

RAINFALL AT *Greenside Mines**James Barrington*Rain { By
Gauge { Diameter.....in.Height above Ground, ft. *8* in.Above Mean Sea Level, *2000* 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>			MEANS.
January								<i>4.25</i>			
February								<i>1.50</i>			
March								<i>1.25</i>			
April								<i>#</i>			
May											
June											
July											
August											
September ..											
October								<i>#1.74</i>			
November ..								<i>6.25</i>			
December.....								<i>3.75</i>			
TOTALS.....											

e e

RAINFALL AT Patterdale Greenside Mine

70

Lat..... Lon..... County of *Westmoreland*
 Rain Gauge, by..... Observer *M. L. Taylor*

Diameter.....			7								
Height			1.6								
Altitude.....			1000								
Year.....	1870	1871	1872	1873	1874	1875	1876	1877	1878	1879	MEANS.
January.....			# 22.75	28.05	12.85	20.00	6.10	19.03	11.10	1.98	
February.....			14.35	4.00	7.72	2.22	10.08	9.84	6.65	5.32	
March.....			7.30	7.70	8.80	4.77	9.02	5.07	5.53	7.26	
April.....			3.20	1.30	3.85	2.25	4.95	4.44	2.88	3.43	
May.....			6.25	2.10	3.00	5.40	1.25	8.53	9.39	2.40	
June.....			9.75	3.45	2.65	7.40	6.30	8.02	4.51	8.81	
July.....			4.68	10.00	4.32	4.50	4.55	11.16	1.77	10.71	
August.....			8.80	10.50	15.85	5.50	7.64	11.15	7.46	11.27	
September.....			12.50	8.05	13.13	9.88	8.15	6.22	12.37	11.29	
October.....			16.46	8.00	26.30	8.15	4.75	21.28	14.17	4.22	
November.....			14.83	7.40	6.25	7.72	6.13	25.14	4.91	2.47	
December.....			17.32	8.36	4.20	12.13	15.63	19.96	5.15	9.68	
TOTALS.....			138.19	91.91	108.92	89.92	84.55	140.84	85.89	78.84	

Patterdale church 2 miles S.E.

RAINFALL AT *Patterdale, Greenside Mine*

3679
80

Lat. _____

Lon. _____

County of _____

Rain Gauge, by _____

Observer *M^r J. Taylor*

Eden - 1.

Diameter	7											
Height	1.6											
Altitude	1000 T											
Year	1880	1881	1882	1883	1884	1885	1886	1887	1888	1889	MEANS.	
January	4.29	1.50	10.13	17.89	18.39	6.46	8.15	7.86	4.06	5.90	8.463	
February	13.93	6.41	12.39	14.77	12.44	21.99	2.57	5.80	2.48	4.16	9.694	
March	4.95	9.17	9.79	5.82	9.22	7.13	8.57	3.16	6.41	4.62	6.884	
April	8.67	1.89	10.10	3.92	3.61	6.39	7.36	6.58	5.98	4.75	5.925	
May	2.60	8.80	9.55	4.84	8.04	5.38	7.36	2.74	5.21	5.04	5.976	
June	5.59	8.12	8.48	5.61	3.33	2.67	3.08	.62	3.59	1.02	4.211	
July	6.35	7.99	4.87	4.98	9.57	4.29	8.57	7.30	9.62	4.41	7.795	
August	2.88	9.12	6.24	7.72	1.50	5.80	3.85	3.65	7.20	9.37	5.733	
September....	8.13	2.80	5.45	10.43	10.70	12.76	14.54	10.18	3.07	4.67	8.273	
October	2.40	5.03	8.08	12.66	8.96	11.14	9.45	4.91	13.91	11.85	8.839	
November....	15.84	18.73	17.13	16.74	7.81	6.59	9.50	6.00	17.57	4.54	12.045	
December	7.93	10.58	8.21	8.97	14.12	6.30	14.03	9.25	12.70	9.13	10.127	
TOTALS	83.56	90.14	120.42	144.35	707.69	977.10	970.8	680.5	91.80	69.46	93.965	

1887 Patterdale Church 2 miles S E

RAINFALL AT Pattendale Greenside Mine

Lat. _____

Lon. _____

County of Westmorland

Rain Gauge, by _____

Observer _____

W. J. Taylor

W. H. Borlase Esq

Gauged - 1.

Diameter	7										
Height	16								2.1	1.6	
Altitude	1000 T										
Year	1890	1891	1892	1893	1894	1895	1896	1897	1898	1899	MEANS.
January	17.19	9.65	5.56	5.00	15.39		5.66	1.56	9.81	18.66	
February	1.83	.98	4.94	10.23	16.74	13.50	4.93	9.52	10.51	8.51	
March	6.52	6.45	2.47	3.51	7.20		12.26	18.56	3.84	6.78	
April	2.02	2.71	2.09	1.47	3.33	15.50	4.70	5.22	7.79	8.41	
May	4.86	6.00	7.24	2.94	7.96	1.66	.86	3.68	5.24	7.34	
June	6.16	3.35	6.16	5.13	3.77	1.67	4.92	4.26	6.80	1.96	
July	8.92	6.49	5.51	6.00	3.40	8.24	7.35	3.50	2.48	5.52	
August	9.19	14.99	11.53	7.92	7.21	9.48	3.54	14.30	10.02	2.25	
September....	9.78	18.26	13.00	7.59	.29	3.70	13.33	11.77	4.38	9.09	
October	7.53	12.43	10.55	9.27	9.67	9.05	10.94	7.50	8.07	9.05	
November	14.95	9.67	7.38	6.29	13.46	13.33	4.29	11.18	10.85	14.08	
December33	21.03	3.50	14.88	9.30	8.50	10.15	19.65	20.72	4.99	
TOTALS	89.28	112.01	79.93	80.23	97.72	74.63	82.93	110.70	100.51	96.64	92.458

1890 Pattendale Church 2 Miles SE

{ 1895 Jan'y to April Record lost owing to death of Obs?
estimated

RAINFALL AT *Pattendale Jesuville Miss*

Lat. Lon. County of *Westmoreland*

Rain Gauge, by Observer *W. H. Bolase Esq.*

Eden - 1.

Diameter ..	7											
Height	1.6											
Altitude ..	1000 ^T											
Year	1900	1901	1902	1903	1904	1905	1906	1907	1908	1909	MEANS.	
January ..	10.18	6.54	7.66	16.05	14.57	5.87	15.99	4.24	9.98	7.61	9.369	
February ..	7.00	3.05	2.96	20.69	9.71	5.61	6.77	6.43	7.42	5.27	7.491	
March25	6.00	6.04	24.53	6.57	10.70	6.65	6.97	7.57	5.02	8.430	
April	6.61	7.19	6.14	2.56	11.16	7.39	2.37	3.31	3.91	5.19	5.583	
May	6.60	2.50	5.05	5.59	5.39	5.38	9.32	11.38	4.63	2.53	5.837	
June	5.68	5.39	2.10	2.64	4.77	3.77	2.82	10.70	3.91	4.76	4.654	
July	3.62	1.55	4.85	6.04	5.92	2.46	4.10	2.83	5.40	8.86	4.563	
August	9.52	9.84	4.06	11.32	8.25	6.79	8.20	9.00	12.30	4.94	8.422	
September ..	6.01	7.03	5.57	7.89	3.58	8.20	3.29	1.39	9.88	4.11	5.705	
October	14.58	8.84	7.88	20.89	4.68	8.11	14.43	12.71	3.36	17.92	11.340	
November ..	8.45	7.65	7.64	7.39	5.33	10.99	10.33	7.89	9.20	4.98	8.135	
December ..	18.54	9.29	14.43	9.77	8.89	6.51	4.65	12.97	8.14	10.56	10.375	
TOTALS ..	97.04	74.87	74.38	139.86	89.82	81.88	88.92	89.82	85.70	81.75	90.104	

1903 *St. Patrick Church 1 1/2 mile SE*
Zombek Station 9 miles N

Hals

RAINFALL at Patterdale Greenside MinesCounty of WestmorlandObserver W H Barlow EsqRiver Basin Eden 1

Rain Gauge, by

Diameter ...	7										
Height	1.6								1.0		
Altitude ...	1000 T										
Year ...	1910	1911	1912	1913	1914	1915	1916	1917	1918	1919	MEANS.
January ...	10.80	2.96	6.39	9.27	11.50	9.73	11.87	2.76	9.26	9.26	
February ...	18.82	11.30	7.42	8.34	15.87	15.69	10.23	1.26	10.71	1.13	
March	7.83	3.14	14.08	10.99	10.48	2.66	2.97	3.20	3.32	6.00	
April	7.89	6.20	2.52	12.01	4.83	5.10	6.52	3.58	1.15	5.46	
May	6.23	5.07	2.80	3.75	5.23	1.41	4.45	4.41	2.78	1.19	
June	2.96	7.32	8.30	6.85	1.77	.62	4.68	3.52	2.92	4.22	
July	8.33	1.90	6.94	.78	5.64	5.48	4.56	1.66	6.22	2.09	
August	14.22	5.33	8.24	3.45	5.33	3.70	3.70	13.26	6.73	5.79	
September ..	1.30	4.74	4.40	3.58	4.62	1.16	3.47	6.55	16.44	6.29	
October ...	4.72	7.54	8.44	5.77	2.29	1.37	22.80	14.98	13.21	5.06	
November ..	7.08	12.87	6.79	10.09	14.28	2.82	14.01	11.56	7.76	6.21	
December ...	(12.29)	19.83	15.96	7.93	17.56	14.97	6.42	3.29	11.43	17.64	
TOTALS ...	(102.4)	88.20	92.28	82.81	99.40	64.71	95.74	70.03	91.93	67.34	

1914 Open space

Date.	Lat. N.	Long.	Railway Station.	Distance.	Direction.	Church.	Distance.	Direction.
1911			Troutbeck	9 mi	SE N.	Patterdale	1 1/2 2 1/2	SE NE

RAINFALL at Patterdale Greenside MineCounty of WestmorlandObserver L. H. Gimson Esq.River Basin Eden 1Matthew Place (1921) Secy forR. H. Boulton Esq. (1913)B.A. Rain Gauge, byGreenside Mining Co. Ltd.

Diameter ...	7										
Height	1 6										
Altitude ...	1000										1005
Year	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929	MEANS
January ...	12.99	16.42	7.76	9.28	9.75	9.20	13.05	10.98	20.36	2.08	19.13
February ...	10.12	45	8.23	11.64	2.24	10.81	9.04	5.17	8.91	1.56	1.25
March	15.05	14.97	6.13	4.83	1.60	4.39	4.11	9.12	9.96	1.42	4.93
April	8.52	1.70	4.60	6.10	5.05	8.80	4.56	5.76	7.63	2.94	4.29
May	10.65	4.68	3.61	6.90	7.22	9.60	4.81	4.09	1.91	7.33	4.60
June	2.71	.91	5.02	3.31	4.90	3.9	6.94	6.57	10.46	4.04	4.52
July	8.62	5.20	9.74	5.69	8.27	1.80	7.06	6.40	6.57	8.06	6.42
August	4.52	9.81	7.45	18.18	7.61	7.62	7.57	10.26	14.50	9.75	13.33
September...	3.69	2.91	5.89	12.01	13.05	6.89	7.53	10.81	5.76	4.02	6.67
October	3.51	4.53	1.33	20.76	7.84	12.71	6.87	12.39	17.80	12.77	18.84
November...	8.26	3.63	6.38	9.53	8.77	3.00	15.45	8.63	16.89	19.85	12.90
December...	8.82	14.45	15.86	8.71	20.95	10.53	2.19	1.85	7.38	21.33	10.54
TOTALS...	97.46	79.66	82.00	116.94	97.25	85.54	89.18	92.03	124.03	96.15	107.42

1921. In open.

1924. February. New funnel to gauge.

Position of Station on reduced Ordnance Survey } No. of Map _____ Reference No. _____
Map, 2 miles to 1 inch Series

Date.	Lat. N.	Long.	Railway Station.	Distance from gauge	Direction from gauge	Parish Church.	Distance from gauge	Direction from gauge
1920			Troutbeck	9 mi	S E	Patterdale	2 1/2 mi	N E

RAINFALL at Patterdale (Greenside Mine)County of WestmorlandObserver Matthew Place, Esq., died 1938River Basin Eden - 1.Bainthorpe Mining Syndicate LtdType of Gauge Gumby (1938) 11.0 Shandon
1940Annual Average 9.19 in. based on 35 years obs. un-weighted. Period of average 1881-1915 Ref 5

765422/27.

Diameter	7.								5		
Height	1.6.		2.1	8"					8 1/2		
Altitude	1008.		1100						1081		
Year	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940	Means
January	10.71	22.41	14.38 10.83	18.56	5.08	11.02	14.69		4.26	3.42	
February	8.01	1.14	8.83 12.38	.90	16.71	5.23	9.09		13.75	2.93	
March	1.57	7.41	6.81	4.80	2.12	5.31	5.00		8.85	11.78	
April	5.49	8.27	2.67	6.90	8.19	2.23	4.64		4.23	4.28	
May	6.43	6.03	4.26	7.73	1.24	.96	4.01		1.28	1.71	
June	9.94	3.81	2.78	2.65	8.09	5.00	5.54		7.20	1.20	
July	8.65	9.56	8.22	2.31	3.54	9.96	5.15		11.73	9.88	
August	6.24	2.34	4.96	9.66	5.95	2.93	1.88		2.96	4.67	
September	3.20	9.32	2.30	12.08	15.02	11.99	8.81		2.80	8.89	
October	6.52	15.66	9.10	14.25	19.03	9.54	5.00		5.06	9.68	
November	20.80	9.07	3.40	1.89	7.70	11.64	2.25		16.81	13.64	
December	7.07	18.48	.35	16.34	8.30	10.25	5.98		6.70	10.99	
TOTALS	94.63 D.	112.50 R	68.06 A	98.07 d.	100.97 d.	92.12	72.04	N. R.	95.71 d	83.10 d	

No Sunday readings taken between 1935-1940.

1933. Jan and Feb adjusted for wrong date of entry.

1935. Surrounded by hills 1200 to 1400 ft. high.

1937. Men's Buildings on mountain side 100 yds away.

1938 No record as gauge was out of order.

1939 Conveyor 20' high 70' W.

1940 Stone wall 18' high. 25 yds N.N.W. Zinc sheds 20' high 28 yds N.N.E.
Sheds 35' x 60 yds W.Position of Station on reduced Ordnance Survey Map, } No. of Map..... Reference No.....
1 mile to 1 inch Scale

Date.	Lat. N.	Long.	Railway Station.	Distance from gauge	Direction from gauge	Parish Church	Distance from gauge	Direction from gauge
			Ironbuck.	9m.	N.W.	Patterdale	2 1/2 m	S.E.

Station No. 3679RAINFALL at Patterdale (Greenside Mine)

41

County of WestmorlandObserver Basinghall Mining Syndicate Ltd.River Basin Eden - 1Type of Gauge SnowdonAnnual Average 9.9 in. based on 35 years obs. ~~wt~~-weighted. Period of average 1881-1915 Ref. SFile No. 705422/27

Diameter	5"			600	313						
Height	9"				1		8½"				
Altitude	1081'				41						
Year	1941	1942	1943	1944	1945	1946	1947	1948	1949	1950	Means
January	2.35	9.38	18.38	13.63	7.83	11.06	12.14	15.5	8.81	8.99	
February	10.56	3.16	9.69	(2.40)	10.49	9.09	.75	12.03	9.71	13.34	
March	5.02	6.60	3.13	1.64	7.05	6.08	12.59	6.97	3.54	7.86	
April	4.64	8.68	5.51	4.45	4.80	2.76	15.87	8.07	12.32	6.98	
May	6.23	9.23	8.41	3.71	6.85	1.51	4.58	2.90	4.99	4.86	
June	2.9	2.91	8.29	7.23	8.49	7.09	5.17	13.38	2.07	4.12	
July	2.19	6.47	5.36	4.22	6.53	8.77	5.36	5.26	1.87	6.21	
August	13.57	12.10	13.20	5.49	3.45	10.64	.17	9.64	6.81	12.06	
September	2.76	11.83	11.58	10.60	10.92	15.44	8.64	11.20	3.78	20.16	
October	8.66	12.05	15.28	12.03	13.13	1.45	1.96	7.81	13.34	10.99	
November	8.05	3.13	7.14	15.03	1.08	18.21	15.95	8.28	16.23	9.06	
December	7.24	17.28	8.02	10.75	8.00	12.39	4.84	13.57	18.50	6.87	
TOTALS	71.56	102.82	113.99	91.18	88.62	104.49	88.02	114.26	101.97	111.40	

1941: - Stone Wall 15' high 25 yds N.W. Sheds 20' high 28 yds N.E. Sheds 36' high 60 yds W.

1943: - July & Aug. opposition by up to snow stone

1944 Feb. partial d.

20004

876.91

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.
1941			Troothbeck	6 miles	N.N.E.	Patterdale	2 miles	E.S.E.

BRITISH RAINFALL ORGANIZATION

Station No. 3679 ✓

RAINFALL at Patterdale (Greenside Mine)

51

County of WestmorlandObserver Basinghall Mining Syndicate Ltd.River Basin Eden - 1Type of Gauge SnowdonAnnual Average 91.9 in. based on 35 years obs. un-weighted. Period of average 1881-1915 Ref. S" " 95.25 " " 40 " " within 1916-57 " " 1916-50 File No. 765422/27

Diameter ...	5"				600	33				5"	
Height ...	0' 9"					1				10"	
Altitude ...	1081'		1101'			51				1100'	
Year ...	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	Means
January ...	9.34	10.23	3.84	8.73	7.61	6.46	17.25	11.34	7.83	11.42	
February ...	10.40	2.81	3.38	7.20	3.69	1.29	9.75	11.52	2.82	11.83	
March ...	6.21	5.38	1.35	8.63	2.65	4.43	7.20	2.15	7.70	3.65	
April ...	8.77	6.48	6.44	2.03	3.83	1.96	2.11	3.38	8.41	8.66	
May ...	2.41	4.03	3.93	6.98	9.47	3.57	4.63	7.73	2.55	3.89	
June ...	2.12	5.14	3.38	7.53	4.45	5.22	2.01	6.58	6.51	4.36	
July ...	5.13	4.18	12.79	8.26	3.63	9.72	5.91	5.68	7.64	7.39	
August ...	9.93	11.51	8.61	7.87	4.08	11.94	10.12	6.55	1.67	5.40	
September ...	13.19	9.63	13.50	17.48	5.92	5.97	11.27	10.65	1.28	4.31	
October ...	2.03	10.01	4.89	23.06	7.01	8.46	9.98	9.54	11.78	5.14	
November ...	24.14	6.03	18.65	22.09	4.70	4.23	5.02	1.54	13.00	16.20	
December ...	21.09	7.13	5.37	16.21	12.52	15.82	11.46	7.99	19.65	10.40	
TOTALS ...	114.76	82.56	86.13	136.07	69.56	79.07	96.71	84.65	90.84	92.65	
	d	d	d	d	d	d	d	d	d	d	

1951 Stone wall 18', 25yd NNW; line sheds 20', 28yd NNE; Sheds 36', 60yd W:

1954. Road up at 4 pm.

Inspected 9-9-60 by J.H. Butler of ESE-SSSE. steep drop from Terrace to valley. Windside NE-MW just off bearing records ~ March 1961

NY(35)363772

Position of Station on Ordnance One-Inch map :

No. of Map.....

National Grid Reference NY(35)364174

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

Summary of Earlier Records from 10-year Sheets :

Record D, or d	1910-19	1920-30	1931-40	1941-50	1951-60
	✓	✓	1931-37, 39-40	✓	
	✓ but - 12, 16, 19	✓ but - 20, 22, 24	✓ but - 36, 37, 31.	✓	