

RAINFALL AT *Dunde W W*

60

Crombie Reservoir

Forfar.

J Duncan

Rain } By
Gauge { Diameter.....in.

Height above Ground, ft. in.

Above Mean Sea Level, *522* ft.

S. No. 2.

| YEAR | | | | | | | | | | | | MEANS. |
|----------------|--|--|--|--|--|--|--|--------------|--------------|--------------|--|--------|
| January | | | | | | | | <i>1867</i> | <i>1868</i> | <i>1869</i> | | |
| February | | | | | | | | <i>7.09</i> | <i>9.78</i> | <i>4.70</i> | | |
| March | | | | | | | | <i>1.23</i> | <i>1.86</i> | <i>1.65</i> | | |
| April | | | | | | | | <i>2.69</i> | <i>1.93</i> | <i>1.51</i> | | |
| May | | | | | | | | <i>2.74</i> | <i>3.27</i> | <i>2.03</i> | | |
| June | | | | | | | | <i>4.02</i> | <i>2.21</i> | <i>2.04</i> | | |
| July | | | | | | | | <i>1.19</i> | <i>.60</i> | <i>3.17</i> | | |
| August | | | | | | | | <i>5.07</i> | <i>.58</i> | <i>1.34</i> | | |
| September ... | | | | | | | | <i>2.22</i> | <i>5.59</i> | <i>1.35</i> | | |
| October | | | | | | | | <i>2.09</i> | <i>5.15</i> | <i>6.07</i> | | |
| November ... | | | | | | | | <i>3.00</i> | <i>2.10</i> | <i>3.69</i> | | |
| December | | | | | | | | <i>.45</i> | <i>1.38</i> | <i>1.03</i> | | |
| TOTALS..... | | | | | | | | <i>33.78</i> | <i>35.32</i> | <i>31.21</i> | | |

C C C

RAINFALL AT Crombie Reservoir

Lat.....

Lon.....

County of...

Forfar

Rain Gauge, by.....

Observer

M. Mackenzie Esq. Dundee W.

S. Lk - 3.

| Diameter | 11 | . | | | | | | | | | | |
|----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--|
| Height | 3 | . | 4 | | 3 | | . | . | . | . | | |
| Altitude | 522 | . | 525 | | 522 | | . | . | . | . | | |
| YEAR | 1870 | 1871 | 1872 | 1873 | 1874 | 1875 | 1876 | 1877 | 1878 | 1879 | MEANS. | |
| January..... | 2.21 | 2.50 | 4.67 | 3.61 | 3.00 | 7.00 | 1.67 | 6.06 | 3.22 | 2.68 | 3.662 | |
| February | 2.67 | 4.51 | 6.43 | 1.39 | 1.15 | 3.20 | 6.26 | 2.17 | 2.00 | 4.75 | 3.447 | |
| March | 1.06 | .98 | 3.60 | 2.46 | 1.29 | 2.44 | 3.19 | 2.88 | 1.13 | 3.10 | 2.213 | |
| April | .48 | 7.00 | 2.92 | .98 | 1.05 | 1.08 | 4.97 | 3.85 | 2.39 | 3.68 | 2.777 | |
| May | 1.96 | 1.19 | 3.83 | 3.71 | 4.00 | 1.33 | .68 | 3.31 | 2.70 | 2.60 | 2.531 | |
| June..... | 1.96 | 2.80 | 4.29 | 1.33 | 1.27 | 4.46 | 3.00 | 3.78 | 4.18 | 5.42 | 3.271 | |
| July | 1.54 | 5.00 | 1.79 | 5.24 | 2.40 | 3.19 | 1.63 | 5.23 | 1.05 | 6.11 | 3.318 | |
| August..... | 1.60 | 2.27 | 2.85 | 3.75 | 8.21 | 2.90 | 3.00 | 8.67 | 6.54 | 6.57 | 4.636 | |
| September..... | 3.21 | 2.75 | 4.80 | 5.38 | 3.50 | 4.40 | 5.00 | 2.44 | 3.90 | 2.88 | 3.826 | |
| October..... | 3.54 | 5.29 | 4.13 | 3.18 | 2.89 | 7.78 | 4.68 | 4.75 | 3.39 | .86 | 4.049 | |
| November..... | 2.42 | 3.03 | 5.93 | 2.30 | 3.85 | 6.45 | 7.22 | 4.08 | 2.20 | 2.38 | 3.986 | |
| December..... | 5.25 | 1.75 | 5.08 | 2.27 | 2.90 | 2.98 | 9.50 | 3.70 | 3.19 | 1.26 | 3.788 | |
| TOTALS | 27.90 | 39.07 | 50.32 | 35.76 | 35.51 | 47.21 | 50.80 | 50.92 | 35.89 | 42.86 | 41.504 | |

RAINFALL AT Crombie Reservoir

Lat. _____

Lon. _____

County of Forfar

Rain Gauge, by _____

Observer J. Nation, Esq., C.E.

S. Sk. - 3.

| | | | | | | | | | | | | |
|----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--|
| Diameter | 11 | | | | | | | | | | | |
| Height | 0.3 | | | | | | | | | 3.0 | | |
| Altitude | 522T | | | | | | | | | | | |
| Year | 1880 | 1881 | 1882 | 1883 | 1884 | 1885 | 1886 | 1887 | 1888 | 1889 | MEANS. | |
| January | 2.10 | 1.73 | 1.61 | 3.90 | 3.95 | 2.23 | 5.96 | 2.81 | 3.00 | 1.67 | 2.896 | |
| February | 2.30 | 5.58 | 2.30 | 3.38 | 2.17 | 4.07 | 1.89 | 1.60 | 1.30 | 2.56 | 2.815 | |
| March | 2.41 | 3.79 | 3.21 | 2.86 | 3.71 | 3.09 | 6.24 | 1.79 | 5.09 | 2.05 | 3.424 | |
| April | 3.77 | .48 | 6.56 | 1.92 | 2.60 | 3.13 | 1.45 | 2.55 | 1.32 | 4.69 | 2.847 | |
| May | 1.05 | 2.41 | 2.72 | 1.35 | 2.35 | 5.20 | 3.67 | 1.16 | 1.80 | 1.60 | 2.331 | |
| June | 1.34 | 3.47 | 4.89 | 2.96 | .40 | .72 | 1.36 | .69 | 2.71 | 1.12 | 1.966 | |
| July | 3.76 | 3.40 | 4.90 | 5.13 | 6.00 | 1.24 | 4.48 | 2.20 | 6.40 | 3.27 | 4.078 | |
| August | .75 | 5.54 | 2.72 | 3.86 | 2.79 | 2.74 | 1.50 | 4.86 | 1.96 | 7.91 | 3.463 | |
| September | 3.85 | 5.78 | 4.12 | 2.96 | 2.42 | 3.80 | 2.68 | 3.67 | .54 | .60 | 3.042 | |
| October | 1.63 | 4.98 | 5.51 | 1.97 | 1.91 | 2.25 | 4.88 | .86 | 2.30 | 3.50 | 2.979 | |
| November | 3.43 | 3.74 | 4.35 | 2.44 | 2.27 | 2.42 | 2.46 | 3.80 | 7.19 | 1.03 | 3.310 | |
| December | 2.98 | 3.88 | 6.67 | 1.58 | 3.99 | 1.36 | 2.92 | 2.17 | 3.25 | 1.54 | 3.034 | |
| TOTALS | 30.37 | 44.78 | 49.56 | 34.28 | 34.56 | 32.25 | 39.49 | 28.16 | 36.86 | 31.54 | 36.185 | |

RAINFALL AT *Lombie Reservoir*

Lat. _____

Lon. _____

County of *Forfar*

S. No. - 3.

Rain Gauge, by _____

Observer *J. Watson Esq. C.E.*
G. Baxter Esq.

| | | | | | | | | | | | | |
|---------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--|
| Diameter | 11 | | | | | | | | | | | |
| Height | 0 3 | | | | 3 0 | 0 3 | 3 0 | | | | | |
| Altitude | 522 T | | | | | | | | | | | |
| Year | 1890 | 1891 | 1892 | 1893 | 1894 | 1895 | 1896 | 1897 | 1898 | 1899 | MEANS. | |
| January | 3.28 | 1.50 | 2.60 | 2.25 | 4.05 | 3.90 | 1.00 | 2.12 | 1.45 | 5.10 | 2.725 | |
| February | 1.42 | .29 | 2.70 | 4.32 | 5.14 | 2.25 | 1.20 | .46 | .90 | 3.44 | 2.212 | |
| March | 2.38 | 2.73 | 1.38 | 1.20 | 1.10 | 4.42 | 1.81 | 4.32 | .87 | 2.76 | 2.297 | |
| April | .55 | .85 | .98 | 1.50 | 1.56 | 1.65 | 1.22 | 1.80 | 3.70 | 4.12 | 1.793 | |
| May | 3.05 | 2.45 | 3.25 | 1.65 | 4.46 | .48 | .90 | 1.78 | 2.48 | 4.86 | 2.536 | |
| June | 3.76 | .58 | 4.00 | 2.90 | 2.15 | 1.71 | 2.62 | 5.48 | 1.52 | 1.88 | 2.660 | |
| July | 4.58 | 2.81 | 2.29 | 2.70 | 3.75 | 4.83 | 4.46 | 1.50 | .68 | 2.03 | 2.963 | |
| August | 2.88 | 4.70 | 5.77 | 4.28 | 6.56 | 4.82 | 1.90 | 4.85 | 3.61 | .68 | 4.005 | |
| September.... | 2.67 | 5.96 | 1.72 | 2.78 | .32 | .98 | 5.00 | 1.70 | 1.90 | 4.15 | 2.718 | |
| October | 2.45 | 3.41 | 5.50 | 3.13 | 5.25 | 1.80 | 3.57 | 3.00 | 5.66 | 1.64 | 3.541 | |
| November | 4.80 | 4.47 | 3.08 | 2.04 | 1.73 | 3.55 | 1.03 | 2.86 | 6.22 | 2.85 | 3.263 | |
| December | 2.66 | 4.40 | 1.02 | 2.38 | 2.81 | 4.22 | 8.77 | 4.77 | 2.24 | 6.02 | 3.929 | |
| TOTALS | 34.48 | 34.15 | 34.29 | 31.13 | 38.88 | 34.61 | 33.48 | 34.64 | 31.23 | 39.53 | 34.642 | |

1870-

RAINFALL AT *Brombie Reservoir*

Lat.

Lon.

County of *Forfar*

Rain Gauge, by

Observer *G. Baxter Esq. C.E.*

M S. Sk + C - 3.

| | | | | | | | | | | | |
|--------------|---------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|---------------|
| Diameter .. | <i>11</i> | | | | | | | | | | |
| Height | <i>3.0</i> | | | | | | | | | | |
| Altitude .. | <i>522 ft</i> | | | | | | | | | | |
| Year | 1900 | 1901 | 1902 | 1903 | 1904 | 1905 | 1906 | 1907 | 1908 | 1909 | MEAN. |
| January .. | <i>5.85</i> | <i>2.39</i> | <i>1.30</i> | <i>4.56</i> | <i>2.45</i> | <i>.54</i> | <i>2.94</i> | <i>1.70</i> | <i>2.67</i> | <i>2.71</i> | <i>2.711</i> |
| February .. | <i>4.37</i> | <i>1.90</i> | <i>2.09</i> | <i>4.41</i> | <i>5.59</i> | <i>1.11</i> | <i>1.10</i> | <i>1.44</i> | <i>.84</i> | <i>1.16</i> | <i>2.401</i> |
| March | <i>2.40</i> | <i>2.11</i> | <i>1.45</i> | <i>3.38</i> | <i>2.47</i> | <i>4.37</i> | <i>1.22</i> | <i>1.90</i> | <i>4.44</i> | <i>3.65</i> | <i>2.739</i> |
| April | <i>1.90</i> | <i>2.86</i> | <i>2.62</i> | <i>1.34</i> | <i>2.30</i> | <i>2.33</i> | <i>1.20</i> | <i>2.59</i> | <i>.75</i> | <i>4.20</i> | <i>2.209</i> |
| May | <i>2.25</i> | <i>2.40</i> | <i>3.08</i> | <i>1.86</i> | <i>2.82</i> | <i>1.80</i> | <i>6.50</i> | <i>6.04</i> | <i>2.48</i> | <i>2.79</i> | <i>3.202</i> |
| June | <i>2.12</i> | <i>2.19</i> | <i>1.70</i> | <i>2.22</i> | <i>.66</i> | <i>.93</i> | <i>1.20</i> | <i>5.46</i> | <i>1.25</i> | <i>1.39</i> | <i>1.952</i> |
| July | <i>5.44</i> | <i>1.02</i> | <i>3.30</i> | <i>6.80</i> | <i>1.32</i> | <i>1.68</i> | <i>2.24</i> | <i>2.50</i> | <i>3.12</i> | <i>4.45</i> | <i>5.187</i> |
| August | <i>5.96</i> | <i>6.09</i> | <i>3.18</i> | <i>5.13</i> | <i>6.70</i> | <i>5.13</i> | <i>6.04</i> | <i>4.20</i> | <i>2.31</i> | <i>2.22</i> | <i>4.696</i> |
| September .. | <i>3.76</i> | <i>1.86</i> | <i>1.93</i> | <i>3.60</i> | <i>3.50</i> | <i>2.18</i> | <i>1.40</i> | <i>1.34</i> | <i>6.98</i> | <i>1.57</i> | <i>2.812</i> |
| October | <i>3.44</i> | <i>3.00</i> | <i>1.68</i> | <i>6.97</i> | <i>1.12</i> | <i>2.20</i> | <i>4.50</i> | <i>5.95</i> | <i>4.45</i> | <i>4.54</i> | <i>3.785</i> |
| November .. | <i>6.42</i> | <i>2.12</i> | <i>4.77</i> | <i>1.24</i> | <i>1.05</i> | <i>6.94</i> | <i>5.16</i> | <i>2.15</i> | <i>2.65</i> | <i>.56</i> | <i>3.306</i> |
| December .. | <i>5.10</i> | <i>3.58</i> | <i>4.00</i> | <i>3.30</i> | <i>2.32</i> | <i>1.60</i> | <i>1.90</i> | <i>3.84</i> | <i>1.75</i> | <i>3.53</i> | <i>3.092</i> |
| TOTALS .. | <i>49.01</i> | <i>31.52</i> | <i>31.10</i> | <i>44.81</i> | <i>32.30</i> | <i>30.81</i> | <i>35.40</i> | <i>39.51</i> | <i>33.69</i> | <i>32.77</i> | <i>36.092</i> |

Hub

RAINFALL at Crombie Reservoir

~~5596~~ **10**
5596

County of Forfar Observer G. Baxter Esq. C.E.

River Basin South Esk &c. 3.

Rain Gauge, by _____

M

| | | | | | | | | | | | |
|--------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|
| Diameter ... | 11 | | | | | | | | | 8 | |
| Height | 3 0 | | | | | | | | | | |
| Altitude ... | 522T | | | | | | | | | | |
| Year ... | 1910 | 1911 | 1912 | 1913 | 1914 | 1915 | 1916 | 1917 | 1918 | 1919 | MEANS. |
| January ... | 2.78 | 1.12 | 4.63 | 4.16 | 1.69 | 3.40 | 2.86 | 1.79 | 2.84 | 3.90 | 2.91 |
| February ... | 2.36 | 1.74 | 3.25 | .91 | 3.09 | 5.30 | 3.32 | 1.84 | 2.37 | 2.58 | 2.67 |
| March | 1.81 | 1.01 | 2.83 | 3.96 | 4.64 | 1.64 | 3.14 | 2.04 | 1.63 | 1.95 | 2.46 |
| April | 3.00 | 1.39 | .03 | 2.98 | 1.03 | .81 | 2.50 | 1.22 | .93 | 2.10 | 1.59 |
| May | 1.68 | 1.16 | 1.49 | 3.85 | 1.62 | 1.23 | 3.59 | 2.29 | 3.75 | 1.16 | 2.18 |
| June | 1.52 | .96 | 3.38 | 1.55 | .44 | 1.10 | 3.71 | .98 | .91 | 1.57 | 1.61 |
| July | 5.09 | 1.66 | 2.95 | .45 | 2.78 | 4.17 | 7.98 | 1.98 | 4.31 | .50 | 3.21 |
| August | 7.87 | 1.47 | 3.97 | 1.34 | 3.36 | 2.16 | 4.64 | 6.34 | 2.80 | 2.58 | 3.65 |
| September .. | .94 | 1.30 | 1.25 | 3.19 | .62 | 1.80 | 1.61 | 2.31 | 4.15 | 1.50 | 1.86 |
| October ... | 1.96 | 2.44 | 6.89 | 2.15 | 3.68 | 3.62 | 5.23 | 3.33 | 2.72 | 2.50 | 3.45 |
| November .. | 3.90 | 3.85 | 1.88 | 2.55 | 4.00 | 2.31 | 4.29 | 2.90 | 2.18 | 5.20 | 3.30 |
| December ... | 4.21 | 5.98 | 3.80 | 1.24 | 5.51 | 7.93 | 5.41 | 1.26 | 2.50 | 5.90 | 4.37 |
| TOTALS ... | 37.12 | 24.08 | 36.35 | 28.34 | 32.46 | 35.47 | 48.28 | 28.28 | 31.09 | 31.74 | 33.32 |

| Date. | Lat. N. | Long. | Railway Station. | Distance. | Direction. | Church. | Distance. | Direction. |
|-------|-------------|------------|------------------|-----------|------------|---------|-----------|------------|
| 1919 | 56° 33' 10" | 2° 46' 30" | Monikie | 2 1/4 m. | S.W. | Monikie | 1 1/2 mi | S.W. |

RAINFALL at Monikie, Grange ReservoirCounty of ForfarObserver G. Baxter Esq. C.E.River Basin South Esk & C. 3.

M.O. Rain Gauge, by

Taken from old g.

| | | | | | | | | | | | | |
|---------------|------|------|------|------|-------|------|------|------|------|------|----------------|-------|
| Diameter ... | | | | | | | | 5 | | | | |
| Height | | | | | | | | 1.0 | | | | |
| Altitude ... | | | | | | | | 522 | | | | |
| Year | 1920 | 1921 | 1922 | 1923 | 1924 | 1925 | 1926 | 1927 | 1928 | 1929 | 1930. MEAN. | SUMS |
| January ... | 320 | 303 | 525 | 238 | 375 | 244 | 570 | 218 | 614 | 1.69 | 249 | 3825 |
| February ... | 260 | 56 | 360 | 648 | 155 | 490 | 645 | 179 | 151 | 2.96 | 171 | 3411 |
| March | 215 | 277 | 270 | 203 | 111 | 135 | 160 | 339 | 531 | 56 | 183 | 2480 |
| April | 185 | 130 | 200 | 300 | 221 | 432 | 335 | 105 | 107 | 1.91 | 251 | 2457 |
| May | 387 | 300 | 114 | 236 | 505 | 424 | 242 | 277 | 175 | 2.96 | 187 | 3143 |
| June | 115 | 56 | 250 | 79 | 230 | 63 | 360 | 270 | 417 | 1.96 | 259 | 2295 |
| July | 270 | 203 | 440 | 251 | 600 | 162 | 342 | 205 | 143 | 4.67 | 261 | 3344 |
| August | 445 | 367 | 214 | 600 | 365 | 278 | 244 | 424 | 524 | 4.89 | 715 | 4708 |
| September... | 242 | 160 | 282 | 304 | 456 | 420 | 398 | 617 | 270 | 64 | 667 | 3880 |
| October | 334 | 215 | 190 | 320 | 535 | 285 | 573 | 625 | 441 | 3.42 | 411 | 4271 |
| November... | 295 | 320 | 280 | 237 | (270) | 158 | 582 | 265 | 389 | 4.42 | 431 | 3669 |
| December... | 510 | 180 | 212 | 390 | 380 | 275 | 32 | 331 | 320 | 5.02 | 341 | 3473 |
| TOTALS... | 3578 | 2567 | 3337 | 3806 | 4203 | 3366 | 4483 | 3875 | 4105 | 3510 | 4126 | 40956 |

1928. Trees 30 ft. high 50 ft. S.W.

Shading 15" " " " E.

1930 File 5562 Encl 37A. Obs. says "gauge abandoned"

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 |
|-------|---------|-------|------------------|---------------------|-----------|----------------|---------------------|-----------|
| 1927 | | | Monikie | 1 1/2 mi | S.W. | Monikie | 1 1/2 mi | S.S.W. |

Monkrie,
RAINFALL at Grombie Reservoir (O.D.)

County of FifeObserver G. Baxter Esq. G.E.River Basin South Esk & C. 3.Water Eng Dundee

Rain Gauge, by _____

Probably W.D. Letter G. 1-24

| Diameter ... | 8 | | | 8 | | | | | | | | |
|---------------|-------|-------|-------|-------|---------|-------|-------|-------|-------|-------|-----------------|-------|
| Height | 3.0 | | | 3.0 | | | | | | | | |
| Altitude ... | 522 | | | 522 | | | | | | | | |
| Year | 1920 | 1921 | 1922 | 1923 | 1924 | 1925 | 1926 | 1927 | 1928 | 1929 | 1930. Means. | |
| January ... | 3.20 | 5.03 | 5.25 | 2.38 | 5.45 | 2.44 | 5.70 | 2.25 | 6.00 | 1.70 | 5.30 | 3900 |
| February ... | 2.60 | 5.6 | 3.60 | 6.48 | 1.55 | 4.90 | 6.45 | 2.20 | 1.50 | 2.45 | 1.75 | 3404 |
| March | 2.15 | 2.77 | 2.70 | 2.03 | 1.11 | 1.35 | 1.60 | 3.50 | 5.20 | 2.00 | 2.00 | 2641 |
| April | 1.85 | 1.30 | 2.00 | 3.00 | 2.21 | 4.32 | 3.35 | 1.30 | 1.10 | .45 | 2.50 | 2338 |
| May | 3.87 | 3.00 | 1.14 | 2.36 | 5.05 | 4.24 | 2.42 | 2.70 | 1.65 | 3.20 | 1.80 | 3143 |
| June | 1.15 | 5.6 | 2.50 | .79 | 2.30 | .63 | 3.60 | 2.62 | 4.30 | 1.82 | 2.20 | 2258 |
| July | 2.70 | 2.03 | 4.40 | 2.51 | 6.00 | 1.62 | 3.42 | 2.10 | 1.50 | 4.60 | 2.60 | 3348 |
| August | 4.45 | 3.67 | 2.14 | 6.00 | 3.65 | 2.78 | 2.44 | 4.65 | 5.20 | 4.70 | 7.10 | 4678 |
| September... | 2.42 | 1.60 | 2.82 | 3.04 | 4.56 | 4.20 | 3.98 | 6.65 | 2.80 | .55 | 7.00 | 3962 |
| October | 3.34 | 2.15 | 1.90 | 3.20 | 5.35 | 2.85 | 5.73 | 7.00 | 4.30 | 3.20 | 3.85 | 4287 |
| November... | 2.95 | 3.20 | 2.80 | 2.37 | (2.70) | 1.58 | 5.82 | 2.68 | 3.90 | 4.20 | 4.30 | 3650 |
| December... | 5.10 | 1.80 | 2.12 | 3.90 | 3.90 | 2.75 | .32 | 3.50 | 3.00 | 4.85 | 3.30 | 3444 |
| TOTALS... | 35.78 | 25.67 | 33.37 | 38.06 | (42.03) | 33.66 | 44.83 | 41.21 | 40.25 | 33.72 | 41.70 | 41068 |

1924. Corrected by map.

1928. not printed, check gauge

1930. File 5562 encl. 37A Obs. says "gauge abandoned."

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 from gauge | Parish Church. | Distance from gauge | Direction from gauge |
|-------|-------------|------------|------------------|---------------------|----------------------|----------------|---------------------|----------------------|
| 1920 | 56° 33' 10" | 2° 46' 30" | Monkrie | 17/8 mi | S.W. | Monkrie 1/2 | 17/8 mi | S.W. |

RAINFALL at *Monkie (Crombie Reservoir)*County of *Angus (Forfar)*Observer *G. Baxter, C.E.*River Basin *S. South Esk & C.**D. A. Fulton, Eng. C.E.*Type of Gauge *M.O.*Annual Average *35.2* in. based on *35* years obs. un-weighted. Period of average *1881-1915* Ref. *S.**Ar. W.S.*

| | | | | | | | | | | | |
|-----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----------------|
| Diameter | 5. | | | | | | | | | | |
| Height | 1. 0 | | | | | | | | | | |
| Altitude | 522 | 528 | | | | | | | | | |
| Year | 1931 | 1932 | 1933 | 1934 | 1935 | 1936 | 1937 | 1938 | 1939 | 1940 | 54 MS Means |
| January | 3.44 | 2.53 | 2.24 | 2.11 | 1.11 | 5.63 | 4.81 | 4.72 | 4.43 | 2.49 | 33.51 |
| February | 1.87 | .22 | 2.88 | .10 | 2.24 | 4.47 | 4.24 | .98 | 2.55 | 1.98 | 21.53 |
| March | 1.62 | 3.38 | 2.58 | 3.83 | 1.77 | 3.54 | 4.62 | .46 | 2.75 | 3.48 | 28.03 |
| April | 3.57 | 2.80 | 2.04 | 6.21 | 4.34 | .79 | 2.77 | .54 | .96 | 2.60 | 26.62 |
| May | 3.33 | 3.82 | 1.92 | 2.64 | .92 | 2.17 | 2.55 | 4.39 | 1.54 | 1.23 | 24.51 |
| June | 3.59 | 1.37 | 1.55 | 1.00 | 4.55 | 1.02 | 2.67 | 3.89 | 1.56 | .40 | 21.60 |
| July | 5.24 | 4.44 | 3.61 | 2.98 | 1.39 | 3.48 | 4.02 | 4.83 | 4.80 | 4.81 | 39.60 |
| August | 3.23 | .76 | 1.09 | 4.58 | 1.94 | 1.63 | 3.65 | 1.31 | 1.59 | .94 | 20.72 |
| September | 1.16 | 2.79 | 1.49 | 3.52 | 4.89 | 4.11 | 1.47 | 3.78 | 1.83 | 2.07 | 27.11 |
| October | 1.03 | 7.48 | 4.23 | 4.10 | 5.58 | 1.64 | 3.21 | 3.80 | 4.95 | 5.77 | 41.79 |
| November | 6.02 | 1.87 | 2.89 | 1.14 | 5.66 | 2.20 | .89 | 4.56 | 6.00 | 6.18 | 37.41 |
| December | 1.28 | 3.93 | 1.56 | 6.02 | 2.91 | 2.50 | 4.40 | 4.63 | 1.71 | 1.92 | 30.86 |
| TOTALS | 35.38 | 35.89 | 28.08 | 38.23 | 37.30 | 33.18 | 39.30 | 37.89 | 34.67 | 33.87 | 33.29 |
| | D | D | D | D | D | D | D | D | D | D | D |

a record from a double gauge - It is moved in M.O. Edn 27/4/42

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 from gauge | Parish Church. | Distance from gauge | Direction from gauge |
|-------|---------|-------|------------------|---------------------|----------------------|----------------|---------------------|----------------------|
| 1931. | | | Monkie | 1 3/4 m. | S.W. | Monkie | 1 1/2 m. | S. S.W. |

RAINFALL at Monie (Crombie Res.) Station No. 5596 41County of Angus (Forfar) Observer A.A. Fulton Esq. C.E.River Basin 3 - South Esk & C. R.H. Cockburn Esq. C.E. (1944)Type of Gauge (M) R. Little Esq. C.E. 1947Annual Average 35.2 in. based on 35 years obs. ~~un~~-weighted. Period of average 1881 - 1916 Ref. S

File No.

| Diameter | 5" | | | | | 8.58 | 3.10 | | | | | |
|-----------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|-------|
| Height | 1'0" | | | | | | 1 | | | | | |
| Altitude | 528' | | | | | | 41 | | | | | |
| Year | 1941 | 1942 | 1943 | 1944 | 1945 | 1946 | 1947 | 1948 | 1949 | 1950 | Sums | Means |
| January | 365 | 5.19 | 4.32 | 1.59 | 4.89 | 2.20 | 3.99 | 5.00 | 1.28 | 1.41 | 33.52 | |
| February | 574 | 2.25 | 1.12 | 1.04 | 2.62 | 1.51 | 4.42 | 3.50 | 1.54 | 2.29 | 26.06 | |
| March | 230 | 3.04 | 0.61 | .58 | 1.10 | 2.29 | 4.54 | .83 | 1.82 | 2.92 | 20.03 | |
| April | 274 | 1.74 | 1.56 | 2.89 | 1.71 | .42 | 2.75 | 1.20 | 2.14 | 1.68 | 18.83 | |
| May | 229 | 4.09 | 4.12 | 2.21 | 4.76 | 2.01 | 5.03 | 3.55 | 1.41 | 1.76 | 31.23 | |
| June | 111 | 1.13 | 2.75 | 2.64 | 3.50 | 4.68 | 3.15 | 4.18 | 1.40 | 1.23 | 25.77 | |
| July | 317 | 3.21 | 2.22 | 3.32 | 2.97 | 3.82 | 1.69 | 3.26 | 2.19 | 4.99 | 31.04 | |
| August | 342 | 3.45 | 6.14 | 1.63 | 3.63 | 3.99 | .27 | 8.15 | 2.89 | 3.83 | 37.40 | |
| September | 0.96 | 3.35 | 3.42 | 2.65 | 3.89 | 4.90 | 2.65 | 2.65 | 1.77 | 6.20 | 31.94 | |
| October | 503 | 2.44 | 3.01 | 4.53 | 5.64 | .54 | 2.00 | 3.54 | 4.35 | 1.20 | 32.28 | |
| November | 470 | 0.61 | 1.42 | 4.46 | 1.80 | 7.99 | 2.34 | 1.28 | 4.67 | 3.65 | 32.92 | |
| December | 1.23 | 2.91 | 1.60 | 2.96 | 5.99 | 3.19 | 1.67 | 3.80 | 2.53 | 1.57 | 27.50 | |
| TOTALS | 3639 | 33.41 | 32.22 | 30.73 | 42.00 | 37.54 | 34.50 | 40.94 | 27.99 | 22.73 | 348.52 | |

27.442. Record from a chain gauge is received in H.O. Edinburgh

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 |
|-------|---------|-------|------------------|---------------------|-----------|----------------|----------------------|-----------|
| | | | | | | | | |

BRITISH RAINFALL ORGANIZATION

Station No. 5596/1RAINFALL at monkies (Granville Reservoir)

41

County of Angus (Forfar)Observer B. H. Gathbertson Esq. C.E.River Basin 3-South Esk & C.R. Letter Esq. 1947.

Type of Gauge.....

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

File No.

| | | | | | | | | | | | |
|----------------|------|------|------|------|------|-------|--------|-------|-------|-------|-------|
| Diameter | | | | | | | 8.58 | 3.09 | | | |
| Height | | | | | | | | 1 | | | |
| Altitude | | | | | | 528' | | 41 | | | |
| Year | 1941 | 1942 | 1943 | 1944 | 1945 | 1946 | 1947 | 1948 | 1949 | 1950 | Means |
| January | | | | | | 2.20 | 3.90 | 5.00 | 1.33 | 1.35 | |
| February | | | | | | 1.51 | 4.40 | 3.39 | 1.60 | 2.30 | |
| March | | | | | | 2.50 | (4.50) | 0.80 | 1.80 | 2.87 | |
| April | | | | | | 0.42 | 2.58 | 1.05 | 2.00 | 1.90 | |
| May | | | | | | 1.90 | 4.90 | 3.41 | 1.40 | 1.68 | |
| June | | | | | | 4.40 | 2.80 | 4.10 | 1.37 | 1.40 | |
| July | | | | | | 3.20 | 1.60 | 3.30 | 2.10 | 4.80 | |
| August | | | | | | 3.90 | 0.29 | 8.00 | 2.90 | 3.80 | |
| September | | | | | | 4.71 | 2.51 | 2.40 | 1.70 | 6.20 | |
| October | | | | | | 0.47 | 1.98 | 3.51 | 4.30 | 1.51 | |
| November | | | | | | 7.90 | 2.43 | 1.30 | 4.45 | 3.75 | |
| December | | | | | | 3.00 | 1.72 | 3.81 | 2.52 | 1.69 | |
| TOTALS | | | | | | 36.11 | 33.61 | 40.07 | 27.47 | 33.25 | |

1946. n.p. check.

10004

1947 Mar. est. agreed by engineer.

1948 n.p. check.

1949. n.p. check.

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 Monikie (Shrombie Res.) Station No. 5596 51
 County of Angus (Forfar) Observer G. R. Little Esq. C.E.
 River Basin South Esk & L. 3
 Type of Gauge M.O.

Annual Average 35.2 in. based on 35 years obs. un-weighted. Period of average 1881-1915 Ref. S
35.74 " " " " 1916-1950 1916-1950 P
 File No. 1916-1950

| | | | | | | | | | | | | |
|---------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--|
| Diameter ... | 5 5" | | | | 858 | 310 | | | | | | |
| Height ... | 1' 6" | | | | | 1 | | | | | | |
| Altitude ... | 528' | | | | | 5' | | | | | | |
| Year ... | 1951 | 1952 | 1953 | 1954 | 1955 | 1956 | 1957 | 1958 | 1959 | 1960 | Means | |
| January ... | 4.41 | 1.64 | 0.53 | 1.70 | 1.45 | 3.56 | 3.11 | 2.63 | 1.24 | 5.71 | | |
| February ... | 3.14 | 0.43 | 0.93 | 3.23 | 2.10 | 1.62 | 4.09 | 2.57 | 0.15 | 2.83 | | |
| March ... | 2.99 | 3.70 | 0.32 | 2.97 | 2.10 | 1.58 | 2.80 | 7.32 | 1.53 | 2.83 | | |
| April ... | 2.51 | 0.97 | 2.84 | 1.20 | .92 | .95 | 1.06 | 2.29 | 2.99 | 2.72 | | |
| May ... | 1.99 | 2.60 | 2.16 | 3.39 | 2.13 | .73 | 2.03 | 2.93 | 1.08 | 1.39 | | |
| June ... | 2.36 | 2.38 | 1.23 | 2.45 | .85 | 4.12 | .94 | 2.02 | 2.52 | 2.60 | | |
| July ... | 3.64 | 1.84 | 3.82 | 2.60 | 1.09 | 5.26 | 5.06 | 5.53 | 2.39 | 3.25 | | |
| August ... | 4.21 | 4.59 | 1.80 | 2.97 | .20 | 5.47 | 4.82 | 2.86 | 0.62 | 4.38 | | |
| September ... | 2.33 | 1.08 | 2.70 | 3.18 | 1.24 | 4.58 | 2.30 | 3.00 | 6.59 | 2.59 | | |
| October ... | 0.65 | 2.51 | 1.45 | 6.49 | 2.10 | 1.58 | 2.04 | 2.11 | 2.79 | 8.43 | | |
| November ... | 9.41 | 2.39 | 2.74 | 5.33 | 2.33 | .73 | 1.64 | .96 | 5.60 | 4.44 | | |
| December ... | 2.28 | 2.44 | 3.78 | 3.36 | 6.52 | 3.43 | 5.20 | 5.34 | 6.23 | 2.35 | | |
| TOTALS ... | 39.92 | 26.57 | 24.30 | 38.87 | 23.03 | 33.61 | 35.09 | 39.56 | 27.73 | 43.52 | | |
| | D | D | D | D | D | D | D | D | D | D | | |

Position of Station on Ordnance One-Inch map : No. of Map..... National Grid Reference No. (37) 524 404 2

| 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 |
|----------------|---------|----------------------|---------|---------|---------|
| | ✓ | ✓ 1920-30 | ✓ | ✓ | ✓ |
| | - | ✓ | ✓ | ✓ | ✓ |

Station No. 5596/1

RAINFALL at Monikie (Lambie Reservoir)

51

County of Angus (Forfar)

Observer G. R. Little Esq. C.E.

River Basin South Esk & Co.

Type of Gauge

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

File No.

| | | | | | | | | | | | |
|---------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Diameter ... | — | | | | 858 | 309 | | | | | |
| Height ... | — | | | | | 1 | | | | | |
| Altitude ... | 528' | | | | | 5' | | | | | |
| Year ... | 1951 | 1952 | 1953 | 1954 | 1955 | 1956 | 1957 | 1958 | 1959 | 1960 | Means |
| January ... | 4.15 | 1.50 | 0.70 | 1.45 | 1.59 | 3.30 | 3.10 | 2.80 | 1.30 | 5.50 | |
| February ... | 3.10 | 0.58 | 0.99 | 3.20 | 2.16 | 1.65 | 4.20 | 2.30 | 0.35 | 2.79 | |
| March ... | 2.90 | 3.50 | 0.30 | 2.88 | 2.00 | 1.67 | 2.75 | 7.49 | 1.50 | 2.80 | |
| April ... | 2.80 | 0.91 | 2.75 | 1.00 | .90 | .97 | .95 | 2.30 | 3.10 | 2.72 | |
| May ... | 1.70 | 2.68 | 2.15 | 3.37 | 2.15 | .70 | 2.10 | 3.00 | 1.08 | 1.39 | |
| June ... | 2.45 | 2.00 | 1.35 | 2.49 | .85 | 4.20 | 1.00 | 2.20 | 2.60 | 2.60 | |
| July ... | 2.45 | 1.90 | 3.80 | 2.80 | 1.00 | 5.29 | 5.05 | 5.51 | 2.39 | 3.29 | |
| August ... | 4.19 | 4.68 | 2.02 | 3.00 | .20 | 5.60 | 4.85 | 2.95 | 0.65 | 4.60 | |
| September ... | 2.30 | 1.19 | 2.69 | 3.40 | 1.39 | 4.70 | 2.30 | 3.14 | 0.60 | 2.51 | |
| October ... | 0.58 | 2.48 | 1.50 | 5.50 | 2.00 | 1.59 | 2.00 | 2.20 | 2.80 | 8.80 | |
| November ... | 9.00 | 2.20 | 2.50 | 5.10 | 2.34 | .80 | 1.65 | 1.00 | 5.90 | 4.45 | |
| December ... | 2.30 | 2.44 | 3.60 | 3.50 | 6.57 | 3.60 | 5.10 | 5.30 | 5.50 | 2.31 | |
| TOTALS ... | 38.92 | 26.06 | 24.35 | 37.69 | 23.15 | 34.27 | 35.05 | 40.19 | 27.77 | 43.76 | |
| | NP | n.p. | n.p. | n.p. | NP. | NP | NP | n.p. | n.p. | n.p. | |

1951 n.p. check
 1952 n.p. check
 1953 n.p. check.
 1954 n.p. check.
 1955 n.p. check.
 1958 n.p. check
 1959 n.p. check.
 1960 n.p. check.

Position of Station on Ordnance One-Inch map : No. of Map National Grid Reference

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

Summary of Earlier Records from 10-year Sheets :

| Record D, or d | 1910-19 | 1920-30 | 1931-40 | 1941-50 | 1951-60 |
|----------------|---------|---------|---------|-----------|---------|
| | | | | Comp 1946 | Jan |