

RAINFALL at HOUGHALL (COUNTY HORTICULTURAL 3TH)County of DURHAMObserver W.S. SHARPRiver Basin WEAR 2.County Education CommitteeMO Rain Gauge, by _____

| | | | | | | | | | | | |
|---------------|------|------|------|------|------|------|-------|-------|-------|-------|------------------------------|
| Diameter ... | | | | | | 5 | | | | | |
| Height | | | | | | 11 | | | | | |
| Altitude ... | | | | | | 160 | | | | | |
| Year | 1920 | 1921 | 1922 | 1923 | 1924 | 1925 | 1926 | 1927 | 1928 | 1929 | <u>1930.</u> <u>MEANS</u> |
| January ... | | | | | | | 2.75 | 1.40 | 2.83 | 1.76 | 3.67 |
| February ... | | | | | | | 1.95 | 0.85 | 1.39 | 1.10 | 2.07 |
| March | | | | | | 1.67 | .92 | 1.90 | 2.65 | .13 | 2.58 |
| April | | | | | | 3.33 | 1.19 | 1.67 | 1.09 | 1.06 | 2.32 |
| May | | | | | | 2.55 | 2.12 | 1.76 | 1.91 | .98 | 1.84 |
| June | | | | | | .10 | 3.36 | 3.42 | 4.73 | 1.51 | 1.10 |
| July | | | | | | 2.34 | 3.42 | 4.01 | 1.56 | 2.34 | 7.59 |
| August | | | | | | 3.26 | 2.64 | 7.08 | 2.72 | 2.23 | 4.41 |
| September... | | | | | | 2.99 | 2.55 | 3.62 | 0.53 | 1.34 | 3.04 |
| October | | | | | | 3.25 | 3.06 | 1.62 | 2.88 | 2.04 | 1.86 |
| November... | | | | | | 2.92 | 4.27 | 2.40 | 2.41 | 2.59 | 3.37 |
| December... | | | | | | 4.01 | .85 | 3.44 | 1.52 | 2.63 | 2.74 |
| TOTALS... | | | | | | IMP. | 29.08 | 33.17 | 26.22 | 20.71 | 36.29 |
| | | | | | | D | D | D | D | D | D |

1925 FENCE 3' High 3 1/2 yds S. & 2 1/2 yds W.

Position of Station on reduced Ordnance Survey }
Map, 2 miles to 1 inch Series

No. of Map _____

Reference No. _____

| Date. | Lat. N. | Long. W. | Railway Station. | Distance from gauge | Direction | Parish Church. | Distance from gauge | Direction |
|-------|---------|----------|------------------|---------------------|-----------|----------------|---------------------|-----------|
| 1926. | 54° 45' | 1° 35' | Shencliffe | 1 1/2 m. | E | Shencliffe | 1 1/4 m. | E |

RAINFALL at Durham (Houghall Hort. Stn.) M.W.R.County of DurhamObserver County Education Com.River Basin Wear-2Durham County Council.Type of Gauge 264Dredger of AgalAnnual Average 27.2 in. based on 5 years obs. un-weighted. Period of average 1881-1915 Ref. S
(reworked 11.5.45.)

| | | | | | | | | | | | | |
|-----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--|
| Diameter | 5. | | | | | | | | | | | |
| Height | 1.0. | | | | | | | | | | | |
| Altitude | 160. | | | | | | | | | | | |
| Year | 1931 | 1932 | 1933 | 1934 | 1935 | 1936 | 1937 | 1938 | 1939 | 1940 | Means | |
| January | 2.07 | 1.40 | 1.57 | 1.23 | 2.44 | 4.14 | 3.05 | 2.26 | 5.30 | 2.14 | 2560 | |
| February | 1.12 | .96 | 4.25 | 4.47 | 3.32 | 3.70 | 3.76 | 1.11 | .77 | 2.32 | 2178 | |
| March | 1.61 | 2.19 | 0.95 | 2.91 | .58 | 2.30 | 3.86 | .30 | 2.91 | 1.90 | 1957 | |
| April | 3.04 | 1.12 | 1.00 | 3.63 | 3.14 | 1.63 | 2.15 | .05 | 1.14 | 1.55 | 1845 | |
| May | 2.65 | 3.97 | 1.93 | 1.32 | .76 | 1.70 | 3.10 | 3.34 | 1.40 | 1.70 | 2187 | |
| June | 3.32 | 1.21 | 1.25 | 2.03 | 2.62 | 3.57 | 1.50 | 2.53 | 2.05 | 1.90 | 2258 | |
| July | 4.00 | 3.97 | 2.07 | 2.58 | .26 | 2.98 | 2.93 | 2.35 | 3.08 | 5.42 | 2964 | |
| August | 1.99 | 2.41 | 0.98 | 3.17 | 1.74 | 1.83 | 1.31 | 1.50 | 4.54 | .93 | 2045 | |
| September | 4.14 | 2.08 | 2.05 | 1.48 | 3.38 | 2.83 | 1.48 | 2.28 | 1.59 | 1.49 | 2480 | |
| October | .98 | 3.98 | 3.24 | 3.23 | 3.92 | 1.43 | 1.70 | 3.29 | 5.84 | 3.20 | 3081 | |
| November | 2.33 | .58 | 3.07 | 2.49 | 4.22 | 3.17 | 1.40 | 2.37 | 3.44 | 3.69 | 2746 | |
| December | 1.13 | .96 | 2.03 | 4.22 | 1.90 | 1.89 | 6.15 | 4.37 | 1.31 | 2.19 | 2615 | |
| TOTALS | 28.38 | 24.83 | 24.89 | 28.76 | 30.28 | 31.22 | 32.39 | 25.75 | 34.23 | 28.43 | 28916 | |

Inspected 2/6/33. see Gf.Position of Station on reduced Ordnance Survey Map, } No. of Map..... Reference No.....
1 mile to 1 inch Series

| Date. | Lat. N. | Long. | Railway Station. | Distance from gauge | Direction | Parish Church. | Distance from gauge | Direction |
|-------|---------|-------|------------------|---------------------|-----------|----------------|---------------------|-----------|
| | | | | | | | | |

Station No. 3538

RAINFALL at Durham (Hagball Hunt Sta.) M.V.R.

41

County of DurhamObserver Director of Agric.River Basin Year 2

Type of Gauge

Annual Average 27.9 in. based on 4 years obs. un-weighted. Period of average 1881-1915 Ref. S. 51.48 = A.W.S.26.4 (revised 11.5.45)File No. 56996/47

| Diameter | 5" | | 024 | 513 | | | | | | | | |
|-----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|
| Height | 1'0" | | | 1 | | | | | | | | |
| Altitude | 160' | | | 41 | | | | | | | | |
| Year | 1941 | 1942 | 1943 | 1944 | 1945 | 1946 | 1947 | 1948 | 1949 | 1950 | Means | Totals |
| January | 4.38 | 2.23 | 3.63 | .93 | 4.43 | 1.54 | 2.03 | 8.01 | .64 | 1.73 | 29.55 | |
| February | 6.32 | 2.20 | .79 | 2.37 | 1.58 | .45 | 3.81 | 1.28 | .62 | 3.17 | 22.59 | |
| March | 2.66 | 1.18 | .63 | .44 | .41 | 1.22 | 3.91 | .85 | 1.44 | .83 | 13.54 | |
| April | 1.04 | .83 | 1.00 | 2.21 | 1.44 | 1.91 | 3.93 | 1.29 | 1.62 | 1.47 | 16.94 | |
| May | 1.23 | 1.61 | 2.43 | 1.76 | 3.24 | 2.28 | 2.09 | 1.85 | .73 | 1.79 | 18.71 | |
| June | .71 | .94 | 1.22 | 2.28 | 2.10 | 1.43 | 2.09 | 3.68 | 1.26 | .73 | 16.44 | |
| July | 1.44 | 3.01 | 1.55 | 3.26 | 1.50 | 3.19 | 2.17 | 1.91 | 1.79 | 4.06 | 23.88 | |
| August | 2.45 | 1.85 | 3.88 | 1.43 | 3.48 | 4.30 | .34 | 3.93 | 1.70 | 4.82 | 23.24 | |
| September | .46 | 2.57 | 3.35 | 5.51 | 1.97 | 4.01 | 1.50 | 4.21 | .87 | 4.26 | 28.71 | |
| October | 8.99 | 2.39 | 1.74 | 2.38 | 3.66 | 1.63 | .62 | 1.69 | 2.45 | .98 | 22.13 | |
| November | 3.43 | .70 | 2.32 | 4.33 | .97 | 5.07 | 2.39 | 1.57 | 4.44 | 5.83 | 31.68 | |
| December | .26 | 2.13 | 1.27 | 1.53 | 1.57 | 2.86 | 1.61 | 2.55 | 2.27 | 3.25 | 19.30 | |
| TOTALS | 28.37 | 21.64 | 23.81 | 29.75 | 26.35 | 29.89 | 26.49 | 32.72 | 19.77 | 32.92 | 271.71 | 10 |

15/6/50. Insp. H.B. Rowles. Gauge found, no change in site which is satisfactory.
 Hedge 5' 15" away from gauge 12' left 24' away to N x S.
 Gauge could be moved 5' to E with advantage.

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

Station No. 3538

RAINFALL at Durham (Houghall) (H. & W.) M.W.R. (71) 51County of Durham

Observer

Director of Agric.
The Principal
School of Agriculture.River Basin Ure-2

Type of Gauge

Annual Average 21.4 in. based on 31 years obs. un-weighted. Period of average 1881-1915 Ref. AWS
27.86 " " 31 " " 1926-1956 1916-1950 E 6996/47 F

File No.

| Diameter ... | 5" | | 024 | 513 | | | | | | | | |
|---------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|----|
| Height ... | 1' 0" | 11" | | 1 | | | | | | | | |
| Altitude ... | 100' | | | 51 | | | | | | | | |
| Year ... | 1951 | 1952 | 1953 | 1954 | 1955 | 1956 | 1957 | 1958 | 1959 | 1960 | Means | |
| January ... | 1.25 | 2.03 | .57 | 2.41 | 2.05 | 3.49 | 1.79 | 1.87 | 2.42 | 4.63 | 22.31 | |
| February ... | 2.94 | .43 | 2.51 | 2.30 | 2.69 | 2.34 | 2.43 | 3.67 | .60 | 2.51 | 22.42 | |
| March ... | 3.60 | 1.37 | .10 | 1.56 | 1.86 | .58 | 1.04 | 2.37 | .65 | 1.94 | 15.07 | |
| April ... | 1.27 | 1.66 | 2.06 | .46 | .63 | .90 | .31 | 1.82 | 1.62 | .80 | 11.53 | |
| May ... | 4.32 | 1.13 | 1.46 | 4.68 | 1.65 | .54 | 1.65 | 3.48 | .52 | 2.04 | 21.47 | |
| June ... | 1.03 | 1.28 | 2.74 | 1.47 | 2.35 | 3.61 | 1.40 | 2.97 | 2.50 | .33 | 19.68 | |
| July ... | 1.66 | .61 | 2.51 | 1.49 | .99 | 2.07 | 3.18 | 1.95 | 1.30 | 3.73 | 19.49 | |
| August ... | 4.24 | 2.26 | 4.74 | 5.12 | .77 | 7.52 | 3.04 | 2.66 | .28 | 2.71 | 33.34 | |
| September ... | 1.07 | 4.73 | 1.12 | 1.69 | .93 | 2.01 | 3.23 | 2.07 | .74 | 2.33 | 19.92 | |
| October ... | 1.79 | 3.08 | 1.69 | 4.31 | 1.47 | 1.36 | 1.55 | 1.45 | 1.17 | 7.48 | 25.35 | |
| November ... | 5.70 | 3.21 | 1.12 | 4.04 | 1.68 | .67 | 1.49 | .51 | 3.83 | 2.86 | 25.11 | |
| December ... | 2.49 | 2.58 | .77 | 2.33 | 2.76 | 2.07 | 1.64 | 3.50 | 3.60 | 1.92 | 23.66 | |
| TOTALS ... | 31.36 | 24.37 | 21.39 | 31.86 | 19.83 | 27.16 | 22.75 | 28.32 | 19.23 | 33.08 | 259.35 | 10 |
| | D | D | D | D | D | D | D | D | D | D | | |

W. H. Fowler 6.4.53. V. Satisfactory.
 1956: Insp by R.W. Gloyne Feb. 14: Gauge old but good. Satisfactorily exposed.
 1959: Authority & name of station amended.
 1960 New site from 1st Dec 1960

Position of Station on Ordnance One-Inch map:

No. of Map

National Grid Reference M2(45)277405

| 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 |
|----------------|---------|--------------------------|--------------------|---------|---------|
| | | Camp 1925 ✓ but d 30. | ✓ ✓ but d 36-37 | ✓ | |