

RAIN FALL IN GREAT BRITAIN AND IRELAND.

ENGLAND AND WALES:

DIVISION I.—MIDDLESEX.

STATIONS.	AUTHORITIES.	Height above Sea Level.	DEPTH OF RAIN.			
			1860	1861	1862	Average for 3 years.
		feet.	inches.	inches.	inches.	inches.
MIDDLESEX—						
Chiswick	<i>Gardeners' Chronicle.</i>	...	30.08	19.48	...	...
Staines	W. Menzies, Esq.	...	...	...	22.79	...
Whitehall	British Met. S. Report	...	27.50	...	...	...
Hammersmith	F. J. Burge, Esq.	12?	...	...	26.64	...
Guildhall	W. Haywood, Esq.	51	28.91	20.87	25.24	25.00
"	"	123	...	18.78	24.04	...
Bryanstone Square	C. O. F. Cator, Esq.	...	...	...	27.34	...
Chiswell Street	W. Fletcher, Esq.	...	...	22.85	25.74	...
Mile End	F. Charrington, Esq.	...	...	...	25.50	...
Gray's Inn Road	Mr. R. Strachan	55	...	...	25.67	...
St. John's Wood	Mr. Carter	161	34.60	21.43	28.84	28.29
Camden Town	G. J. Symons, Esq.	100	32.24	22.34	27.57	27.38
Hackney	Dr. Tripe	40	33.10	21.02	29.82	27.84
Finchley Road	G. W. Moon, Esq.	270	...	20.63	...	...
"	"	306	...	13.96	...	...
Tottenham	W. D. Howard, Esq.	60	34.37	20.18	26.48	27.01
" (Vicarage)	Rev. J. S. Winter	...	...	21.41	...	...
Colney Hatch Asylum	Mr. R. G. Rose	...	...	...	26.97	...
Enfield Vicarage	Rev. J. M. Heath	140	34.57	20.02	26.41	27.00

DIVISION II.—SOUTH-EASTERN COUNTIES.

SURREY—						
Godalming (Dunsfold)	W. L. Woods, Esq.	...	...	24.04	25.10	...
Red Hill (Ham)	J. G. Marriage, Esq.	...	34.75	24.15	29.84	29.58
Wonersh (Bramley)	W. L. Woods, Esq.	...	38.14	...	...	...
Dorking (Kitlands)	D. D. Heath, Esq.	580	40.07	30.51	32.22	34.27
" (Deepdene)	Mr. J. B. Whiting	...	37.43	27.38	29.95	31.59
" (Denbies)	Mr. J. Drewett	600	...	25.22	...	...
Betchworth (Brockham)	W. Bennett, Esq.	130	33.12	24.78	29.48	29.13
" (The Holmes)	E. T. Bennett, Esq.	300?	...	25.97	32.10	...

DIVISION II.—SOUTH-EASTERN COUNTIES. (Continued.)

STATIONS.	AUTHORITIES.	Height above Sea Level.	DEPTH OF RAIN.			
			1860	1861	1862	Average for 3 years.
		feet.	inches.	inches.	inches.	inches.
SURREY—(Cont.)						
Cobham	Miss Molesworth	110?	31.57	20.77	26.26	26.20
Weybridge Heath	W. F. Harrison, Esq.	120	30.33	21.05	27.29	26.22
Kew Observatory	Balfour Stewart, Esq.	18	28.72?	18.86	28.29	25.29
Wandsworth (S. Fields)	R. Coleman, Esq.	...	...	...	28.48	...
" (St. Ann's Hill)	G. Dines, Esq.	58	32.86	...	29.03	...
Clapham	H. Doxat, Esq.	...	...	...	26.32	...
Battersea	Rev. S. Clark	13	28.26	21.96	27.89	26.04
KENT—						
Dover	H. J. Poulter, Esq.	16	36.25	28.41	24.93	29.86
Staplehurst (Hunton Crt.)	Mr. P. Goddard	...	30.38	21.69	26.05	26.04
" (Linton Park)	Mr. J. Robson	...	33.66	24.01	26.93	28.20
Tunbridge	Dr. Fielding	125	31.43	23.11	27.62	27.39
Maidstone	J. H. Baverstock, Esq.	60	33.65	23.91	26.16	27.91
Welling (Bexley Heath)	H. S. H. Wollaston	...	28.72	20.16	26.08	24.99
Greenwich Observatory	J. Glashier, Esq.	155	32.00	20.40	...	...
"	"	177	...	16.10	...	...
"	"	205	...	12.90	...	...
Seven Oaks (River Hill)	J. Rogers, Esq.	520	...	...	29.31	...
West Wickham	Rev. J. T. Austen	...	...	...	30.41	...
SUSSEX—						
Bognor (Aldwick)	W. L. Woods, Esq.	...	29.40	21.20	25.48	25.36
Brighton	Dr. Kebbell	50?	...	...	28.80	...
Worthing	Dr. Barker	10	34.32	29.08	...	...
Thorney Island	W. L. Woods, Esq.	...	33.14	24.12	...	...
West Thorney	F. Padwick, Esq.	10	...	...	24.72	...
Chichester Museum	W. Hills, Esq.	20	37.44	25.15	27.47	30.02
" (Funtington)	W. L. Woods, Esq.	...	35.50	22.23	26.76	28.18
" (West Dean)	H. Paxton, Esq.	250	48.94	30.79	36.11	38.61
" (Shopwyke)	Rev. G. H. Woods	72?	37.51	23.78	27.15	29.48
Lewes (Glynde)	C. L. Prince, Esq.	...	40.30	...	...	...
Hastings (Bleak House)	J. Banks, Esq.	80	34.25	...	...	...
" (H. Wickham)	E. Field, Esq.	212	32.66	24.86	22.82	26.78
" (Cemetery)	J. C. Savery, Esq.	450	...	...	30.11	...
" (39 Tower)	"	...	33.45	...	...	...
St. Leonards (Marina)	"	10	30.77	29.29	22.96	27.67
Fairlight	J. Rock, Jun., Esq.	498	29.54	29.15	27.18	28.62
Slindon	Rev. M. A. Smelt	190	44.06	28.18	32.07	34.77
Arundel (Dale Park)	W. L. Woods, Esq.	316	45.09	24.11	34.20	34.47
Chilgrove	"	284?	43.50	28.67	32.35	34.84
Battle	F. Webster, Esq.	...	...	...	32.47	...
Hurstpierpoint	Rev. J. Gorham	120	...	27.74	28.74	...

DIVISION II.—SOUTH-EASTERN COUNTIES. (Continued.)

STATIONS.	AUTHORITIES.	Height above Sea Level.	DEPTH OF RAIN.			
			1860	1861	1862	Average for 3 years.
		feet.	inches.	inches.	inches.	inches.
SUSSEX—(Cont.)						
Uckfield	C. L. Prince, Esq. ...	200	42.46	28.35	30.01	33.61
Newick (Beechland) ...	" " ...	...	...	...	30.31	...
Buxted Park	" " ...	...	45.55	...	29.84	...
Maresfield (Rectory) ...	" " ...	250	40.70	30.25	30.59	33.91
" (Forest Lodge) ...	" " ...	300	39.02	27.56	31.05	32.54
Fair Oak (Rogate)	W. L. Woods, Esq. ...	...	44.58	28.57	34.91	36.02
Petworth	" " ...	...	...	...	29.31	...
Cuckfield (Balcombe Plc.)	J. A. Hankey, Esq. ...	340	...	...	34.12	...
Crawley	E. S. Bigg, Esq. ...	300	47.63	34.25	38.13	40.00
HAMPSHIRE—						
Ventnor (Isle of Wight)	Dr. Martin	150	36.18	27.29	...	...
Ryde (Isle of Wight) ...	B. Barrow, Esq. ...	110	36.28	...	...	...
Osborne (Isle of Wight).	Mr. J. R. Mann	172	37.24	25.89	30.65	31.26
Bournemouth	Dr. Falls	30	...	...	27.99	...
Fareham	H. Sharland, Esq. ...	26	42.00	63.00	32.40	35.00
"	R. Porter, Jun., Esq. ...	8	...	29.16	28.02	...
Lyndhurst ..	C. L. Prince, Esq. ...	...	32.86	...	30.28	...
Southampton (Ordnance Survey Office)	Col. Sir H. James, R.E. ...	75	44.05	29.85	34.01	35.97
" " " ..	" " " ...	94	35.71	24.73	26.68	29.04
" (Gas Works)	Mr. J. Sharp	20	29.56	21.49?	...	...
" (Eling House)	W. C. Spooner, Esq. ...	...	...	...	27.17	...
Petersfield	W. L. Woods, Esq. ...	...	53.07	34.42	38.13	41.87
"	Rev. M. A. Smelt ...	200	48.64	33.71	35.77	39.37
New Alresford	B. Fielder, Esq. ...	...	...	27.01	32.46	...
Itchen Abbas	Rev. W. W. Spicer ...	...	39.30	25.07	27.70	30.69
Selborne (The Wakes) ...	T. Bell, Esq. ...	400?	42.05	30.40	33.12	35.19
Andover (Abbotts-Ann)	Rev. F. H. White ...	177	30.17	22.50	25.42	26.03
Aldershot	J. Arnold, Esq. ...	325	33.42	22.54	25.88	27.28
BERKSHIRE—						
Sandhurst	Sergeant Grose	246	29.84	...	25.74	...
Maidenhead (White Walt- ham)	J. Silver, Esq. ...	...	28.84	...	...	...
Windsor	Hon. Maj.-Gen. Hood ...	...	...	...	25.66	...
Wallingford (Moulsford)	Mr. J. B. Spearing ...	200	...	20.76	27.60	...
Abingdon (L. Wittenham)	Rev. J. C. Clutterbuck	170	30.69	22.67	29.79	27.72

DIVISION III.—SOUTH MIDLAND COUNTIES.

STATIONS.	AUTHORITIES.	Height above Sea Level.	DEPTH OF RAIN.			
			1860	1861	1862	Average for 3 years.
		feet.	inches.	inches.	inches.	inches.
HERTFORD—						
Watford	R. Littleboy, Esq. ...	250?	35.00	20.19	26.79	27.33
" (Watford House)	R. Clutterbuck, Esq. ...	...	...	...	27.52	...
" (Eastbury)	D. Carnegie, Esq. ...	...	...	...	27.30	...
Hoddesdon (Field's Weir)	N. Beardmore, Esq. ...	82	...	21.98	25.72	...
Gorhambury	Mr. Bogue	...	34.08	22.13	29.16	28.46
Hemel Hempstead	J. Dickinson & Co. ...	250	34.22	21.20	27.44	27.62
Berkhamstead	W. Squire, Esq. ...	370	36.24	24.10	29.50	29.95
Hitchin	W. Lucas, Esq. ...	...	...	...	22.52	...
Royston	H. Wortham, Esq. ...	367	29.56	19.81	23.93	24.43
BUCKS—						
Hartwell House	Mr. Horton	250	31.45	19.43	25.29	25.39
Hartwell Rectory	Rev. C. Lowndes	290	28.21	17.11	21.58	22.30
OXFORDSHIRE—						
Oxford (Rose Hill)	Rev. J. Slatter	270	25.39	26.80	...	...
" (Radcliffe Observ.)	Rev. R. Main	208	31.01	23.40	27.42	27.16
"	"	230	26.88	20.29	23.39	23.52
Banbury (High Street) ...	T. Beesley, Esq. ...	350	31.92	22.34	27.51	27.26
"	J. Jarvis, Esq. ...	340	31.56	22.09	26.27	26.64
"	W. Johnson, Esq. ...	...	...	21.34	23.65	...
" (Neithrop)	T. Beesley, Esq. ...	470?	...	...	28.76	...
NORTHAMPTON—						
Althorp House	Northampton Mercury ...	...	25.20	20.76	24.21	23.39
Wellingborough	Mr. M. Sharman	...	29.41	23.75	27.00	26.72
Oundle	G. Ellick, Esq. ...	124	...	20.45	22.43	...
Peterborough (Marholm)	Rev. R. S. C. Blacker ...	...	33.09	25.22	...	...
HUNTINGDON—						
Tetworth Hall	H. M. Kaye, Esq. ...	...	...	...	21.89	...
Earith	Mr. J. Brown, Jun. ...	...	...	...	17.21	...
BEDFORD—						
Woburn (Aspley)	Rev. G. W. Mahon ...	460	31.23	23.29	26.52	27.01
Cardington	Mr. J. B. McLaren ...	...	25.08	19.02	22.02	22.04
"	" " ...	104	...	...	17.64	...
Bedford	Dr. Barker	631	24.95	18.43	20.95	21.44
CAMBRIDGE—						
Linton (Ashdon)	Rev. J. T. Walker ...	...	29.08	18.54	...	...
Fulbourne	Rev. J. H. Usill	...	...	...	24.10	...
Cambridge	J. Nutter, Esq. ...	50	...	...	23.86	...
Wisbeach (North Brink)	Mr. A. Peckover	11	30.86	22.19	20.73	27.93
" (Observatory)	" "	8	...	21.26	21.30	...
" (Mid-level S.)	" "	...	...	19.98	23.26	...

DIVISION IV.—EASTERN COUNTIES.

STATIONS.	AUTHORITIES.	Height above Sea Level. feet.	DEPTH OF RAIN.			
			1860	1861	1862	Average for 3 years.
			inches.	inches.	inches.	inches.
ESSEX—						
Leyton	Mr. Donald	93	...	20.41	...	...
Epping	H. Doubleday, Esq.	360	37.03	20.42	25.86	27.77
Witham (Dorward's Hall) ..	H. Dixon, Esq.	20	26.08	18.83	21.78	22.23
Colchester (Frating) ...	Rev. R. Duffield	...	29.70	16.59	...	...
Dunmow	H. E. Cockayne, Esq.	100?	28.93	17.17	22.81	22.79
Braintree (Bocking) ...	S. Tabor, Esq.	200?	31.42	19.81	24.14	25.12
SUFFOLK—						
Grundisburgh	P. Harris, Esq.	...	...	17.46	24.61	...
Bury St. Edmunds	F. Skepper, Esq.	...	31.62	19.50	23.48	24.87
" (Beech Hill)	H. Turner, Esq.	...	...	...	26.35	...
" (Botanic Gardens) ..	E. Skepper, Esq.	...	...	...	26.13	...
Westley	Mr. R. Burrell	...	30.36	17.71	24.83	24.30
Barton	E. Skepper, Esq.	...	...	20.70	...	...
Thwaite	Mr. O. Whistlecraft	150	36.60	23.62	28.84	29.69
Thurston Lodge	Rev. W. Steggall	...	29.43	17.46	24.81	23.90
" (Nether Hall) ...	W. C. Bassett, Esq.	...	29.45	18.98	24.04	24.16
Barton Hall	Mr. W. Allen	...	...	...	23.87	...
Culford	Mr. P. Grieve	...	...	19.51	23.78	...
NORFOLK—						
Diss	Dr. Stewart	115	...	19.75	23.25	...
Thetford	Dr. Bailey	75	...	...	16.78	...
Norwich	W. Brooke, Esq.	30	34.47	24.80	22.26	27.18
Fakenham (Egmere) ...	R. Overman, Esq.	150?	31.38	24.82	23.92	26.71
Burnham	H. E. Blyth, Esq.	102	34.65	24.78	26.71	28.71
Holkham	S. Shellabear, Esq.	39	34.69	21.80	22.72	26.40
"	"	43	31.58	20.78	22.87	25.08

DIVISION V.—SOUTH-WESTERN COUNTIES.

WILTS—						
Salisbury (Alderbury) ...	W. L. Woods, Esq.	...	34.12	25.14	26.80	28.69
" (Baverstock) ...	Archdeacon Honey ...	...	37.45	26.75	30.30	31.50
Warminster (Longbridge Deverill)	Rev. J. Slatter	...	40.32	25.52	38.69	34.84
Chapmanslade	F. Singer, Esq.	...	40.31	...	...	...
Marlborough	W. C. Merriman, Esq.	...	...	28.90	31.22	...
Calne (Castle House) ...	Major Ward	321	...	23.81	33.27	...
"	"	348	...	22.26	33.33	...
Chippenham (Badminton) ...	Mr. J. Trotter	...	...	...	33.14	...

DIVISION V.—SOUTH-WESTERN COUNTIES. (Continued.)

STATIONS.	AUTHORITIES.	Height above Sea Level. feet.	DEPTH OF RAIN.			
			1860	1861	1862	Average for 3 years.
			inches.	inches.	inches.	inches.
DORSET—						
Portland	J. T. Leather, Esq.	52	30.77	22.07	26.22	26.36
Wareham (Encombe) ...	O. W. Farrer, Esq.	150	42.65	32.49	34.79	36.64
Little Bridy	H. S. Eaton, Esq.	348	49.04	37.23	37.22	41.16
Bridport	A. Stephens, Esq.	95?	36.63	29.67	32.12	32.81
Netherbury	Rev. C. B. Mount ...	50?	42.37	36.04?	34.80	37.74
Forde Abbey	Captain Miles	...	...	32.91	37.71	...
DEVON—						
Kingsbridge	Mrs. L. Harris	143	42.44	34.30	...	...
Plymouth (Ham)	Rev. C. T. Trelawny. ...	94	55.58	39.23	46.75	47.19
Tideford Parsonage	Rev. T. Hullah	75?	...	...	43.89	...
Saltram Gardens	Mr. J. Snow	96	57.58	41.69	46.92	48.79
Plympton St. Mary (Ridgeway)	Miss B. T. Phillips ...	116	62.39	42.98	51.95	52.44
Ivybridge (Torrhill)	J. Widdicombe, Esq.	260?	54.31	42.25	50.49	49.02
Plympton St. Mary (Goodamoor)	H. H. Treby, Esq.	580	72.02	53.66	63.14	62.94
Buckland Monachorum (Crapstone)	"	500	65.85	...	...	...
Lee Moor	"	900?	...	...	74.57	...
Buckfastleigh (Hawson) ..	R. T. Abraham, Esq.	350	...	...	74.45	...
Torquay	E. Vivian, Esq.	150	36.36	22.74	...	...
Highwick	Dr. Barham	300?	48.02	34.45	40.45	40.97
Dartmoor	Dr. Roome	1380	63.88	...	93.51	...
Teignmouth	Dr. Lake	60	...	22.20	...	...
" (Westbrook)	Miss K. T. Clark	25	40.35	30.36	34.61	35.11
Tavistock Institution ...	W. Merrifield, Esq.	298	47.99	34.45	37.85	40.09
Milton Abbot (Edgecumb) ..	H. Clark, Esq.	...	48.72	39.49	52.02	46.74
Dawlish	P. J. Margary, Esq.	62	40.88	29.97	32.16	34.34
Bovey Tracey	J. Divett, Esq.	100	49.82	36.73	42.38	42.98
Exmouth	E. Divett, Esq.	200?	38.37	28.04	31.83	32.75
Chagford	R. L. Berry, Esq.	650	...	...	56.65	...
Clisthydon	Rev. J. Huyshe	200?	41.53	25.21	30.93	32.56
Honiton (Overday)	R. T. Abraham, Esq.	700	...	...	46.04	...
Broadhembury	Rev. W. Heberden ...	...	42.62	28.52	36.77	35.97
Exeter (Albert Terrace) ..	R. Dymond, Esq.	160	...	27.96	31.81	...
"	W. Vicary, Esq.	140	...	28.02	...	...
" (St. Leonard's) ...	"	140	...	...	31.40	...
"	"	160	...	...	27.45	...
" (High Street) ...	W. H. Ellis, Esq.	170	36.26	27.92	27.75	30.64
" (Institution) ...	Mr. Parfitt	155	36.08	25.80	29.58	30.49
" (St. Thomas) ...	W. Vicary, Esq.	50	42.17	28.33?	...	...

DIVISION V.—SOUTH-WESTERN COUNTIES. (Continued.)

STATIONS.	AUTHORITIES.	Height above Sea Level.	DEPTH OF RAIN.			
			1860	1861	1862	Average for 3 years.
		feet.	inches.	inches.	inches.	inches.
DEVON—(Cont.)						
Tiverton	W. H. Gamlen, Esq.	400?	55.41?	33.55	42.72	43.89
S. Molton (Meshaw Rect.)	Rev. W. H. Karslake	472	...	...	45.02	...
Huntsham Court.....	Miss A. Troyte.....	584	62.32	39.96	45.66	49.31
S. Molton (Castle Hill)	Mr. A. Saul.....	160	57.46	41.19	48.86	49.17
Barnstaple	T. Mackrell, Esq.....	31	50.14	37.15	43.78	43.69
CORNWALL—						
Helstone	M. P. Moyle, Esq. ...	110	42.96	37.62	38.43	39.67
Penzance	W. H. Richards, Esq.	94	49.25	40.98	44.64	44.96
Redruth (Tehidy Park)	Mr. H. Beddard	100	48.63	40.56	45.70	44.99
Truro	Dr. Barham.....	56	50.06	39.98	44.65	44.89
Newquay	Lieut. Liddell, R.N.	90	...	...	38.62	...
Bodmin	" "	300	56.33	44.56	47.36	49.42
" (Warleggan) ...	Rev. D. Clements ...	800	67.05	48.96	55.61	57.21
" (Pencarrow) ...	Mr. H. Jones	230	51.61	45.32	47.81	48.25
Wadebridge (Treharrock House).....	F. B. Hambly, Esq	200?	46.14	36.65	41.04	41.28
Padstow (S. Petroc Minor)	H. H. Treby, Esq. ...	96	47.40	44.69	...	...
Port Isaac (Rosecarrock)	Mark Guy, Esq.	180	44.33	38.63	42.27	41.73
Camelford	Lieut. Liddell, R.N.	...	68.04	...	54.63	...
SOMERSET—						
Taunton	Dr. Gillett	50?	32.62	26.77	27.32	28.90
Long Sutton	R. Palmer, Esq.	170?	31.92	25.81	28.22	28.62
Bridgewater.....	A. Haviland, Esq. ...	45	29.53	...	...	...
Glastonbury (Street) ...	J. Clark, Jun., Esq.	100	...	25.96	32.22	...
" "	W. S. Clark, Esq. ...	100?	36.15	23.66	30.08	29.96
Frome (North Hill) ...	Mr. J. Boycott.....	...	38.90	27.17	35.01	33.69
" (Mells).....	Mr. M. Raynes	300	46.57	31.98	48.86	42.47
Axbridge (Sidcot)	H. Dymond, Esq. ...	250?	43.17	31.13	35.18	36.69
Bath.....	C. S. Barter, Esq. ...	150	44.67	34.02	48.19	42.29
" (Batheaston)	A. Mitchell, Esq. ...	226	...	...	29.61	...
" (Swanswick)	Rev. F. Lockey	...	...	...	26.52	...
Bristol (Brislington) ...	Dr. Fox	181	...	...	35.94	...

DIVISION VI.—WEST MIDLAND COUNTIES.

GLOUCESTER—						
Bristol Institution	The Secretary	98	42.96	29.59	...	...
Clifton	W. C. Burder, Esq....	192	40.80	31.31	32.87	34.99
"	" "	242	35.52	27.39	28.61	30.51
Cirencester	T. C. Brown, Esq. ...	446	36.94	27.39	32.46	32.26

DIVISION VI.—WEST MIDLAND COUNTIES. (Continued.)

STATIONS.	AUTHORITIES.	Height above Sea Level.	DEPTH OF RAIN.			
			1860	1861	1862	Average for 3 years.
		feet.	inches.	inches.	inches.	inches.
GLOUCESTER—(Cont.)						
Gloucester (Quedgeley)	J. C. Hayward, Esq.	100?	...	...	29.96	...
„ (The Spa) ...	A. Price, Esq.....	50?	27.99	21.30	26.86	25.38
„ (Asylum) ...	Dr. Williams	100	28.01	21.83	28.08	25.97
„ (Twigworth)	W. B. Clegram	50?	28.48	20.16	...	...
HEREFORD—						
Rocklands	Hereford Times	...	40.77	...	...	...
Leominster (Leysters)...	W. L. Woods, Esq....	...	...	26.53	29.09	...
„ (West Lodge)	E. P. Southall, Esq.	240?	...	...	29.09	...
SHROPSHIRE—						
Cleobury-Mortimer	Mr. W. Hunter	700	...	26.28	28.83	...
Ludlow (Knowbury) ...	Rev. J. B. James.....	1000	37.87	27.92	30.55	32.11
Shiffnal (Haughton Hall)	Rev. J. Brooke... ..	450?	31.23	23.80	25.70	26.91
Shrewsbury	Marshall & Co.....	192	20.80	16.60	17.10	18.17?
Oswestry (Whittington)	Mrs. Loyd	...	37.90	27.25	...	...
„ (Hengoed) ...	Rev. A. R. Lloyd ...	...	45.51	30.90	34.68	37.03
STAFFORD—						
W'hampton (Wrottesley)	Mr. J. Hough	532	31.37	24.79	28.14	28.10
„ „	„	532	30.49	24.70	26.61	27.27
„ „	„	553	25.68	21.29	...	...
Leek.....	R. Farrow, Esq.	...	46.60	36.40	28.99	37.33
WORCESTER—						
Worcester	S. Marshall, Esq.....	...	39.07	23.42	32.30	31.59
„ (Lark Hill)...	W. Burgess, Esq.....	160	...	...	30.44	...
Tenbury (Orleton)	T. H. Davis, Esq. ...	200	36.89	29.81	34.31	33.67
Northwich Park	Lord Northwick	...	...	...	30.20	...
Malvern	Dr. Williams	450	...	...	23.37	...
WARWICK—						
Leamington	S. U. Jones, Esq.....	195	...	...	27.09	...
Stoneleigh Abbey	Mr. T. Bowick.....	...	31.24	22.64	25.95	26.61
Rugby	F. Fuller, Esq.....	...	27.54	20.82	25.19	24.52
Edgbaston	W. Southall, Esq. ...	...	...	...	32.86	...
Birmingham (Bloomsbry)	D. Smith, Esq.	340	35.16	29.81	31.28	32.08
„ (Camp Hill)	T. L. Plant, Esq.....	416	35.66	29.31	28.62	31.19

DIVISION VII.—NORTH MIDLAND COUNTIES.

LEICESTER—						
Wigston	T. Burgess, Esq.....	...	31.47	23.20	26.13	26.97
Leicester	Mr. J. Payne	...	24.99	...	...	...
"	Mr. H. Billston	...	...	17.62	27.24	...
Thornton Reservoir.....	J. Bevins, Esq.....	...	29.66	25.53	28.14	27.78

DIVISION VII.—NORTH MIDLAND COUNTIES. (Continued.)

STATIONS.	AUTHORITIES.	Height above Sea Level.	DEPTH OF RAIN.			
			1860	1861	1862	Average for 3 years.
		feet.	inches.	inches.	inches.	inches.
LEICESTER—(Cont.)						
Loughborough (Rothley)	Rev. R. Burton	210?	...	22.46	25.58	...
Waltham Rectory	Rev. G. E. Gillett	540?	...	...	23.95	...
Belvoir Castle	W. Ingram, Esq.	237	29.23	22.12	23.35	24.90
RUTLAND—						
Empingham	Mr. W. Fancourt	...	23.52	15.42	...	...
LINCOLN—						
Stamford (Greatford Hall)	Captain Peacock	...	...	...	20.53	...
Wytham-on-the-Hill	General Johnson	...	26.33	19.81	20.62	22.25
Grantham	J. W. Jeans, Esq.	179	29.67	20.51	21.55	23.91
Boston	W. Veall, Esq.	...	30.69	20.38	19.93	23.67
Sleaford (South Kyme)	Rev. H. S. Newcatre	9	31.73	21.65	20.45	24.61
Lincoln (Coleby)	Rev. T. T. Penrose	...	26.38	17.33	...	...
"	M. S. & L. R. Co.	26	27.15	16.97	20.31	21.44
Gate Burton	" "	96	...	21.24	23.53	...
Market Rasen	" "	100	28.79	24.04	21.31	24.71
Gainsborough	" "	76	29.31	19.55	21.36	23.41
" (Spring Gardens)	T. Dyson, Esq.	38	29.75	19.81	20.49	23.35
Stockwith	M. S. & L. R. Co.	21	26.46	18.25	19.71	21.47
Brigg	" "	16	29.27	22.48	23.02	24.92
Grimsby	" "	42	22.29	18.26	17.34	19.29
Barnetby	" "	51	27.04	21.15	22.10	23.43
New Holland	" "	18	28.48	20.73	21.62	23.61
NOTTS—						
Highfield House	E. J. Lowe, Esq.	162	35.88	22.33	23.88	27.36
" "	" "	187	28.71	20.01	21.48	23.40
Beeston Meadow	" "	100	...	...	26.00	...
Southwell (Oxton)	H. Sherbrooke, Esq.	...	...	...	20.45	...
"	Dr. Calvert	200?	...	...	19.56	...
Newark (Stubton)	G. Neville, Esq.	...	...	...	22.97	...
Welbeck	Mr. Tillery	...	30.54	24.16	22.77	25.82
Worksop	M. S. & L. R. Co.	127	30.61	20.41	21.46	24.16
Retford	" "	52	28.13	19.73	22.15	23.34
" (East)	Doncaster Chronicle	...	28.13	19.56	22.69	23.46
" (West)	Rev. C. D. Butterfield	50	28.20	19.31	22.62	23.38
DERBY—						
Doveridge	Hon. & Rev. O. Forester	270	...	...	29.00	...
Derby	J. Davis, Esq.	179	32.77	22.01	26.28	27.02
Chatsworth	Mr. A. Stewart	404	...	31.32	30.61	...
Chesterfield	M. S. & L. R. Co.	248	29.54	25.48	26.34	27.12
Norwood	" "	238	27.66	24.15	25.21	25.67
Combs Moss	" "	1669	53.00	38.33	55.81	49.05

DIVISION VII.—NORTH MIDLAND COUNTIES. (Continued.)

STATIONS.	AUTHORITIES.	Height above Sea Level.	DEPTH OF RAIN.			
			1860	1861	1862	Average for 3 years.
		feet.	inches.	inches.	inches.	inches.
DERBY—(Cont.)						
Combs Reservoir	M. S. & L. R. Co.	710	54.17	45.64	53.30	51.04
Chapel-en-le-Frith	" "	965	44.99	37.19	41.91	41.36
Woodhead	" "	939	66.35	49.64	48.51	54.85

DIVISION VIII.—NORTH-WESTERN COUNTIES.

CHESHIRE—						
Bosley Minns	M. S. & L. R. Co.	1210	36.21	28.65	34.19	33.02
" Reservoir	" "	590	34.03	27.76	37.59	33.13
Macclesfield	W. Jeffery, Esq.	500	39.88	32.03	36.97	36.39
"	M. S. & L. R. Co.	539	38.64	30.69	38.82	36.05
Frodsham (Kingsley)	Rev. R. Tyas	208?	...	29.11	37.20	...
Willaston	T. Waring, Esq.	...	...	...	27.04	...
Bollington (Spond's Hill)	M. S. & L. R. Co.	1279	48.61	37.99	43.61	43.40
Waley	" "	602	46.84	37.00	44.08	42.64
Handforth (Quarry Bank)	J. Henshall, Esq.	295	...	...	35.40	...
Northwich (Thelwall)	J. Atkinson, Esq.	96	...	28.93	35.84	...
Marple (Aqueduct)	M. S. & L. R. Co.	321	39.87	33.55	40.41	37.94
" (Top Lock)	" "	543	29.28	31.40	41.22	33.97
Mottram (Hill End)	" "	680	...	34.40	42.33	...
" (Matley's Field)	" "	399	38.93	33.16	40.29	37.46
Newton	" "	296	33.94	31.80	35.51	33.75
LANCASHIRE—						
Liverpool Observatory	J. Hartnup, Esq.	52	24.53	23.15	27.66	25.11
" (The Brook)	W. Lassell, Jun., Esq.	...	...	31.28	39.84	...
" (Sandfield Park)	W. Lassell, Esq.	...	35.40	...	...	...
MANCHESTER—						
" (Old Trafford)	G. V. Vernon, Esq.	106	36.14	29.74	38.60	34.83
" (Sale)	J. Curtis, Esq.	134	36.24	28.58	...	...
" (Market St.)	Mr. Casartelli	...	35.95	29.33	31.78	32.35
" (Piccadilly)	M. S. & L. R. Co.	194	41.40	34.43	43.95	39.93
" (Eccles)	T. Mackereth, Esq.	105	...	...	37.66	...
" (Fairfield)	M. S. & L. R. Co.	312	42.10	35.76	46.33	41.40
Oldham (Waterhouses)	M. S. & L. R. Co.	345	42.43	32.79	39.74	38.32
Radcliffe (Mount Sion)	H. Eaton, Esq.	250	...	...	39.10	...
Bolton-le-Moors (Folds)	H. H. Watson, Esq.	290	57.66	44.91	53.43	52.00
" (Belmont)	H. Baylis, Esq.	800	59.80	55.70	61.90	59.13
" (Heaton)	" "	500	44.90	39.90	47.20	44.00
Wigan (Standish)	J. L. Hunter, Esq.	285	46.04	47.63	49.01	47.56
Bury	W. Wanklyn, Esq.	400?	...	29.67	41.05	...

DIVISION VIII.—NORTH-WESTERN COUNTIES. (Continued.)

STATIONS.	AUTHORITIES.	Height above Sea Level.	DEPTH OF RAIN.			
			1860	1861	1862	Average for 3 years.
		feet.	inches.	inches.	inches.	inches.
LANCASHIRE—(Cont.)						
Ormskirk (Rufford).....	J. Porter, Esq.	38	...	...	37.70	...
Preston (Howick)	T. Norris, Esq.	72	39.76	36.59	44.33	40.23
„ (Fishwick)	T. Oddie, Esq.....	154	36.04	33.32	38.14	35.83
„ (House of Cor.)	Mr. J. Hesketh	140	37.86	35.90	41.76	38.51
„ „	„ „	187	33.28	30.75	34.68	32.90
„ (Holme Slack)..	J. Newton, Esq.	143	...	38.48	43.87	...
Blackpool (South Shore)	G. Sharples, Esq.....	9	31.70	33.70	37.55	34.32
Stonyhurst Observatory	Rev. S. Perry	381	50.60	49.00	54.40	51.33
Garstang (Bleasdale) ...	Mr. J. Hill	600	...	55.05	51.43	...
Lancaster.....	W. Roper, Esq.	114	...	...	46.31	...
„ (Caton).....	Rev. A. Christopherson	120	46.82	44.54	44.66	45.34
Hest Bank	R. B. Peacock, Esq...	82	...	41.31	43.27	...
Cartmel	S. Marshall, Esq...	...	...	47.23	45.67	...
„ (Holker)	„ „	...	47.07	50.11	47.58	48.25
„ (Aynsome) ...	H. Remington, Esq. ...	...	...	...	52.90	...
„ (Allithwaite)	Mr. W. R. Nash	88	...	...	44.99	...
Broughton	British Met. S. Report	...	49.70	...	...	...
Coniston	J. G. Marshall, Esq. ...	150	89.50	102.20	96.40	96.03
Windermere (Wray Casl.)	Dr. Dawson.....	220	69.45	80.91	74.71	75.02

DIVISION IX.—YORKSHIRE.

WEST RIDING—						
Sheffield Station	M. S. & L. R. Co. ...	188	27.58	25.55	28.93	27.35
" (The Edge)	" "	336	...	32.16	30.73	...
" (Broomhall Park)	D. Doncaster, Jun. ...	337	37.19	29.68	30.87	32.58
Redmires	" "	1200	44.28	37.94	40.06	40.76
Tickhill	Dr. Dixon	61	31.33	23.14	18.76	24.41
Wath-upon-Dearne	W. M. Burman, Esq. ...	186	...	...	20.09	...
Rotherham, West Melton	Rev. J. Boyd	172	...	...	21.99	...
Dunford Bridge	M. S. & L. R. Co. ...	954	62.79	47.88	52.55	54.41
Penistone	" "	717	30.11	27.02	29.09	28.74
Carlotes	" "	1075	...	43.62	51.29	...
Standedge	Mr. Greenwood	1150	56.75	49.75	53.25	53.25
Saddleworth	" "	640	46.99	32.38	43.02	54.13
Ackworth Villa	W. D. Howard, Esq. ...	135	33.06	20.89	24.79	29.58
Ackworth	J. Ford, Esq.	...	...	18.26	21.83	...
Huddersfield (Longwood)	Mr. C. Hare	...	34.74	30.42	34.08	33.08
Wakefield	W. R. Milner, Esq. ...	115	33.48	22.30	26.84	27.54
Huddersfield (Rastrick)	S. Marshall, Esq. ...	...	33.37	...	32.95	...

DIVISION IX.—YORKSHIRE. (Continued.)

STATIONS.	AUTHORITIES.	Height above Sea Level.	DEPTH OF RAIN.			
			1860	1861	1862	Average for 3 years.
WEST RIDING—(Cont.)						
Halifax (Southowram)	R. Richardson, Esq.	880	...	...	25.01	...
" (Well Head) ...	J. Waterhouse, Esq.	540	34.33	30.79	32.22	32.45
" (Hunter's Hill)	G. W. Stevenson, Esq.	1250	42.30	32.70	...	...
" (Warley Moor)	" "	1425	51.20	44.00	49.40	48.20
" (Midgley ")	" "	1350	53.10	48.70	51.00	50.93
" (Ovenden ")	" "	1375	51.90	43.70	50.00	48.53
Bradford	P. Lund, Esq.	329	...	...	29.33	...
" (Horton Hall)	Mr. G. Abbey	496	38.47	34.05	36.77	35.79
" (Chellow Dean)	C. Gott, Esq.	645	...	...	33.30	...
Leeds	H. Denny, Esq.	156	...	...	21.74	...
" (Holbeck).....	E. Filliter, Esq.	95	...	...	21.79	...
" (Holbeck).....	Marshall & Co.	135	28.60	23.30	21.25	24.38
" (Philosophical Hall)	H. Denny, Esq.	137	28.32	...	...	...
" (Leventhorpe Hall)	J. T. Leather, Esq. ...	90	...	...	21.18	...
" (Eccup)	E. Filliter, Esq.	340	...	...	26.11	...
Red Hall (Whin Moor)...	F. Stow, Esq.	455	35.85	24.45	...	...
Otley (Top of Chevin)...	Mr. Lawson, Jun. ...	764	...	26.01	32.76	...
" (The Valley)	A. H. Thorns, Esq. ...	206	...	27.29	31.15	...
Ben Rhydding.....	J. Robberts, Esq. ...	100	34.30	22.45	...	...
High Harrogate	J. Coupland, Esq. ...	420	...	28.51	...	...
Harrogate	Dr. Bainbridge	420	...	...	32.58	...
Settle	J. Tatham, Esq.	498	41.78	41.79	42.77	42.11
Ingleborough (Clapham)	Mr. D. Elder	550	41.64	42.03	45.19	42.95
Arnccliffe	Rev. W. Boyd	750	54.93	59.94	64.05	59.64
Boston Spa	F. R. Carroll, Esq. ...	74	...	...	25.63	...
EAST RIDING—						
Patrington	W. B. Pugh, Esq. ...	32?	28.58	18.62	18.72	21.79
Hull.....	W. Lawton, Esq.	30	...	...	19.70	...
" (Beverley Road) ...	J. Smith, Jun., Esq. ...	11	...	...	23.70	...
Holme-on-Spalding Moor	G. Dunn, Esq.	32	31.70	22.01	24.17	25.96
Weldrake	Rev. R. B. Cooke ...	40?	30.30	20.54	24.18	25.01
Beverley (Middleton) ...	Mr. Lotherington ...	...	26.78	26.42	26.79	29.99
York	J. Ford, Esq.	50	30.37	20.27	23.11	24.55
Pocklington (Huggate)	Rev. T. Rankin	650	32.13	32.19	...	...
NORTH RIDING—						
Malton.....	H. Hurtley, Esq.	75?	34.46	24.47	26.29	28.41
Scarborough	R. Champley, Esq. ...	91	24.00	17.97	19.83	20.60
Redcar.....	C. C. Oxley, Esq. ...	20	...	...	19.14	...

DIVISION X.—NORTHERN COUNTIES.

STATIONS.	AUTHORITIES.	Height above Sea Level.	DEPTH OF RAIN.			
			1860	1861	1862	Average for 3 years.
		feet.	inches.	inches.	inches.	inches.
DURHAM—						
Darlington	Mr. J. Richardson ...	140	31·91	32·83	21·25	28·66
Winston (Stubb House)	T. Dodgson, Esq.	160	30·28	24·54	25·84	26·89
Washington	J. Watson, Esq.	120	27·61	...	...	...
Durham Observatory ...	A. Marth, Esq.	338	30·33	24·28	21·82	25·48
Bishopwearmouth	Dr. Ogden	140	24·71	19·30	20·97	21·66
Sunderland	Rev. G. Iliff	130	29·39	...	21·56	...
" (Hendon Hill)	J. W. Mounsey, Esq. ...	150	...	...	24·97	...
Shotley Hall	Mr. G. Routledge ...	309	35·35	28·80	24·04	29·39
NORTHUMBERLAND—						
Allenheads	T. J. Bewick, Esq. ...	1360	59·15	49·35	44·21	50·90
" (12-in. gauge)	"	1367	59·91	52·89	50·64	54·48
Newcastle-on-Tyne	Lieut. Sitwell, R.E. ...	187	27·28	18·78	...	...
" (Park End)	G. C. Atkinson, Esq. ...	300?	...	31·07	...	...
Bywell	Mr. J. Dawson	87	38·13	28·44	25·75	30·77
Wylam	G. C. Atkinson, Esq. ...	96	31·38	23·54	24·68	26·53
North Shields	R. Spence, Esq.	124	32·19	24·74	28·02	28·32
Stamfordham	Rev. J. F. Bigge	380	35·26	26·22	26·00	29·16
Alnwick	Mr. J. Scott	400	36·60	29·97	31·02	32·53
Roddam	W. Roddam, Esq.	...	...	26·27	36·00	...
Lilburn Tower	E. J. Collingwood, Esq. ...	...	34·21	26·02	30·04	30·09
CUMBERLAND—						
Cleator (The Floss)	T. Ainsworth, Esq. ...	240	55·89	54·38	...	...
Seathwaite (Borrowdale)	H. C. Marshall, Esq. ...	380?	142·20	182·58	170·03	164·94
Keswick	Mr. Crosthwaite	245	54·17	74·42	61·37	63·32
Cockermouth	Dr. Dodgson	157	...	...	50·49	...
" (Winfell Hall)	S. Marshall, Esq.	...	...	68·94	60·81	...
Bassenthwaite (Mirehous)	F. S. Spedding, Esq. ...	300	49·79	60·35	55·29	55·14
Silloth	Rev. F. Redford	16	37·81	42·47	44·19	41·49
Carlisle (Ord. Sur. Office)	Capt. E. James, R.E. ...	105	31·62	34·46	...	...
WESTMORELAND—						
Kirkby Lonsdale	S. Marshall, Esq.	...	41·60	...	...	...
Kendal	"	149	57·00	60·70	54·41	57·37
Ambleside (Lesketh How)	Dr. J. Davey	110	79·97	98·03	88·26	88·75
Troutbeck (The How) ...	Admiral Wilson	403	102·58	116·26	94·27	101·04
Grasmere (Lancragg) ...	Sir J. Richardson ...	...	104·87	123·22	...	...
Lowther Castle	S. Marshall, Esq.	...	45·53	...	...	...
Brougham Hall	"	...	36·68	...	33·79	...

DIVISION XI.—MONMOUTHSHIRE, WALES, AND THE ISLES.

STATIONS.	AUTHORITIES.	Height above Sea Level.	DEPTH OF RAIN.			
			1860	1861	1862	Average for 3 years.
		feet.	inches.	inches.	inches.	inches.
MONMOUTH—						
Chepstow	J. G. Wood, Esq. ...	...	...	37·51	39·55	...
GLAMORGAN—						
Swansea (Ystalyfera) ...	J. P. Budd, Esq.	300	73·21	66·78	67·07	69·02
PEMBROKE—						
Pembroke Dock	E. Chevallier, Esq. ...	30	...	44·77	...	...
Haverfordwest	E. P. Phillips, Esq. ...	60	56·99	51·80	38·30?	49·03
CARDIGAN—						
Lampeter	Rev. J. Matthews ...	425	55·30	43·98	43·22	47·50
BRECON—						
Crickhowel (Buckland)	Mrs. G. Holford	...	...	...	31·29	...
ANGLESEA—						
Llandyfrydog	H. Webster, Esq.	92	...	44·45	40·14	...
CARNARVON—						
Llandudno	Dr. Nicol	20?	30·00	31·00	31·95	30·98
Bangor	Rev. J. Purvis	40	...	...	45·52	...
RADNOR—						
Rhayader (Cefnfaes) ...	J. Jones, Esq.	900	...	...	47·81	...
FLINT—						
Hawarden	Dr. Moffat	260	27·80	21·82	30·37	26·66
Holywell (Maes-y-dre) ...	<i>Chester Courant</i>	...	...	...	24·09	...
Rhyl	E. Evans, Esq.	...	...	...	19·03	...
GUERNSEY	Dr. Hoskins	200	18·00	31·22	32·50	37·27
JERSEY	P. Langloise, Esq. ...	30?	...	...	26·84	...
SCILLY—						
St. Mary's	J. G. Moyle, Esq. ...	30	33·20	...	31·18	...
ISLE OF MAN—						
Ballasalla	J. Burman, Esq.	100	37·17	...	...	...
Calf of Man	Bd. of Northn. Lights	325?	...	...	42·49?	...
Point of Ayr	"	27?	...	...	31·73?	...

SCOTLAND:

DIVISION XII.—SOUTHERN COUNTIES.

WIGTOWN—						
Stranraer (South Cairn)	Mr. J. Kennedy	210	42·30	48·03	56·00	48·78
Mull of Galloway	Bd. of Northn. Lights	260?	...	...	25·44?	...
Corsewall	"	22?	...	...	42·39?	...

DIVISION XII.—SOUTHERN COUNTIES. (Continued.)

STATIONS.	AUTHORITIES.	Height above Sea Level.	DEPTH OF RAIN.			
			1860	1861	1862	Average for 3 years.
		feet.	inches.	inches.	inches.	inches.
KIRKCUDBRIGHT—						
Cargen	P. Dudgeon, Esq. ...	80	44·27	44·25	47·29	45·27
Little Ross	Bd. of Northn. Lights	130?	...	...	26·87?	...
DUMFRIES—						
Dumfries	T. Hogg, Esq.	63	41·75	46·88	41·43	43·35
" (Crichton Inst.)	Dr. Gilchrist ...	300	...	...	45·06	...
Drumlanrig	Scot. Met. Soc. Rep...	186?	...	59·40	57·41	...
Wanlockhead	Mr. J. Reid	1400	72·70	...	...	...
"	Mr. G. Dawson	1330	65·31	81·19	74·10	73·53

DIVISION XIII.—SOUTH-EASTERN COUNTIES.

SELKIRK—						
Bowhill	Mr. J. Mathieson ...	537	32·54	36·21	39·27	36·01
PEEBLES—						
Stobo Castle.....	Mr. J. Anderson.....	600	...	27·90	32·70	...
BERWICK—						
Milne Graden	Scot. Met. Sec. Rep...	100?	31·80	29·40	32·78	31·33
Thirlstane	"	558?	...	31·35	34·50	...
Dunse (Mungo's Walls)	Mr. J. Thomson	267	29·87	28·37	28·80	29·01
HADDINGTON—						
Yester	Scot. Met. Soc. Rep...	420?	34·40	33·40	37·84	35·21
Smeaton	Mr. J. Black	100	21·45	23·97	26·93	24·12
East Linton.....	Mr. J. Storie	90	26·61	27·19	29·28	27·69
Dunbar (Thurston)....	Mr. R. Mossman.....	320	34·10	25·80	30·40	30·00
Millfield	Mr. T. Dods	140	...	...	29·80	...
EDINBURGH—						
Harlaw	A. Ramsay, Esq.	770	38·10	40·30	41·80	40·07
North Esk Reservoir ...	Mr. J. Garnock	1150	39·06	40·27	43·10	40·81
Glencorse.....	A. Ramsay, Esq.	680	29·70	38·10	43·10	36·97
Dalkeith Park	Mr. W. Thomson.....	189	...	...	22·81	...
Fernielaw	J. Leslie, Esq.	...	32·75	...	39·85	...
Musselburgh (Inveresk)	Mr. McAuslane	60	31·97	28·51	32·89	31·12
Edinburgh	Adie and Sons.....	200	...	24·88	...	...
" (Ord. Sur. Office)	Mr. J. Horsburgh ...	363	14·39	18·82	...	...
" (Charlotte Sq.)	J. Leslie, Esq.	195	...	...	33·92	...
"	"	275	...	...	24·12	...
" (March Hall) ...	Scot. Met. Soc. Rep...	250?	...	...	28·80	...
" Inchkeith.....	Bd. of Northn. Lights	182?	...	...	21·87?	...

DIVISION XIV.—SOUTH-WESTERN COUNTIES.

STATIONS.	AUTHORITIES.	Height above Sea Level.	DEPTH OF RAIN.			
			1860	1861	1862	Average for 3 years.
		feet.	inches.	inches.	inches.	inches.
LANARK—						
Douglas Castle.....	J. Johnstone, Esq ...	780	...	61·09	70·92	...
Auchinraith.....	R. Ker, Esq.	150	30·58?	34·94	40·40	35·31
Bothwell Castle	Mr. A. Turnbull.....	250	26·02	25·44	38·96	30·14
Glasgow (Baillieston) ...	Mr. P. Jarvie	230	33·00	50·04	60·67	47·90
Shotts (Hill-end House)	Mr. D. Thomson.....	620	30·49	39·95	41·09	37·18
Glasgow (Observatory)	J. Wood, Esq.	200	35·76	51·11	57·40	48·09
" (Ord. Sur. Office)	Major Bayly, R.E. ...	160	28·87	33·20	...	...
Ryat Linn	J. Burnet, Esq.	310	41·50	58·70	58·95	53·05
Waulk Glen	"	280	39·45	55·30	55·25	50·00
Middleton	"	550	44·72	66·08	68·08	59·63
Black Loch	"	700	...	69·25	68·70	...
AYR—						
Auchendrane House ...	E. Cathcart, Esq. ...	94	41·93	49·21	50·17	47·10
Largs (Mansfield)	Dr. Campbell	30?	44·60	55·80	54·70	51·70
Brisbane Glen.....	J. Miller, Esq.	...	48·45	62·00	59·70	56·72
Eaglesham (Ravoch) ...	A. Mather, Esq.	700	...	...	72·60	...
RENFREW—						
Mearns (Nither Place)	"	350	43·40	46·70	43·00	44·37
Kilbarchan	D. Rubie, Esq.	350	58·57	78·82	75·20	69·89
Paisley (Locherfield) ...	Mr. A. Hardie	...	...	55·90	...	...
" (Ferguslie House)	Mr. T. Stewart	85	42·58	66·79	62·03	57·13
Greenock	J. Gardner, Esq.....	74	59·25	69·14	74·25	67·88

DIVISION XV.—WEST MIDLAND COUNTIES.

DUMBARTON—						
Balloch Castle	A. L. D. Brown, Esq.	91	...	...	67·68	...
Loch Long (Arddarroch)	J. White, Esq.....	80	...	...	85·13	...
STIRLING—						
Stirling	Scot. Met. Soc. Rep...	233?	34·57	...	...	...
" (Polmaise Gardens)	— Murray, Esq.....	8	42·60	46·60	49·30	46·17
Mugdock Reservoir.....	Glasgow Water Works	320	...	...	60·60	...
BUTE—						
Isle of Cumbræ	J. Miller, Esq.	50	40·70	47·20	48·40	45·43
Rothsay	Sharp, Thompson & Co.	40	48·20	56·40	...	...
Pladda	Bd. of Northn. Lights	55?	...	...	53·69?	...
ARGYLE—						
Castle Toward.....	Mr. D. Bell	80?	47·18	65·34	62·27	58·26
Dunoon (Hafton).....	Major Bayly, R.E. ...	40	61·83	82·14	91·32	78·43
Otter House.....	Dr. Rankin	130	47·76	63·84	64·46	58·69
Kilmory, Lochgilphead	Sir J. P. Orde, Bart.	100?	53·72	59·29	56·96	56·66

DIVISION XV.—WEST MIDLAND COUNTIES. (Continued.)

STATIONS.	AUTHORITIES.	Height above Sea Level.	DEPTH OF RAIN.			
			1860	1861	1862	Average for 3 years.
		feet.	inches.	inches.	inches.	inches.
ARGYLE—(Cont.)						
Calton Mòr	Mr. J. Russell.....	65	45·85	55·83	56·47	52·72
Kilmartin	" "	64	...	63·50	...	...
Inverary Castle	Mr. J. Caie	30	66·40	78·60	63·90	69·63
Isle of Easdale	Mr. J. Whyte	25	47·90	55·50	57·80	53·73
Oban	Capt. Bedford, R.N. ...	10	54·60	71·98	72·40	66·33
Isle of Mull (Torosay)...	J. Pettigrew, Esq. ...	18	70·60	101·80	94·00	88·80
Campbeltown (Devaar)	Bd. of Northn. Lights	75?	...	...	52·54?	...
Rhinn of Islay	" "	74?	...	...	34·47?	...
Islay (Mc.Arthurshead)	" "	106?	...	...	68·60?	...
" (Rhu Vaal).....	" "	54?	...	...	99·90?	...
Jura Sound (Fladda) ...	" "	20?	...	...	80·90?	...
Lismore	" "	37?	...	...	48·39?	...
Corran (Loch Eil) ...	" "	14?	...	...	54·54?	...
Mull of Cantire	" "	279?	...	...	43·22?	...
Sound of Mull	" "	12?	...	...	75·50?	...
Ardnamurchan	" "	82?	...	...	53·04?	...
Sorne	J. Pettigrew, Esq. ...	250	...	...	54·50	...
Tobermorey (Erray) ...	" "	260	...	...	76·00	...

DIVISION XVI.—EAST MIDLAND COUNTIES.

CLACKMANNAN—						
Dollar	Mr. J. Westwood ...	170	...	...	47·74	...
KINROSS—						
Loch Leven.....	Mr. P. Farnie	...	36·10	37·30	42·20	38·53
FIFE—						
Isle of May	Bd. of Northn. Lights	182?	...	...	25·08?	...
Balfour	Mr. J. Dewar	127	24·36	26·76	34·59	28·57
Nookton (Leven).....	W. Mc. G. Miller, Esq. ...	80	30·65	30·42	34·28	31·78
Pittenweem	Mr. D. Tennant	75	27·36	28·45	25·97	27·26
PERTH—						
Aberfoyle.....	J. Burnet, Esq.	60	40·40	71·60	77·00	63·00
Ledard	" "	1500	73·50	103·10	102·70	93·10
Dunblane (Kippenross)	J. Stirling, Esq.	100	34·10	41·80	49·90	41·93
Deanston	J. Finlay, Esq.	120?	37·30	45·05	51·55	44·63
Lock Dhu	J. Burnet, Esq.	325	...	93·20	101·10	...
Ben Lomond	" "	1800	83·50	99·90	114·17	99·19
Loch Drunkie	" "	420	...	71·70	78·10	...
" Vennachar	" "	275	...	72·70	69·00	...
Bridge of Turk	" "	270	59·80	74·40	71·90	68·70
Lanrick Castle.....	A. Glover, Esq.	150?	45·10	53·30	57·75	52·05

DIVISION XVI.—EAST MIDLAND COUNTIES. (Continued.)

STATIONS.	AUTHORITIES.	Height above Sea Level.	DEPTH OF RAIN.			
			1860	1861	1862	Average for 3 years.
		feet.	inches.	inches.	inches.	inches.
PERTH—(Cont.)						
Loch Katrine (Tunnel Hill Top).....	J. Burnet, Esq.	830	...	89·20	96·90	...
Leny (Callander).....	J. B. Hamilton, Esq. ...	335	...	72·40	75·00	...
Between Glen Finlas and Ben Ledi	J. Burnet, Esq.	1800	53·80	70·40	66·00	63·40
Glen Gyle	" "	380	94·20	112·50	105·10	103·93
Auchterarder House ...	Mr. R. Wylie	150	28·70	32·98	38·97	33·55
Stronvar (L. Earn Head)	D. Carnegie, Esq. ...	160	75·64	88·65	97·84	87·38
Colquhalzie House	J. S. Hepburn, Esq. ...	60?	37·85	44·34	49·52	43·90
Trinity Gask	Mr. R. Wylie	135	33·55	38·20	39·34	37·03
Perth (Early Bank).....	Gen. Lindsay	66	37·88	36·08	45·91	39·96
" (Academy)	Dr. Miller	...	...	...	25·97	...
Scone Palace	A. Buchan, Esq.	...	28·75	31·13	34·46	31·45
Tyndrum Mines	Mr. D. Mc. Laren ...	792	72·70	133·20	...	...
Stanley.....	Rev. W. Mather.....	200	31·11	34·58	34·07	33·25
Meigle (Belmont).....	W. Stewart, Esq.	300	32·50	32·10	...	...
Taymouth	Scot. Met. Soc. Rep. ...	372?	...	40·70	...	...
FORFAR—						
Dundee.....	Mr. Adamson	60	34·71	28·71	33·26	32·23
" (Somerville Place)	J. Kerr, Esq.	230	...	...	33·09	...
Barry	Mr. J. Proctor.....	35	28·85	27·87	32·54	29·97
Craigton	Mr. Adamson	440	37·57	34·93	38·24	36·91
Kettins.....	Mr. J. Gibb.....	218	36·39	32·29	34·49	34·39
Hill Head	Mr. Adamson	500	37·43	35·55	37·33	36·77
Seichen.....	" "	550	38·80	36·88	38·46	38·05
Arbroath	A. Brown, Esq.	65	30·48	29·66	31·33	30·47
Montrose	Mr. W. Leighton.....	21	...	25·83	30·27	...
" (Museum).....	Mr. J. Campbell	8	26·32	24·03	27·60	25·98
" (Usan)	G. Wyness, Esq.	150	...	...	29·00	...

DIVISION XVII.—NORTH-EASTERN COUNTIES.

KINCARDINE—						
Brechin (The Burn).....	Col. Mc. Inroy	210	41·50?	40·80	36·20	39·50
Fettercairn (Balnakettle)	D. Scott, Esq.	450	42·81	44·58	37·73	41·71
" (Bogmuir) ...	R. Vallentine, Esq. ...	200	37·40	35·60	32·40	35·13
Strachan by Banchory...	Mr. Mc. Connachie ...	200	38·16	31·43	33·39	34·33
Banchory by Aberdeen	A. Thomson, Esq. ...	95	33·90	29·80	26·50	30·17
ABERDEEN—						
Braemar	Dr. Cameron	1110	33·36	34·80	33·84	34·00
Aberdeen	A. Cruickshank, Esq. ...	100	34·70	30·97	30·77	32·15

DIVISION XVII.—NORTH-EASTERN COUNTIES. (Continued.)

STATIONS.	AUTHORITIES.	Height above Sea Level.	DEPTH OF RAIN.			
			1860	1861	1862	Average for 3 years.
		feet.	inches.	inches.	inches.	inches.
ABERDEEN—(Cont.)						
Aberdeen (Girdleness)...	Bd. of Northn. Lights	85?	...	...	25.54?	...
Castle Newe.....	Mr. A. Walker	915	40.49	39.06	29.41	36.32
Ellon (Tillydesk)	Mr. W. Hay	360?	...	...	28.26	...
Peterhead (Buchanness)	Bd. of Northn. Lights	35?	...	...	22.44?	...
Kinnairdhead	" "	64?	...	...	25.02?	...
ELGIN—						
Forres	D. Bonthron, Esq....	53	...	...	30.48	...
Elgin	Scot. Met. Soc. Rep.	...	25.71	...	...	...
" (Ashgrove)	W. Topp, Esq.	33	...	...	29.63	...

DIVISION XVIII.—NORTH-WESTERN COUNTIES.

Ross—						
Isle of Lewis (Stornoway)	Sir J. Matheson, Bart	70	42.80	58.07	37.23?	46.03
" (Bernera) ...	" "	15	32.37	60.91	104.95	66.08
Tarbetness	Bd. of Northn. Lights	61?	...	...	47.59?	...
Loch Alsh (Kyleakin)...	" "	3?	...	...	68.04?	...
INVERNESS—						
Beaufort Castle	Mr. J. Moir.....	40	27.44	34.91	30.70	31.02
Culloden House	A. Forbes, Esq.	104	21.51	31.41	24.63	25.88
Isle of Skye (Portree)...	J. Grant, Esq.....	60	87.99	139.04	111.19	112.74
" (Raasay House)	Mr. T. Bunning	80	57.60	86.40	79.20	77.73
" (Oronsay)	Bd. of Northn. Lights	15?	...	...	67.50?	...
North Uist (Loch Maddy)	Sir. J. P. Orde, Bart.	20?	42.65	60.40	69.45?	57.50
Barrahead	Bd. of Northn. Lights	640?	...	...	34.65?	...
South Uist (Ushenish)...	" "	157?	...	...	51.93?	...
Harris (Island Glass) ...	" "	50?	...	...	25.14?	...
Cromarty	" "	28?	...	...	20.36?	...

DIVISION XIX.—NORTHERN COUNTIES.

CAITHNESS—						
Nosshead	Bd. of Northn. Lights	127?	...	...	21.04?	...
Dunnethad	" "	300?	...	...	25.11?	...
Pentland Skerries	" "	72?	...	...	29.23?	...
SUTHERLAND—						
Dunrobin Castle	Mr. J. Mitchell	6	29.40	27.45	23.65	26.83
Scourie	J. Simpson, Esq.....	20	38.30	50.85	...	...
Tongue House	J. Crawford, Esq. ...	30?	42.10	...	37.50	...
Cape Wrath.....	Bd. of Northn. Lights	355?	...	...	40.26?	...

DIVISION XIX.—NORTHERN COUNTIES. (Continued.)

STATIONS.	AUTHORITIES.	Height above Sea Level.	DEPTH OF RAIN.			
			1860	1861	1862	Average for 3 years.
		feet.	inches.	inches.	inches.	inches.
ORKNEY—						
Balfour (Kirkwall)	D. Balfour, Esq.....	50	28.18	33.10	25.60	28.95
Sandwick (Lawn).....	Rev. C. Coulston.....	78	37.96	41.18	34.38	37.84
" (North Park)	" "	94	...	...	33.68	...
Cantickhead.....	Bd. of Northn. Lights	63?	...	...	44.30?	...
Hoy Sound (East)	" "	27?	...	...	33.43?	...
" (West)	" "	37?	...	...	33.85?	...
Sanda (Start Point).....	" "	29?	...	...	25.54?	...
North Ronaldsay.....	" "	21?	...	...	34.27?	...
SHETLAND—						
Bressay.....	Rev. Z. M. Hamilton.	20	36.80	41.15	45.95	41.30
"	Bd. of Northn. Lights	72?	...	...	36.97?	...
Sumburghhead	" "	265?	...	...	27.62?	...

IRELAND:

DIVISION XX.

CORK—						
Cork Royal Institution	J. Humphreys, Esq.	80	31.91	38.28	38.09	36.09
Queen's College	Professor England ...	50	...	...	47.27	...
KERRY—						
Valentia	The Knight of Kerry	50	...	72.40	62.19	...
WATERFORD—						
Waterford	R. J. Greer, Esq.....	60	40.86	43.83	45.23	43.31
Portlaw.....	A. Free, Esq.	50?	...	49.31	50.10	...
Rathculliheen	" "	135	37.56	38.79	41.21	39.19
LIMERICK—						
Limerick	Rev. C. Mayne.....	...	...	44.32	...	...
CLARE—						
Killaloe	" "	128	48.76	51.84	49.85	50.15
"	" "	123	...	53.74	47.37	...
KING'S COUNTY						
Birr Castle	Earl Rosse	202?	...	...	36.28	...
QUEEN'S COUNTY—						
Portarlington	M. Hanlon, Esq.....	245	34.84	36.70	45.16	38.90
WICKLOW—						
Bray (Fassaroe)	E. Barrington, Esq....	250?	57.52	51.00	45.80	51.44
GALWAY—						
Galway (Queen's College)	Professor Curtis	25	...	58.62	51.61	...

DIVISION XX.—(Continued.)

STATIONS.	AUTHORITIES.	Height above Sea Level.	DEPTH OF RAIN.			
			1860	1861	1862	Average for 3 years.
		feet.	inches.	inches.	inches.	inches.
DUBLIN—						
Black Rock	T. Bewley, Esq.	96	26·70	24·67	24·98	25·45
Dublin (Ord. Surv. Office)	Capt. Wilkinson, R.E.	166	...	27·49	30·18	...
„ (Glasnevin)	D. Moore, Esq.	65	31·08	30·16	28·04	29·79
„ (Vicar's Lodge)...	S. Yates, Esq.	89	...	...	24·63	...
Monkstown	W. H. Pim, Jun., Esq.	90	33·26	31·89	31·25	32·13
„	„ „	190	...	21·01	20·75	...
MAYO—						
Lough Corrib (Cong.) ...	G. H. D'Arcy, Esq....	60 ?	43·44	...	...	...
SLIGO—						
Markree Observatory ...	E. J. Cooper, Esq. ...	145	43·74	47·16	39·91	43·60
FERMANAGH—						
Florence Court.....	Earl of Enniskillen...	300	...	...	49·56	...
ARMAGH—						
Armagh Observatory ...	Rev. Dr. Robinson ...	247	...	43·20	42·05	...
DOWN—						
Belfast (Queen's College)	J. Bell, Esq.	58	38·23	34·02	39·18	37·14
„ (Linen Hall).....	J. Stewart, Esq.	12	39·84	37·41	41·18	39·48
Strabane (Leckpatrick)...	Rev. C. Maxwell.....	260	...	...	42·45	...

The average fall of rain at Manchester (Old Trafford)* for the years 1860-61-62, is 34·49 inches. This does not widely differ from that furnished by Sir John Herschell for a series of years, viz., 36·2, in an article from which a quotation will be found elsewhere. There are two other registration stations at Manchester, both in the middle of the town, and not more than half a mile distant from each other, but whose results present a remarkable disparity. One of these (conducted by Mr. Casartelli) is in Market-street, the elevation above sea level not stated, but probably about 140 feet. The average

* On the authority of G. V. Vernon, Esq.

fall here for the three years named is given at 32·35 inches. The other station is on the premises of the Manchester, Sheffield, and Lincolnshire Railway Company—whose attention to this subject, be it remarked, is exemplary and worthy of imitation,—rain gauges having been placed at many of the stations throughout the ramifications of their lines. The elevation of their instrument at Manchester is stated at 194 feet above sea level, and the average rain fall for the past three years 39·93 inches.

The average rain fall at Manchester for these three stations in 1860-61-62 stands at 35·70 inches.

The greatest depth of rain which fell at any place in England in 1860-61-62, according to these records, occurred at Seathwaite, Cumberland, being 164·94 inches; the lowest was at Shrewsbury, 18·17 inches. But Mr. Symons expresses a doubt as to the correctness of the figures for this place. The next lowest was 19·29 inches, at Grimsby, Lincolnshire.

Mr. Vernon, in a paper communicated to the Literary and Philosophical Society of Manchester, February 24, 1863, has exhibited tables representing the amount of rain fall in the vicinity of Manchester for the past 69 years, from 1794 to 1862. From these results it appears that the average amount of rain which fell annually during this period is 35·427 inches. The number of rainy days in Manchester in 1862, which was unusually

wet everywhere in these islands, was 218. But as the rain fall at Manchester in 1862, was 3·171 inches above the average, it is presumable also that the number of rainy days as here given is proportionately in excess; so that the average number of days on which rain fell for the 69 years ended 1862 would be, according to this estimate, less than 200 and not 218.

Mr. Vernon has kindly informed me that from results obtained by observation during the past few years, he has reason to think that 180 will be about the average of rainy days per year for Manchester.

Mr. Symons remarks, in reference to the number of rainy days in different localities, that at about one hundred stations have results on this subject been furnished by observers; but as it is still evident that no uniform system has thus far been adopted, it is thought undesirable that results, on what appear to be insufficient data, should at present be published. "The *best* plan would undoubtedly be to record, however approximately, the number of *hours* during which rain falls; but failing this, it would probably accord best with the usage of the majority of observers to consider a 'rainy day,' each day on which a measurable amount of rain falls. No measurment of less than 0·01 inches to be taken account of." *

This suggestion is so reasonable that it is

* British Rain Fall for 1862, p. 6. By G. J. Symons, Esq.

impossible to take objection to it. For it often happens in Manchester, and doubtless also in other large towns, that moisture is present in the atmosphere during a high reading of the barometer and with a still air, even in the absence of rain clouds. Such occurrence, however, should be considered as a fog moisture only, and not as a rainy day.

The following tables represent the average results for three years of the several divisions of England, Scotland, and Ireland :—

ENGLAND.

Divisions.	No. of Stations.	Average rain fall for three years.	
I. Middlesex	6 . .	27·09 inches	per annum.
II. South-Eastern . .	41 . .	30·90	„ „
III. South-Midland . .	17 . .	25·68	„ „
IV. Eastern	15 . .	26·21	„ „
V. South-Western . .	44 . .	40·32	„ „
VI. West-Midland . .	18 . .	29·76	„ „
VII. North-Midland . .	30 . .	27·55	„ „
VIII. North-Western . .	30 . .	42·67	„ „
IX. York	27 . .	35·81	„ „
X. Northern	20 . .	49·33	„ „
XI. Welsh	6 . .	43·41	„ „
Total		254	Mean 34·60 „ „

SCOTLAND.

Divisions.	No. of Stations.	Average rain fall for three years.	
XII. Southern Counties	4	52.74 inches per annum.	
XIII. South-Eastern	11	32.94	„
XIV. South-Western	15	50.41	„
XV. West-Midland	11	61.35	„
XVI. East-Midland	28	47.40	„
XVII. North-Eastern	8	35.41	„
XVIII. North-Western	7	59.57	„
XIX. Northern	4	33.97	„
Total	88	Mean 47.35	„

IRELAND.

Divisions.	No. of Stations.	Average rain fall for three years.	
XX. Cork County	1	36.09 inches per annum.	
XXI. Waterford	2	41.25	„
XXII. Clare	1	50.15	„
XXIII. Queen's	1	38.90	„
XXIV. Wicklow	1	51.44	„
XXV. Dublin	3	29.11	„
XXVI. Sligo	1	43.60	„
XXVII. Down	2	38.31	„
Total	12	Mean 38.88	„

Thus it appears that the average rain fall in England is $12\frac{3}{4}$ inches less than that of Scotland, and $4\frac{1}{4}$ less than that of Ireland:—

England, 254 Stations	34.60 inches per annum.
Scotland, 88	47.35 „
Ireland, 12	38.88 „
Total . 354	Mean . 40.28 „

The statement below, representing the annual amount of rain fall in places beyond the British Isles, rests upon the authority of Sir John Herschell.*

	Inches.		Inches.
Stockholm	20.4	St. Helena	45.2
Petersburg	17.3	Grenada	112.0
Strasburg	27.3	Sierra Leone	86.2
Cambridge, U.S.	38.9	Bergen	88.6
Philadelphia, U.S.	37.2	Rome	31.0
Washington, U.S.	41.2	Florence	41.3
Lisbon	27.1	Genoa	47.3
Williamsburg, U.S.	47.0	Padua	36.9
Madeira	27.7	Verona	36.9
Charleston	54.0	Vicenza	43.8
Havannah	91.2	Milan	37.8
Rio Janeiro	59.2	Lausanne	40.2
Calcutta	76.4	Berne	46.1
Bombay	75.2	Augsburg	39.1
St. Domingo	107.6	Paris	22.2
Madras	44.6	Prague	14.1

It appears from these and the preceding results, that altitude above the sea level has a marked influence in increasing the rain fall. This, which I understand is a rule (with exceptions), holds good to the height of 2,000 feet, above which the humidity gradually lessens with the increasing elevation.

* Encyclop. Brit., Art. Meteorology.