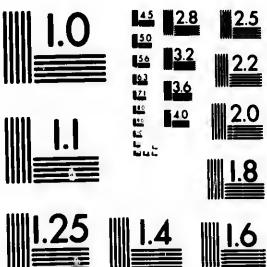
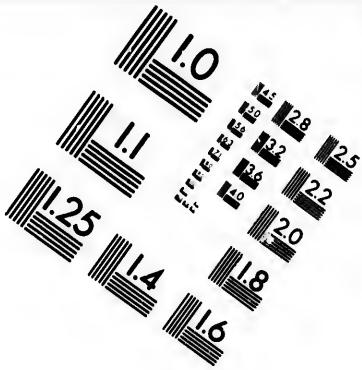
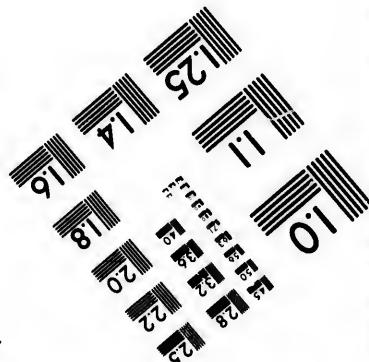
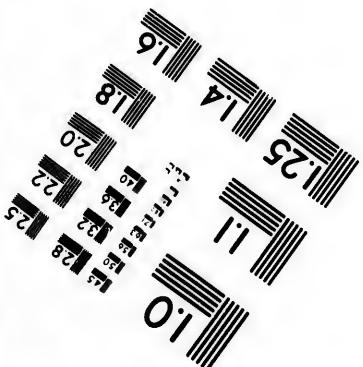


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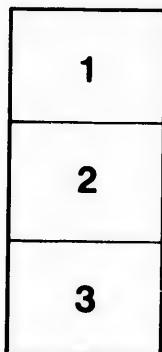
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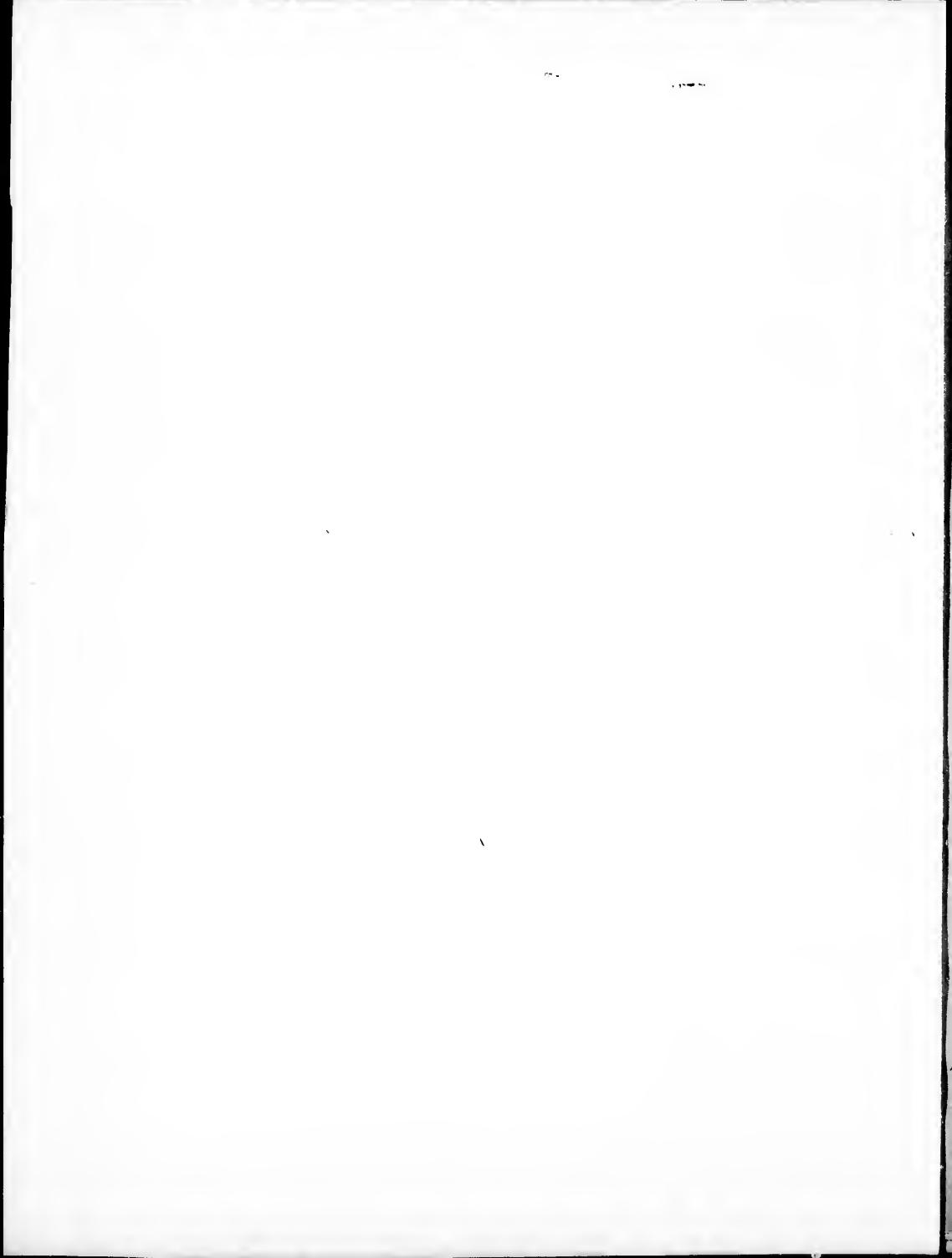
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*Bagnall Reed*



## ABSTRACTS

FROM

### THE METEOROLOGICAL OBSERVATIONS

TAKEN IN THE

YEARS 1860-61.

AT THE

ROYAL ENGINEER OFFICE, NEW WESTMINSTER, BRITISH COLUMBIA.

EDITED BY

COLONEL SIR HENRY JAMES, R.E.

F.R.S., M.R.I.A., F.G.S., &c.



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NEW WESTMINSTER, BRITISH COLUMBIA.

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MONTHLY AND YEARLY MEANS OF METEOROLOGICAL OBSERVATIONS FOR  
THE YEARS 1860-61.

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## NEW WESTMINSTER, BRITISH COLUMBIA.

Latitude  $49^{\circ} 12' 47''$  N. Longitude  $122^{\circ} 33' 19''$  W.

From daily Observations.	Hours of observation.											For the Year.				
	Jan.	Feb.	March.	April.	May.	June.	July.	August.	Sept.	Oct.	Nov.	Dec.				
Mean height of the barometer at the sea-level, and corrected for altitude above mean level of the sea, for each month and for the year; at -	9.39 a.m. 30-076	30-116	30-014	30-015	29-975	-	20-035	29-968	30-021	29-950	30-076	29-957	30-760			
Mean range of barometer (observed) -	3.30 p.m. 30-072	30-046	0-038	0-006	0-017	-	20-014	29-963	30-014	29-948	30-065	29-944	30-063			
Mean temperature of the air for each month and for the year; at -	9.30 a.m. 31-4	37-9	43-6	48-7	54-5	-	63-8	65-7	58-2	51-5	42-0	34-5	48-7			
Range of temperature of the air -	3.30 p.m. 2-5	41-4	49-8	52-6	59-0	-	69-1	72-6	62-0	54-5	44-1	37-1	52-6			
Mean temperature of evaporation for each month and for the year; at -	9.30 a.m. 34-0	37-3	41-1	45-1	50-4	-	59-7	62-3	56-0	50-3	41-0	33-6	48-4			
Range of temperature of evaporation -	3.30 p.m. 2-3	39-5	43-7	46-3	51-4	-	62-0	64-7	57-7	52-0	43-1	36-2	45-4			
Mean humidity for each month and for the year; at -	9.30 a.m. 3-961	0-940	0-827	0-738	0-773	-	0-797	0-755	0-869	0-848	0-927	0-951	0-859			
Range of humidity -	3.30 p.m. 0-939	0-834	0-676	0-640	0-642	-	0-680	0-672	0-780	0-828	0-918	0-943	0-779			
Mean maximum temperature of the air -	35-9	41-0	51-0	54-5	60-6	-	68-8	71-8	61-6	52-6	42-9	35-6	52-4			
Mean minimum temperature of the air -	27-2	39-4	30-4	32-6	36-7	-	46-3	47-4	42-7	38-9	31-0	25-0	33-2			
Approximate mean temperature of the air -	31-6	35-2	40-7	43-5	48-7	-	57-6	59-7	52-1	45-8	36-9	30-3	43-8			
Mean maximum temperature in the sun -	-	-	-	-	-	-	-	-	-	-	-	-	-			
Mean minimum temperature on the grass -	30-0	32-1	32-4	34-1	39-7	-	49-2	50-2	45-4	42-3	34-2	28-3	38-0			
Mean maximum temperature of evaporation -	-	-	-	-	-	-	-	-	-	-	-	-	-			
Mean minimum temperature of evaporation -	-	-	-	-	-	-	-	-	-	-	-	-	-			
Greatest quantity of rain in inches, each month, above the ground -	9-498	6-652	4-561	2-730	3-260	-	2-440	1-444	2-940	3-785	9-200	6-890	53-380			
Greatest quantity of rain in inches, 24 hours -	-	-	-	-	-	-	-	-	-	-	-	-	-	Date	Date	Date
		Date	Year	Year	Year											
		1-710 to 1-710	1843	1843	1843											
		1-2-030 to 1-2-030	1843	1843	1843											

\* Means for 11 Months.

NEW WESTMINSTER, BRITISH COLUMBIA—*continued.*

PRINCIPAL STATIONS OF THE ROYAL ENGINEERS IN 1860.

Wind.	Number of Days from each Point, and Number of Days on which there was Rain.												Total.						
	Direction.	No.	Rain No. on																
N.	-	-	-	-	-	-	-	-	-	-	-	-	1	2	1	1			
N.E.	2	-	-	1	1	1	1	1	1	1	1	1	1	1	1	1			
E.	6	3	2	11	7	6	4	1	-	3	2	4	1	2	3	2			
S.E.	-	4	3	5	3	1	1	9	6	-	3	1	6	3	3	3			
S.	-	-	3	2	7	3	7	3	5	2	-	10	2	7	2	1			
S.W.	-	-	2	1	1	3	1	1	5	3	-	1	6	4	-	17			
W.	3	3	3	1	1	-	1	-	-	-	-	-	1	1	1	18			
N.W.	2	1	-	-	-	-	-	-	-	-	-	-	1	1	1	13			
Calm.	10	7	13	8	5	1	12	2	6	2	-	12	7	4	10	15			
													1	7	1	18			
N.E.	-	1	-	-	-	-	-	-	-	-	-	-	2	-	-	4			
E.	1	3	5	-	-	2	-	-	-	-	-	-	1	-	1	6			
S.E.	-	3	4	1	1	6	-	-	3	10	4	7	1	2	2	22			
S.	2	-	7	13	12	12	-	19	16	11	4	3	-	-	12	39			
S.W.	-	2	3	5	4	-	-	-	-	3	2	10	3	-	4	51			
W.	7	6	3	1	2	-	-	-	-	1	4	3	4	3	5	9			
N.W.	1	-	-	5	3	-	-	9	2	-	12	8	4	11	11	56			
Calm.	17	10	-	6	-	-	-	-	-	-	-	-	-	-	-	56			
Maximum height of barometer (observed)	{ 9.30 a.m.	30.033	26	30.062	25	-	29.942	11	-	-	29.754	21	29.754	7	29.820	17	-		
	{ 3.30 p.m.	-	-	-	30.022	18	-	29.725	7	-	-	-	-	29.725	26	29.725	15	-	
Minimum height of barometer (observed)	{ 9.30 a.m.	29.204	6	29.430	20	-	29.078	4	-	-	29.060	20	29.060	57	29.075	10	-		
	{ 3.30 p.m.	-	-	-	29.325	5	-	29.001	22	-	29.030	11	29.030	31	-	-	29.071	19	-
Extreme range of barometer (observed)	-	1.430	-	1.293	-	1.162	-	1.076	-	-	0.926	0.750	-	0.735	-	1.254	-	1.254	-
Maximum temperature of the air	-	-	38° 0	19	48° 0	34	71.5	27	74.2	15	-	80° 0	21	84° 0	9	71.0	2	83.5	1
Minimum temperature of the air	-	-	10° 8	9	27° 0	22	32.5	20	35.5	5	-	40° 0	13	41.5	6	34.5	22	35.5	10
Extreme range of temperature	-	-	-	-	-	-	45° 0	-	47.7	-	-	40° 0	-	42.7	-	35.5	-	48.5	-
1860.	January.	February.	March.	April.	May.	June.	July.	August.	Sept.	October.	Nov.	Dec.					1860.		

OBSERVATIONS taken by Lance Corporals Peter J. Leech and James Conroy, R.E., under the direction of Captain R. M. Parsons, Royal Engineers.

NEW WESTMINSTER, BRITISH COLUMBIA.

Latitude 49° 12' 47" N. Longitude 122° 53' 19" W. Height above the sea 54 feet.

*Remarks.*

1860:

*January.*—The general state of the weather during the month has been dull and foggy, and a considerable quantity of rain has fallen, occasionally accompanied with snow.

*February.*—The weather during the month, has been similar to that experienced during the previous month, with the exception of fogs being less frequent.

*March.*—A considerable quantity of rain has fallen during the month. Butterflies appeared about the 9th. Thorns began to bud about the 10th, and a few flies to appear. Mosquitoes began to appear about the 22d.

*April.*—The weather has been very pleasant during the month. Mosquitoes numerous in the woods.

*May.*—A heavy fall of rain on the 9th of this month; but the weather has been generally fine and pleasant.

*June.*—No observations received for this month.

*July.*—Weather very fine and pleasant this month. Mosquitoes still very numerous.

*August.*—Very little rain during the month. The flood tide stemmed the downward current of the Fraser at New Westminster on the 19th, for the first time since the 22d May.

*September.*—The weather during the month has been very fine and pleasant.

*October.*—The weather has been more damp and foggy this month; with an increase in the fall of rain.

*November.*—Two very heavy gales of wind during the month, both from the south; on the mornings of the 10th and 11th respectively.

*December.*—Heavy fall of rain on the 30th. Month generally fine.

## PRINCIPAL STATIONS OF THE ROYAL ENGINEERS IN 1861.

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NEW WESTMINSTER, BRITISH COLUMBIA—continued.  
Latitude 49° 12' 47" N.      Longitude 122° 53' 19" W.

From daily Observations.	Hours of Observa- tion.	1861.												For the Year.	
		Jan.	Feb.	March	April	May	June	July	August	Sept.	Oct.	Nov.	Dec.		
Mean height of the barometer at the temperature of 32°, and corrected for altitude above mean level of the sea, for each month and for the year, at -	9:30 a.m. 30° 082 30° 051 3:30 p.m. 30° 067 30° 044 — 0° 015 0° 011	39° 903 36° 011 39° 977 39° 952 — 0° 025 0° 017	39° 968 30° 046 39° 935 30° 036 — 0° 013 0° 010	30° 051 30° 053 30° 044 30° 028 — 0° 007 0° 025	29° 944 29° 928 30° 063 30° 048 — 0° 005 0° 014	29° 944 29° 917 30° 063 29° 909 — 0° 005 0° 014	29° 944 29° 917 30° 063 29° 909 — 0° 005 0° 014	29° 944 29° 917 30° 063 29° 909 — 0° 005 0° 014	29° 944 29° 917 30° 063 29° 909 — 0° 005 0° 014	29° 944 29° 917 30° 063 29° 909 — 0° 005 0° 014	29° 944 29° 917 30° 063 29° 909 — 0° 005 0° 014	29° 944 29° 917 30° 063 29° 909 — 0° 005 0° 014	29° 944 29° 917 30° 063 29° 909 — 0° 005 0° 014	29° 944 29° 917 30° 063 29° 909 — 0° 005 0° 014	
Mean temperature of the air for each month and for the year, at -	9:30 a.m. 33° 2 38° 2 3:30 p.m. 35° 4 32° 3 — 2° 2 4° 1	48° 1 42° 6 47° 5 31° 4 5° 1 3° 3	53° 6 50° 1 51° 6 51° 7 4° 1 4° 1	64° 8 64° 0 64° 6 65° 9 4° 1 5° 5	59° 9 59° 9 64° 6 64° 4 4° 0 4° 5	59° 9 59° 9 64° 4 64° 4 4° 5 5° 1	59° 9 59° 9 64° 4 64° 4 4° 5 5° 1	59° 9 59° 9 64° 4 64° 4 4° 5 5° 1	59° 9 59° 9 64° 4 64° 4 4° 5 5° 1	59° 9 59° 9 64° 4 64° 4 4° 5 5° 1	59° 9 59° 9 64° 4 64° 4 4° 5 5° 1	59° 9 59° 9 64° 4 64° 4 4° 5 5° 1	59° 9 59° 9 64° 4 64° 4 4° 5 5° 1	59° 9 59° 9 64° 4 64° 4 4° 5 5° 1	
Range of temperature of the air -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Mean temperature of evaporation for each month and for the year, at -	9:30 a.m. 33° 0 37° 5 3:30 p.m. 31° 5 30° 9 — 1° 5 1° 5	41° 0 45° 0 43° 0 43° 0 2° 4 2° 0	49° 4 55° 1 51° 0 51° 0 1° 4 1° 4	55° 1 59° 9 57° 3 59° 6 1° 6 1° 6	55° 1 59° 9 57° 3 60° 9 1° 7 1° 7	55° 1 59° 9 57° 3 60° 9 1° 7 1° 7	55° 1 59° 9 57° 3 60° 9 1° 7 1° 7	55° 1 59° 9 57° 3 60° 9 1° 7 1° 7	55° 1 59° 9 57° 3 60° 9 1° 7 1° 7	55° 1 59° 9 57° 3 60° 9 1° 7 1° 7	55° 1 59° 9 57° 3 60° 9 1° 7 1° 7	55° 1 59° 9 57° 3 60° 9 1° 7 1° 7	55° 1 59° 9 57° 3 60° 9 1° 7 1° 7	55° 1 59° 9 57° 3 60° 9 1° 7 1° 7	55° 1 59° 9 57° 3 60° 9 1° 7 1° 7
Range of temperature of evaporation -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Mean humidity for each month and for the year, at -	9:30 a.m. 0° 919 0° 925 3:30 p.m. 0° 899 0° 892	0° 866 0° 762 0° 632 0° 654	0° 754 0° 752 0° 652 0° 659	0° 753 0° 756 0° 652 0° 669											
Mean maximum temperature of the air -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Mean minimum temperature of the air -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Appreciate mean temperature of the air -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Mean maximum temperature in the sun -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Mean minimum temperature on the grass -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Mean maximum temperature of evaporation -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Mean minimum temperature of evaporation -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Quantity of rain in [on the ground in] inches, each month -	-	7° 190	5° 485 3° 270	5° 265 4° 575	4° 770 0° 350	3° 180 1° 075	6° 145 11° 620	9° 695 Total	-	-	-	-	-	-	
Greatest quantity of rain in inches, in 24 hours, for each month -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	-	Date 0° 915 20 0° 890 11 1° 54° 17	Date 0° 890 6 1° 54° 17	Date 0° 880 4 1° 57° 26	Date 0° 870 22 0° 860 3 1° 57° 26	Date 0° 860 3 1° 57° 26	Date 0° 850 20 0° 840 15 1° 57° 26	Date 0° 840 15 1° 57° 26	Date 0° 830 11 1° 57° 26	Date 0° 820 5 2° 12° 3 1° 57° 26	Date 0° 810 1 1° 57° 26	Date 0° 800 1 1° 57° 26	Date 0° 790 1 1° 57° 26	Date 0° 780 1 1° 57° 26	

## NEW WESTMINSTER, BRITISH COLUMBIA—continued.

Wind.	Number of Days from each Point, and Number of Days on which there was Rain.												Total.		
	Direction, No.	Rain No. on													
Direction at 9:30 a.m.	N.E.	6	2	1	6	1	1	1	1	1	1	1	1		
	E.	9	7	5	11	5	11	6	8	9	7	6	4		
	S.E.	—	1	1	2	1	1	6	6	5	2	3	61		
	S.	—	—	2	1	4	2	9	1	6	4	5	22		
	S.W.	5	2	—	1	1	3	2	9	1	1	1	11		
	W.	1	1	3	2	—	2	1	4	2	1	1	11		
	N.W.	1	1	1	1	—	1	1	1	1	1	1	6		
	Calm.	11	6	15	9	9	2	1	4	6	5	1	40		
Direction at 3:30 p.m.	N.E.	6	5	—	3	—	1	—	—	1	—	—	—		
	E.	10	4	5	6	0	6	2	2	4	3	1	6		
	S.E.	—	—	—	—	4	2	2	1	3	—	1	31		
	S.	1	4	6	10	10	16	18	16	15	4	1	102		
	S.W.	2	5	3	3	4	4	6	9	9	7	3	32		
	W.	4	3	3	—	2	—	—	—	1	—	3	23		
	N.W.	—	—	—	—	1	2	4	3	3	—	1	3		
	Calm.	8	4	5	—	—	—	—	—	4	6	4	30		
Maximum height of barometer (observed)	9:30 a.m.	30° 932	9	30° 927	4	—	30° 923	11	30° 922	5	30° 920	5	30° 919	21	
	3:30 p.m.	—	—	30° 927	12	30° 926	9	—	30° 927	3	30° 926	33	—	—	
	9:30 a.m.	27° 441	5	—	—	—	—	—	27° 454	5	—	—	—	—	
	3:30 p.m.	—	—	27° 443	24	27° 445	23	27° 452	4	27° 455	16	27° 451	57	27° 454	3
	Extreme range of barometer (observed)	—	0° 931	—	1° 304	—	0° 908	—	0° 928	—	0° 918	—	0° 926	—	
	Maximum temperature of the air	—	—	—	—	—	—	—	—	—	—	—	—	—	
	Minimum temperature of the air	—	—	—	—	—	—	—	—	—	—	—	—	—	
	Extreme range of temperature —	—	—	—	—	—	—	—	—	—	—	—	—	—	
1861.	January	February	March	April	May	June	July	August	September	October	November	December	Total.		

OBSERVATIONS taken by 2nd Corporal Peter J. Leech and Lance Corporal Conroy, R.E.,  
under the direction of Captain R. M. Parsons, R.E.

## NEW WESTMINSTER, BRITISH COLUMBIA.

Latitude  $49^{\circ} 12' 47''$  N. Longitude  $122^{\circ} 53' 19''$  W. Height above the sea 54 feet.*Remarks.*

1861:

*January*.—Heavy fall of snow on the 16th. Lunar halo on 19th. Weather during the month generally fine and frosty.

*February*.—Very showery during the month. Snow on 11th and 23d. Aurora borealis on night of 25th.

*March*.—Weather during the month generally fine. Snow on 7th and 22d.

*April*.—A good deal of rain in the earlier part of the month. Weather very fine towards the middle of the month.

*May*.—Heavy rain accompanied with thunder and lightning on the night of the 26th. Weather generally fine.

*June*.—Weather fine with occasional showers. Heavy showers on 6th and 23d.

*July*.—During the whole of this month the weather has been very fine.

*August*.—During this month the weather has been fine with occasional showers, and heavy rain on 29th and 30th.

*September*.—Heavy rain on 16th. Weather generally fine.

*October*.—The weather during this month has been rather dull, with a good deal of rain, especially towards the middle and latter parts of the month.

*November*.—Heavy rain during the month, with snow and frost towards the latter part.

*December*.—A great deal of rain has fallen during this month, accompanied with frost and snow.

N.B.—The instruments in use were made by Casella, London, and were carefully compared at the Kew Observatory previously to being sent out to the above station.

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