-78

White Holme, Blackstone Edge Reservoir

Rochdale Canal Co.'s Gauge, at the reservoir.

See note
on Mon look
JMS 11/21/75

+ S level 1500 ft

| YEAR - - | 1820 | 1821 | 1822 | 1823 | 1824 | 1825 | 1826 | 1827 | 1828 | 1829 | MEANS. |
|--------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| January - - | 1.50 | 2.05 | 1.12 | — | 1.47 | 1.40 | .65 | 1.92 | 2.70 | .00 | |
| February - - | .75 | .30 | 4.00 | | .82 | 1.20 | 2.93 | 1.62 | 1.33 | 1.34 | |
| March - - | 2.50 | 2.48 | 2.80 | | 2.25 | .55 | .40 | 3.40 | 1.42 | .13 | |
| April - - | 1.00 | 2.26 | 4.45 | | 2.75 | 1.69 | .85 | .67 | 3.93 | 2.86 | |
| May - - | 2.90 | 1.56 | 1.40 | | 1.25 | 4.45 | .70 | 1.50 | .60 | .55 | |
| June - - | 2.00 | .70 | 1.03 | | 3.09 | 2.77 | .40 | 1.93 | 2.18 | 2.41 | |
| July - - | 1.20 | .90 | 7.94 | | .95 | .61 | 2.25 | 1.80 | 8.01 | 2.75 | |
| August - - | 5.62 | 3.00 | 2.70 | | 2.48 | 4.69 | 2.15 | 2.59 | 4.69 | 8.10 | |
| September - | 1.50 | 4.50 | 2.00 | | 4.50 | 2.60 | 3.04 | 2.28 | 2.35 | 3.91 | |
| October - - | 2.95 | 5.00 | 2.20 | | 6.27 | 3.05 | 3.12 | 4.94 | 2.25 | 2.39 | |
| November - | 1.39 | 4.10 | 2.10 | | 5.53 | 5.48 | 1.20 | 2.80 | 4.84 | 2.40 | |
| December - | 4.60 | 6.00 | 2.00 | | 6.83 | 2.43 | 2.00 | 5.48 | 4.97 | .53 | |
| TOTALS - | 27.91 | 32.65 | 33.74 | 35.68 | 38.19 | 30.92 | 19.69 | 30.93 | 39.27 | 27.42 | 31.660 |

0-9 March Mean 7-14

MET. G. S. RAINMETER
RETROSPECTIVE G. S. REVIEW

561308

NGR: SD(34) 972164

ALT: 1500 ft or 457 metres. Date of review 20-7-78

White Holme Reservoir E-W-49
Summit of Blackstone Edge

See Mon Look
Jpe
2/21/75

1884

on roof - 20 ft?

1500 ft

| YEAR - - | 1830 | 1831 | 1832 | 1833 | 1834 | 1835 | 1836 | 1837 | 1838 | 1839 | MEANS. |
|--------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| January - - | .33 | .72 | .77 | .53 | 0.25 | 2.76 | 3.25 | 4.05 | .40 | 2.07 | 2.313 |
| February - - | 2.15 | 1.46 | .56 | 4.07 | 6.05 | 4.50 | 2.06 | 4.50 | .20 | 3.00 | 2.855 |
| March - - - | .77 | 3.98 | 2.50 | 1.38 | 4.20 | 3.72 | 4.50 | .44 | 2.25 | 4.50 | 2.824 |
| April - - - | 2.99 | 2.33 | 2.70 | 3.59 | .97 | 1.54 | 2.15 | .43 | 1.90 | 1.25 | 1.985 |
| May - - - - | 3.30 | .52 | 1.82 | 1.12 | .80 | 2.80 | .25 | 1.05 | 2.80 | .00 | 1.446 |
| June - - - - | 4.89 | 1.90 | 4.40 | 4.21 | 3.30 | 1.65 | 4.40 | 2.83 | 3.00 | 2.72 | 3.410 |
| July - - - - | 2.85 | 3.72 | 1.57 | 2.60 | 6.05 | 1.40 | 6.75 | 2.75 | 3.80 | 4.00 | 3.549 |
| August - - - | 2.39 | 2.95 | 4.60 | 3.94 | 2.70 | 1.60 | 2.25 | 1.52 | 6.40 | 3.28 | 3.163 |
| September - | 6.56 | 4.65 | .53 | 2.64 | 2.39 | 5.90 | 2.90 | 4.03 | 1.30 | 5.02 | 3.572 |
| October - - | 1.31 | 4.36 | 3.63 | 3.90 | 1.50 | 5.45 | 3.70 | 6.07 | 4.65 | 2.40 | 3.697 |
| November - | 4.34 | 5.96 | 4.03 | 6.72 | 2.58 | 4.08 | 6.14 | 4.90 | 3.00 | 4.60 | 4.635 |
| December - | 1.70 | 4.60 | 4.52 | 12.67 | 1.15 | 1.08 | 2.90 | 5.60 | 2.05 | 2.95 | 3.922 |
| TOTALS - | 33.58 | 37.15 | 31.63 | 47.37 | 39.94 | 36.48 | 41.25 | 38.17 | 32.53 | 38.79 | 37.391 |

10 0 0 0 0 0 36.43 10 0 0 0 0

0-9 Mean Mem 7-24

White Holme
Camp? gauge

E-x-116

Gauge on roof? 20 ft + ground; 1200 ft + sea level

| YEAR - | 1840 | 1841 | 1842 | 1843 | 1844 | 1845 | 1846 | 1847 | 1848 | 1849 | MEANS. |
|-------------|-------|------|------|------|-------|-------|-------|-------|------|------|--------|
| January - | 6.40 | | | | 1.2 | 2.05 | 5.00 | 1.9 | | | |
| February - | 2.60 | | | | 2.2 | .90 | 1.80 | 2.9 | | | |
| March - | 2.0 | | | | 2.2 | 2.09 | 2.70 | 1.4 | | | |
| April - | 1.5 | | | | 1.7 | 2.30 | 4.10 | 2.4 | | | |
| May - | 3.40 | | | | 2.0 | 1.90 | 1.00 | 3.6 | | | |
| June - | 2.40 | | | | 2.2 | 3.80 | 2.60 | 2.6 | | | |
| July - | 4.70 | | | | 2.2 | 3.80 | 3.20 | .55 | | | |
| August - | 4.60 | | | | 2.2 | 5.00 | 5.50 | 1.70 | | | |
| September - | 5.00 | | | | 2.2 | 3.60 | 1.06 | 3.6 | | | |
| October - | 2.00 | | | | 2.0 | 4.36 | 5.20 | 4.5 | | | |
| November - | 5.02 | | | | | 2.90 | 3.70 | 4.3 | | | |
| December - | 3.5 | | | | | 7.15 | 1.20 | 6.3 | | | |
| TOTALS - | 36.90 | | | | 22.64 | 39.85 | 37.14 | 35.75 | | | |

0 - Main Mem 7-25-851
4 " " 7-44

On Summit of Blackstone Lodge

In '44 Mr. of 21 years is given at 34.27; in 1820-40 = 34.64; therefore
41-3 were probably inaccessible

White Holme Reservoir
Loch Gauge

Ex 150

Gauge float B.A.I 1ft+ ground + S Level 1200 ft

| YEAR - - | 1840 | 1841 | 1842 | 1843 | 1844 | 1845 | 1846 | 1847 | 1848 | 1849 | MEANS. |
|---------------|------|------|------|------|------|------|-------|-------|------|------|--------|
| January - - | | | | | 1.0 | 3.8 | 5.7 | 3.2 | | | |
| February - - | | | | | 2.1 | 1.2 | 2.0 | 3.8 | | | |
| March - - - | | | | | 0.2 | 5.0 | 4.0 | 2.3 | | | |
| April - - - | | | | | .7 | 3.0 | 5.4 | 3.8 | | | |
| May - - - - | | | | | 0.0 | 3.8 | .9 | 3.4 | | | |
| June - - - - | | | | | 2.2 | 5.0 | 3.1 | 2.5 | | | |
| July - - - - | | | | | 4.2 | 4.3 | 4.1 | 1.1 | | | |
| August - - - | | | | | 5.2 | 8.3 | 3.4 | 2.3 | | | |
| September - | | | | | 5.0 | 4.7 | 2.6 | 4.4 | | | |
| October - - - | | | | | 3.0 | 8.9 | 5.7 | 5.5 | | | |
| November - | | | | | | 4.3 | 4.3 | 4.5 | | | |
| December - | | | | | | | 2.00 | 11.00 | | | |
| TOTALS - | | | | | X | | 43.20 | 47.80 | | | |

$\frac{C}{estimated} = 35.1$

Mean Mean 7-43