



Ministry of  
Transportation  
and Infrastructure

ELECTRICAL AND TRAFFIC ENGINEERING MANUAL

## **Appendix 500.1**

### **Wind Pressure Tables**

(From CSA S6-19 – *Canadian Highway Bridge Design Code*)

Transportation Systems and Road Safety Engineering

December 2023



## APPENDIX 500.1 WIND LOADING TABLES

REGION	LOCATION / CITY	10 YEARS*	25 YEARS**	50 YEARS***	100 YEARS
1	ABBOTSFORD	415	530	620	710
1	AGGASIZ	570	675	755	840
1	CAMPBELL RIVER	455	560	640	720
1	CHILLIWACK	475	605	715	830
1	COMOX	445	555	645	740
1	COURTENAY	445	555	645	740
1	DUNCAN	485	565	625	690
1	HANEY	360	420	470	520
1	HOPE	405	525	625	730
1	LANGLEY	360	420	470	550
1	MISSION CITY	465	580	675	770
1	NANAIMO	470	560	635	710
1	NEW WESTMINSTER	360	420	470	520
1	NORTH VANCOUVER	360	430	480	530
1	PORT ALBERNI	470	560	630	700
1	PORT HARDY	485	565	625	660
1	PORT MCNEILL	485	565	625	680
1	POWELL RIVER	420	530	620	710
1	QUALICUM BEACH	460	560	640	720
1	RICHMOND	360	430	480	530
1	SIDNEY	460	535	595	660
1	SQUAMISH	380	480	560	650
1	TOFINO	540	615	675	740

Table data extracted from CSA S6-19 Canadian Highway Bridge Design Code

**NOTE:**

- \* USE 10 YEAR RETURN PERIOD FOR SIGNS MOUNTED ON THE SIDE OF THE ROADWAY. (I.E. BREAKAWAY, WOOD POST, ROUND AND SQUARE STEEL POSTS, ETC.)
- \*\* USE 25 YEAR RETURN PERIOD FOR SIGNAL AND LUMINAIRE POLES.
- \*\*\* USE 50 YEAR RETURN PERIOD FOR SIGNS MOUNTED OVERHEAD (I.E. SIGN BRIDGES, CANTILERVERS, H POLES, DAVIT SIGN POLES, ETC.)

No.	Revision	Date	HOURLY MEAN WIND PRESSURES (IN PASCALS) FOR THE PROVINCE OF BRITISH COLUMBIA (S6-19)	
F				
E	REGION 2 & 3 WIND PRESSURES REVISED	OCT 21		
D	FORMAT UPDATED, 100 YR. PRESS. ADDED	SEP 18	Date	Approved
C	REGION NUMBERS REVISED	NOV 03		DRAWING No.
B	REGION 1 WIND PRESSURES REVISED	NOV 00	30/09/93	E.L (Signature on File)
A	PREVIOUSLY IN CONSTRUCTION STANDARDS	SEP 96	Chief Highway Engineer	
			500.3 – 5.1	



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REGION	LOCATION / CITY	10 YEARS*	25 YEARS**	50 YEARS***	100 YEARS
1	VANCOUVER	360	430	480	530
1	VICTORIA	475	560	630	690
2	100 MILE HOUSE	300	355	390	430
2	ASHCROFT	280	340	385	430
2	CACHE CREEK	285	340	380	430
2	CASTLEGAR	225	285	335	390
2	CRANBROOK	225	280	325	370
2	FERNIE	325	410	480	550
2	GOLDEN	287	355	410	468
2	GRAND FORKS	265	345	415	480
2	GREENWOOD	285	375	445	520
2	KAMLOOPS	305	360	405	450
2	KELWONA	340	410	470	530
2	KIMBERLEY	225	280	325	370
2	LILLOOET	315	380	430	490
2	LYTTON	310	380	435	490
2	MERRITT	315	380	430	490
2	NAKUSP	235	285	330	370
2	NELSON	225	280	325	370
2	OSOYOOS	300	405	495	590
2	PENTICTON	395	505	590	680
2	PRINCETON	240	310	365	420
2	REVELSTOKE	314	385	442	502

Table data extracted from CSA S6-19 Canadian Highway Bridge Design Code

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			DRAWING No. 500.3 – 5.2	



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REGION	LOCATION / CITY	10 YEARS*	25 YEARS**	50 YEARS***	100 YEARS
2	SALMON ARM	285	340	380	430
2	TRAIL	260	315	350	390
2	VERNON	315	380	430	490
2	WILLIAMS LAKE	295	340	375	410
3	BURNS LAKE	305	355	390	430
3	CHETWYND	320	370	405	440
3	DAWSON CREEK	310	365	400	440
3	FORT NELSON	210	255	285	310
3	KITIMAT	380	440	485	520
3	MACKENZIE	245	285	315	350
3	MASSET	490	565	625	690
3	MCBRIDE	275	315	350	380
3	PRINCE GEORGE	280	335	370	410
3	PRINCE RUPERT	420	485	535	590
3	QUESNEL	250	285	310	340
3	SANDSPIT	625	747	845	947
3	SMITHERS	315	365	400	440
3	STEWART	325	380	425	480
3	TERRACE	309	372	423	477

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			Chief Highway Engineer	