

RAINFALL AT Coulter Waterhead

Lat. _____

Lon. _____

County of Lanark

Rain Gauge, by _____

Observer _____

W. Ross Esq. CE.

Clyde - Rbank - 4.

Diameter ...											
Height											
Altitude ...											
Year ...	1900	1901	1902	1903	1904	1905	1906	1907	1908	1909	MEANS.
January ...				6.33	4.46	2.54	6.52	1.23	3.50	3.03	
February ...				8.64	3.26	2.73	2.85	2.52	3.75	1.79	
March				10.65	3.44	7.56	2.84	3.40	6.45	5.13	
April				1.22	5.18	4.07	2.33	2.60	2.20	4.50	
May				3.38	3.79	2.12	7.16	4.40	3.00	3.05	
June				1.81	3.34	1.64	2.54	4.56	2.76	4.21	
July				4.10	4.15	3.31	3.13	4.52	2.89	4.05	
August				6.56	4.71	4.44	8.89	5.60	3.31	4.50	
September ..				3.25	2.90	2.99	.88	1.06	6.88	3.72	
October ...				10.98	2.68	3.71	7.22	10.35	1.42	9.68	
November ..				4.10	2.35	5.24	4.39	4.28	3.48	2.72	
December ...				4.65	3.95	3.95	2.84	4.66	3.25	4.97	
TOTALS ...				65.67	44.21	44.30	51.59	49.18	42.89	51.35	

The average of two gauges.

Back year 1903-1910 received and entered Dec. 1911.

RAINFALL at Coulter Reservoir No. 1.County of Lanark Observer W. Ross Esq. B.E.River Basin Glyde - right bank trib. 4.

Rain Gauge, by _____

Diameter ...		11									
Height		10									
Altitude ...											
Year ...	1910	1911	1912	1913	1914	1915	1916	1917	1918	1919	MEANS.
January ...		2.40	5.56	6.19	3.47	3.40	7.49	2.00	4.32	4.78	
February ...		4.07	4.38	3.21	9.60	9.29	5.26	1.32	6.48	1.11	
March		2.17	5.37	5.70	7.10	2.27	2.60	1.90	2.07	4.35	
April		6.19	.30	6.95	2.78	2.92	4.10	1.85	.94	3.71	
May		3.97	1.60	4.20	2.68	2.10	4.95	2.80	3.10	1.89	
June		3.11	6.07	3.70	1.25	1.20	6.50	4.16	1.90	3.12	
July		2.00	3.42	1.05	3.00	6.05	5.50	1.90	3.32	.68	
August		1.94	4.35	2.55	4.40	2.78	4.50	6.61	2.59	4.01	
September ..		2.82	2.32	2.74	2.18	1.69	2.95	4.21	7.47	4.60	
October ...		4.15	4.69	3.59	2.37	2.60	7.31	7.11	7.30	2.90	
November ...		6.43	4.20	4.99	5.67	2.50	6.81	4.70	6.91	3.69	
December ...		10.59	8.40	3.07	12.00	7.80	5.20	2.70	6.60	7.81	
TOTALS ...		49.84	50.66	47.94	56.50	44.60	62.17	41.26	53.00	43.25	

Date.	Lat. N.	Long.	Railway Station.	Distance.	Direction.	Church.	Distance.	Direction.

RAINFALL at Coulter Reservoir No. 2.County of Lanark Observer W. Ross Esq. F.R.S.River Basin Glyde. Right bank tribs 4.

Rain Gauge, by _____

Diameter ...		11									
Height		1	0								
Altitude ...											
Year ...	1910	1911	1912	1913	1914	1915	1916	1917	1918	1919	MEANS.
January ...		2.90	5.79	6.61	3.41	3.31	7.85	2.32	4.01	4.92	
February ...		4.80	4.30	3.21	9.29	9.23	5.49	2.32	6.00	1.51	
March		3.10	5.86	6.55	7.27	2.61	2.89	3.00	2.12	2.71	
April		6.38	4.42	6.65	3.11	2.92	4.25	3.31	.99	5.82	
May		4.10	1.51	4.20	2.95	2.10	4.85	2.95	2.91	1.63	
June		3.40	6.36	3.80	1.53	1.00	5.50	4.10	2.01	2.70	
July		2.11	3.40	1.25	2.69	6.00	5.66	1.82	3.42	.69	
August		1.90	4.70	2.60	4.21	2.70	4.51	6.22	2.60	4.15	
September ..		3.02	2.42	2.81	2.17	1.91	3.00	3.94	7.52	4.03	
October ...		4.77	4.86	3.50	2.51	2.35	7.61	6.69	6.59	2.89	
November ..		7.11	4.20	5.65	6.23	2.69	6.53	5.21	5.71	4.31	
December...		10.90	8.85	3.55	11.00	7.69	5.31	3.20	5.55	7.65	
TOTALS ...		54.49	52.67	50.38	56.37	45.06	63.45	45.08	49.43	43.01	

Date.	Lat. N.	Long.	Railway Station.	Distance.	Direction.	Church.	Distance.	Direction.

RAINFALL at Boulter WaterheadCounty of Lanark Observer W. Ross Esq. C.E.River Basin Glyde - right bank tribs 4.

Rain Gauge, by _____

Diameter ...											
Height											
Altitude ...											
Year ...	1910	1911	1912	1913	1914	1915	1916	1917	1918	1919	MEANS.
January ...	3.03	2.65									
February ...	8.18	4.43									
March	6.13	2.64									
April	4.29	6.28									
May	2.03	4.03									
June	1.67	3.25									
July	6.02	2.05									
August	7.20	1.92									
September ..	1.26	2.92									
October ...	3.03	4.46									
November ..	3.93										
December ...	5.44										
TOTALS ...	52.21										

Average of two gauges.

Back years 1903-1910 received and entered Dec. 1911.

Date.	Lat. N.	Long.	Railway Station.	Distance.	Direction.	Church.	Distance.	Direction.

RAINFALL at boulter Reservoir No. 1.County of Lancashire Observer W. Ross, Esq. C.E.River Basin 4 Clyde, Ribbles. (1927) Lewis Gordon Esq. C.E.(1926) Howard Rain Gauge, by Bone Surveyor Manchester

Diameter ...	11					11"					
Height	1.0					1'					
Altitude ...					1175	1250'					
Year	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929	1930 MEAN.
January ...	7.82	8.10	5.30	3.50	5.11	5.33	9.53	6.70	10.90	1.90	9.61
February ...	4.80	1.32	6.02	8.60	.92	5.11	5.81	4.20	4.70	1.80	.89
March	7.92	8.91	3.00	3.00	.93	1.53	(2.90)	4.60	7.60	.60	2.63
April	2.10	1.69	3.51	4.51	3.73	6.71	3.51	3.20	1.80	2.20	2.91
May	6.10	2.98	3.83	3.52	4.31	7.31	4.41	2.30	2.10	5.10	1.97
June	1.84	.79	2.69	1.94	2.30	.49	4.91	4.80	5.30	5.20	3.18
July	5.07	5.32	5.51	4.89	4.43	2.33	3.42	4.90	4.30	3.50	3.61
August	6.37	7.48	4.50	9.51	5.42	4.50	4.20	7.10	8.50	7.00	9.57
September...	3.99	2.43	2.51	6.12	5.92	4.02	4.15	7.70	3.70	.90	3.97
October	3.31	4.10	2.78	6.83	4.31	6.41	4.92	6.60	8.20	7.10	9.32
November...	3.88	2.39	3.53	3.92	3.10	2.00	7.51	5.40	5.90	7.70	6.28
December...	5.91	5.00	6.90	4.50	9.63	5.31	1.12	1.60	4.50	13.70	7.23
TOTALS...	60.41	50.51	50.08	60.84	50.11	51.05	(56.39)	59.10	67.50	56.70	61.17
	M			M							

1926 March corrected by surrounding stations.

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

No. of Map

Reference No.

Date.	Lat. N.	Long.	Railway Station.	Distance from gauge	Direction from gauge	Parish Church.	Distance from gauge	Direction from gauge
1925	55° 32' 30" N	3° 31' W	boulter	6 mi	N	boulter	6 mi	N

RAINFALL at Coulter Reservoir, No. 2,County of Lancashire Observer W. Ross, Esq. C.E.River Basin 4. Clyde. Right bank tribs.(1926) Howard Rain Gauge, by _____

Diameter ...	11					11"					
Height	1.0					1'					
Altitude ...	—		1175	1175		1250					
Year	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929	MEANS.
January ...	7.60	7.80	6.52	5.50	6.30	5.10	8.43				
February ...	5.00	1.28	6.92	8.60	.93	5.33	5.12				
March	7.38	7.92	2.91	5.00	1.12	2.83	(2.92)				
April	3.20	1.90	3.31	4.51	3.71	6.32	3.31				
May	5.60	2.90	3.43	3.81	4.31	6.91	4.31				
June	1.70	.90	2.78	1.72	2.40	.52	4.40				
July	4.91	4.91	5.22	4.91	4.63	2.20	3.12				
August	5.91	7.41	4.58	9.51	5.20	4.71	4.10				
September...	2.69	2.43	2.55	5.31	5.34	4.50					
October	2.81	2.68	2.84	5.93	4.32	6.44					
November...	2.42	2.74	3.92	3.71	3.00	2.00					
December...	4.91	6.11	6.88	4.73	8.63	5.82					
TOTALS...	56.13	49.48	67.86	59.24	49.89	52.68	imp				
	M			M							

1923. Jan - April & August, gauge out of order, and estimated. N.P.
 1926. March corrected by run. gages.

Position of Station on reduced Ordnance Survey } No. of Map _____

Map, 2 miles to 1 inch Series

Reference No. _____

Date.	Lat. N.	Long.	Railway Station.	Distance from gauge	Direction from gauge	Parish Church.	Distance from gauge	Direction from gauge
1925	55° 32'	3° 31'	Coulter	6 m.	N.	Coulter	6 m.	N.

RAINFALL at Coulter Reservoir, No 1County of LanarkObserver L. Bootley, C.E.River Basin W. Clyde - Right BankType of Gauge HowardAnnual Average 19.0 in. based on 22 years obs. wt-weighted. Period of average 1881-1915 Ref. Scomputed x137

Diameter	11"										
Height	1' 0"										
Altitude	1250'										
Year	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940	Means
January	4.38	11.67	7.64	9.15	2.64	6.71	10.59	7.96			
February	4.12	3.5	4.58	1.8	5.31	3.34	6.47	3.49			
March	1.24	3.35	(2.62)	3.34	2.46	3.16	2.46	3.70			
April	3.04	3.10	2.04	5.21	4.31	1.29	2.83	.85			
May	2.84	3.54	3.00	4.86	.95	.78	2.10	4.86			
June	6.73	1.05	1.89	2.49	5.20	4.33	3.33	6.80			
July	5.22	7.51	(4.03)	2.74	1.82	5.12	5.73	6.66			
August	3.85	2.56	3.18	6.94	2.48	2.62	2.92	2.45			
September	1.21	4.21	1.96	6.79	4.52	3.66	4.15	3.99			
October	4.64	8.17	4.38	7.46	7.56	4.52	5.44	8.30			
November	11.17	3.46	2.68	2.43	5.47	4.63	1.04	11.72			
December	4.21	12.53	.98	8.94	3.28	8.54	2.96	6.00	#		
TOTALS	52.65	61.52	(38.98)	60.53	46.00	48.70	50.02	65.78			
	M.	M									

1933 March - July amended by amounting stone. Gauge leak repaired August.

Inspected 8/11/37. Site unorthodox at the top of a 30' bank on S. side of reservoir. Hilly country causing many wind eddies.

Suggested another gauge should be erected on lower ground.

Record discontinued 12/38

Position of Station on reduced Ordnance Survey Map,
1 mile to 1 inch Series

No. of Map.....

Reference No.....

Date.	Lat. N.	Long.	Railway Station.	Distance from gauge	Direction from gauge	Parish Church.	Distance from gauge	Direction from gauge
1931.			Coulter	6m	N.	Coulter	6m	N.

RAINFALL at COULTER RESERVOIR (new g.)County of LANARKObserver L. Costley, C.E.River Basin 4 - Clyde - Right BankType of Gauge M.S.O.Annual Average in. based on years obs. un-weighted. Period of average Ref

Diameter								5"			
Height								1'			
Altitude								1250'			
Year	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940	Means
January								5.21	1.13		
February								# 6.85	4.94		
March								(3.70) 5.15	6.70		
April								.85 2.10	3.55		
May								4.10 .80	1.25		
June								6.95 3.30	1.05		
July								6.35 4.85	6.10		
August								3.32 1.85	1.75		
September								3.90 2.90	5.35		
October								7.25 3.00	4.90		
November								10.70 8.75	6.75		
December								4.20 2.25	4.50		
TOTALS								imp 47.01	47.97		

The new gauge is fixed at same ht. as old & immediately adjacent to it.

Position of Station on reduced Ordnance Survey Map,
1 mile to 1 inch Series

No. of Map.....

Reference No.....

Date.	Lat. N.	Long.	Railway Station.	Distance from gauge	Direction from gauge	Parish Church.	Distance from gauge.	Direction from gauge.
1938			Coulter	6m	N.	Coulter	6m	N.

RAINFALL at Coulter Reservoir (res. g.) Station No. 5164/1 41
 County of Lanark Observer L. Cottle, C.E.
 River Basin H. Clyde-Right Bank J. Bisset Scott Esq. (from 1948)
 Type of Gauge (M)

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

File No.

Diameter	5"				6.51	7.63	*			5	
Height	1'0"					1				1'0"	
Altitude	1250'					41				1157	
Year	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	Means
January	110	365	5.42	4.06	2.98	5.75	5.25	6.74	4.24	2.40	
February	625	197	4.70	1.24	4.95	2.79	(1.00)	3.87	4.62	5.30	
March	320	(240)	1.25	0.52	2.60	2.65	(3.45)	3.65	1.82	5.08	
April	280	345	2.60	2.18	1.89	.62	7.69	3.28	3.64	3.04	
May	435	438	3.93	2.97	5.68	1.00	3.10	2.19	2.49	1.89	
June	125	140	4.15	3.61	4.05	2.50	2.60	5.93	1.32	3.31	
July	395	335	2.15	2.85	4.30	4.86	2.90	3.26	1.84	3.68	
August	565	605	5.02	3.31	1.95	6.23	0.00	6.55	3.72	4.12	
September	245	555	4.85	4.82	6.35	6.75	4.00	5.16	2.27	9.05	
October	360	475	8.63	4.18	4.95	.55	1.60	3.72	7.06	3.84	
November	590	130	2.66	6.59	.48	6.70	7.03	3.15	4.99	4.75	
December	245	920	2.87	3.81	4.23	4.50	2.60	6.61	6.92	1.61	
TOTALS	42.95	47.45	48.23	40.14	44.41	44.90	41.22	54.11	44.93	48.07	
	w.	w.	w.	n.p.	w.	w.	n.p.	ap.	up.	w.	

1942 Mar amended to agree with nearby of No.
 1944 n.p. low. Gauge is sound & site unchanged - on inspection last 8/45
 1947 Feb. est. Mar. adj. for snow by M.O.S. N.P. Low
 1945 n.p. low. 1949 n.p. low. Inspection asked for.

* gauge moved on 1/1/50, 483 yds to the N.W. Feb. amended for snow loss.

10004

30004

Position of Station on reduced Ordnance Survey Map, 1 mile to 1 inch Series, No. of Map..... Reference No. Mixed.

Date.	Lat. N.	Long.	Railway Station.	Distance from gauge.	Direction from gauge.	Parish Church.	Distance from gauge.	Direction from gauge.
1941			Coulter	6 ml.	N.	Coulter	6 ml.	N.
1950			Boulton	6 ml.	N.		6 ml.	N.

Station No. 5164/1RAINFALL at Coulter Reservoir

51

County of LancashireObserver J. Binnett Scott Esq. C.E.River Basin 4-Blyde Right Bank TiesType of Gauge M.O. 2133/7Annual Average 53.28 in. based on 21 years obs. un-weighted. Period of average 1916-50 Ref. "S."2 in cap. means 53.60/4 from 1916-50. File No. "S."

Diameter ...	5"				651	763	*				
Height ...	1' 0"					1					
Altitude ...	1157'					51					
Year ...	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	Means
January ...	4.09	3.94	1.71	6.00	2.85	2.40	6.45	3.55	1.71	2.95	
February ...	3.28	2.02	1.52	2.25	1.90	1.75	4.45	2.75	1.35	3.00	
March ...	3.01	2.58	0.75	2.55	1.25	2.05	3.35	1.40	2.35	2.60	
April ...	3.42	2.23	3.14	1.60	1.50	.95	2.10	2.20	3.65	3.20	
May ...	2.03	2.12	2.40	4.80	3.10	2.08	2.30	2.85	2.25	2.10	
June ...	1.68	2.55	2.12	3.35	2.10	3.20	1.80	2.69	3.00	1.70	
July ...	3.52	3.39	6.20	3.95	3.61	3.75	4.45	6.40	4.00	3.80	
August ...	6.81	3.57	3.00	4.20	2.10	7.30	4.10	3.80	0.92	4.18	
September ...	3.49	2.55	4.55	7.00	3.85	4.30	2.75	4.10	1.25	2.38	
October ...	2.78	3.18	3.75	10.15	3.55	3.30	3.37	2.80	4.60	2.48	
November ...	6.81	3.67	6.30	7.25	1.75	1.25	2.70	1.55	7.45	5.85	
December ...	5.35	3.33	4.30	6.00	4.50	4.25	3.95	3.90	5.58	4.57	
TOTALS ...	44.27	35.13	39.74	57.10	32.06	36.58	40.97	37.49	39.11	38.81	
	W	W	W	W	W	W	W	W	W	W	

1951 Stone Wall 3' 10" S.

Map 1/4 1/2 shown 16.10.52. Gauge sound. Site on old dam ring Erow, 20' wide wall 2' wide at edge
 near N.W. N. side falls steeply. Overexposed falling to lower spring.
 Recent new site at S. end of wall and rim at 1' N.W. side but the last available fairly well sheltered
 likely to give reasonable results

1958 n.p.l.w.

1960 n.p.l.w.

1/1/50.

Position of Station on Ordnance One-Inch map : No. of Map National Grid Reference NT(34)036275

Date.	Lat. N.	Long.	Railway Station.	Distance Direction from gauge		Parish Church.	Distance Direction from gauge.	
1951			Coulter	6.11	N	Coulter	6.11	N.

Summary of Earlier Records from 10-year Sheets :

Jub

Record D, or d	1910-19	1920-30	1931-40	1941-50	1951-60
	C 1711	✓	✓	✓ 20.44.47-49	

Nov 15-1915.

11" monthly gauge is set up alongside 5" gauge. looking at top of ground
24" dip road reads 45"

high & rain gauge & deep for comparison with 5" gauge at the same time