

RAINFALL AT *Dinsdale Rectory*

Rev John W Smith

Rain { By
Gauge { Diameter.....*5*.....in.

Height above Ground, *1*.... ft. *6*.. in.

Above Mean Sea Level, *135*.... ft.

50 64 8 60 6

YEAR	1860	1861	1862	1863	1864	1865	1866	1867	1868	1869	MEANS.
January						<i>0.60</i>	<i>1.94</i>	<i>3.56</i>	<i>2.37</i>	<i>3.08</i>	
February						<i>1.25</i>	<i>1.54</i>	<i>1.45</i>	<i>.83</i>	<i>1.69</i>	
March						<i>1.34</i>	<i>2.37</i>	<i>2.19</i>	<i>1.49</i>	<i>1.82</i>	
April						<i>1.39</i>	<i>2.52</i>	<i>3.36</i>	<i>1.95</i>	<i>1.26</i>	
May						<i>2.75</i>	<i>.82</i>	<i>2.32</i>	<i>1.25</i>	<i>3.27</i>	
June						<i>.17</i>	<i>2.20</i>	<i>1.76</i>	<i>.36</i>	<i>1.14</i>	
July						<i>1.32</i>	<i>4.68</i>	<i>2.95</i>	<i>1.32</i>	<i>.81</i>	
August						<i>4.13</i>	<i>2.94</i>	<i>3.26</i>	<i>2.33</i>	<i>1.48</i>	
September ...						<i>.27</i>	<i>4.23</i>	<i>1.75</i>	<i>3.14</i>	<i>3.35</i>	
October						<i>5.10</i>	<i>2.26</i>	<i>1.26</i>	<i>2.27</i>	<i>2.57</i>	
November ...						<i>2.91</i>	<i>1.58</i>	<i>.85</i>	<i>1.85</i>	<i>2.47</i>	
December						<i>1.27</i>	<i>2.17</i>	<i>1.95</i>	<i>5.80</i>	<i>3.38</i>	
TOTALS						<i>22.50</i>	<i>29.25</i>	<i>26.66</i>	<i>24.96</i>	<i>26.32</i>	

1865 G in centre of a large garden open to N & E sheltered by shrubs at a distance of 20 yards from the S
Gauge tested by Mr. Glaisher in March 1866 & found correct

RAINFALL AT Garm Eaglescliffe Rectory

Rev John Hall

Rain { By CasellaGauge { Diameter 5 in.Height above Ground, 1 ft. in.Above Mean Sea Level, 80 ft.

YEAR.....							1866	1867	1868	1869	MEANS.
January							[*] 1.32	3.29	1.56	2.13	
February							1.18	.73	.68	1.25	
March							2.40	1.85	.97	1.41	
April							2.36	2.75	1.61	.95	
May77	2.42	.89	2.63	
June							2.06	1.34	.42	1.26	
July							4.60	2.54	1.04	1.68	
August							3.44	2.71	2.71	1.29	
September ...							3.21	1.42	2.80	3.02	
October							1.65	1.02	1.78	2.89	
November							1.67	.92	1.58	2.38	
December							1.81	2.06	4.34	2.85	
TOTALS							26.47	23.05	20.38	23.74	

c c c c

1868 On a lawn

RAINFALL AT *Darlington Southend*
Durham

Observer.....

Rain { By.....
Gauge { *C. Laishers's gauge.*
Diameter.....*8*.....in. Height above Ground,.....ft.....in. Above Mean Sea Level.....ft.

YEAR.....	1860	1861	1862	1863	1864	1865	1866	1867	1868	1869	MEANS.
January.....											
February											
March										<i>#1.72</i>	
April.....										<i>1.20</i>	
May										<i>3.35</i>	
June.....										<i>1.33</i>	
July										<i>1.03</i>	
August										<i>1.48</i>	
September.....										<i>4.11</i>	
October											
November.....											
December											
TOTALS											

Gauge started in accordance with note on preceding sheet.

RAINFALL AT Darlington

Brinkburn Gardens

Observer...H. Ward..... Per...Mrs R. S. Wheeler

Rain { By.....
Gauge {
Diameter...0.....in.

Height above Ground...1.....ft.....in.

Above Mean Sea Level...51.....ft.

YEAR.....										1869	MEANS.
January.....										2.85	
February										1.28	
March										1.65	
April.....										1.20	
May										3.05	
June.....										1.25	
July										1.00	
August.....										1.55	
September.....										4.02	
October										2.80	
November.....										2.25	
December										2.85	
TOTALS										25.75	

C

Stubb House, Winston Durham.

Barnard Castle

Thos. Dodgson Esqr

Mps Plot No. 16,

Diam: 5 in ; + ground ⁱⁿ 9. ; + Sea level 460 ft

YEAR - -	1860	1861	1862	1863	1864	1865	1866	1867	1868	1869	MEANS.
January - -	1.74	.78	2.00	4.15	1.53	1.12	2.64	2.96			
February - -	.86	2.01	.99	.04	1.58	1.33	2.16	1.34			
March - - -	2.59	2.19	4.11	1.75	3.39	1.20	2.30	1.92			
April - - -	1.16	1.57	1.88	.74	1.08	1.10	2.24	2.27			
May - - - -	1.81	.34	2.72	1.32	1.25	3.24	.67	2.16			
June - - - -	5.78	1.93	2.19	3.20	1.71	.90	2.72	1.08			
July - - - -	2.87	3.30	3.20	1.05	.51	2.17	3.73	2.65			
August - - -	3.78	1.66	1.92	3.37	1.55	4.53	2.67	2.07			
September -	1.35	2.83	1.10	2.29	1.79	.16	4.83	1.28			
October - -	2.07	1.25	2.90	3.63	5.12	6.54	1.12	1.03			
November -	2.87	5.11	1.01	2.35	2.20	2.01	1.99	0.00			
December -	4.20	1.63	1.82	1.56	2.55	2.35	2.26	1.89			
TOTALS -	30.28	24.54	25.84	26.25	24.26	26.73	29.33	20.65			

✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓

Long Newton, Darlington

J H Dyke

+ Ground 2 ft 3

+ Sea Level 147 ft

YEAR - -	1860	1861	1862	1863	1864	1865	1866	1867	1868	1869	MEANS.
January - -						^{10th} #1.15					
February - -						1.09					
March - - -						1.45					
April - - -						1.30					
May - - - -						3.71					
June - - - -						.70					
July - - - -						1.28					
August - - -						4.26					
September -						.35					
October - -						5.06					
November -						2.63					
December -						1.23					
TOTALS -						25.01					

C

Gauge only started on 10th Sept. .50 added
for the missing time

RAINFALL AT Gainsford

Observer..... Atkinson

Rain { By.....

Gauge {
Diameter..... 5.....in.

Height above Ground, 7.....ft.....in.

Above Mean Sea Level..... 250.....ft.

YEAR.....												MEANS.
										1868	1869	
January.....										# 2.33	3.31	
February66	1.40	
March61	2.07	
April.....										2.60	1.54	
May										1.02	3.49	
June.....										.22	1.01	
July79	.45	
August.....										3.07	1.45	
September.....										5.12	3.89	
October										1.71	1.92	
November.....										2.53	2.70	
December.....										5.47	3.52	
TOTALS										26.13	26.75	

L. fixed level with top of reach house.
G. started in 1866 but badly kept

RAINFALL AT Stockton on Tees

Geo. Alexander

Rain { By

Gauge { Diameter 1.2 in. Height above Ground, 9 ft. in. Above Mean Sea Level, 40 ft.

YEAR.....							1866	1867	1868	1869	MEANS.
January							7.61				
February							1.08				
March							2.50				
April							3.24				
May90				
June							1.55				
July							5.25				
August							2.75				
September ...							3.60				
October							1.83				
November							2.10				
December							1.93				
TOTALS							28.34				

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RAINFALL AT Stockton on Ice

Observer... W. B. Baker

Rain { By.....

Gauge { Diameter.....in.

Height above Ground, 10 ft.....in.

Above Mean Sea Level, 30 ft.

YEAR.....									1868	1869	MEANS.
January.....								#	1.63		
February									1.08		
March									1.40		
April									1.70		
May76		
June41		
July82		
August									1.56		
September.....									2.88		
October									1.41		
November.....									1.30		
December									2.90		
TOTALS									17.85		

1868 Jan Wind 25 days W out of 31

May " 24 " " 31

June " 22 " " 30

July 16 " " 31

Aug: 16 " " 31

103

154

103

51

July 15th 92° in shade

Aug 2nd 90° "

Rainfall at Sedgefield
Durham

Robert Smith M.D.

Diameter of Gauge, 5..... in.

Height above Ground, ft. 7.... in.

Above Mean Sea Level, ... 360... ft.

YEAR - -					1864	1865	1866	1867	1868	1869	MEANS.
January - -					46	1.42	1.82	3.91	2.31	1.44	
February - -					1.58	1.25	1.81	.92	1.11	2.08	
March - - -					2.82	1.88	2.46	2.42	1.33	1.69	
April - - - -					1.77	1.06	2.60	2.37	3.10	1.55	
May - - - - -					1.63	3.55	1.22	2.27	1.17	3.35	
June - - - - -					2.20	.78	2.23	1.39	.40	1.00	
July - - - - -					1.01	1.68	5.07	3.01	.80	1.72	
August - - -					1.33	3.27	3.26	2.70	2.57	2.55	
September - -					1.58	.30	4.73	2.01	4.32	3.68	
October - - -					5.76	6.03	1.65	1.45	2.07	2.84	
November - -					1.90	2.67	1.83	.89	2.11	2.13	
December - -					2.28	1.68	2.00	2.17	5.55	3.11	
TOTALS -					24.32	25.57	30.69	25.51	26.84	27.14	

c c c c c c

15 yards to South of a three storied House

RAINFALL AT *Danvers County, Vermont Sedgefield*

Observer...*Robert Smith Esq. M.D.*

Rain { By.....

Gauge {
Diameter.....*5*.....in.

Height above Ground,.....ft..*10*.....in.

Above Mean Sea Level..*360*..ft.

YEAR.....	1860	1861	1862	1863	1864	1865	1866	1867	1868	1869	MEANS.
January.....										<i>1.58</i>	
February										<i>2.21</i>	
March										<i>1.95</i>	
April.....										<i>1.62</i>	
May										<i>3.74</i>	
June.....										<i>1.17</i>	
July										<i>1.72</i>	
August.....										<i>2.63</i>	
September.....										<i>3.81</i>	
October										<i>2.96</i>	
November.....										<i>2.25</i>	
December										<i>3.24</i>	
TOTALS										<i>28.88</i>	

The funnel of this gauge does not fit tight and is blown about by the wind.

RAINFALL AT Hurworth (Burn Res)

Lat. _____ Lon. _____ County of Durham

Rain Gauge, by _____ Observer Hartlepool Gas & Water Co.

Diameter.											
Height.											
Altitude.											
Year	1860	1861	1862	1863	1864	1865	1866	1867	1868	1869	MEANS.
January.								5.78	2.79	1.39	
February.89	1.05	2.50	
March.								2.24	1.36	2.40	
April.								2.14	3.46	1.35	
May.								2.37	1.36	3.27	
June.								1.33	.39	1.32	
July.								2.73	.85	1.20	
August.								2.98	3.20	1.88	
September.								2.07	5.07	4.29	
October.								1.38	2.53	4.37	
November.83	2.35	3.43	
December.								2.93	5.22	4.93	
TOTALS.								27.67	29.63	32.33	

Using an average of 26.3 ins., these seem reasonable on % maps for 1868 and 1869. (Rainfall Atlas).

Maps for 1867 not available but relation of '67 to '68 & '69 seem about right.

H. Rowell MSB. 17.3.49

RAINFALL AT Hartlepool (Hart Res.)

Lat. _____ Lon. _____ County of Durham

Rain Gauge, by _____ Observer Hartlepool Gas & Water Co.

Diameter.											
Height.											
Altitude.											
Year	18 <u>60</u>	18 <u>61</u>	18 <u>62</u>	18 <u>63</u>	18 <u>64</u>	18 <u>65</u>	18 <u>66</u>	18 <u>67</u>	18 <u>68</u>	18 <u>69</u>	MEANS.
January.								2.40		1.19	
February.58		2.37	
March.								1.16		1.53	
April.								1.69		1.29	
May.								2.87		2.86	
June.								1.49		1.27	
July.								3.59		.63	
August.								2.73		1.58	
September.								1.95		3.28	
October.								1.13		2.61	
November.78		2.90	
December.								2.07		2.80	
TOTALS.								22.44	N.R.	24.31	

Using an average of 23 ins. 1869 record seems reasonable on % map. (Rainfall Atlas)
map for 1867 not available but relation of '67 to '69 seems reasonable.
H. Russell 12033 17.3.49

RAINFALL AT St. Pauls Walsingham

Observer.....W. Backhouse.....

Rain { By.....
Gauge { Diameter...5.....in. Height above Ground, 1.....ft.....in. Above Mean Sea Level...927.....ft.

YEAR.....								1867	1868	1869	MEANS.
January.....								# 4.78	5.03	4.44	
February								2.41	2.31	3.41	
March								4.94	2.61	1.66	
April.....								3.69	3.32	1.79	
May.....								2.19	1.14	4.26	
June.....								1.00	46	1.68	
July								4.56	56	.65	
August.....								2.77	3.48	1.21	
September.....								1.76	6.38	1.97	
October								1.70	2.10	2.14	
November.....								.58	3.75	3.14	
December.....								2.19	7.19	4.52	
TOTALS								32.47	38.33	30.87	

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RAINFALL AT Weardale W.W. Waskerley 6
Washford Hill.

3542

Observer R. Achworth Esq.

Durham

Rain { By

Gauge { Diameter.....8.....in.Height above Ground,.....4..ft..2½..in.Above Mean Sea Level.....1229..ft.

YEAR.....							1866	1867	1868	1869	MEANS.
January.....							2.39	2.73	3.09	3.78	
February.....							2.34	1.38	2.05	3.77	
March.....							1.42	1.45	1.71	1.05	
April.....							2.34	3.48	3.13	1.79	
May.....							.96	2.06	1.03	3.99	
June.....							2.70	1.22	.37	1.39	
July.....							3.42	3.96	.62	.22	
August.....							4.25	1.92	3.34	1.22	
September.....							5.16	1.84	5.43	5.03	
October.....							1.19	1.44	1.60	1.71	
November.....							2.37	.59	2.70	2.35	
December.....							2.04	1.42	6.52	3.20	
TOTALS							30.58	23.49	31.59	29.50	

RAINFALL AT Weardale W.W. Waskerley 3 Railway Junction

3543

Observer R. Ackwith Esq.

Durham

Rain { By.....

Gauge { Diameter.....8 in.Height above Ground, ...4 ft. 6 in.Above Mean Sea Level. 1143.2 ft. 69

YEAR.....						1866	1867	1868	1869	MEANS.
January.....						2.92	2.79	3.33	4.09	
February.....						3.28	1.93	2.84	3.88	
March.....						1.56	1.43	2.23	1.28	
April.....						2.52	4.09	3.10	1.83	
May.....						1.12	2.08	1.30	3.79	
June.....						2.86	1.29	.51	1.61	
July.....						4.19	4.28	.74	.40	
August.....						4.91	1.92	3.21	1.36	
September.....						5.05	1.95	6.18	6.01	
October.....						1.36	1.81	1.94	2.10	
November.....						2.65	.69	3.62	2.80	
December.....						2.60	1.65	6.61	3.86	
TOTALS.....						35.02	25.91	35.61	33.01	

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3545

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RAINFALL AT Wearside W.W. Wastley 1
St. Mary's Hill.

Observer R. Ackwith Esq.

Durham

Rain { By.....

Gauge { Diameter.....8 in.

Height above Ground,....4 ft. 3 in.

Above Mean Sea Level...1317 ft. 06

YEAR.....							1866	1867	1868	1869	MEANS.
January.....							2.06	2.55	2.95	3.79	
February.....							2.21	1.45	1.81	2.91	
March.....							1.53	1.39	1.57	1.06	
April.....							2.35	3.38	3.00	1.79	
May.....							.98	2.01	.97	4.07	
June.....							2.69	1.30	.43	1.61	
July.....							3.94	4.53	.65	.33	
August.....							4.47	1.79	3.29	1.29	
September.....							4.91	1.93	5.86	4.85	
October.....							1.18	1.30	1.58	1.72	
November.....							2.22	.59	2.81	2.32	
December.....							2.03	1.40	6.47	3.08	
TOTALS.....							30.57	23.62	31.39	28.82	

RAINFALL AT Weardale W. W. Waskerley 2 Shild Green Durham.

Observer R. Ackwith Esq.

Rain { By.....

Gauge { Diameter.....8 in.

Height above Ground, 4 ft. 4 in.

Above Mean Sea Level 1366 ft. 71

YEAR.....							1866	1867	1868	1869	MEANS.
January.....							2.24	2.71	3.04	3.80	
February.....							2.41	1.50	2.29	3.26	
March.....							1.38	1.46	1.78	1.19	
April.....							2.43	3.64	2.98	1.88	
May.....							1.09	2.08	1.10	4.65	
June.....							2.82	1.34	.63	1.48	
July.....							4.12	4.77	.78	.37	
August.....							4.94	1.83	3.08	1.36	
September.....							4.92	1.94	5.91	5.28	
October.....							1.20	1.49	1.74	1.91	
November.....							2.33	.66	3.46	2.39	
December.....							2.26	1.48	6.24	3.24	
TOTALS							32.14	24.90	33.03	30.81	

RAINFALL AT Weardale W.W. Waskerley 4 Waskerley Park.

Observer R. Ackwith Esq.

Durham

Rain { By.....

Gauge { Diameter.....8 in.

Height above Ground, 4 ft. 6½ in.

Above Mean Sea Level 1321 ft. 33

YEAR.....							1866	1867	1868	1869	MEANS.
January.....							2.58	2.97	3.11	3.87	
February.....							2.59	1.48	2.33	3.72	
March.....							1.41	1.34	1.97	1.14	
April.....							2.40	3.61	2.81	1.80	
May.....							1.06	1.97	1.23	3.73	
June.....							2.67	1.20	.58	1.46	
July.....							3.78	4.08	.65	.33	
August.....							4.67	1.93	3.03	1.33	
September.....							4.96	1.88	5.60	5.13	
October.....							1.33	1.53	1.81	1.87	
November.....							2.43	.59	3.13	2.65	
December.....							2.29	1.53	6.44	3.57	
TOTALS							32.17	24.11	32.69	30.60	

RAINFALL AT Wearside W.N. Waskerley 5 Millstone Quarry

Observer R. Achwith Esq

Durham.

Rain { By.....

Gauge { Diameter.....8...in.

Height above Ground, ...4...ft.2...in.

Above Mean Sea Level. 1243.58

YEAR.....							1866	1867	1868	1869	MEANS.
January.....							2.49	2.90	3.13	3.88	
February.....							2.49	1.50	2.18	3.85	
March.....							1.38	1.45	1.82	1.18	
April.....							2.34	3.69	3.27	1.73	
May.....							1.05	2.08	1.19	4.34	
June.....							2.64	1.23	.46	1.60	
July.....							3.70	4.05	.71	.30	
August.....							4.64	1.88	3.17	1.33	
September.....							5.03	1.86	5.66	5.49	
October.....							1.29	1.46	1.81	1.85	
November.....							2.35	.62	3.20	2.49	
December.....							2.15	1.57	6.89	3.51	
TOTALS							31.55	24.29	33.49	31.55	

RAINFALL AT Wolsingham
Durham

Observer.....Amos Mitchell.....

Rain { By.....

Gauge { Diameter.....5.....in. Height above Ground,.....1.....ft.....in. Above Mean Sea Level.....463.....ft.

YEAR.....									1868	1869	MEANS.
January.....										4.68	
February										3.35	
March										2.37	
April.....										1.98	
May									(18.00)	3.87	
June.....										2.66	
July58	
August.....										1.20	
September.....								from 18th	# 4.84	5.15	
October									2.03	2.36	
November.....									3.51	3.54	
December.....									7.29	4.96	
TOTALS									(35.67)	36.70	

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From daily sheet

In garden 15 ft from any wall or object which could influence

1868 got cut. 9/12
from Stanhope Castle

RAINFALL AT Stanhope Castle, Walsingham Darlington

60

J Switees Gardener to H Pease Esq

Rain { By N. 2. 3

Gauge { Diameter 5 in.

Height above Ground, 4 ft. in.

Above Mean Sea Level, 700 ft.

YEAR.....	1860	1861	1862	1863	1864	1865	1866	1867	1868	1869	MEANS.
January				6. 67	1. 60		#4. 86	4. 85	4. 40	4. 75	
February				1. 17	2. 70		4. 82	2. 60	4. 66	5. 00	
March				2. 73	4. 74		2. 43	4. 60	3. 38	2. 65	
April				2. 51	91		4. 25	3. 68	2. 00	3. 50	
May				2. 03	1. 00		1. 46	2. 90	1. 00	4. 00	
June.....				3. 03	2. 01		2. 82	. 65	0. 00	1. 00	
July				1. 06	. 88		3. 25	2. 34	. 47	. 40	
August.....				2. 84	1. 50		4. 06	1. 85	4. 75	. 30	
September ...				4. 54	2. 90		5. 38	2. 18	5. 27	8. 51	
October.....				4. 50	6. 20		1. 38	1. 38	2. 70	3. 40	
November.....				3. 93	4. 05		2. 85	1. 00	2. 50	3. 40	
December				2. 81	4. 30	#	3. 58	3. 30	8. 55	7. 25	
TOTALS				37. 82	32. 79		41. 14	31. 33	39. 68	44. 16	

c c c c c c c

In a rocky might be called oft oiw above ground being
nearly flush with some of the stones.
Not very reliable before 1866.

RAINFALL AT Durham

60

Observatory

J Plummer

Rain { By

Gauge { Diameter.....12.....in.

Height above Ground, ...4... ft. ...6... in.

Above Mean Sea Level, ...33.5... ft.

YEAR								1867	1868	1869	MEANS.
January								# .60	2.64	2.74	
February81	2.06	2.20	
March								3.00	1.41	2.15	
April								1.25	3.65	1.66	
May								1.96	1.17	3.30	
June.....								1.36	.33	1.42	
July								2.14	.97	.94	
August.....								2.11	2.57	2.23	
September ...								1.89	4.59	4.03	
October								1.12	2.27	2.53	
November67	2.42	3.03	
December.....								1.57	6.69	3.33	
TOTALS.....								19.43	30.77	29.56	

c c c

1869 Dec: 25th & 26th average depth of snow about 10 in
though in some places it was drifted to 3 ft. when
melted mine yielded 1.065 in

Rainfall at Ushaw (S. Cuthbert's College,)
Durham

By Dr. Gillow

In an open court 9 66
10 65 68

Diameter of Gauge, 5 in. Height above Ground, 1 ft. Above Mean Sea Level, 600 ft.
Caralla

YEAR - -	1861	1862	1863	1864	1865	1866	1867	1868	1869	MEANS.
January - -	1.20	1.85	3.31	1.14	1.33	2.05	4.17	2.42	2.69	
February - -	2.68	1.14	.67	2.00	1.85	2.26	.96	.76	1.26	
March - - -	2.17	4.33	2.06	3.20	1.47	2.55	2.29	1.16	1.74	
April - - -	1.39	1.29	.77	1.26	1.15	2.65	2.29	2.94	1.67	
May - - -	.77	2.20	1.68	1.72	4.25	1.17	2.66	.82	3.04	
June - - -	4.52	2.40	4.92	1.49	.87	2.43	1.51	.42	1.39	
July - - -	2.40	1.88	1.53	.91	2.33	3.59	3.78	.70	.71	
August - -	1.35	2.93	2.74	1.10	4.13	3.81	2.37	2.24	1.61	
September -	2.55	.97	3.30	1.24	.36	5.34	2.02	4.98	4.76	
October - -	1.17	1.81	3.24	5.64	7.28	1.59	1.26	1.81	2.41	
November -	4.25	.84	2.89	2.20	2.99	1.86	.58	2.12	2.68	
December -	1.58	1.32	1.80	2.69	1.72	2.00	1.96	5.38	2.86	
TOTALS -	26.03	22.96	28.91	24.59	29.73	31.30	25.85	25.75	26.82	

c c c c c c c c c c

In an open Court

Rainfall at Seaham Vicarage

A Bethune

80 66 67

Diameter of Gauge, ...5..... in.Height above Ground, ft. 4... in.Above Mean Sea Level, ...50..... ft.

YEAR - -	1860	1861	1862	1863	1864	1865	1866	1867	1868	1869	MEANS.
January - -						^W 1.82	1.71	4.22	2.05	1.96	
February - -						1.65	1.80	.81	.80	1.18	
March - - -						1.45	2.84	2.25	1.30	1.74	
April - - -						1.18	2.13	1.79	2.20	1.33	
May - - - -						4.14	1.03	2.52	1.48	3.14	
June - - - -						.95	2.54	1.93	.62	1.64	
July - - - -						1.90	3.98	3.29	.75	.81	
August - - -						3.30	3.17	2.86	2.04	1.45	
September -						.47	4.15	1.60	4.28	3.39	
October - -						5.69	2.13	1.23	1.97	2.15	
November -						2.36	2.07	.76	2.52	3.47	
December -						1.26	1.87	2.27	4.08	3.20	
TOTALS -						26.17	29.42	25.53	24.09	25.46	

g sunk in lawn which slopes to about 200 yards from
 sea, free

1868 No register was kept with sufficient accuracy
 previous to 1865

Rainfall at Seaham Hall

Robt Draper

80 69

Diameter of Gauge, ...5..... in. Height above Ground, ...1. ft. in. Above Mean Sea Level, ...100... ft.

YEAR - -			1862	1863	1864	1865	1866	1867	1868	1869	MEANS.
January - -				2.82	1.04	1.46	1.46	3.65	1.90	1.75	
February - -				.41	2.08	1.82	1.58	.70	.63	1.10	
March - - -			#3.37	1.81	2.56	1.24	2.95	2.13	1.14	1.74	
April - - -			1.13	.79	2.11	1.20	2.12	1.50	2.05	1.27	
May - - - -			2.48	1.58	2.09	3.99	.94	2.51	1.38	3.18	
June - - - -			3.13	4.59	1.79	.84	2.36	1.77	.66	1.45	
July - - - -			1.77	1.26	.54	2.06	4.13	2.99	.57	.78	
August - - -			3.85	2.49	.71	3.18	3.15	2.98	1.70	1.30	
September -			1.04	1.92	1.05	.29	4.27	1.68	4.44	3.44	
October - - -			1.79	3.48	4.36	5.92	1.81	1.18	1.80	2.38	
November - -			.71	2.75	1.72	2.37	1.91	.76	2.20	3.70	
December - -			1.44	2.25	2.69	1.70	1.64	1.77	4.09	2.13	
TOTALS -				26.15	22.74	26.07	28.32	23.62	22.56	24.22	

c c c c c c c c

g open

Washington, Durham

John Watson Esq & Ras

Gauge

20ft + ground

120ft + s level

YEAR - -	1860	1861	1862	1863	1864						MEANS.
January - -	3.24										
February - -	1.26										
March - - -	1.02										
April - - -	.85										
May - - - -	2.20										
June - - - -	3.86										
July - - - -	2.94										
August - - -	2.33										
September -	1.87										
October - - -	1.80										
November -	2.70										
December -	3.54										
TOTALS -	27.61										

e

Hendon Hill

Sunderland

J Wilfred Mounsey

7 in

1200 634

5 + ground 6 in 65 67 + Sea level 150 ft

YEAR - -	1860	1861	1862	1863	1864	1865	1866	1867	1868	1869	MEANS.
January - -			# 1.94	2.70	1.06	1.54	1.34	4.24	1.69		
February - -			1.78	.51	2.32	1.53	1.57	.54	.77		
March - - -			3.43	1.41	2.65	1.21	2.40	2.14	.99		
April - - - -			1.08	.96	1.65	.98	2.06	1.44	1.79		
May - - - -			2.49	1.50	1.81	4.69	1.05	2.27	1.65		
June - - - -			3.05	4.02	1.61	.79	2.11	1.74	.18		
July - - - -			2.07	1.21	.77	1.79	4.75	3.04	.77		
August - - -			3.56	2.91	1.34	3.22	2.79	2.46	1.60		
September -			1.38	2.06	1.06	.59	4.40	1.86	3.70		
October - -			1.64	3.42	4.65	5.40	1.66	1.00	1.17		
November -			1.02	3.01	1.57	2.00	1.93	.78	2.68		
December -			1.53	2.22	2.81	1.59	1.78	1.83	3.85		
TOTALS -			24.97	25.93	23.30	25.33	27.84	23.34	20.84		

c c c c c c c c

1864 on 22nd Oct nearly $\frac{3}{4}$ of an inch fell in

thirteen minutes

1864 on 22nd Oct nearly $\frac{3}{4}$ of an inch fell in

thirteen minutes

RAINFALL AT *West Hendon**Sunderland*Observer... *J. W. Backhouse*.....

Rain { By.....

Gauge { Diameter.....in.

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

Above Mean Sea Level.....ft.

YEAR.....	1860	1861	1862	1863	1864	1865	1866	1867	1868	1869	MEANS.
January.....	3.51	.97	2.47	3.08	1.03	1.85	1.55				
February	1.98	1.93	1.39	.48	2.41	1.67	1.71				
March	1.83	2.32	3.65	1.55	2.83	1.28	broken by first				
April.....	1.25	1.46	1.17	1.03	1.85	1.17	&				
May	2.90	1.30	"	1.57	2.16						
June.....	2.65		3.40	4.55	2.06	.91					
July	3.51	3.79	2.22	1.31	1.00	2.20					
August.....	2.80		4.32	3.29	1.51	3.97					
September.....			.97	2.80	1.29	.64					
October.....			1.76	3.50	5.46	6.48					
November.....	3.40	4.35	1.10	3.27	2.08	2.05					
December.....	4.43	.99	1.52	2.26	3.24	1.81					
TOTALS				28.69	26.92						

C C C C C C C

Duplicate Gauge

1860

May 2.96

A sort of funnel made of glass and graduated

June 2.72

July 3.58

Character of surrounding country undulating for 2 miles

Aug. 3.04

RAINFALL AT *West Hendon House*
Sunderland

Backhouse

Rain { By *No 2*
Gauge { Diameter.....*5*.....in. Height above Ground, ...*1*... ft. *0*... in. Above Mean Sea Level, ...*125*... ft.

YEAR	1860	1861	1862	1863	1864	1865	1866	1867	1868	1869	MEANS.
January						² 1.73	1.36	4.19	1.71	1.73.	
February						1.52	1.52	.54	.73	1.00.	
March						1.25	2.34	1.89	1.09	1.71.	
April							1.88	1.43	2.22	1.40.	
May							1.04	2.30	1.29	2.64.	
June.....						.77	2.08	1.76	.36	1.09.	
July						1.06	4.85	3.35	.91	.96.	
August.....						3.33	3.12	2.63	1.63	1.41.	
September58	4.34	1.84	3.77	3.42.	
October						5.77	1.61	1.08	1.85	2.65.	
November ...						1.81	1.88	.82	2.12	2.92.	
December.....						1.61	1.88	2.04	3.61	3.32.	
TOTALS.....						27.90	23.87	21.29	24.25		

1865 a new g I believe it to be more correct than the other

RAINFALL AT Sunderland Bishopwearmouth
The Esplanade

J J Pyle M.L.

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

Height above Ground, 0 ft. in. Above Mean Sea Level, 122 ft.

YEAR	1860	1861	1862	1863	1864	1865	1866	1867	1868	1869	MEANS.
January							1.44	3.16	1.21	1.93	
February							1.62	.60	.73	1.47	
March							3.13	2.34	.93	1.67	
April							2.09	1.34	2.22	1.81	
May							1.36	2.68	.93	2.70	
June							2.18	1.73	.35	1.26	
July							6.02	4.19	.87	1.13	
August							2.84	2.67	1.55	1.31	
September ...							4.05	2.76	3.41	3.67	
October						5.21	1.79	.90	1.58	3.12	
November ...						2.46	2.03	.87	1.46	2.17	
December						1.73	2.03	1.91	4.63	3.10	
TOTALS							30.58	25.15	19.87	25.34	

c c c c c

Sunderland { Field House = The Hall
The Grange
Jan. 1860 to June 1861

The Prev. G. Sliff

1.5 65 66 68
1.2 63

80 ft 63

85 65 & 68

10 in Sp.

1 ft 6 inches + Ground 64 130 ft at the Grange
78 ft at Field House } + S.L.
measured off in Caribian inches

YEAR - -	1860	1861	1862	1863	1864	1865	1866	1867	1868	1869	MEANS.
January - -	3.66	.90	1.97	2.58	1.00	1.59	1.13	4.78	1.77	1.98	
February - -	1.29	1.66	1.48	.35	1.96	1.49	1.43	.60	.70	1.11	
March - - -	1.13	3.09	3.21	1.13	2.77	1.20	2.83	2.31	1.12	1.97	
April - - -	.94	1.74	1.07	.87	1.72	.94	2.21	1.09	2.23	1.47	
May - - - -	2.37	.96	1.79	1.33	1.80	4.74	1.01	2.57	1.23	2.86	
June - - - -	2.87	2.05	3.28	3.68	1.48	.80	2.04	1.66	.46	1.27	
July - - - -	3.05	(3.79)	1.93	1.17	.96	1.87	1.04	3.69	1.01	1.09	
August - - -	2.05	(1.54)	1.77	2.99	1.19	3.32	2.24	2.18	2.02	1.58	
September -	2.26	2.26	.98	2.15	1.25	.56	3.66	2.24	4.20	3.68	
October - -	2.12	1.15	1.77	3.19	4.94	5.53	.87	1.15	2.11	3.01	
November -	3.05	4.19	1.00	3.15	1.57	2.41	2.00	.62	2.52	2.18	
December -	4.60	1.16	1.34	2.34	3.12	1.61	1.68	1.61	4.13	3.16	#
TOTALS -	29.39	24.49	21.59	24.93	23.76	26.06	22.14	24.50	23.50	25.36	

✓ C omit C C ✓ C C C C C C C

1861 July & August adopted from other reports

1869 Average for 10 yrs 23.34

On day of measurement the fall is reckoned to 8 ft on the last day of the month, when the last day's fall is peculiar notice is made of it

Character of surrounding country the Grange (till June) undulating, thenceforward Field House undulating but with houses & stools about 100 yds off in all directions

1866 - W. Sliff thinks his observations hopelessly wrong

1869 W. Sliff had his right arm broken in June so was prevented taking his obs. regularly for a few weeks afterwards a road was made through his garden and his instruments meddled with

Bishopwearmouth C.L
Sunderland

Henry Ogden Esq M.D.

Thrs Rd No 49

Diam 8 + Ground 30 feet + Sea Level 140 feet

120762

YEAR - -	1860	1861	1862	1863	1864	1865	1866	1867	1868	1869	MEANS.
January - -	2.81	1.04	1.96	2.01	.75	1.22	1.00	1.83	1.03	1.22	1.487
February - -	1.12	1.53	1.21	.29	1.47	1.15	.97	.52	.53	1.05	.984 -
March - - -	1.35	1.89	2.99	1.07	2.10	.78	1.83	.99	.85	1.02	1.487
April - - -	.87	1.00	.80	.75	1.36	.70	1.53	1.05	1.32	1.26	1.072
May - - - -	1.97	.72	2.20	1.22	1.59	3.47	.78	2.21	1.18	2.09	1.743
June - - - -	2.55	1.93	2.51	4.01	1.36	.64	1.69	1.32	.33	.73	1.707
July - - - -	2.94	3.10	1.70	.94	.88	1.78	3.78	3.64	.72	.84	2.040
August - - -	2.24	1.29	3.51	2.57	1.07	2.92	2.42	1.99	1.71	1.23	2.095 +
September -	2.44	2.01	.86	1.93	1.05	.45	3.98	2.03	2.86	3.23	2.084
October - -	1.50	1.01	1.28	2.93	3.94	4.28	1.28	.84	1.58	1.96	2.060
November -	2.44	3.00	.76	2.29	1.61	1.80	1.52	.66	1.78	1.53	1.739
December -	2.48	.70	1.19	1.70	2.34	1.46	1.44	1.32	3.17	1.69	1.749
TOTALS -	24.71	19.30	20.97	21.71	19.52	20.73	22.22	18.40	17.06	17.85	20.247

+ c c c c c c c c c c

1861 On the top of a house close to the river Wear, surrounding country uneven but with lofty hills

Rainfall at Gateshead (Burghfield House)

Geo. Wailes

Diameter of Gauge, in.

Height above Ground, ft. 6 in.Above Mean Sea Level, ... 68 ft.

YEAR - -					1864	1865	1866	1867	1868	1869	MEANS.
January - -					.88	1.05	1.50				
February - -					2.12	1.83	2.13				
March - - -					3.98	1.36	2.59				
April - - - -					1.27	1.58	2.43				
May - - - - -					2.34	3.59	.97				
June - - - - -					1.53	.57	1.43				
July - - - - -					.53	2.61	3.42				
August - - -					1.44	2.92	3.05				
September -					1.35	.39	3.44				
October - - -					7.49	8.16	1.36				
November -					2.18	2.34	2.08				
December -					3.21	1.88	1.91				
TOTALS -					28.32	29.00	26.39				

✓
c c c

1864 from Jan'y to Oct: 16th only 15.53 in fall
 while from 16th Oct: to the 30th of Oct: 7.27 fall

RAINFALL AT *Gateshead Eighton Cottage* *Durham*

Observer *J. N. Farwell*

Rain { By

Gauge { Diameter.....*5*.....in.

Height above Ground,.....ft.*10*.....in.

Above Mean Sea Level.....ft.*515*.....ft.

YEAR.....									<i>1868</i>	<i>1869</i>	MEANS.
January.....									<i>2.48</i>	<i>1.85</i>	
February									<i>1.06</i>	<i>1.43</i>	
March.....									<i>1.17</i>	<i>2.39</i>	
April.....									<i>3.50</i>	<i>2.99</i>	
May									<i>.85</i>	<i>3.38</i>	
June.....									<i>.27</i>	<i>1.30</i>	
July									<i>.63</i>	<i>1.03</i>	
August.....									<i>2.10</i>	<i>1.21</i>	
September.....									<i>4.51</i>	<i>3.53</i>	
October									<i>1.96</i>	<i>2.33</i>	
November.....									<i>2.16</i>	<i>2.69</i>	
December.....									<i>4.09</i>	<i>2.43</i>	
TOTALS									<i>24.78</i>	<i>26.56</i>	

G in garden *72* ft by *93* ft. Trees &c at distances varying from *33* ft to *66* ft and in height varying from *28* ft to *6* ft

Hyd Sta. No. *42-018958*

N.R. *N2 (45) 276585*

alt. *157m*

Allenheads

60

M. Varty

Gauge 12 in diam.; 6 ft 9 in + ground; 13.67 ft + s l

YEAR - -	1860	1861	1862	1863	1864	1865	1866	1867	1868	1869	MEANS.
January - -	8.43	1.62	4.69	11.24	4.08	3.95	6.97	Gauge out of order.			
February - -	5.25	6.03	2.21	4.27	4.03	1.97	6.57				
March - - -	5.34	5.61	4.11	2.71	6.42	1.49	2.88				
April - - -	3.33	2.16	3.59	5.41	1.05	1.34	4.44				
May - - - -	2.92	1.50	4.10	2.92	2.30	6.88	1.52				
June - - - -	6.62	2.50	5.86	4.34	3.77	.75	2.82				
July - - - -	3.00	5.27	3.45	1.41	1.42	2.18	4.78				
August - - -	5.06	4.61	3.57	4.56	1.66	4.78	5.89				
September -	1.65	5.67	1.84	6.67	4.11	.53	7.45				
October - - -	7.55	2.10	8.71	6.45	11.69	14.26	2.37				
November - -	4.91	12.10	1.90	6.11	4.42	5.21	6.76				
December - -	5.85	3.64	6.53	6.41	2.98	4.26	7.92				
TOTALS -	59.91	52.89	50.64	62.50	47.93	47.58	60.37				

1864 October 18th .35, 19th 1.16, 20th .25, 21st 1.20, 22nd 2.99, 23rd 1.15

RAINFALL AT Whitfield

Rev J. Mason

Northumberland

Rain { By.....
Gauge {
Diameter.....5.....in.

Height above Ground, 1 ft. in. Above Mean Sea Level, 806 ft.

YEAR.....							1866	1867	1868	1869	MEANS.
January							6.86	3.93		4.23	
February							4.60	2.79		7.62	
March							2.04	2.14		2.47	
April							2.83	5.27		2.28	
May							1.25	1.79		4.20	
June.....							1.86	1.43		1.55	
July							2.11	3.86		.72	
August							5.91	2.20		1.99	
September ...							5.49	2.47		7.51	
October.....							1.63	2.13		2.09	
November.....							4.83	.80		6.73	
December.....							5.30	2.53		4.45	
TOTALS							44.71	31.34		45.84	

C C C

Paywell

John Dawson

8 in + ground 0.6 in + Sea Level 07 feet

YEAR - -	1860	1861	1862	1863	1864	1865	1866	1867	1868	1869	MEANS.
January - -	4.55	1.42	2.59	4.11	.38	1.60	2.57	4.07	4.18	2.38	2.793
February - -	2.15	3.22	1.67	.80	1.57	1.72	2.49	1.31	1.59	1.80	1.832 -
March - - -	2.88	2.35	3.96	2.24	3.50	1.79	2.58	3.26	2.08	1.65	2.629
April - - -	1.62	1.57	1.35	1.11	1.05	1.32	3.09	2.93	3.24	1.74	1.896
May - - - -	2.44	.63	3.13	1.15	3.08	4.91	.86	2.16	.94	3.61	2.291
June - - - -	4.59	3.84	2.55	3.70	1.36	.47	1.65	1.44	.19	1.42	2.121
July - - - -	3.54	3.73	1.88	1.22	.58	2.32	3.26	2.53	.91	.25	2.022
August - - -	3.03	1.65	3.22	2.72	1.74	3.64	3.82	2.54	2.07	1.23	2.566
September -	1.54	2.82	1.02	3.19	2.88	.24	3.24	2.07	3.90	3.49	2.439
October - - -	3.52	1.42	2.25	3.74	7.50	7.49	1.06	1.33	1.56	1.81	3.168 +
November - -	3.27	4.42	.87	3.13	2.26	2.49	2.36	.87	2.72	2.53	2.492
December - -	3.00	1.43	1.26	1.30	2.87	1.75	2.21	3.04	4.33	3.06	2.625
TOTALS -	38.13	28.44	25.75	28.41	28.77	29.82	29.19	27.55	27.71	24.97	28.874

+ 0 0 0 0 0 0 0 0 0 0 0

1864 4.70 fell on the week 21st to 27th of October

Shottley Hall (Northumberland)

60

200 yds W of Shottley Bridge

Geo^r Boulton 3 in 69

Open position on front of lawn - 90 ft from wall

Diam 5 in + ground 0 in + Sea Level

YEAR - -	1860	1861	1862	1863	1864	1865	1866	1867	1868	1869	MEANS.
January - -	2.36	.54	2.44	4.54	1.08	1.66	2.75	3.21	3.54	2.85	2.497
February - -	2.57	3.90	1.22	.62	2.19	1.44	3.35	.55	1.46	1.57	1.889
March - - -	2.94	2.32	4.27	2.24	3.55	1.25	2.56	3.58	1.98	2.07	2.676 +
April - - -	1.17	1.55	.98	1.15	1.12	1.31	3.64	3.04	3.25	1.60	1.881 -
May - - - -	1.24	1.19	2.89	1.53	2.08	4.00	.81	2.02	.77	3.96	2.049
June - - - -	4.92	3.64	2.42	4.48	1.18	.63	2.12	1.35	.14	1.15	2.203
July - - - -	3.94	4.65	1.84	1.71	.61	1.90	3.12	3.10	.72	.45	2.204
August - - -	3.19	1.11	2.48	3.10	1.34	3.26	4.10	2.23	2.65	1.29	2.475
September -	1.37	2.57	.81	3.01	1.77	.21	3.89	2.45	4.00	3.72	2.380
October - -	2.42	1.26	2.22	3.47	8.10	8.39	.74	.87	1.13	2.11	3.071
November -	4.21	4.82	.86	2.86	2.08	2.24	2.06	.60	3.34	2.93	2.600
December -	5.08	1.17	1.61	1.75	2.92	1.77	2.13	1.71	5.03	2.52	2.569
TOTALS -	35.35	28.80	24.04	30.46	28.02	28.06	31.27	24.71	28.01	26.22	28.494

+ 1859 = 23.58

RAINFALL AT Waltham Hall

Waltham Hall

Observer... Rev^d Dixon Brown

Rain { By.....

Gauge { Diameter..... 4.....in.

Height above Ground,.....ft.....6.....in.

Above Mean Sea Level.....380.....ft.

YEAR.....											1869	MEANS.
January.....												
February											# 5.03	
March											1.06	
April.....											1.81	
May											3.33	
June.....											1.49	
July91	
August.....											1.38	
September.....											5.72	
October											2.61	
November.....											5.59	
December.....											4.27	
TOTALS												

C

Wylam North

9 m W of Newcastle or Tyne

Observer. J. G. Atkinson Esq

Mps. Ret. No. 5

Gauge 10² in - ⁵
4 in + Ground

96 ft + Sea Level

YEAR - -	1860	1861	1862	1863	1864	1865	1866	1867	1868	1869	MEANS.
January - -	4.10	.89	2.10	3.80	.76	1.21	1.63	4.08	3.15	1.97	2.369
February - -	1.77	2.97	1.48	.55	1.96	1.50	2.61	.67	1.89	1.56	1.696 -
March - - -	2.19	1.84	3.61	2.10	3.79	1.54	2.99	1.85	1.72	1.89	2.352
April - - -	.97	1.17	1.34	1.04	1.04	1.24	3.52	1.84	3.60	2.07	1.783
May - - - -	2.21	.71	2.60	1.22	2.73	4.56	1.15	2.22	.77	3.86	2.203
June - - - -	3.58	2.17	3.17	3.89	1.16	.63	1.23	1.53	.54	1.45	1.935
July - - - -	2.71	3.37	1.91	1.29	.67	2.56	3.22	2.81	.57	.29	1.940
August - - -	2.13	1.76	3.47	2.91	1.58	2.86	3.65	2.00	2.23	1.25	2.384
September -	1.11	2.63	1.30	3.14	1.99	.32	4.54	2.03	4.26	2.94	2.426
October - - -	3.02	1.23	1.87	3.96	6.67	9.51	.70	.94	1.31	2.13	3.134 +
November -	3.06	3.76	.91	3.14	2.17	2.74	2.74	3.9	2.46	2.97	2.454
December -	4.53	1.04	.92	1.35	3.05	1.00	1.83	1.82	3.93	2.77	2.224
TOTALS -	31.38	23.54	24.68	28.39	27.57	29.67	29.81	22.38	26.43	25.15	26.900

1866 August sent as 3.15 but 3.65 is correct

Newcastle on Tyne

Lieut. Sitwell

+ Ground 42 feet + Sea level 187 feet

YEAR - -	1860	1861	1862	1863	1864						MEANS.
January - -	3.59	60	1.99								
February - -	1.04	2.08	1.08								
March - - -	1.25	1.55	3.35								
April - - -	.98	1.05	2								
May - - - -	2.30	.60									
June - - - -	3.10	2.55									
July - - - -	2.67	2.88									
August - - -	2.39	1.50									
September -	1.09	1.79									
October - -	2.31	.73									
November -	2.88	2.90									
December -	3.68	.55									
TOTALS -	27.28	10.78									

✓ ✓ ✓

RAINFALL AT *Newcastle on Tyne*
30 Eye Hill

Observer.....

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

Height above Ground, *1* ft. *6* in.

Above Mean Sea Level *200* ft.

YEAR.....										<i>1869</i>	MEANS.
January.....										<i>2.34</i>	
February										<i>1.17</i>	
March										<i>1.62</i>	
April.....										<i>1.75</i>	
May										<i>2.98</i>	
June.....										<i>1.55</i>	
July										<i>.38</i>	
August.....										<i>1.00</i>	
September.....										<i>3.17</i>	
October										<i>3.12</i>	
November.....										<i>3.24</i>	
December.....										<i>3.16</i>	
TOTALS										<i>25.48</i>	

69

RAINFALL AT *Newcastle upon Tyne*

60

W. Hyall

Rain { By
Gauge { Diameter.....*0.66* in.

Height above Ground, *75* ft. in.

Above Mean Sea Level, *180* ft.

1-5-69

1-2 66 67 68 105 68

YEAR	1860	1861	1862	1863	1864	1865	1866	1867	1868	1869	MEANS.
January						<i>.87</i>	<i>.64</i>	<i>2.73</i>	<i>2.32</i>	<i>2.19</i>	
February						<i>.73</i>	<i>1.45</i>	<i>.54</i>	<i>1.78</i>	<i>1.66</i>	
March						<i>.71</i>	<i>1.58</i>	<i>1.50</i>	<i>1.15</i>	<i>2.19</i>	
April						<i>1.72</i>	<i>2.31</i>	<i>1.32</i>	<i>3.71</i>	<i>2.38</i>	
May						<i>3.13</i>	<i>1.01</i>	<i>1.67</i>	<i>.52</i>	<i>3.33</i>	
June						<i>.52</i>	<i>1.34</i>	<i>1.49</i>	<i>.21</i>	<i>2.35</i>	
July						<i>2.25</i>	<i>3.20</i>	<i>3.42</i>	<i>.64</i>	<i>.48</i>	
August						<i>2.29</i>	<i>3.05</i>	<i>2.41</i>	<i>2.22</i>	<i>1.00</i>	
September ...						<i>.32</i>	<i>2.89</i>	<i>2.40</i>	<i>3.72</i>	<i>3.83</i>	
October						<i>6.68</i>	<i>1.20</i>	<i>1.20</i>	<i>2.69</i>	<i>3.17</i>	
November ...						<i>1.71</i>	<i>2.23</i>	<i>.64</i>	<i>2.58</i>	<i>3.51</i>	
December						<i>.31</i>	<i>1.29</i>	<i>2.46</i>	<i>4.71</i>	<i>3.92</i>	
TOTALS						<i>21.24</i>	<i>22.19</i>	<i>21.78</i>	<i>26.25</i>	<i>30.01</i>	

C C C C C

1866 this g appears to have been lowered to the ground

RAINFALL AT *Newcastle on Tyne*

Deaf & Dumb Institution Town Moor

Observer. *William Neill*

Rain { By.....
Gauge { Diameter.....*5*.....in.

Height above Ground,.....ft.....*6*.....in.

Above Mean Sea Level.....ft.

YEAR.....									1868	1869	MEANS.
January.....									2.87	2.22	
February									1.54	1.15	
March									1.29	1.45	
April									3.63	2.10	
May58	2.98	
June24	1.57	
July33	.49	
August									2.07	1.37	
September.....									3.63	3.13	
October									1.98	2.74	
November.....									2.45	2.85	
December									3.90	2.73	
TOTALS									24.51	24.78	

c e

Gauge certified by GJS

RAINFALL AT Wylam
Horsley n.

Observer.....John Bew.....

Rain { By.....

Gauge {
Diameter.....5.....in.

Height above Ground,.....ft.....1.....in.

Above Mean Sea Level.....ft.

• YEAR.....									1868	1869	MEANS.
January.....									1.75	1.67	
February									2.46	2.01	
March.....									2.15	1.37	
April.....									3.26	2.08	
May99	3.20	
June.....									.45	1.38	
July51	.32	
August.....									1.68	1.35	
September.....									2.57	3.21	
October									2.54	1.58	
November.....									1.92	2.61	
December.....									3.49	1.90	
TOTALS									23.77	22.68	

C C

Wallsend

about 4 m. W of Shields

James Dees

6.65 67 68

90 65

10^m

+ Ground 1 ft

+ Sea Level 100 ft 69

YEAR - -	1860	1861	1862	1863	1864	1865	1866	1867	1868	1869	MEANS.
January - -	3.85	1.59	2.25	3.17	.88	1.81	1.25	4.99	2.10	1.87	2.376
February - -	2.07	2.60	1.66	.39	2.33	1.34	2.04	.85	2.23	1.41	1.692 -
March - - -	1.98	2.00	3.69	1.50	3.68	1.68	2.61	2.00	1.25	1.50	2.189
April - - -	1.08	1.43	1.36	1.00	2.13	1.90	2.08	1.38	3.68	1.86	1.790
May - - - -	3.23	.96	2.44	1.60	2.94	3.66	1.11	2.45	.98	2.78	2.215
June - - - -	2.72	3.27	3.19	4.09	1.60	.57	1.49	1.27	.29	1.43	1.992
July - - - -	3.30	2.67	1.47	1.20	.66	2.60	4.10	3.46	.35	.65	2.054
August - - -	3.23	1.64	5.14	2.53	1.18	2.74	3.14	2.15	1.75	1.33	2.483
September -	1.85	2.47	.85	2.28	1.26	.52	3.67	2.22	3.76	2.70	2.158
October - -	2.72	1.00	1.65	3.68	6.10	6.21	1.49	1.22	2.09	2.66	2.882 +
November -	3.35	4.07	.68	2.98	2.08	2.57	2.21	.76	2.11	2.87	2.368
December -	4.74	.92	1.08	1.83	2.98	1.64	1.44	2.59	3.90	3.29	2.441
TOTALS -	34.12	24.62	25.46	26.25	27.82	27.24	26.71	25.34	24.49	24.35	26.640
	+ C	C	C	C	C	C	C	C	C	C	-

1868 Nov. 6th first snow

1869 On Christmas day snow began to fall and for two three days it fell at intervals until about 8 or 9 inches in depth ~~was~~ reached a thaw came on about the night of the 29th & by the 31st all snow on the flat was melted, snow & rain for this period was 1.415

Rainfall at *Low Light North Shields*

60

J. R. Procter Esq.

Diameter of Gauge, ... *8* in.

Height above Ground, *3*... ft. *1*... in.

Above Mean Sea Level, ft. *20*

YEAR - -			1862	1863	1864	1865	1866	1867	1868	1869	MEANS.
January - -				2.95	.96	1.52	1.30	3.28	1.86	2.26	
February - -				.39	2.44	1.46	1.88	.70	1.39	1.26	
March - - -				1.38	3.27	1.40	2.40	1.87	1.05	1.25	
April - - -				1.18	1.67	1.47	1.83	1.89	2.79	1.65	
May - - - -				1.48	2.60	3.89	1.08	2.12	.87	2.47	
June - - - -		#	2.91	4.14	1.98	.69	1.57	1.48	.44	1.15	
July - - - -			2.17	.80	.74	1.91	3.54	2.94	.42	.66	
August - - -			5.46	2.72	1.34	2.76	3.23	2.27	1.87	1.08	
September -			1.11	2.17	1.58	.53	3.30	1.77	3.79	2.74	
October - -			1.50	3.48	4.57	5.81	1.46	1.13	2.20	2.89	
November -			.70	2.57	2.27	2.70	2.24	.99	2.30	2.69	
December -			1.40	1.84	2.58	1.42	2.79	2.05	3.48	2.32	
TOTALS -				25.10	26.00	25.56	26.62	22.49	22.46	22.42	

1868 $\frac{1}{4}$ N of Tyne in a valley only open to the river closed to the N by a railway embankment 70 ft. high, there are trees near but not so near as to shelter it. I have thought that there might sometime be a tyfling insplashing from the stand, but am going to have it altered.

Rainfall at Synemouth

60

P. J. Melpent. Esq



100 67 - 69

61 Sandy Pt. L.

Diameter of Gauge,5..... in.

Height above Ground, ..2.. ft. 6... in.

Above Mean Sea Level, ...5.2... ft. /bin

YEAR - -					1864	1865	1866	1867	1868	1869	MEANS.
January - -					1.44	1.19	.86	3.81	1.65	1.82	
February - -					1.92	1.28	1.28	.90	1.05	1.49	
March - - -					2.96	1.48	3.26	1.90	1.08	1.40	
April - - - -					1.89	1.43	1.22	1.60	2.20	1.76	
May - - - - -					2.44	2.50	1.15	2.23	.88	2.31	
June - - - - -					2.12	.08	1.48	1.52	.38	1.03	
July - - - - -					.70	2.03	1.03	2.86	.42	.91	
August - - -					1.04	2.51	5.47	1.94	1.80	1.12	
September -					1.41	.70	3.14	1.84	3.89	2.65	
October - - -					3.66	6.14	1.33	1.23	2.12	2.85	
November - -					.40	1.96	2.09	2.03	2.16	2.55	
December - -					2.96	2.01	1.37	2.36	3.42	2.79	
TOTALS - - -					22.94	23.47	23.68	24.22	21.05	22.68	

c c c c c c



RAINFALL AT *North Shields*

60

Clementhope

By *John R. Procter*
Rain Gauge {
Diameter.....*5*.....in.

Height above Ground, *1* ft. in.

Above Mean Sea Level, *150* ft.

YEAR								1867	1868	1869	MEANS.
January									1.56	2.10	
February									1.40	1.17	
March97	1.17	
April									2.71	1.66	
May								#2.09	.79	2.40	
June								1.37	.41	.99	
July								2.63	.53	.65	
August								2.10	1.77	1.10	
September ...								1.81	3.72	2.57	
October89	1.99	2.40	
November79	1.89	2.40	
December								1.83	3.18	2.09	
TOTALS									20.92	20.70	

C C C

1868 This g. is situated about 1 mile NW of the other on an open level lower 50 ft S of house 30 ft high it is about $\frac{1}{2}$ a mile N of W. Spencer's g. but in a much more open situation

Rainfall at *Whitley near N. Shields*

60

Rev. R. F. Wheeler

9 in 69
1 ft. 64

Diameter of Gauge, ...5..... in.
basella

Height above Ground, ft. *11* in. *65* Above Mean Sea Level, ..*83*.... ft.

YEAR - -					1864	1865	1866	1867	1868	1869	MEANS.
January - -					# .87	2.20	1.66	3.21	2.04	2.23	
February - -					2.78	1.52	1.76	.67	1.92	1.44	
March - - -					3.40	1.09	2.88	1.69	1.44	1.37	
April - - -					1.60	1.70	1.98	1.93	2.99	1.97	
May - - - -					2.50	4.13	1.39	2.36	1.02	2.59	
June - - - -					1.75	.65	2.00	1.64	.48	1.41	
July - - - -					.81	2.10	3.89	3.38	.38	.87	
August - - -					1.11	2.85	3.08	1.84	2.12	1.19	
September -					1.92	.35	3.51	2.30	4.43	2.91	
October - -					4.92	6.00	1.47	1.23	2.35	2.33	
November -					2.10	2.83	2.42	.93	2.62	2.68	
December -					2.88	1.57	2.31	2.27	3.58	2.04	
TOTALS -					26.64	26.99	28.35	23.45	25.37	23.03	

✓ c c c c c c

1864 1865
1865 Gauge in middle of open ground about $\frac{1}{8}$ of a mile from the Sea

RAINFALL AT Newcastle on Tyne
Carlisle

Observer.....John Taylor.....

Rain { By.....

Gauge { Diameter.....5.....in. Height above Ground,.....2.....ft.....12.....in. Above Mean Sea Level.....185.....ft.

YEAR.....										1869	MEANS.
January.....										1.70	
February										1.73	
March										1.21	
April.....										2.04	
May										2.65	
June.....										1.65	
July62	
August.....										1.34	
September.....										2.32	
October										2.51	
November.....										2.44	
December.....										1.64	
TOTALS										21.85	

1869 on 26th 27th & 28th D.S. Snow $5\frac{1}{2}$ inches deep

Allenheads -

Thos. J. Bewick M Varty

Gauge 8 inches diam.; 5 in + ground; 1360 ft + s l

YEAR - -	1860	1861	1862	1863	1864	1865	1866	1867	1868	1869	MEANS.	
January - -	9.91	1.26	4.17	9.00	3.24	4.14	6.81	6.10	8.63	6.06	59.32	+
February - -	5.19	7.28	1.75	3.20	3.69	3.11	6.29	4.00	4.68	9.26	4.845	
March - - -	4.99	5.15	4.29	2.40	5.90	1.46	3.25	9.10	5.85	2.09	4.448	
April - - -	3.11	2.00	3.00	4.24	1.01	1.20	4.32	6.73	3.93	2.43	3.197	
May - - - -	3.17	1.44	3.85	2.64	2.08	6.15	1.63	2.46	1.66	4.66	2.974	
June - - - -	6.26	2.31	5.27	4.03	3.58	.75	2.81	1.29	.42	1.67	3.839	
July - - - -	3.20	4.84	3.14	1.38	1.32	2.00	4.52	6.05	.61	.87	2.793	-
August - - -	4.93	4.07	3.31	4.52	1.55	4.00	5.33	2.42	5.72	1.77	2.842	
September -	1.87	5.22	1.72	6.34	3.91	.50	6.96	2.65	5.59	8.97	4.373	
October - - -	6.24	2.05	6.89	5.84	9.63	11.82	2.16	3.25	4.05	3.08	5.501	
November -	4.76	10.69	1.70	5.33	4.06	4.80	5.64	1.22	5.03	7.64	5.087	
December -	5.52	3.04	5.12	5.10	3.27	3.70	7.17	4.18	10.25	5.94	5.329	
TOTALS -	59.15	49.35	44.21	54.02	43.24	44.43	56.89	49.45	56.42	54.44	51.160	

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1864 Bell. 18th .37 19th 1.06 20th .21 21th .95 22th 2.52, 23rd .86

Sta. No. 015338 1852-1886 Cannot be reckoned as Homogeneous with 015339.

Rainfall at *Whittle Dean Reservoir*
nr Harlow Hill.

D. D. Main

Diameter of Gauge, in. Height above Ground, ft. *6* in. Above Mean Sea Level, *380* ft.

YEAR - -	<i>1860</i>	<i>1861</i>	<i>1862</i>	<i>1863</i>	<i>1864</i>	<i>1865</i>	<i>1866</i>	<i>1867</i>	<i>1868</i>	<i>1869</i>	MEANS.
January - -	<i>3.01</i>	<i>1.25</i>	<i>1.83</i>	<i>3.37</i>	<i>.74</i>	<i>1.27</i>	<i>3.89</i>	<i>2.88</i>	<i>1.76</i>	<i>1.16</i>	<i>2.116</i>
February - -	<i>1.07</i>	<i>1.74</i>	<i>1.55</i>	<i>.72</i>	<i>2.17</i>	<i>1.34</i>	<i>3.02</i>	<i>2.25</i>	<i>2.46</i>	<i>2.02</i>	<i>1.834</i>
March - - -	<i>2.08</i>	<i>.82</i>	<i>2.72</i>	<i>2.10</i>	<i>3.53</i>	<i>.60</i>	<i>2.51</i>	<i>.95</i>	<i>2.15</i>	<i>1.45</i>	<i>1.891</i>
April - - -	<i>1.22</i>	<i>1.04</i>	<i>1.04</i>	<i>1.10</i>	<i>.94</i>	<i>1.09</i>	<i>2.14</i>	<i>2.77</i>	<i>3.25</i>	<i>2.39</i>	<i>1.698</i>
May - - - -	<i>1.63</i>	<i>.33</i>	<i>2.87</i>	<i>1.62</i>	<i>2.10</i>	<i>2.42</i>	<i>1.87</i>	<i>1.68</i>	<i>.99</i>	<i>3.13</i>	<i>1.864</i>
June - - - -	<i>2.96</i>	<i>2.40</i>	<i>3.22</i>	<i>3.40</i>	<i>1.25</i>	<i>.48</i>	<i>1.89</i>	<i>1.40</i>	<i>.45</i>	<i>1.69</i>	<i>1.914</i>
July - - - -	<i>2.52</i>	<i>3.86</i>	<i>2.36</i>	<i>1.25</i>	<i>.64</i>	<i>2.52</i>	<i>.90</i>	<i>3.13</i>	<i>.52</i>	<i>.33</i>	<i>1.803</i>
August - - -	<i>2.04</i>	<i>1.98</i>	<i>3.58</i>	<i>1.84</i>	<i>.84</i>	<i>2.64</i>	<i>4.10</i>	<i>2.10</i>	<i>1.67</i>	<i>1.40</i>	<i>2.219</i>
September -	<i>.72</i>	<i>2.78</i>	<i>1.16</i>	<i>3.82</i>	<i>2.89</i>	<i>.32</i>	<i>4.53</i>	<i>2.15</i>	<i>2.57</i>	<i>3.19</i>	<i>2.413</i>
October - - -	<i>2.78</i>	<i>1.67</i>	<i>1.82</i>	<i>3.39</i>	<i>4.60</i>	<i>7.05</i>	<i>1.10</i>	<i>.96</i>	<i>2.54</i>	<i>1.31</i>	<i>2.722</i>
November - -	<i>3.93</i>	<i>3.66</i>	<i>.99</i>	<i>3.06</i>	<i>2.73</i>	<i>2.35</i>	<i>4.91</i>	<i>.47</i>	<i>1.92</i>	<i>2.78</i>	<i>2.680</i>
December - -	<i>3.32</i>	<i>1.27</i>	<i>1.18</i>	<i>1.42</i>	<i>3.49</i>	<i>1.01</i>	<i>2.59</i>	<i>2.65</i>	<i>3.49</i>	<i>2.21</i>	<i>2.263</i>
TOTALS -	<i>27.28</i>	<i>22.80</i>	<i>24.32</i>	<i>27.09</i>	<i>25.92</i>	<i>23.09</i>	<i>33.45</i>	<i>23.39</i>	<i>23.77</i>	<i>23.06</i>	<i>25.417</i>

25.22
28.67 (1/7)

This is N. Tyne Valley
H.W.

Rainfall at *Bingfield*, ^{House} *Northumberland.*

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Captⁿ Orde

Diameter of Gauge, in.

Height above Ground, *1* ft. in.

Above Mean Sea Level, *440*[?] ft.

YEAR - -					1864	1865	1866	1867	1868	1869	MEANS.
January - -					#1.11	1.55					
February - -					2.60						
March - - -					3.21	1.14					
April - - -					1.00	.70					
May - - - -					1.61	3.19					
June - - - -					1.63	.63					
July - - - -					.73	3.26					
August - - -					1.56	3.01					
September -					1.82	.45					
October - -					7.50	7.85					
November -					1.95	2.71					
December -					2.40	1.84	*				
TOTALS -					27.12						

✓ e

Stamfordham Northumberland

Rev. J. A. Bigge

Map Ref: 412

2ft 62

600 634 68.69

Diam O in Above Ground 1.2 64868t 69 Sea Level 380 ft 62

YEAR - -	1860	1861	1862	1863	1864	1865	1866	1867	1868	1869	MEANS.
January - -	4.28	.62	2.43	3.63	1.06	1.17	2.28	6.30	3.05	2.28	2.710
February - -	2.08	1.94	1.20	.96	2.30	1.31	2.40	1.07	2.20	2.34	1.780 -
March - - -	2.12	1.58	3.28	2.05	3.17	1.51	2.33	1.32	1.86	1.57	2.079
April - - -	1.24	1.75	1.48	1.64	1.03	1.14	2.59	2.80	2.23	1.93	1.783
May - - - -	1.51	.67	2.73	1.83	2.28	4.12	1.04	2.11	.90	3.47	2.066
June - - - -	5.06	2.51	3.91	3.90	.92	.40	.71	1.10	.42	1.94	2.087
July - - - -	3.81	4.50	1.93	.89	.72	3.48	3.77	3.94	.52	.40	2.396
August - - -	2.40	2.13	4.33	3.63	.69	2.64	4.50	1.70	2.09	1.18	2.529
September -	1.30	3.51	.92	2.83	3.25	.55	5.17	2.30	4.55	3.44	2.782
October - - -	2.93	1.44	1.98	2.94	6.92	6.91	1.32	1.27	1.84	1.64	2.919 +
November - -	4.44	4.51	.83	2.98	2.24	2.76	1.96	.67	2.41	1.70	2.450
December - -	4.09	1.06	.98	1.32	2.35	1.42	2.02	.95	3.33	3.04	2.056
TOTALS -	3526	2622	2600	2860	26.93	2741	30.09	2553	25.40	24.93	27.637

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RAINFALL AT

Stamfordham

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On the Church Tower

By *J. J. Bigge*
 Rain Gauge { Diameter.....*12.0*.....in.

Height above Ground, *4.2* ft. in.

Above Mean Sea Level, *45.6* ft.

YEAR	1860	1861	1862	1863	1864	1865	1866	1867	1868	1869	MEANS.
January						<i>5.82</i>	<i>1.68</i>	<i>4.42</i>	<i>2.25</i>	<i>1.65</i>	
February						<i>.91</i>	<i>1.13</i>	<i>.75</i>	<i>1.70</i>	<i>1.73</i>	
March						<i>1.20</i>	<i>1.48</i>	<i>.91</i>	<i>1.37</i>	<i>.80</i>	
April						<i>.90</i>	<i>1.80</i>	<i>1.94</i>	<i>1.90</i>	<i>1.39</i>	
May						<i>2.92</i>	<i>.70</i>	<i>1.79</i>	<i>.73</i>	<i>2.80</i>	
June						<i>.23</i>	<i>.54</i>	<i>.93</i>	<i>.34</i>	<i>1.71</i>	
July						<i>2.74</i>	<i>2.02</i>	<i>2.91</i>	<i>.40</i>	<i>.30</i>	
August						<i>2.17</i>	<i>3.57</i>	<i>1.66</i>	<i>1.55</i>	<i>.74</i>	
September ...						<i>.40</i>	<i>4.13</i>	<i>2.10</i>	<i>3.96</i>	<i>3.06</i>	
October						<i>5.15</i>	<i>1.03</i>	<i>1.02</i>	<i>1.45</i>	<i>.75</i>	
November ...						<i>2.22</i>	<i>1.50</i>	<i>.60</i>	<i>2.05</i>	<i>1.43</i>	
December						<i>1.16</i>	<i>1.55</i>	<i>.93</i>	<i>2.46</i>	<i>2.00</i>	
TOTALS.....						<i>20.82</i>	<i>21.13</i>	<i>19.96</i>	<i>20.16</i>	<i>18.36</i>	

C C C C C

RAINFALL AT Byrness

New Timothy Wearing

Northumberland

John Nicholson W. Carter Esq.

Rain { By
Gauge { Diameter.....10.....□.....in.

Height above Ground, 2... ft. in.

Rochester
Above Mean Sea Level, 700... ft.

YEAR								1867	1868	1869	MEANS.
January									5.02	4.35	
February									3.63	3.84	
March									3.72	1.22	
April								[#] 4.03	2.68	1.95	
May								2.42	1.59	2.92	
June								1.84	1.01	2.09	
July								5.18	.36	1.34	
August								1.83	3.69	1.28	
September ...								2.27	4.13	4.24	
October								2.30	2.80	2.37	
November38	2.67	2.71	
December								3.82	5.96	6.04	
TOTALS.....									37.26	34.35	

C C C

Deadwater Norwich

New Castleton

M^r. Robt Scott. Shepherd.

+ Ground 1.6

+ Sea Level 2000

YEAR - -	1860	1861	1862	1863	1864	1865	1866	1867	1868	1869	MEANS.
January - -			4.00	0.80	4.20	2.20	8.40	7.00	6.00	5.50	
February - -			2.00	4.10	2.30	2.70	6.00	3.00	8.00	9.00	
March - - -			3.80	2.10	3.20	2.20	3.50	3.10	5.40	3.40	
April - - -			3.50	3.20	2.00	1.00	3.10	4.40	4.00	3.20	
May - - - -			3.40	2.50	2.00	7.00	2.00	3.00	3.00	3.00	
June - - - -			5.20	4.80	3.00	1.00	2.00	2.50	2.00	2.00	
July - - - -			5.10	1.10	2.80	3.00	6.20	5.00	1.00	2.30	
August - - -			6.30	4.30	2.00	3.20	5.00	5.10	5.00	1.60	
September -			6.00	6.30	5.00	1.00	6.00	3.00	4.50	6.00	
October - -			7.10	4.30	6.20	6.00	3.00	4.00	5.00	4.00	
November -			2.00	4.00	5.00	4.20	5.20	2.00	4.40	3.00	
December -			4.60	3.80	5.10	5.10	5.00	3.40	8.00	7.30	
TOTALS -			53.00	49.30	42.80	39.60	55.40	45.50	56.30	50.30	

1868 - Wrongly cast by observer as 56.20 corrected by 9ft

Rainfall at OtterburnNorthumberlandTimothy WaringDiameter of Gauge, 10 in.Height above Ground, 1 ft. 3 in.Above Mean Sea Level, 500 ft.

YEAR - -	1860	1861	1862	1863	1864	1865	1866	1867	1868	1869	MEANS.
January - -						2.03	4.14	5.00	4.15	4.12	
February - -						2.66	4.27	2.12	3.53	3.32	
March - - -						1.63	2.85	3.34	2.53	1.65	
April - - -						.66	2.79	3.23	3.22	1.52	
May - - - -						4.00	1.11	2.35	1.63	2.60	
June - - - -						.42	1.48	1.17	.93	2.04	
July - - - -						4.53	3.21	5.50	.73	1.23	
August - - -						4.57	3.68	1.77	1.99	1.08	
September -						.51	4.58	1.87	4.08	4.60	
October - -						7.77	1.25	1.52	2.38	1.19	
November -						3.19	3.02	.44	2.37	2.39	
December -						2.30	3.65	3.13	5.10	4.14	
TOTALS -						34.27	36.03	31.60	32.64	29.88	

g in garden on rising g^d facing S with hills gradually rising 300 ft. on N & E

1869 Jan'y 10th to 14th Wind changed daily with the Sun
 this seldom occurs in winter, always fine calm weather
 Thrushes singing on the 17th, April 11th heavy S. Had 70°
 July 23rd T and H a beautiful circling waterspout
 Aug^t 31st Potatoes frosted down to the ground
 Nov^r 14th Splendid Lunar rainbow

Wisley side
Northumberland.

W H Charlton

10 in + ground 3 ft

+ Sea Level 420 ft

YEAR - -	1860	1861	1862	1863	1864	1865	1866	1867	1868	1869	MEANS.
January - -		#		7.45		1.85	6.75	3.60	4.96	4.14	
February - -				2.17		2.55	6.06	3.16	6.33	9.62	
March - - -				1.23		1.91	2.48	2.54	4.86	1.90	
April - - - -				3.51		1.22	4.12	3.90	4.49	2.68	
May - - - - -				3.29		2.99	1.79	2.93	2.79	4.51	
June - - - - -				4.85		.57	2.42	2.59	.29	2.60	
July - - - - -				.69		6.13	4.02	5.38	.12	1.24	
August - - -				4.17		4.38	4.69	2.78	4.01	1.78	
September -				7.74		.75	7.99	3.46	4.50	7.42	
October - - -				4.50		8.70	2.00	3.06	3.87	2.95	
November -				3.55		4.73	5.97	.36	3.64	5.27	
December -				3.52		3.27	5.90	3.83	9.95	5.41	
TOTALS -				46.67		39.05	54.19	37.59	49.81	49.52	

Average supposed to be 44.00

62 & 64 have been asked for twice

Parkend

60

Nexham

Matthew A. Ridley

276 624

12ⁱⁿ + Ground 3ⁱⁿ + Sea Level 300^{ft}

YEAR - -	1860	1861	1862	1863	1864	1865	1866	1867	1868	1869	MEANS.
January - -	2.24	2.64	4.00	7.73	3.52	1.86	5.50	5.40	4.08	2.80	3.977 +
February - -	4.30	2.39	1.23	2.49	3.37	4.50	3.59	2.47	6.02	5.60	3.596
March - - -	1.97	3.61	3.26	1.23	3.16	1.26	2.25	1.51	3.40	1.15	2.280
April - - -	.73	.94	2.18	2.87	.90	.79	2.67	3.34	2.75	2.12	1.929 -
May - - - -	1.90	.53	3.51	2.53	2.04	3.51	1.39	2.13	1.29	2.36	2.119
June - - - -	4.39	1.89	2.93	6.52	1.92	.52	2.82	1.31	.79	1.77	2.486
July - - - -	1.26	2.79	3.10	1.11	.68	3.65	4.18	3.83	.47	.93	2.200
August - - -	2.68	3.03	2.77	2.72	1.08	3.00	3.22	2.20	2.52	1.27	2.457
September -	.84	3.86	1.70	3.55	2.88	.50	5.02	2.36	3.60	4.85	2.916
October - -	4.19	1.05	5.36	4.12	4.53	5.24	1.87	1.85	2.43	1.91	3.255
November -	1.80	6.67	2.13	3.62	1.41	3.36	4.88	.42	2.29	4.34	3.092
December -	4.74	1.67	2.57	3.22	3.53	1.53	4.44	1.71	4.69	4.33	3.243
TOTALS -	31.04	31.07	34.74	41.71	29.02	29.80	41.83	28.53	34.33	33.43	33.550

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1863 Jan 20th Snow = 1.79 in

" June 9th Thunderstorm a great part of the day the fall in 24 hours being 2.63 in

Dec?

3573

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Rainfall at Hallington.

h & y W W

D. D. Main

469 Whiston

Diameter of Gauge, in.

Height above Ground, ft. 6 in.

Above Mean Sea Level, 1400 ft.

YEAR - -	1862	1863	1864	1865	1866	1867	1868	1869	MEANS.
January - -	1.70	4.60	1.10	.97	3.18	2.92	2.75	1.28	
February - -	1.73	1.64	2.02	1.70	3.11	2.31	3.57	3.76	
March - - -	3.07	2.23	2.98	.94	2.65	.93	2.63	1.43	
April - - -	1.67	2.06	1.39	1.07	3.07	3.67	3.56	2.16	
May - - - -	2.71	2.13	1.55	3.32	1.90	1.74	1.04	2.72	
June . - - -	4.16	3.73	2.12	.47	1.94	1.35	.40	1.80	
July - - - -	1.98	1.51	.44	2.82	1.06	3.48	.41	.30	
August - - -	3.81	2.08	.95	2.43	3.89	2.32	1.02	1.69	
September -	1.87	3.12	2.38	.73	4.99	2.06	1.41	4.99	
October - -	2.36	4.43	5.51	7.25	1.12	1.26	4.91	1.90	
November -	.97	2.40	2.29	2.61	4.18	.42	2.44	3.40	
December -	1.59	2.73	3.54	1.41	2.33	2.61	4.55	3.11	
TOTALS -	27.62	32.66	26.27	25.72	33.42	25.07	28.69	28.54	

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RAINFALL AT *Fawcett n Hallington*

Observer.....*D. D. Mason*.....

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

Height above Ground,.....ft....*6*....in. Above Mean Sea Level.....*563*....ft.

YEAR.....			<i>1862</i>	<i>1863</i>	<i>1864</i>	<i>1865</i>	<i>1866</i>	<i>1867</i>	<i>1868</i>	<i>1869</i>	MEANS.
January.....			<i>1.75</i>	<i>4.47</i>	<i>1.12</i>	<i>.74</i>	<i>2.75</i>	<i>3.14</i>	<i>2.77</i>	<i>1.35</i>	
February			<i>1.92</i>	<i>1.48</i>	<i>1.92</i>	<i>3.24</i>	<i>2.71</i>	<i>2.66</i>	<i>3.23</i>	<i>3.29</i>	
March			<i>3.35</i>	<i>2.05</i>	<i>2.81</i>	<i>.73</i>	<i>2.75</i>	<i>1.65</i>	<i>2.32</i>	<i>1.29</i>	
April.....			<i>1.70</i>	<i>2.02</i>	<i>1.26</i>	<i>.99</i>	<i>2.98</i>	<i>3.66</i>	<i>3.24</i>	<i>2.18</i>	
May			<i>2.90</i>	<i>2.11</i>	<i>1.42</i>	<i>3.12</i>	<i>1.80</i>	<i>1.81</i>	<i>.96</i>	<i>2.55</i>	
June.....			<i>4.11</i>	<i>3.64</i>	<i>1.90</i>	<i>.53</i>	<i>2.04</i>	<i>1.24</i>	<i>.39</i>	<i>1.63</i>	
July			<i>2.12</i>	<i>1.43</i>	<i>.37</i>	<i>2.80</i>	<i>.95</i>	<i>3.06</i>	<i>.37</i>	<i>.40</i>	
August			<i>3.76</i>	<i>2.01</i>	<i>.86</i>	<i>2.35</i>	<i>3.43</i>	<i>2.29</i>	<i>1.07</i>	<i>1.64</i>	
September.....			<i>1.71</i>	<i>3.18</i>	<i>2.24</i>	<i>.68</i>	<i>4.85</i>	<i>1.92</i>	<i>1.31</i>	<i>4.89</i>	
October			<i>1.01</i>	<i>4.31</i>	<i>5.25</i>	<i>6.48</i>	<i>1.11</i>	<i>1.20</i>	<i>4.86</i>	<i>2.00</i>	
November.....			<i>.98</i>	<i>2.47</i>	<i>2.14</i>	<i>2.55</i>	<i>3.89</i>	<i>.38</i>	<i>2.28</i>	<i>2.70</i>	
December.....			<i>1.54</i>	<i>2.39</i>	<i>3.49</i>	<i>1.23</i>	<i>2.09</i>	<i>2.75</i>	<i>4.28</i>	<i>3.03</i>	
TOTALS			<i>25.95</i>	<i>31.56</i>	<i>24.78</i>	<i>25.44</i>	<i>31.35</i>	<i>25.66</i>	<i>27.08</i>	<i>26.95</i>	

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RAINFALL AT Green Craig North Lyme

h & g WW

Observer.....D. D. Main.....

Rain { By.....

Gauge { Diameter.....in.

Height above Ground,.....ft.....6in.

Above Mean Sea Level.....800ft.

YEAR.....			1862	1863	1864	1865	1866	1867	1868	1869	MEANS.
January.....			⁴ 1.85	4.98	1.73	1.08	3.15 3.14	3.35	2.69	1.40	
February			1.71	1.84	1.48	2.50	2.66	2.77	3.69	3.92	
March			3.38	1.65	2.65	1.08	2.78	.93	2.85	1.26	
April			1.99	2.09	1.25	1.31	3.01	4.98	3.66	2.18	
May			2.51	2.21	1.69	3.17	1.86	2.17	1.15	2.61	
June			4.47	3.81	2.17	.50	2.15 2.14	1.18	.50	1.64	
July			2.45	1.44	.43	3.32	1.56	3.28	.54	.63	
August			4.31	2.24	1.02	2.61	3.75 3.74	3.03	1.62	1.91	
September.....			2.03	2.93	3.04	.76	4.63 4.62	2.25	1.59	6.23	
October			2.41	4.84	5.71	6.49	2.52 1.12	1.65	5.14	1.56	
November.....			.65	2.15	1.73	2.66	3.39 4.79	.42	1.88	3.27	
December			1.70	2.13	2.91	1.57	2.76	2.58	4.58	3.98	
TOTALS			29.46	32.31	25.81	27.05	34.28 34.22	28.49	29.89	30.59	

1866 Figures sent by D. D. Main 11.10.77

Rainfall at *Campkill, Gunnerton Burn*

60

D. D. Main.

Diameter of Gauge, in.

Height above Ground, ft. *6* in.

Above Mean Sea Level, *674* ft.

YEAR - -											MEANS.
		<i>1862</i>	<i>1863</i>	<i>1864</i>	<i>1865</i>	<i>1866</i>	<i>1867</i>	<i>1868</i>	<i>1869</i>		
January - -		<i>1.42</i>	<i>3.42</i>	<i>1.32</i>	<i>1.09</i>	<i>3.24</i>	<i>3.58</i>	<i>2.90</i>	<i>1.27</i>		
February - -		<i>1.44</i>	<i>1.29</i>	<i>2.22</i>	<i>1.87</i>	<i>2.84</i>	<i>2.41</i>	<i>3.78</i>	<i>3.80</i>		
March - - -		<i>2.33</i>	<i>1.21</i>	<i>2.04</i>	<i>1.11</i>	<i>2.63</i>	<i>1.53</i>	<i>2.71</i>	<i>1.44</i>		
April - - -		<i>1.53</i>	<i>2.02</i>	<i>.66</i>	<i>1.29</i>	<i>2.99</i>	<i>5.27</i>	<i>3.84</i>	<i>2.57</i>		
May - - - -		<i>2.04</i>	<i>2.30</i>	<i>1.32</i>	<i>3.16</i>	<i>1.87</i>	<i>2.29</i>	<i>1.18</i>	<i>2.68</i>		
June - - - -		<i>3.25</i>	<i>3.82</i>	<i>1.96</i>	<i>.49</i>	<i>1.91</i>	<i>1.36</i>	<i>.68</i>	<i>1.78</i>		
July - - - -		<i>1.99</i>	<i>1.58</i>	<i>.39</i>	<i>3.42</i>	<i>1.23</i>	<i>3.22</i>	<i>.39</i>	<i>.46</i>		
August - - -		<i>2.86</i>	<i>2.13</i>	<i>.78</i>	<i>2.54</i>	<i>4.18</i>	<i>3.27</i>	<i>1.45</i>	<i>1.70</i>		
September -		<i>1.53</i>	<i>2.83</i>	<i>2.05</i>	<i>.71</i>	<i>4.68</i>	<i>2.09</i>	<i>1.59</i>	<i>5.72</i>		
October - -		<i>1.71</i>	<i>4.05</i>	<i>4.62</i>	<i>6.63</i>	<i>2.65</i>	<i>1.36</i>	<i>5.15</i>	<i>1.58</i>		
November -		<i>.90</i>	<i>2.43</i>	<i>1.28</i>	<i>2.89</i>	<i>3.13</i>	<i>.40</i>	<i>2.14</i>	<i>3.08</i>		
December -		<i>1.20</i>	<i>2.96</i>	<i>2.96</i>	<i>1.34</i>	<i>2.75</i>	<i>3.17</i>	<i>4.79</i>	<i>3.82</i>		
TOTALS -		<i>22.19</i>	<i>30.04</i>	<i>21.60</i>	<i>26.54</i>	<i>34.10</i>	<i>29.95</i>	<i>30.60</i>	<i>29.90</i>		

1866 Figures sent by D. D. Main 11.10.77

Rainfall at *Valley of North Tyne*

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D.D. Main.

Diameter of Gauge, in.

Height above Ground, ft. *6* in.

Above Mean Sea Level, *300* ft.

YEAR - -												MEANS.
			<i>1862</i>	<i>1863</i>	<i>1864</i>	<i>1865</i>	<i>1866</i>	<i>1867</i>	<i>1868</i>	<i>1869</i>		
January - -			<i># 1.71</i>	<i>4.03</i>	<i>1.41</i>	<i>1.09</i>	<i>3.89</i>	<i>2.86</i>	<i>2.72</i>	<i>1.31</i>		
February - -			<i>1.71</i>	<i>2.45</i>	<i>1.62</i>	<i>1.26</i>	<i>3.02</i>	<i>2.59</i>	<i>4.19</i>	<i>4.21</i>		
March - - -			<i>3.22</i>	<i>1.93</i>	<i>3.02</i>	<i>1.46</i>	<i>2.51</i>	<i>.55</i>	<i>3.14</i>	<i>1.34</i>		
April - - -			<i>2.03</i>	<i>2.62</i>	<i>1.47</i>	<i>1.07</i>	<i>2.14</i>	<i>5.10</i>	<i>3.60</i>	<i>2.38</i>		
May - - - -			<i>1.52</i>	<i>1.22</i>	<i>1.55</i>	<i>3.26</i>	<i>1.87</i>	<i>2.10</i>	<i>.95</i>	<i>2.57</i>		
June - - - -			<i>3.16</i>	<i>3.96</i>	<i>2.27</i>	<i>.47</i>	<i>1.89</i>	<i>1.20</i>	<i>.81</i>	<i>1.23</i>		
July - - - -			<i>2.20</i>	<i>1.25</i>	<i>.41</i>	<i>2.42</i>	<i>.90</i>	<i>3.05</i>	<i>.33</i>	<i>.48</i>		
August - - -			<i>3.48</i>	<i>2.38</i>	<i>.65</i>	<i>2.74</i>	<i>4.10</i>	<i>3.20</i>	<i>1.50</i>	<i>1.79</i>		
September -			<i>1.42</i>	<i>3.26</i>	<i>2.41</i>	<i>.73</i>	<i>4.53</i>	<i>2.05</i>	<i>1.76</i>	<i>5.54</i>		
October - -			<i>3.23</i>	<i>5.95</i>	<i>4.68</i>	<i>1.09</i>	<i>1.10</i>	<i>1.38</i>	<i>5.20</i>	<i>1.68</i>		
November -			<i>1.72</i>	<i>2.23</i>	<i>1.21</i>	<i>2.84</i>	<i>4.91</i>	<i>.38</i>	<i>1.66</i>	<i>3.32</i>		
December -			<i>1.28</i>	<i>3.03</i>	<i>2.98</i>	<i>.97</i>	<i>2.59</i>	<i>2.51</i>	<i>4.25</i>	<i>3.35</i>		
TOTALS -			<i>26.68</i>	<i>34.31</i>	<i>23.68</i>	<i>24.40</i>	<i>33.45</i>	<i>26.97</i>	<i>30.11</i>	<i>29.20</i>		

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Rainfall at Woodford (Northumberland)

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D. D. Main

Diameter of Gauge, in.

Height above Ground, ft. 6 in.

Above Mean Sea Level, 500 ft.

YEAR - -			1862	1863	1864	1865	1866	1867	1868	1869	MEANS.
January - -		#	1.49	4.22	1.36	1.02	3.10	3.06	2.67	1.37	
February - -			1.63	1.22	2.12	2.26	2.51	3.56	3.39	3.38	
March - - -			2.92	1.58	2.63	.98	4.04	1.60	2.52	1.36	
April - - -			1.53	1.66	1.38	1.08	2.84	5.21	3.75	2.61	
May - - - -			1.97	1.93	1.60	2.98	1.75	2.18	1.22	2.62	
June - - - -			3.89	3.77	1.82	.50	1.78	1.25	.55	1.82	
July - - - -			2.19	1.57	.42	3.21	1.04	3.40	.50	.38	
August - - -			3.48	1.99	.87	2.42	4.17	2.57	1.30	1.75	
September -			1.55	2.78	2.29	.72	4.72	2.09	1.51	5.31	
October - -			1.96	4.39	5.23	6.72	1.18	1.20	4.99	1.65	
November -			.93	2.30	2.05	2.84	4.18	.38	2.30	3.22	
December -			1.39	2.84	2.90	1.29	2.53	3.15	4.47	3.89	
TOTALS -			24.93	30.25	24.67	26.02	33.84	29.65	29.17	29.36	

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RAINFALL AT Newcastle on Tyne

Belsay Castle

W. Jackson

Rain { By.....

Gauge { Diameter.....in.

Height above Ground, ft. in.

Above Mean Sea Level, ft.

YEAR.....	1860	1861	1862	1863	1864	1865	1866	1867	1868	1869	MEANS.
January						2.10					
February						1.54					
March						1.16					
April						1.29					
May						3.27					
June.....						.64					
July						4.45					
August.....						2.16					
September84					
October.....						8.31					
November.....						2.85					
December.....						2.28					
TOTALS						30.89					

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RAINFALL AT Wellington

Herbert Laws Northumberland

55° 9' 12" N
1° 56' 35" W

Rain { By basella
Gauge { Diameter 5 in.

Height above Ground, 1 ft. in.

Above Mean Sea Level, 398 ft.

YEAR.....							1866	1867	1868	1869	MEANS.
January							3 48	4.71	4.05	2.59	
February							3.67	1.56	3.48	3.01	
March							3.14	2.57	1.59	2.36	
April							3.31	2.22	3.49	2.12	
May							1.49	1.97	1.03	3.17	
June.....							1.96	1.88	.42	1.95	
July							3.12	5.10	.54	1.00	
August.....							3.23	2.08	2.27	1.19	
September ...							5.35	2.16	4.25	4.38	
October.....							1.20	1.56	2.21	1.83	
November.....							3.07	.51	2.83	2.46	
December.....							3.14	2.77	5.31	3.19	
TOTALS							36.10	29.03	31.47	29.25	

C C C C

Rainfall at *Brenckburn Priory*

60

9 m N.W. nr Morpeth.

C. H. Cadogan.

1 65 66 68

Diameter of Gauge, ...⁵..... in.

Height above Ground, ⁴ ft. in.

Above Mean Sea Level, ²⁰⁰... ft.

Basella

YEAR - -					1864	1865	1866	1867	1868	1869	MEANS.
January - -					1.12	2.49	3.06	10.89	2.28	2.45	
February - -					2.42	2.19	2.84	1.18	2.76	1.91	
March - - -					3.41	1.30	3.80	2.81	1.31	2.73	
April - - -					.95	.83	3.06	1.79	3.77	1.41	
May - - - -					2.15	3.61	1.53	2.35	.48	2.45	
June - - - -					1.78	.41	1.47	1.35	.55	.15	
July - - - -					.35	2.86	4.46	4.48	.46	.79	
August - - -					1.21	3.12	3.10	1.67	4.28	1.34	
September -					2.03	.23	4.27	2.33	3.60	3.61	
October - -					7.94	10.11	1.18	1.64	2.01	2.67	
November -					2.60	3.20	2.37	.37	2.82	1.86	
December -					3.58	2.10	2.73	2.82	5.37	3.87	
TOTALS -					29.54	32.45	33.87	33.68	29.69	25.24	

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1864 Keen frost on 31st of May, young fronds of ferns all killed & great damage done in the garden.
Last fortnight of Oct^r very wet 7.82 falling between the 19th & 31st.

1865 4 in short grass 1 ft + ground in a garden

RAINFALL AT *Grayside Rothbury*
Northumberland

Observer... *Sir W G Armstrong*...
Spor New R & Whaler

Rain { By.....
Gauge {
Diameter..... *2*in. Height above Ground, *1*ft.....in. Above Mean Sea Level... *400*ft.

YEAR.....										<i>1869</i>	MEANS.
January.....										<i>1.95</i>	
February										<i>1.68</i>	
March										<i>3.41</i>	
April.....										<i>1.87</i>	
May										<i>3.60</i>	
June.....										<i>2.35</i>	
July										<i>.15</i>	
August.....										<i>1.72</i>	
September.....										<i>2.25</i>	
October										<i>2.78</i>	
November.....										<i>1.89</i>	
December.....										<i>3.29</i>	
TOTALS										<i>25.54</i>	<i>26.94</i>

C

Alnwick, High House Mile $\frac{1}{2}$ from

Mr. James Scott

Gauge

6 in + ground

400 ft + s l

YEAR - -	1860	1861	1862	1863	1864	1865	1866	1867	1868	1869	MEANS.
January - -	4.50	4.50	2.14	3.16	.94						
February - -	1.80	2.02	2.77	.34	3.45						
March - - -	2.10	2.09	4.65	1.21	3.98						
April - - -	1.20	2.02	1.17	1.44	1.26						
May - - - -	2.10	1.34	2.11	1.62	3.25						
June - - - -	3.10	2.60	3.08	4.08	1.23						
July - - - -	2.70	2.20	2.21	.88	.70						
August - - -	3.00	2.20	6.40	2.63	1.59						
September -	1.70	4.40	1.05	2.83	2.66						
October - -	2.90	1.03	2.43	3.13	7.70						
November -	5.60	4.27	1.14	3.52	3.13						
December -	5.90	1.30	1.87	2.21	3.31						
TOTALS -	36.60	29.97	31.02	27.05	33.20						

Jan 61. 4.50 is correct

1861 Jan It was principally dissolved snow, and what brings it to my recollection, I did not get my Pease crop from the fields until Jan 21. 1861, having been cut nearly 3 months.

We even had the snow to cast from the stacks in the fields in Jan. to get them dried, the crop was only fit for pigs at last.

I am aware there was not so much winter north or south in that winter, as in the past.

Glanville Pike

^{J.W.}
Fred^c Collingwood Esq. 4 ft 3 69
7 1/2 in 65

8 + Ground 2 ft + Sea level 534 ft

YEAR - -	1860	1861	1862	1863	1864	1865	1866	1867	1868	1869	MEANS.
January - -				4.45	1.66	3.14	3.15	5.31	3.24	3.14	
February - -			^x .48	.45	.76	1.52	3.45	1.06	2.06	1.90	
March - - -			4.16	1.60	5.08	1.75	3.72	2.81	1.44	1.65	
April - - - -			.44	1.27	1.43	.82	2.79	2.23	3.72	1.27	
May - - - - -			2.51	2.05	2.53	4.89	1.05	2.01	.92	2.66	
June - - - - -			3.67	4.08	1.91	.28	1.20	1.56	.59	2.20	
July - - - - -			1.57	.43	.92	3.70	5.72	4.63	.68	.99	
August - - -			5.29	2.79	.94	3.12	3.46	1.91	4.09	1.41	
September -			.82	4.33	1.47	.17	3.62	1.58	4.27	3.48	
October - -			2.51	3.51	8.56	10.27	1.37	1.37	1.91	2.05	
November -			1.63	3.02	1.14	2.53	2.42	.35	3.00	1.75	
December -			1.73	2.08	2.29	2.07	3.11	3.00	4.22	2.64	
TOTALS -				30.06	28.69	34.26	35.06	27.82	30.14	25.14	

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Noddam Hall Alnwick

Henry Eastwood
3 1/2 Rods

+ Ground bin + Sea Level 545 ft

YEAR - -	1860	1861	1862	1863	1864	1865	1866	1867	1868	1869	MEANS.
January - -		4.73	2.81	4.68	1.58	3.05					
February - -		2.53	1.94	.67	4.03	1.94					
March - - -		2.77	5.15	.65	4.62	1.53					
April - - - -		2.14	2.35	2.29	.66	.99					
May - - - -		1.11	2.09	1.95	3.02	1.67					
June - - - -		1.24	3.41	2.38	.99	1.21					
July - - - -		1.49	2.54	1.12	1.26	3.30					
August - - -		3.34	6.81	4.49	.97	1.75					
September -		2.97	1.15	2.51	2.79	.07					
October - -		1.98	4.14	2.77	8.56	10.43					
November -		3.66	1.21	1.73	3.44	3.55					
December -		2.31	2.40	1.14	3.96	2.23					
TOTALS -		26.27	36.00	26.38	35.88	31.72					

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RAINFALL AT *North Sunderland*

60

Chathill

J R Simpson

11 m N of Alnwick

Rain { By *H & Z*

60 68

Gauge { Diameter.....*0*.....in.

Height above Ground, *1*.... ft. *2*.... in.

Above Mean Sea Level, *120*.... ft.

YEAR	1860	1861	1862	1863	1864	1865	1866	1867	1868	1869	MEANS.
January				<i>#3.05</i>	<i>1.13</i>	<i>2.24</i>	<i>1.97</i>	<i>4.92</i>	<i>1.65</i>	<i>2.61</i>	
February				<i>.33</i>	<i>3.22</i>	<i>1.56</i>	<i>1.70</i>	<i>.42</i>	<i>.81</i>	<i>.77</i>	
March				<i>.98</i>	<i>4.34</i>	<i>1.75</i>	<i>3.00</i>	<i>1.97</i>	<i>1.10</i>	<i>1.00</i>	
April				<i>1.07</i>	<i>1.22</i>	<i>1.19</i>	<i>1.65</i>	<i>1.82</i>	<i>2.51</i>	<i>.76</i>	
May				<i>2.37</i>	<i>3.58</i>	<i>4.47</i>	<i>.91</i>	<i>1.81</i>	<i>.88</i>	<i>1.99</i>	
June				<i>3.49</i>	<i>1.29</i>	<i>.54</i>	<i>1.19</i>	<i>1.35</i>	<i>.32</i>	<i>1.56</i>	
July				<i>1.31</i>	<i>.47</i>	<i>2.50</i>	<i>4.11</i>	<i>4.03</i>	<i>.74</i>	<i>.64</i>	
August				<i>4.25</i>	<i>1.58</i>	<i>4.25</i>	<i>2.34</i>	<i>2.25</i>	<i>3.08</i>	<i>1.37</i>	
September ...				<i>1.83</i>	<i>3.08</i>	<i>.65</i>	<i>2.95</i>	<i>1.76</i>	<i>3.98</i>	<i>3.48</i>	
October				<i>2.84</i>	<i>5.70</i>	<i>8.15</i>	<i>1.62</i>	<i>1.29</i>	<i>2.62</i>	<i>2.03</i>	
November ...				<i>3.73</i>	<i>2.73</i>	<i>3.67</i>	<i>2.14</i>	<i>.39</i>	<i>2.03</i>	<i>1.85</i>	
December				<i>3.65</i>	<i>2.75</i>	<i>1.50</i>	<i>2.17</i>	<i>2.39</i>	<i>3.51</i>	<i>2.03</i>	
TOTALS				<i>28.90</i>	<i>31.09</i>	<i>32.47</i>	<i>25.75</i>	<i>24.40</i>	<i>23.23</i>	<i>20.09</i>	

"The early C C C C C C C C"

Silburn Towers

nr. Alnwick 4 miles N of Roddam

~~John Deas~~ 61.

Edw^d J. Collingwood

10 in □

+ Ground 6 ft. + Sea Level 290

YEAR - -	1860	1861	1862	1863	1864	1865	1866	1867	1868	1869	MEANS.
January - -	4.07	1.14	1.68	3.42	.90	2.10	2.46	4.74	3.02	2.13	2.566
February - -	2.18	2.12	1.50	.50	2.41	1.05	3.09	.82	1.20	1.23	1.610
March - - -	2.53	1.70	3.88	1.21	2.58	1.26	3.67	2.32	1.13	1.81	2.209
April - - -	1.05	2.36	1.40	1.02	.91	.85	2.00	2.44	2.85	.89	1.577 -
May - - -	.28	1.22	2.17	1.59	3.06	4.93	1.01	1.77	1.35	2.61	1.999
June - - -	3.93	1.16	3.12	3.88	.87	.59	.87	1.50	.51	2.25	1.868
July - - -	3.19	1.81	1.68	1.09	1.32	2.87	5.26	5.17	.58	.77	2.374
August - -	3.56	2.39	5.46	3.13	.92	2.60	3.35	1.55	3.61	1.43	2.800
September	1.91	4.21	.68	3.19	2.62	.23	2.10	1.62	3.76	3.72	2.404
October -	2.72	.75	5.86	1.93	10.58	8.47	1.21	1.24	1.56	2.03	3.635 +
November	5.01	5.35	.77	2.62	3.04	4.08	3.10	2.0	3.33	2.11	2.967
December	3.78	1.81	1.84	2.28	2.76	1.36	1.94	3.18	4.54	2.99	2.648
TOTALS	34.21	26.02	30.04	25.86	31.97	30.39	30.46	26.61	27.44	23.97	28.657

+ C C C C C C C C C C

Rainfall at Howick Northumberland

60

1 m W of Sea.

Fredk Moore

125 66

10 65 68

129 65

Diameter of Gauge, in.

Height above Ground, ft. in.

Above Mean Sea Level, 120 ft.

68

YEAR - -	1860	1861	1862	1863	1864	1865	1866	1867	1868	1869	MEANS.
January - -				#	1.56	1.05	1.86	2.24	4.97	1.90	2.68
February - -				.21	2.90	.70	2.24	.71	1.32	1.34	
March - - -				.95	2.75	.96	3.62	1.75	1.59	1.33	
April - - -				.96	.35	1.02	1.73	1.63	2.85	1.17	
May - - - -				1.35	1.65	5.06	.99	1.87	.70	2.26	
June - - - -				3.22	.52	.55	1.47	1.34	.37	1.79	
July - - - -				1.06	.64	2.18	4.62	3.80	.78	.43	
August - - -				2.57	1.62	4.25	2.81	2.49	3.06	1.55	
September -				3.10	2.40	.32	3.76	2.34	3.85	3.31	
October - - -				3.12	4.24	7.11	1.94	1.43	2.26	2.19	
November - -				1.24	1.51	3.13	1.18	.43	2.53	2.39	
December - -				2.49	2.38	1.42	2.28	2.22	4.01	2.22	
TOTALS - -				21.83	22.01	20.64	28.88	24.98	25.22	22.66	

g about 1 m from the sea a thin plantation about 40 yds distant.
Returns go back some years but D Grey has no confidence in them before 1863.

Up to Oct: 1865 the g. was a 12" float with its mouth 4 ft above the ground, outside the garden, with a thin belt of trees 120 ft off. in N & E and a high garden wall 35 ft to the W of it.

In Nov: 1865 and thenceforward an 8 in N & E g. was partly sunk in the garden, surrounded by moss to prevent splashing - walls to N & E distant about 55 ft - the gauges agree.

Rainfall at *Milfield* nr *Wooler*
Northumberland.

60

G. A. Grey.

Diameter of Gauge, *5*..... in.

Height above Ground, ft. *4*..... in.

Above Mean Sea Level, *200*..... ft.

basilla

YEAR - -					1864	1865	1866	1867	1868	1869	MEANS.
January - -					<i>.73</i>	2.23	2.70	3.33	3.14	2.44	
February - -					3.20	1.39	3.71	.51	1.82	.94	
March - - -					2.53	1.18	3.35	2.51	2.27	1.66	
April - - -					1.31	.87	1.54	2.27	3.53	1.23	
May - - - -					3.04	4.69	1.05	1.61	1.10	2.78	
June - - - -					1.48	.42	1.22	2.26	.42	2.23	
July - - - -					1.31	2.19	6.06	0.16	.65	.82	
August - - -					.87	3.64	3.56	1.56	2.70	1.28	
September -					2.63	.52	2.62	1.58	4.17	3.89	
October - -					7.42	0.22	1.00	1.14	1.68	2.10	
November -					2.70	1.94	3.16	.30	2.39	1.69	
December -					2.91	1.36	2.21	3.22	3.64	2.28	
TOTALS -					30.13	28.65	32.18	28.45	27.51	23.34	

G. sunk in grass lawn unsheltered

1867 July 17th 1.58; 19th 1.55; 22nd .92; 23rd 1.92
 24th 1.39; 25th .61

Rainfall at *Middleton Hall* *nr Belford*
Northumberland.
J. Fowlerton Leather

Diameter of Gauge, *10.5* in.

Height above Ground, *2* ft. in.

Above Mean Sea Level, *240* ft.

YEAR - -					1864	1865	1866	1867	1868	1869	MEANS.
January - -					<i>1.47</i>	<i>2.64</i>	<i>2.05</i>	<i>1.75</i>	<i>2.57</i>	<i>2.53</i>	
February - -					<i>2.18</i>	<i>.60</i>	<i>2.85</i>	<i>.50</i>	<i>1.73</i>	<i>1.26</i>	
March - - -					<i>2.76</i>	<i>1.81</i>	<i>3.82</i>	<i>1.87</i>	<i>1.50</i>	<i>1.23</i>	
April - - -					<i>1.04</i>	<i>.85</i>	<i>1.64</i>	<i>1.80</i>	<i>3.00</i>	<i>2.07</i>	
May - - - -					<i>2.82</i>	<i>5.54</i>	<i>1.10</i>	<i>2.08</i>	<i>1.56</i>	<i>3.00</i>	
June - - - -					<i>1.70</i>	<i>1.47</i>	<i>.96</i>	<i>2.78</i>	<i>.73</i>	<i>.44</i>	
July - - - -					<i>1.89</i>	<i>1.28</i>	<i>3.69</i>	<i>3.44</i>	<i>.83</i>	<i>.03</i>	
August - - -					<i>1.12</i>	<i>2.24</i>	<i>4.07</i>	<i>3.90</i>	<i>4.96</i>	<i>2.65</i>	
September -					<i>3.54</i>	<i>.63</i>	<i>1.47</i>	<i>2.04</i>	<i>4.06</i>	<i>3.72</i>	
October - -					<i>6.33</i>	<i>0.01</i>	<i>.47</i>	<i>1.16</i>	<i>2.16</i>	<i>1.62</i>	
November -					<i>2.67</i>	<i>2.14</i>	<i>3.40</i>	<i>.46</i>	<i>2.32</i>	<i>2.87</i>	
December -					<i>2.58</i>	<i>1.71</i>	<i>1.37</i>	<i>2.42</i>	<i>3.78</i>	<i>1.89</i>	
TOTALS -					<i>30.10</i>	<i>28.92</i>	<i>26.89</i>	<i>24.20</i>	<i>29.20</i>	<i>23.21</i>	

In 1868 W. Leather sent (for his assistant) the return for 1867 as entered above. In 1872 he sent the following values,
Jan Feb Mar April May June July Aug Sept Oct Nov Dec Total
.29, 1.96, 1.87, 1.79, 1.46, .94, .55, 1.33, 1.34, .47, 2.13, 24.105
 Although their obvious inaccuracy was pointed out he adhered to them, various calculations having shown that the original return is far nearer what is probably correct. I decline to alter them. *JA*