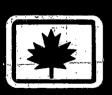
# WEATHER DATA COMPARISON BETWEEN CARIBOO COLLEGE WEATHER STATION AND KAMLOOPS WEATHER STATION (Summer of 1980)

Dean Fortin



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1980

Weather data comparison between Cariboo College weather station and Kamloops weather station (summer of 1980)

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WEATHER DATA COMPARISON BETWEEN

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(Summer of 1980)

by

DEAN FORTIN

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#### INTRODUCTION

For years, the only functioning weather data gathering centre for kamloops has been located at the airport. As there has been considerable expansion into the southwest sector of Kamloops, there has become a need to provide weather data services for this region of town, as the south-west sector is topographically very different from the flat area about the airport.

With a fully functional weather station available at Cariboo College, the ability to obtain comparitive data between the two stations is possible. However, up to this point the college weather station has been used primarily for educational purposes as money for manpower for full operations has not been available to the college.

In May of 1980 a summer student work project was started, with the purpose of providing a study involving the two weather stations, and conducting a comparison of the data obtained at each. The study ran for three months, and employed one researcher. The instruments at Cariboo College were calabrated by an Environment Canada Offical at the begining of the study to control for accuracy and the instruments were maintained by the researcher.

This study is not intended to come to any definite conclusions but rather to provide indications of trends and possible results, and possibly provide a basis for futher studies.

### DATA:

The data for this summer weather comparison was obtained from the Monthly Meteorological Summery, Fulton Field (Kamloops Weather Station), issued each month by Environment Canada, and data collected from the Cariboo College weather station for the months of May, June, and July. The data that was gathered and compared in this study includes:

- 1) mAximum Temperature at Cariboo College vs. mAximum Temperature at Kamloops Weather Station ( ATCC vs. ATKWS);
- 2) mInimum Temperature at Cariboo College vs. mInimum Temperature at Kamloops Weather Station ( ITCC vs. ITKWS);
- 3) Mean Temperature Cariboo College vs. Mean Temperature at Kamloops Weather Station (MTCC vs. MTKWS);
- Range in Temperature at Cariboo College vs. Range in Temperature at Kamloops Weather Station (RTCC vs. RTKWS);
- 5) mAximum Relative Humidity at Cariboo College vs. mAximum Relative Humidity at Kamloops Weather station (ARHCC vs. ARHKW);
- 6) mInimum Relative Humidity at Cariboo College vs. mInimum Relative Humidity at Kamloops Weather station (IRHCC vs. IRHKW);
- 7) mAximum Absolute Humidity at Cariboo College vs. mAximum Absolute Humidity at Kamloops Weather station ( AAHCC vs. AAHKW);
- 8) mInimum Absolute Humidity at Cariboo College vs. mInimum Absolute Humidity at Kamloops Weather station ( IAHCC vs. IAHKW);
- Note: All the above imformation about Cariboo College was obtained from the hydrothermograph charts, or calculated from data obtained from those charts.
- y) Total Precipitation at Cariboo College vs. Total Precipitation at Kamloops Weather Station ( TPCC vs. TPKWS);
- Note: The data for total precipitation at Cariboo College was gathered from both the tipping rain gauge and, when possible, the graduated rain gauge. When rain fell on a weekend or holiday, only the tipping bucket was used and as such, the readings would not be completely accurate, as the bucket is calabrated to tip at every .25 mm so that small amounts of rainfall would not be recorded.
- 10) Daily Wind at Cariboo College vs. Daily Wind at Kamloops Weather Station ( DWCC vs. DWKWS);

Note: The data for daily wind at Cariboo College was computed by taking

a mean of the accumulated readings each hour of the day, every day, from the anemograph. This is assumed to be a reasonable comparison as Kamloops Weather Station calculates their daily wind by taking a one minute mean of wind speed each hour.

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- 11) mAximum Wind Direction at Cariboo College vs. mAximum Wind Direction at Kamloops Weather station (AWDCC vs. AWDKW);
- 12) mAximum Wind at Cariboo College vs. mAximum Wind at Kamloops Weather Station (AWCC vs. AWKWS);

Note: The above imformation was obtained from the anemograph at Cariboo College.

13) Prevailing Wind Direction at Cariboo College vs. Prevailing Wind Direction at Kamloops Weather station ( PWDCC vs.PWDKW);

Note: To obtain the nessisary data for prevailing wind direction for the two weather stations, wind roses were constructed and from these the direction the wind blew the most ( or the highest  $\mathfrak{K}$ ) was used to indicate the prevailing wind direction.

#### TESTING:

Once the data was collected and recorded an individual computer run was conducted on each month, and then all the data was run togeather. The data was run under the Statistical Package for the Social Sciences (SPSS) computer package available from Simon Frazer University through the terminal at Cariboo College. The tests and programs run on the data included frequency distributions, tests of data normality, T-Tests for matched pairs, and correlation analysis.

The section of the run entittled FREQUENCIES provided frequency distributions; the mean, mode, and median; the skewness and kurtosis; and other statistics. The program tittled T-TEST provided a matrix of all the matched pairs and the calculated value of t: the programs PEARSON CORR, NONPARR CORR, and SCATTERGRAM, provided correlation coefficients, intercepts, slopes, and visual graphs of the relationships between the variables.

The results of the tests were recorded and each months data was graphed. For a complete breakdown of the computer print-out on the data, refer to apendex #2: for an explaination of the terms used to discribe the testing, refer to index #1.

The results shown here will be monthly means and the summer mean, although with wind direction and speed the modes will be used as they are the better indicators for the purposes of comparison. For the complete results of testing, refer to index #2.

	ATCC vs	s. ATKWS	°C		ITCC	vs.	ITKWS
May	20.56	21.07		May	10.34		9.84
June	22.70	22.73		June	11.37		11.09
July	26.91	28.03		July	13.52		12.79
Ave.	23.52	24.43		Ave.	11.81		11.30

Kamloops Weather Station consistantly exceeds Cariboo College in mean maximum temperatures. The differences in the two stations were significant each month and in the final summery.

Cariboo College consistantly recorded the highest mean minimum temperatures each month, but except for July and the summer average, the differences were not significant.

	MTCC v	s. MTKWS	°C		RTCC	vs. 'RTKWS
May	15.47	15.48		May	10.03	11.23
June	17.06	17.42		June	11.36	12.6li
July	20.23	20.51		${ t July}$	13.35	15.16
Ave.	17.69	17.91		Ave.	11.65	13.09

Kamloops Weather Station, reflecting the greater differences in maximum daily temperature, significantly, if not dramatically, exceeds Cariboo College in daily mean temperature.

Kamloops Weather Station, again reflecting the greater daily maximum temperature and the similar daily lows, continuously and significantly exceeds Cariboo College in daily mean range in temperatures.

	ARHCC vs	ARHKW	%		IRHCC	vs. IRHKW
May	87.77	76.51		May	42.81	33.55
June	91.10	80.46		June	38.06	34.46
July	85.84	77.45		July	33.51	28.16
Ave.	88.22	78.19		Ave.	37.92	<b>3</b> 2 <b>.</b> 88

Cariboo College, on average, recieves a higher daily maximum relative humidity than Kamloops Weather Station. The differences were all signifficant for all tests.

Cariboo College records a significantly higher minimum relative humidity than Kamloops Weather Station for all three months.

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	AARCC vs	4 4 4 4 4 4 4	g.m. <sup>3</sup>	•	IAHCC	vs.	IAHKW
May	8.40	7.10		May	7.44		6.53
June	9.70	8.11		June	7.66		7.13
July	10.02	8 <b>.7</b> 2		July	8.29		7.46
Ave.	9.41	8.02		Ave.	7.81		7.06

Cariboo College records a higher average maximum absolute humidity than Kamloops Weather Station. The differences for all three months are significant.

Cariboo College recieves a significantly higher minimum absolute humidity than Kamloops Weather Station.

	TPCC	vs.	TPKWS	m.m.
May	59.6		45.3	
June	52.5		69.0	
July	26.3		19.4	
Ave.	46.1		44.6	

Cariboo College recieved more rain in two of the tree months that data was gathered. Because of the amount of days that there was no rain, the T-Test of significance can not be relevent to the testing.

	DWCC v	s. DWKWS	k.m.		AWCC	vs.	AWKWS
May	16.04	12.43		May	47.85		31.22
June	12.33	9.09		June	44.80		28.40
July	12.67	8.38		July	42.79		24.77
Ave.	13.62	9.87		Ave.	45.08		27.98

Cariboo College records a significantly higher amount of daily wind each month than Kamloops Weather Station.

Cariboo College recieves stronger winds each day than Kamloops Weather Station: this statistic is significant and consistant for all three months and for the summer average.

	AWDCC v	s. AWDKW	in °		PWDCC	vs. PWDKW
May	180	290	TII	May	190.0	276.0
June	180	112		June	195.0	272.5
July	360	225		July	65.0	105.0
Ave.	180	290		Ave.	178.5	169.8

Cariboo College recieves its strongest winds more ofter from the north whereas Kamloops Weather Station recieves its strongest winds from the east.

Because of the amount of calm days the mode, the best indicator of prevailing wind direction, could not be used to analyze the data: therefore, the median was used but it does not realistically reflect the true differences in the data and the two weather stations.

### TEMPERATURE:

The temperature differences between the two stations could possibly be due to two factors; first, the differences in elevation and topography, and secondly, the differing thermal properties of the surrounding surfaces.

In regards to elevation, Cariboo College is at a higher elevation than Kamloops Weather Station (500 ft. difference): because it takes longer to heat the atmosphere at higher levels of elevation, it is reasonable to assume Cariboo College to be colder during the day. The night time effect of elevation is directly opposite that of the day. The slopes of the valley allow cold air to slip down and settle into the valley, such that it is reasonable to expect that Kamloops Weather Station would be cooler than Cariboo College during the evening and early morning.

The second consideration involves the impact of a heat island and urbanization. Kamloops Weather Station is situated at an airport - which is notorious for re-radiation of heat- and surrounded by pavement, public buildings, and cars. This urban enviorment causes higher ground temperatures for two reasons. First, foliage of plants are absent so that the full quantity of solar energy falls upon the bare ground. Absence of foliage also means absence of transpiration, which else where produces a cooling of the lower air level.

A second factor is that roofs and pavements of concrete and asphalt nold no moisture so that evaporation cooling cannot occur as it would from a moist soil. This, coupled with the fact that the Kamloops Weather Station is surrounded by a parking lot and warm-moter automobiles, would lead to the assumption that Kamloops Weather Station would record higher daily temperatures.

The urban heat island effect seems to offset the night time effect of the altitude difference in the two stations, such that there is little difference in daily minimum temperatures. But, the difference in daily maximum temperatures would account for the differences in daily mean temperatures and in daily range in temperatures.

#### HUMIDITY:

With the realization of the effect of the heat island and urbanization on Kamloops Weather Station, one can carry the effect over from thermal properties to hydrological factors of evaporation and transpiration. But it should be stated at the outset that the differences between the two stations in relative and absolute humidity could be due to the using of two differing systems of measurement of relative humidity, which would then affect the calculation of absolute humidity. Cariboo College depends upon the hydrothermograph where as Kamloops weather station uses a Dewcel dry bulb-wet bulb system. Still, studies have shown a 8% difference between rural and urban areas, which coincide somewhat with the data.

#### RAINFALL:

The comparison of precipitation between Cariboo College and Kamloops Weather Station poses a problem because of lack of data. The results of this three month study are incon clusive not only because of the amount days without rain, but also because of the relatively short length of the study: to provide any definate conclusion, a two to five year study would be manditory. A short study is inadequate, especially in the summer, because of the amount of convective activity: a long term study would balance out the infrequent localized rainfall, leaving only generalities for comparison.

It is hard to come to any definate conclusion with the data collected as it is hard to predict which way the balance would go because of differing factors and effects. A study by R.W. Longley concluded that precipitation in the valleys of Saskatchewan and Alberta is 10 to 20% below the amount falling on the level land on either side of the valley. Studies of urban heat island effects on precipitation have shown urbanized areas recieving 5 to 10% more rain than rural areas. And finally, with Cariboo College being on a north facing, exposed slope, one has to consider the orographic effect. So, with out further study, a probable conclusion can not be put forward.

#### WIND:

As expected at the begining of the study, Cariboo College recieved more daily wind than Kamloops Weather Station, and stronger gusts. The differences in the two stations data can be attributed to the topographic locations: Cariboo College is on an exposed slope and Kamloops Weather Station is on a flat river bed in the valley.

It was the direction of the peak gusts and the prevailing wind direction that were uncertain: often the smoke stack from the pulp mill, situated half way up the valley wall, would be blowing up the valley, whereas the steam off the plant in the valley would be flowing down stream.

By analyzing the wind roses constructed, a reasonable comparison of the two levels was available: and the wind roses clearly illustrate the effect of the valley on wind direction. When the hill most often recorded winds from the north or south, the valley station recorded winds from 30 to 40 degrees different- a north-west wind, or a south-east wind, etc. Only when the winds blew with the lay of the valley would the two stations record simular directions. Obviously, the walls of the valley wist and blunt the winds, causing the differences in the two stations.

It should be noted that through out this report no definate conclusions were presented, nor any data professed to be conclusive. Only a long term study could arrive at the point where such statements could be made, and in many cases, only a long term study could provide an indication of possible results in many of the variables being compared.

Another method of improving the study would be to employ an extra researcher or make an arrangement with the night security guard at the college, for the purpose of a night worker. Not only would this help to provide more accurate data, like rainfall, but it would allow one to expand the study to include other variables. For example, the hours of bright sunlight was at one time thought to be included in this study, but it was droped because of inadequate data. The data was insufficient for comparison as only 3 records could be kept for each week, or 7 days; and that is a week without holidays or long weekends: the May comparison had only 11 out of 31 valid readings.

In all though, this study may prove useful; as an example to others wishing to conduct a simular study; or as an indicator of the differences possible, in climate, in a local area. And finally, this paper may be of some use to builders or home buyers wishing to know of the differences in climate between the valley and the hill, especially as further development continues in Sahali and Aberdeen.

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MEAN: The arithmetic mean, or average, is found by adding togeather all the values under consideration and dividing the total by the number of variables. The mean is not a good indication of the average value when there is a small sample size that includes one or two wild or unusual values.

MEDIAN: The median is a term used for the central value in a series of ranked values. If there is an odd number of ranks, the value of the median is that of the central rank. If there is an even number of ranks, the median value is the mid point between the two central ranks. The median is the best indicator of the average value if there are wild variables.

MODE: The model class or value is that interval which has the greatest frequency, or occurs most often. With a large sample size, it is a good indicator of what value to expect from a certain population. When a distribution is normal or parametric, the mode, median, and mean will have the same value.

SKEWNESS: Skewness  $(\beta_1)$  is the degree of asimitry or inequality, in a distribution, and measures the degree to which the mean, mode, and median differ. If the skewness is close to 0 then the distribution is parametric.

negitive skew

normal distribution

mode

positive stero

KURTOSIS: Kurtosis  $(\beta_2)$  is the extent of peaking; if the kurtosis is around +3, then the distribution is normal or parametric.

T-TEST: The T-Test is used to determine the significance of the difference between two groups of data, in this case the data obtained from Cariboo College and Kamloops Weather Station. The test is based on the comparison of two sample means - for example maximum temperature at Cariboo College vs. maximum temperature at Kamloops Weather Station - and from this comparison one can make inferences on the difference in two populations, or Weather stations. If the tests indicate a significant difference, this then indicates a real difference in the variables indicated and thus the stations.

So, for example, the difference of means between ATCC and ATKWS is significant as T-crit = 2.82 and T-cal = -5.95. If T-cal exceeds T-crit then one rejects the null hypothsis, which states that there is no significant difference, and accepts the prime hypothsis, which states that there is a real difference, in the populations, that is not due to chance or any other extenuating curcumstance.

The critical value for the test run on the data was calculated at p = .01, or the probability that the differences in the two variables was due to chance is 100 to 1.

SCATTERCRAM: A scattergram is just a graphic representation of correlation, although it does provide the slope of the line and the intercept value at the origin.

CORRELATION: Correlation is an attempt to discribe a relationship or an association between two variables. By association one means that the fluctuations in the values for each variable were sufficiently matched to make it

#### INDEX 1 CON'T

unlikely that this was a chance association. Correlation in statistics is a method whereby a co-efficient is calculated to describe the degree of association between two sets of paired values.

Correlation may be termed perfect and positive if one variate increases in precicely the same proportion as the other. This will have a value of 1.00. If there is no relationship then the co-efficient is 0.00 and is called random. Correlation is termed perfect and negitive if one variable decreases in the same proportion as the other increases, and has a value of -1.00. or our purposes, we are looking for differences between the two stations, such that we can account for the differences th ough the locations of the stations: thus we are looking for a low correlation Co-efficient.

NONPARR CORR: The Pearsons Correlation Co-efficient is a parametric test for normally distributed data, and as such has certain restrictions that have to be met if the co-efficient is to be acuarate. If these restrictions are not met - normal distribution where skewness = 0 and kurtosis = 3 - then a non-parametric test, like the Spearmans, is better suited as it does not have to meet those restrictions.

### INDEX #2

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DATA AND GRAPHS OF

MAY, JUNE, AND JULY

( including summer summery)

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academic - career - community programs - university transfer - technical - vocational

MA-1-Joby Inclusive 1980

	ATCC	ATKWS /	ITCC	ITKWS	/ MTCC	MTKWS	/ RTCC	RTKWS	/ ARHC	C ARHKW
MEAN	23.52	24.43 7	11.81			17.91				
MODE	23.00	24.00 /	10.00			16.40				
MEDIAN	23.02	23.80 /	11.45			17.55		11.95	7 92.50	
RANGE	23.00	23.50 /	13.00	12.80	716.60	16.00		19.00	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
KURTOSIS	<b>-0.72</b>	-0.70 /	-0.08	0.43	·			-1.01	/, -0.58	
SKEWNESS	0.19	0.20 /	0.46		7 0.39			0.07	/ -0.7	
T-CRIT	2.00	5 /	2.0		, -	.00		2.00		2.00
T-CAL	-8.1	7 /	3.1			.74		2.04		2.40
P. CORR	0.9	<u>, , , , , , , , , , , , , , , , , , , </u>		32		.98	/	0.93	_ <u></u>	0.78
S. CORR	0.9	<del></del>	0.8		<i>'</i>	•95		0.92		0.74
INTERCEPT	-0.9		0.0		· · · · · · · · · · · ·	•53	<del>/,</del>	1.16	/ 2	7.19
STOPE	1.00	0 /	0.9	98	<u>/ 1</u>	.07		0.80	/	0.78

				AAHKWS /						DWKWS
MEAN				8.02 /						
MODE				7.30 /						
MEDIAN	36.50	32.75 /	9.25	7.85 /	7.70	6.97	/ 0.0l,	0.05	712.50	8.30
RANGE:	55.00	56.00 /	9.30	6.90 /	8.40	7.20	/11.30	16.70	/40.30	24.40
KURTOSTS	0.37	0.45 /	1.23	-0.07 /	0.91	-0.30	/ 4.26	12.45	/ 2.10	2.27
SKEWNESS	0.72	0.69 /		0.22 /						
T-CRIT	2.	00 /		00 /					/	00
T-CAL	9.	09 _/	10.	84 /			/ 0.		/	64
P. CORR	0.	86 /	0.	69 /	0.	57	/ 0.			78
S. CORR	0.	86 /	0.	67 /	0.	51	7 0.	73	/	65
INTERCEPT	9.	28 /	3.	35 /		43	/	46	<u> </u>	00
SLOPE	0.	87 /	0.	75 /	0.	62	/ 0.	73	/ 1.	07

	AWDCC	AWDKW /	AWCC	AWKWS	PWDCC	PWDKW		
MEAN	212.67	206.877	45.08	27.98	7 159.82	169.86		
MODE	180.00	290.00/		24.00	7 0.00	0.00		
MEDIAN	195.00	230.00/		27.61	/ 178.54		 	
RANGE	340.00	315.007	68.00	52.00	/ 360.00	320.00	 	
KURTOSIS	-0.42	-0.527	0.75	1.01	/ <b>-</b> 1.33	-1.46	 	
SKEWNESS	-0.27	-0.83/	0.32	0.66	0.17	<b>-</b> 0.26		
T-CRIT	2.	00 /	2	.00		.00		
T-CAL	0,	35 /	19	.13	′ .	.10	 	
P. CORR		78 /	0	.76	<u> </u>	.65		
S. CORR	0.	44 /	0	.72	<u> </u>	.63	 	
TNTERCEPT		51 /	18	.27	/ 32	.74	 	<del></del>
SLOPE	0.	50 /	0	•95	/ 0	.73	 	



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academic - career - community programs - university transfer - technical - vocational

### STATISTICS

DATE	ATCC	ATKWS	ATCC		ATKWS	
01						
02			mean	20.56	mean	21.07
03			mode	19.00	mode	18.60
04.			median	19.96	median	20.20
05	33.5	32.1	range	20.5	range	17.70
06	23.0	22.7	kurtosis	1.80	kurtosis	1.82
07	25.0	24.6	skewness	1.07	skewness	.97
0.8	19.0	20.2				
09	18.0	19.0				
10	23.0	24.5				
11	29.0	26.3	T-TEST F	OR MAT	CHED PAIRS	;
12	19.0	18.4				
13	20.5	19.6	t-crit =	2.05		
14	20.0	20.0	t-cal =	-2.15		
15	17.0	17.5				
16	26.0	25.8		······································		
17	22.5	22.5				
18	21.8	23.0	PEARSONS	CORRE	LATION	
19	19.0	20.3				
20	23.0	24.0	corr. co	effici	ent = 0.96	·
21	23.7	23.4				
22	18.4	18.6				
23	16.0	16.9				
24	13.0	14.4	SPEARMAN	S CORR	ELATION	
25	16.5	18.5				
26	20.0	19.4	corr. co	effici	ent = $0.91$	
27	15.5	18.6				
28	18.0	19.7		·····		
29	18.3	20.6				
30	20.0	21.5	SCATTERG	RAM		
31	16.5	17.0				
-	· · · · · · · · · · · · · · · · · · ·		intercep	t = -3	3.89 slope	= 1.16
					<del></del>	

### COMMENTS:

Kamloops Weather Station records significantly higher maximum temp. than Cariboo College. There is good correlation between the two variables.

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						. [
			, Ag			
2345	673910	1112131415	516 17 18 192	021227329	25 26 21 28 29	3031
	l'Iont	h ot	May	(Dat	(e)	
	2 3 4 5	2-3-4-5-6-7-8-910 Mont	23456789101112131415 Month of	23456789101112131415161718192 Month of May	23456789101112131415161718192021222324 Month of May (Dat	2 3 4 5 6 7 3 9 10 11 12 13 14 15 16 17 18 19 20 21 72 72 32 42 52 62 128 29  Month of May (Date)

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### STATISTICS

DATE	ITCC	ITKWS	ITCC		ITKWS	
01	1 «					
02			mean	10.34	mean	9.84
03			mode	10.00	mode	10.40
04			median	10.02	median	10.30
05	15.0	10.1	range	8.50		7.80
06	13.0	12.4	kurtosis		kurtosis	
07	9.0	6.0	skewness			
08	11.8	9.0				3 <b>.</b> 3 <u>.</u>
09	10.0	10.4				
10	8.7	8.3				
11	9.0	8.5	T-TEST FO	OR MAT	CHED PAIR	S
12	10.0	10.0				
13	11.5	11.3	t-crit =	2.05		
14	9.8	9.4	t-cal =			
15	8.5	9.1				
16	6.5	5.3		· · · · · · · · · · · · · · · · · · ·		
17	10.5	10.5				
18	10.0	7.7	PEARSONS	CORRE	LATION	
19	12.0	13.1	<del></del>			
20	11.0	11.0	corr. coe	effici	ent = $0.73$	3
21	14.0	13.0				
22	11.6	11.0	****	······	<del></del>	
23	8.6	8.6				
24	10.7	11.4	SPEARMANS	S CORR	ELATION	
25	10.0	10.4				
26	11.0	11.0	corr. coe	effici	ent = 0.73	3
27	10.0	10.7				
28	11.0	10.2				····
29	10.0	10.3				
30	9.0	10.4	SCATTERG	RAM		
31	7.0	6.7				
			Intercep	<del>t</del> = 3.1	l4 slope	= .73
						······································

#### COMMENTS:

The valley recieves lower minimum tempertures than the hill, but the difference is not significant.

Minimum Temp Caribop College Vs. Min. Temp Kamlops  10°  10°  123,45167871011121341516171819301122284286212343031  Month of May (Date)	•	Minimur	i Temp.	Cariboo	College	Vs. Mir	I. Temp.	Kamloops
10°  5°  12345678710111213141516171819302122232925[22123433031					7			2
10°  5°  12.3.4.5 6 7 8 9 (0) (1/2/3/4/15/6/17/8/19.20.1/22/2324/25/6/27/25/363/1	, C							
5° 1234567841011/2/3/4/5/6/17/8/19/02/22/24/25/6/27/25/39/303/	15°							
5° 1234567841011/2/3/4/5/6/17/8/19/02/22/24/25/6/27/25/39/303/								
	10°							
							_	
	5°		9					
	೦ೆ	1 2 3 4 5	47891	11.1012/4/15/	6.17.18.19.10	1122 2324 96	21, 27,24,243.63	



P.O. BOX \*3010 KAMLOOPS, B.C. V2C 5N3 PHONE 604-374-0123

academic - career - community programs - university transfer - technical - vocational

### STATISTICS

DATE MTCC	MTKWS	MTCC MTKWS
01		
02		mean 15.47 mean 15.48
0 3		mode 14.50 mode 14.70
04		median $15.40$ median $15.30$
05 24.3	21.1	range 12.40 range 9.20
06 18.0	17.6	kurtosis 3.63 kurtosis 1.98
07 17.0	15.3	skewness 1.36 skewness 0.79
08 15.4	14.6	
09 14.0	14.7	
10 15.9	16.4	
11 19.0	17.4	T-TEST FOR MATCHED PAIRS
12 14.5	14.2	
13 16.5	15.5	t-crit = 2.05
14 14.9	14.7	t-cal = -3.12
15 12.8	13.3	
16 16.3	15.6	
17 16.5	16.5	
18 15.9	15.4	PEARSONS CORRELATION
19 15.5	16.7	
20 17.0	17.5	corr. coefficient = 0.92
21 18.9	18.2	****
22 15.0	14.8	
23 12.3	12.8	
24 11.9	12.9	SPEARMANS CORRELATION
25 13.3	14.5	
26 15.5	15.2	corr. coefficient = 0.85
27 12.2	14.7	
28 14.5	15.0	
29 14.1	15.5	
30 14.5	16.0	SCATTERGRAM
31 12.0	11.9	
		intercept = slope =

#### COMMENTS:

The daily mean tempertures vary significantly, but on the average for the month, the mean tempertures of the two weather stations are simular.

ļ	Mean	Temp.	Cambo	o Car	lege 1	Vs. Me	an Ter	np.K.W
C								
30°								
2.5°								
20°								
<b>5</b> <sup>5</sup> °					. 4			
10°		-						
<b>5°</b>		-						
O°	1 2 3 2	A.S. ( . 7 . 6	2.9.10(1.12)	3:14:511/1	718.9W	71 22 2 3 7 4 2	s <u> 26,272829</u> 2	₹
	+ - 0	V 01	nth of	Mo		ate)		

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P.O. BOX\*3010 KAMLOOPS, B.C. V2C 5N3 PHONE 604-374-0123

academic - career - community programs - university transfer - technical - vocational

### STATISTICS

DATE	RTCC	RTKWS	RTCC RTKWS	
01				
02			mean 10.03 mean 11.2	3
03			mode 9.00 mode 8.40	)
011			median 9.06 median 10.30	)
05	13.5	22.0	range 17.70 range 0.59	5
06	10.0	10.3	kurtosis 1.20 kurtosis 0.99	
07	16.0	18.6	skewness 0.93 skewness 19.00	
8 0	, 7.2	11.2		
09	8.0	8.6		
10	14.3	16.2		
11	20.0	17.8	T-TEST FOR MATCHED PAIRS	
12	9.0	8.4		
13	9.0	8.3	t-crit = 2.05	
14	10.2	10.6	t-cal = -3.12	
15	8.5	8.4		
16	19.5	20.5		
17	12.0	12.0		
18	11.8	15.3	PEARSONS CORRELATION	
19	7.0	7.2		
20	12.0	13.0	corr. coefficient = 0.85	
21	9.7	10.4.		
22	6.8	7.6		
2.3	7.4	8.2		
24	2.3	3.0	SPEARMANS CORRELATION	
25	6.5	8.1	The state of the s	
26	9.0	8.4	corr. coefficient = 0.89	
27	5.5	7.9	oorr. coerrectent - 0.07	
28	7.0	9.5		
29	8.3	10.3		
30	11.0	11.1	SCATTERGRAM	
31	9.5	10.3	OCHITEROIVIII	
27			intercept = slope =	

#### COMMENTS:

Kamloops weather station records a greater range in temperature than Cariboo College for the month of May.

	Range in.	Temp.	Carrboo	College	Vs. Range in	Temp. KW.
	2			2	2	
C						
30						
2.5°						
20°						
5°						
10°						
50						
೧ಿ	12345	67891	DU112131415	16171819202	1 K4 6 3 2 4 K 9 K 6 2 1 K 8 K 9 3 C	3
		Non	th of	May	Date	
				7		



P.O. BOX+3010 KAMEOOPS, B.C. V2C 5N3 PHONE 604-374-0123

academic - career - community programs - university transfer - technical - vocational

### STATISTICS

DATE	ARHCC	ARH <b>KW</b>	ARHCC ARHKW
01 02			mean 87.77 mean 76.51
03			mode 97.00 mode 82.00
04			median 93.25 median 81.62
0.5	(98	82	range 41.00 range 49.00
06	97	77	kurtosis 0.10 kurtosis -0.51
07	78	70	skewness -1.09 skewness -0.71
0.8	78	66	
09	100	93	
10	100	93	
11	86	82	T-TEST FOR MATCHED PAIRS
12	97	88	the second secon
13	79	82	t-crit = 2.05
14	94	87	t-cal = 9.26
15	99	82	
16	93	81	And the second control of the Contro
17	80	62	
18	88	76	PEARSONS CORRELATION
19	59	45	
20	68	54	corr. coefficient = 0.89
21	65	55	
22	61	50	
23	90	66	
24	86	66	SPEARMANS CORRELATION
25	93	71	
26	100	94	<pre>corr. coefficient = 0.85</pre>
27	95	94	
28	94	87	
29	97	88	
30	96	87	SCATTERGRAM
31	99	88	
			intercept = slope =

COMMENTS:

Cariboo College recieves a higher maximum relative humidity than Kamloops Airport, although Kamloops Airport has the greater range.

	Max.	Rel	. Itu	mid	ity_	Car	boo	Cos	loge	VS	<u>,  </u>	1 Was	(
		R	ielat	ive	Ho	mid	ity	Kai	nla	ρ		5.	
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90%													
30%													to the confidence of the confi
•/0			_								# #		
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10%	123	4 5	6.78	91011	121314	415161	718197	20 21 22	232425	26272	29303		
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P.O. BOX 3010 KAMLOOPS, B.C. V2C 5N3 PHONE 604-374-0123

academic - career - community programs - university transfer - technical - vocational

### STATISTICS

DATE	IRHCC	IRHKW	IRHCC IRHKW
01			
02			mean 42.81 mean 33.55
03			mode 34.00 mode 26.00
04			median 40.75 median 36.00
05	22	15	range 45.00 range 41.00
9.0	35	27	kurtosis -0.60 kurtosis -0.97
07	34	24	skewness 0.44 skewness 0.15
08	39	28	
09	54	41	
10	29	29	
11	28	27	T-TEST FOR MATCHED PAIRS
12	67	52	
13	32	49	t-crit = 2.05
14	41	40	t-cal = 4.29
15	56	51	· · · ·
16	35	34	
17	41	35	
18	31	26	PEARSONS CORRELATION
19	37	26	
20	42	31	corr. coefficient = 0.79
21	34	23	0.77
2.2	33	20	
23	48	36	
24	64	44	SPEARMANS CORRELATION
25	50	37	
26	51	42	corr. coefficient = 0.78
27	64	55	0,70
28	50	56	
29	48	46	
30	37	38	SCATTERGRAM
31	54	55	o on a particular
			intercept = slope =
COMM	ENTS:		

The recorded minimum relative humidity is lower at the airport than the college.

	Min.	Re	1.1	tom	idi	ty	Car	rpor	ر_(	Coll	ege	Vs		Jlin.
		Re		1	nid	wy	Ka	mla	0,05	W	2024	<b>10</b>	Sta	tion
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academic - career - community programs - university transfer - technical - vocational

### STATISTICS

DATE	AAHCC	AAHKW	AAHCC		AAHKW	
01						
02			mean	8.40	mean	7.10
0 3			mode	7.70	mode	8.40
04		-	median	8.40	median	7.00
05	12.5	7.8	range	6.30	range	4.40
0.6	11.0	8.4	kurtosis		kurtosis	-1.30
07	6.8	5.1	skewness	0.95	skewness	-0.02
08	8.2	5.8				
09	9.1	8.9				
10	8.6	7.8				
11	7.5	7.0	T-TEST FO	OR MAT	CHED PAIR	S
12	9.1	8.3				
13	8.1	8.4	t-crit =	2.05		
14	8.7	7.9	t-cal =	6.74		
15	8.5	7.3				
16	6.9	5.6				
17	7.7	6.0				
18	8.3	6.2	PEARSONS	CORRE	LATION	
19	6.2	5.1				
20	6.8	5.4	corr. coe	effici	ent = 0.7	3
21	7.8	6.2				
22	6.3	5.0				
2 3	7.7	5.7				
24	8.4	6.8	SPEARMANS	CORR	ELATION	
<b>2</b> 5	8.7	6.8				
26	10.0	9.4	corr. coe	effici	ent = 0.8	3
27	8.9	9.2				
28	9.4	8.3				
29	9.2	8.4				
30	8.5	8.4	SCATTERGI	RAM		
31	7.7	6.7			<del></del>	
-			Intercept	E =	slope	=
COMME	INTS:		***************************************			

Cariboo College indicates a higher absolute humidity than Kamloops Weather Station.

Max.	Absolute	Humidity	Canbo	College	Us.
Max	Absolut	e Humidity	Komics		1007 5
					e to the second of the second
7234	51/7 691/	11 1213 14 15 1617 18	19 20 2 1 82 23 24	25/21/27/25/2930	
1 4 6 3 7					
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P.O. BOX @010 KAMLOOPS, B.C. V2C 5N3 PHONE @04 374-0123

academic - career - community programs - university transfer - technical - vocational

### STATISTICS

DATE	IAHCC	IAHKW	IAHCC IAHKW
01 02			mean 7 46 mean 653
0.2			, , , , , , , , , , , , , , , , , , , ,
011			5.40
0.7	8.0.	5.1	7.30
06	7 <b>.</b> 2	5.4	
07	8.0	5.4 5.4	- +
0.8	6.4	4.9	skewness 0.51 skewness -0.05
	8.3	6.7	
10	5.9	6.5	
11	8.0	6.7	T-TEST FOR MATCHED PAIRS
12	10.9	8.2	THEST TOK PATCHED PATKS
13	5.7	8.3	t-crit = 2.05
14	7.1	6.9	t-crit = 2.05 t-cal = 3.39
15	8.1	7.6	c-car - 3.39
16	8.5	8.2	
17	8.2	7.0	
18	6.3	5.3	PEARSONS CORRELATION
19	6.0	4.6	TEMOSONO CORRELATION
20	8.6	6.7	corr. coefficient = 0.49
21	7.3	4.8	corr. coerrected - 0.47
22	5.2	3.2	
23	6.5	5.2	
24	7.3	5.4	SPEARMANS CORRELATION
25	7.0	5.8	
26	8.8	7.0	corr. coefficient = 0.47
27	8.5	8.8	
28	7.7	9.5	
29	7.5	8.2	
30	6.4	7.2	SCATTERGRAM
31	7.6	7.9	
<del></del>			intercept = slope =

#### COMMENTS:

The valley is lower in absolute humidity than the minimum absolute humidity recorded at Cariboo College.

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### cariboo college

academic - career - community programs - university transfer - technical - vocational

### STATISTICS

	DATE	TPCC	TPKWS	in M.M.	TPCC TPKWS
	01				
	02				mean 2.20 mean 1.63
	03				mode 0.00 mode 0.00
	04				median $0.52$ median $0.30$
	05	0.5	1.6		range 11.20 range 8.80
	06	1.0	3.0		kurtosis 2.38 kurtosis 2.38
	07	7.3	0.0		skewness 1.73 skewness 1.59
	0.8	3.3.	0.0		
	09	5.3	4.8		
	10	0.0	0.0		
	11	1.5	2.3		T-TEST FOR MATCHED PAIRS
	12	4.8	4.9		
	13	0.0	0.2		t-crit = 2.05
	14	1.8	0.8		t-cal = 1.16
	15	1.5	1.2		
	16	0.0	0.0		
	17	0.0	0.0		
	18	0.0	0.0		PEARSONS CORRELATION
	19	0.0	0.0		
	20	0.0	0.0		corr. coefficient = 0.62
	21	0.0	0.0		*** <b>-</b>
	22	0.0	0.0		
	23	0.0	0.0		
	24	0.0	0.0		SPEARMANS CORRELATION
	25	0.0	0.3	•	
	26	11.2	8.8		corr. coefficient = 0.68
	27	11.0	3.2		
	28	4.7	2.9		
	29	1.2	5.7		
	30	0.5	3.5		SCATTERGRAM
	31	4.0	1.0		
					Intercept = slope =
TOTAL RAIS	7	59.6	45.3		
	COMME	ENTS:			

The precipitation records indicate that Cariboo College recieves more rain in May than Kamloops Airport.

•	Total	Precis	ortation (	Carrboo	Collège Us
	Total	Precip	. Kam 100	ps Weath	wr Station
: 					
12.0					
(). ()					
8.0					
6					
4.0					
7.0					
<b>7</b> ^					
2.0					
4					
	12345	67841011	1213141516171819	120212223242521	2728293031
11).					
		Month	of May	1 (Dute	<u>)</u>
				7	

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### Carloo College P.O. BOX 6010 KAMLOOPS, B.C. V2C 5N3

academic - career - community programs - university transfer - technical - vocational

### STATISTICS

DATE	DWCC	DWKWS	in KM/H	DWCC		DWKWS	
01					• ( 0 (		10 (0
02				mean	16.04	mean	12.43
03				mode	4.40	mode	3.70
04				median	13.60	median	10.30
05	12.9	14.4		range	37.90	range	23.30
0.6	29.3	12.3		kurtosis		kurtosis	-0.36
07	14.9	6.7		skewness	0.76	skewness	0.77
08	13.6	10.0					
09	15.9	15.0					
10	4.4	5.7					
11	7.9	4.3		T-TEST F	OR MAT	CHED PAIRS	
12	4.7	3.7					
13	15.6	5.0		t-crit =			
14	10.6	9.9		t-cal =	3.44		
15	8.1	13.9					
16	7.8	10.3					
17	18.9	13.8					
18	13.1	10.2		PEARSONS	CORRE	LATION	
19	42.3	26.5					
20	23.8	17.2		corr. co	effici	ent = 0.85	
21	22.6	15.3					
22	26.4	14.7					
2 3	23.0	19.6					
24	28.2	24.5		SPEARMAN	S CORR	RELATION	
25	30.0	25.7				0.01	
26	29.3	27.0		corr. co	effici	.ent = 0.81	
27	7.3						
28	5.7	7.4					
29	4.4	5.5					
30	6.3			SCATTERG	RAM		
31	6.1	6.1					
				Intercep	ť=	slope	Ξ
СОММЕ	INT'S:						
		<del></del>					

On average, the college experiences more wind than the airport.



P.O. BÓX 3010 KAMLOOPS, B.C. V2C 5N3 PHONE 604 374 0123

academic - career - community programs - university transfer - technical - vocational

### STATISTICS

DATE TPCC	TPKWS	TPCC	TPKWS
01 0.0	0.0	- 01	
02 0.0	0.0	mean 0.84	
03 0.0	0.0	mode 0.00	
04 0.3	1.2	median 0.05	1 0
05 0.6	0.0	range 9.30	
0.0	0.0	kurtosis 10.67	
07 0.0	0.0	skewness 3.33	skewness 2.32
0.0	0.0	<del></del>	
09 -0.0	0.0		
10 0.0	1.4		
11 0.0	7.7	T-TEST FOR MA	TCHED PAIRS
12 0.0	0.3 1. 8		
13 2.3	4.8	t-crit = 2.0	
14 9.3 15 0.6	0.9 0.0	t-cal = 0.6	0
	2.4		
	0.0		
	0.0	***	
,1 (/	0.0	PEARSONS CORE	ELATION
<b>1</b>	0.0		
', ',	0.0	corr. coeffic	eient = 0.41
· · · /	0.6		
	0.0		
	0.0	O. F	
24	0.0	SPEARMANS COF	RELATION
4.0 B L	3.2		
20 00	0.0	corr. coeffic	ient = 0.57
21	0.0		
28 -06	0.2		
29	0.0		
30 - 0.0	0.0	SCATTERGRAM	
31 / 0.0		<b>.</b>	
TOTAL RAIN IN MM 26.3	19.4	intercept =	0.40 slope = 0.70
COMMUNITS		•	

COMMENTS:

For July, Cariboo College recorded a greater amount of rain than Kamloops Weather station.

•	Total	Precipitation	Cariboo College	<i>U</i> 5
	Total	Pre cipitation	Cariboo College Kamloops Weath	er ST.
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- August			1 1 1 100	TC \
	· · · · · · · · · · · · · · · · · · ·	1 /lont	h of July (DA	112)

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P.O. BOX 1010 KAMLOUPS, B.C. V2C 5N3 PHONE 604 374 0123

academic - career - community programs - university transfer - technical - vocational

### STATISTICS

DATE	TPCC	TPKWS	TPCC TPKW	S
01	2.8	3.4	Control of the contro	
02	1.0	0.6	mean 1.75 mea	
0.3	6.2	4.6	mode 0.00 mod	
0.14	11.3	16.7		ian 0.55
0.5	5 <b>.3</b>	7.1	range 11.30 ran	gg 16.70
06	5.8	7.9	kurtosis 4.93 kur	tosis 8.28
07	0.0	0.5	skewness 2.06 ske	wness 2.57
0.8	2.5	1.2		
09	0.4	0.0		
10	0.0	0.0		
11	0.0	0.0	T-TEST FOR MATCHED	PAIRS
12	0.0	0.0		
13	0.0	0.0	t-crit = 2.04	
14	0.0	0.4	t-cal = -2.23	
15	0.0	0.0	-2.27	
16	0.0	1.0		
17	1.8	3.0		
18	0.0	0.0	PEARSONS CORRELATI	ON
19	0.0	0.0	The second of th	
2.0	0.0	0.4	corr. coefficient	<u>-</u> 0.95
2.1	0.0	0.0		
22	0.0	2.8		
23	0.8	0.4		
2.4	0.0	0.0	SPEARMANS CORRELAT	ION
25	1.6	2.2		
26	2.3	1.8	corr. coefficient	= 0.83
27	3.0	5.2		
28	0.5	0.0		
29	2.4	3.6		
.30	4.8	6.2	SCATTERGRAM	
31				
	٠	/0.0	intercept = 0.14	slope = 0.69
	52.5	69.0		

FOUAL RAIN

COMMENTS:

The precipitation records indicate that Kamloops airport recieved more rain during June than Cariboo College, whereas in May of 1980 the results were directly opposite.

	0	3	ь	9	15 12	-	18	
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PO. BOX 3010 KAMLOOPS, B C. V2C 5N3 PHONE 404 374 0123

academic - career - community programs - university transfer - technical - vocational

### STATISTICS

DATE	DWCC	DWKWS	DWCC DWKWS
01 02	21.3 13.6	18.3 12.8	mean 12.33 mean 9.09
03	N.A.		mode 12.60 mode 5.50
04	14.4	8.3	median 11.60 median 8.30
05	4.9	6.9	range 20.30 range 15.70 kurtosis-0.39 kurtosis 0.09
06	6.0	6.1	skewness 0.26 skewness 0.60
07	5.1	8.3	skewness 0.20 srewness 0.00
08 09	12.6 11.8	15.6 11.8	
10	22.3	12.5	
11	10.2	5.5	T-TEST FOR MATCHED PAIRS
12	11.2	6.4	
13	12.6	12.4	t-crit = 2.05
14	11.0	7.3	t-cal = 4.22
15	13.8	7.1	
16	16.3	11.5	
	17.8	7.1	
	9.1	4.5	PEARSONS CORRELATION
19	9.4	4.3	0.63
20	9.7	9.1	corr. coefficient = 0.63
71	8.9	9.3 8.5	
22	18.9 11.6	8.2	
23	9.3		SPEARMANS CORRELATION
24 25	14.9	9.8	DI LIMITATO CONNELLATION
26	21.6	14.8	corr. coefficient = 0.63
27	10.8	7.5	
28	19.8	12.6	
29	6.9	11.5	
30	2.0	2.6	SCATTERGRAM
31			2.20
			intercept = 3.98 slope = 0.91

COMMENTS:

On average, the College recieves more wind daily than the valley.

•	Do	ill	4_	h	YW	2	١,	4	t	(	ر کپ	W	it	<u>0</u>	<u>C</u>		0	U	<b>8</b> 51	e'	Ų.	<u>5.</u>	I	)CI	<u>.</u>	4_	<u>Ų</u>	٦
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PO, BOX 3010 KAMLOOPS, BC - V2C **5N3** PHONE -604-374-0123

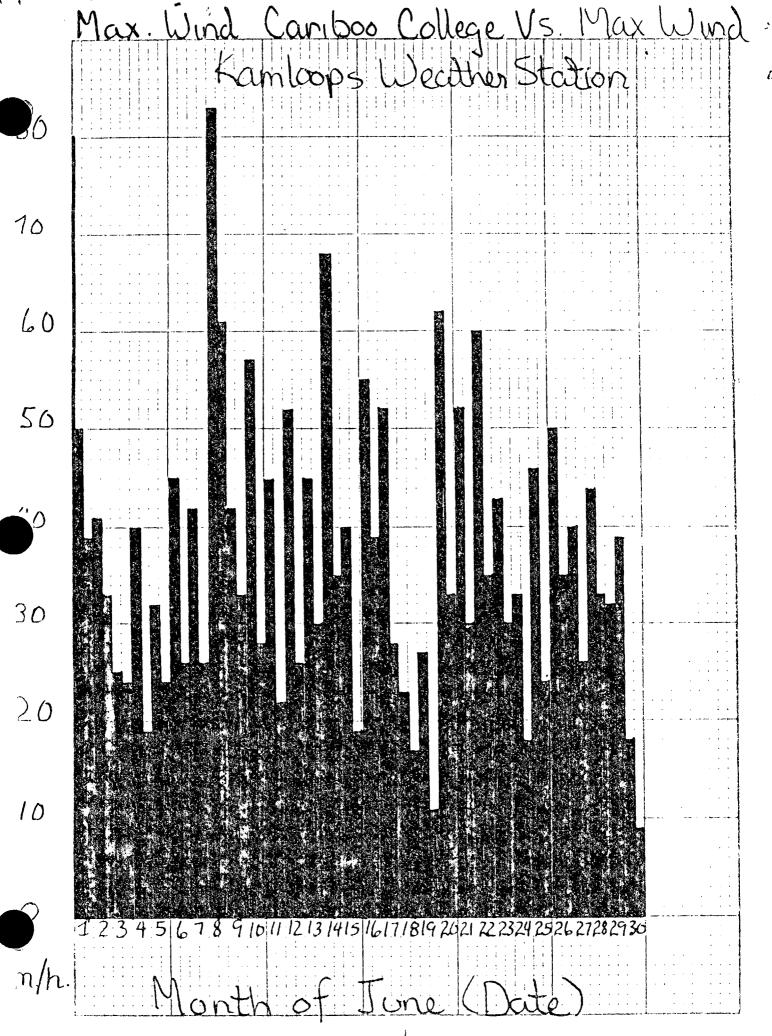
academic - career - community programs - university transfer - technical - vocational

#### STATISTICS

DATE AWCC	awkws_		AWCC		AWKWS	
01 50 02 41 03 25 04 10 05 32 06 45 07 42 08 83	33 2li 19 2li 26 26 61 33	,	mean mode median range kurtosis skewness	~ 1 ~	mean mode median range kurtosis skewness	- 01
09 42 10 57 11 45 12 52	28 22 26		T-TEST F	OR MAT	CHED PAIR	S
13 45 14 68 15 40	30 35 19 39		t-crit = t-cal =	2.04 10.25		
16 55 17 52 18 23	28 17 11		PEARSONS	CORRE	NOITAL	
19 27 20 62 21 52 22 60	35 35		corr. co	effici	ent = 0.7	7
2 3 li3 2 4 33	21.		SPEARMAN	S CORR	ELATION	
26 27 40	35 26		corr. co	effici	ent = 0.6	55 
28 44 29 32 30 18	39		SCATTERG	GRAM		
31			Intercep	5t = 11	43 slop€	= 1.06
				<del></del>	**************************************	

#### COMMENTS:

Cariboo College consistantly recieves stronger daily winds than Kamloops Weather Station.





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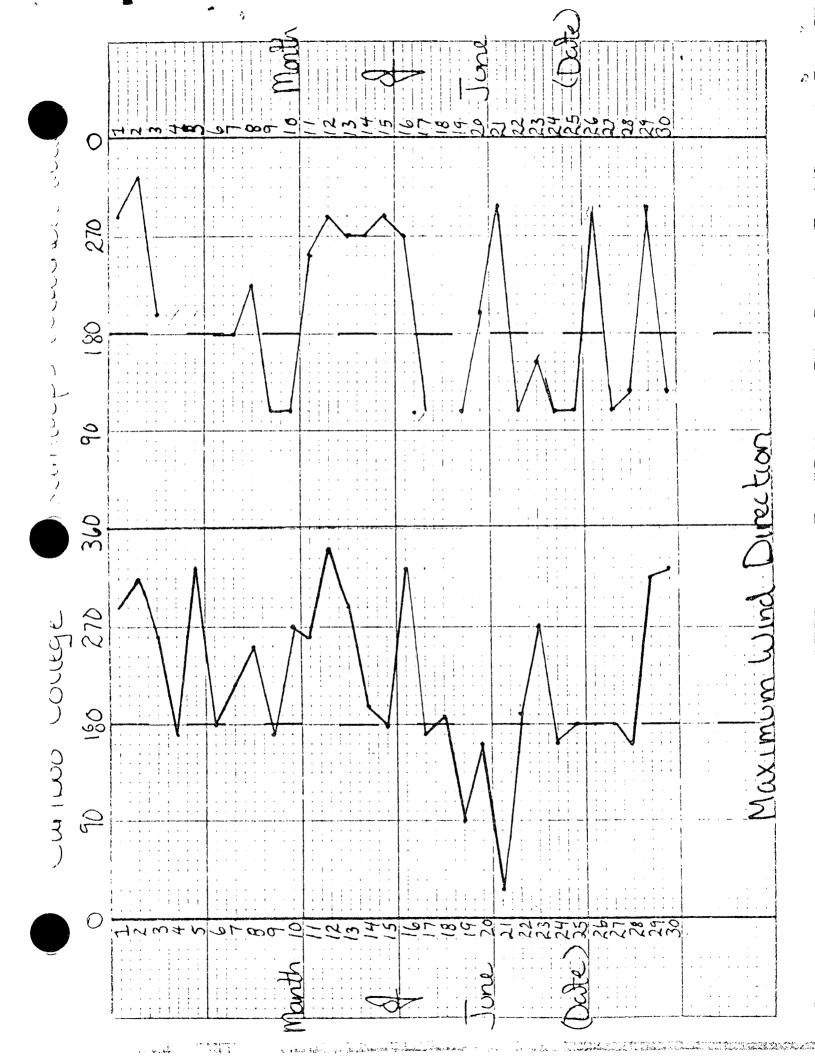
academic - career - community programs - university transfer - technical - vocational

### STATISTICS

DATE	AWDCC	AWDKW	AWDCC AWDKW
01	290	293	
02	310	315	mean 221.00 mean 201.81
0.3	260	203	mode 180.00 mode 112.00
014	170	N/A :	median 195.00 median 202.50
05	320	N/A	range 310.00 range 203.00
0.6	180	180	kurtosis -0.15 kurtosis -1.74
07	220	180	skewness -0.27 skewness 0.06
08	250	225	
09	170	112	
10	270	112	
11	260	248	T-TEST FOR MATCHED PAIRS
12	340	293	/
13	290	270	t-crit = 2.06
14	200	270	t-cal = 1.08
15	180	293	
16	320	270	
17	170	112	
18	190	N/A	PEARSONS CORRELATION
19	90	112	
2.0	160	203	corr. coefficient = 0.33
21	30	295	
2 ?	190	112	
23	270	155	
24	150	112	SPEARMANS CORRELATION
25	180	112	
26	180	295	corr. coefficient = 0.40
27	180	112	
28	160	135	
29	320	295	
30	330	1 35	SCATTERGRAM
31			
		****	intercept = 153.51 slope = 0.33
			<b>,</b>

#### COMMENTS:

For the month of June, Cariboo College recieved it's strongest winds from the north whereas Kamloops Airport experienced its strongest winds more often from the west.





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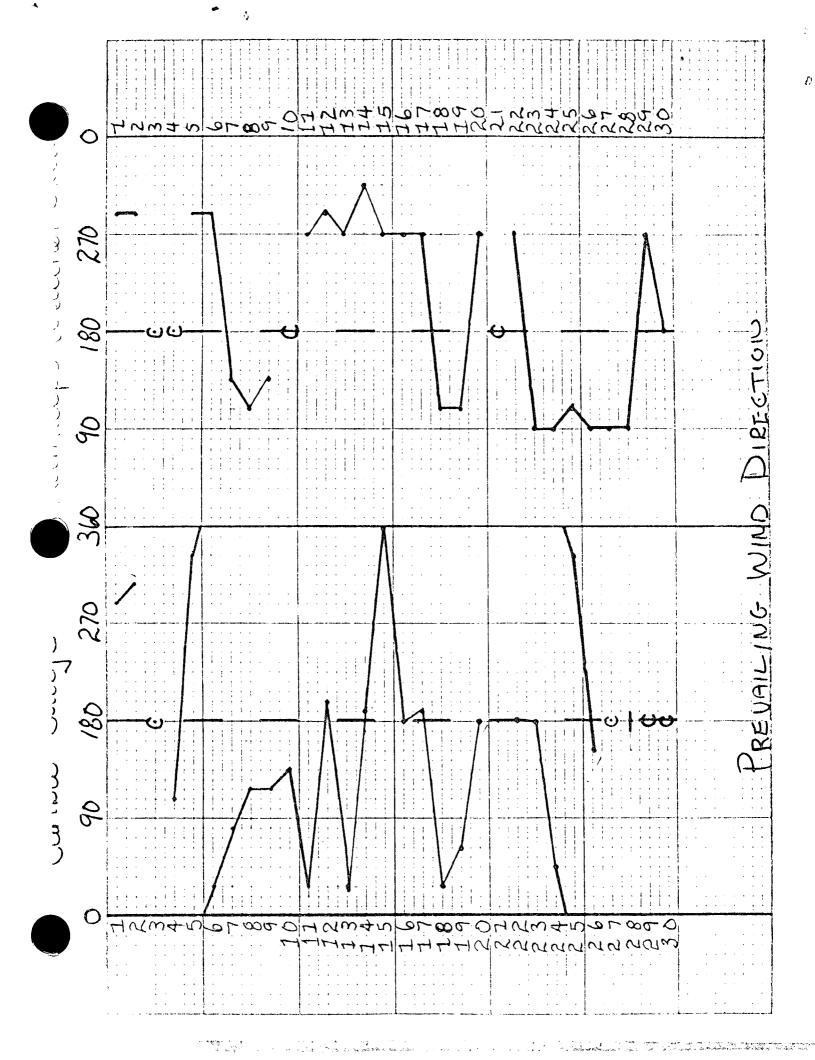
academic - career - community programs - university transfer - technical - vocational

### STATISTICS

DATE	PWDCC	PWDKW	PWDCC		PWDKW	
01	290	295				
0.2	320	295	mean ,		mean	176.60
0.3	0	0	mode		mode	270.00
011	110	0	median 1		median	145.00
0.5	325	295	range	360.00	range	315.00
0.6	30	295	kurtosis	-0.71	kurtosis	
07	80	1 35	skewness	0.50	skewness	-0.26
8 0	120	112				
09	120	135		,		
10	140	0				
11	30	270	T-TEST T	OR MAT	CHED PAIRS	S
12	200	295				
13	30	270	t-crit =			
14	190	315	t-cal =	-1.88		
15	360	270				
16	180	270				
17	190	2 <b>7</b> 0				
18	<b>3</b> 0	112	PEARSONS	CORRE	LATION	
19	60	112				
20	180	270	corr. co	effici	ent = $0.3$	39
21	0	0				
22	180	270				
2.3	180	90				
24	145	90	SPEARHAI	S CORR	ELATION	
25	330	112				
26	150	90	corr. co	effici	ent = 0.41	ļ
27	0	90				
2.8	180	90				
29	0	270				
30	0	180	SCATTERO	RAM		
31			Printed the control of the control o			
			intercel	st = 64	.54 slope	= 0.39

#### COMMENTS:

The mean direction of Cariboo College's prevailing wind direction is perhaps the best indicator of wind direction for this station, whereas the median for Kamloops weather station is the best indicator for wind direction at the airport. If this is the case, a north-west wind was dominate at Cariboo College and an easterly wind was prevailent at Kamloops Weather Station.





academic - career - community programs - university transfer - technical - vocational

#### STATISTICS

DATE	ATCC	ATKWS		ATCC		ATKWS	
01	27.8	29.3					_
02	29.3	29.0 23.8		mean	26.91	mean	28.03
0.3	23.2	•		mode	31.30	mode	22.80
04	16.7	18.4		median	28.00		29.20
05	18.6	20.6		range	19.30		18.90
9.0	22.5	24.0				kurtosis	-0.69
07	31.0	31.8		skewness	-0.33	skewness	-0.23
0.8	31.3	32.3 32.2					
09	32.0	26.3					
10	25.8	20.5					
11	21.4 21.8	24.0		T-TEST FO	R MAT	CHED PAIRS	5
12	26.3	28.0					
13	-	23.8		t-crit =			
14	23.5 21.8	23.3		t-cal =	-6.57		
15	23.8	25.8					
16		25.5					
17	23.3	22.8					
18	18.7	26.5		PEARSONS	CORRE	LATION	
19	24.9					0	
20	28.0	30.7		corr. coe	effici	ent = 0.98	
21	33.5	34.0					
2.2	36.0	37.3					
2.3	30.0	30.6		<b></b>			
24	28.6	30.5		SPEARMANS	CORR	ELATION	
2.5	30.7	32.0					
26	31.4	32.4		corr. coe	effici	ent = 0.96	
27	31.3	31.0			····		
28	31.4	29.2					
29	28.7	30.1					
30	29.6	31.6		SCATTERGI	MAS		
31	31.3	28.1				T	
			T.	intercept	= -2.	75 slope	= 1.05
						•	
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#### COMMENTS:

For the month of July, the mean maximum temperature at K.W.S. significantly exceeds the mean maximum temperature at Cariboo College: this is consistant with the results of the past two months.

	Max.	Temp. C	ariboc	Collec	je Us.	Max	Temp
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KAMLOOPS, B.C. V2C 5N3

academic - career - community programs - university transfer - technical - vocational

### STATISTICS

DATE	ITCC	ITKWS	ITCC	ITKWS
01.	9.0	8.9		
02	14.0	11.9		13.52 mean 12.79
0.3	13.8	12.4		14.00 mode 12.30
04	11.0	11.1		13.60 median 12.42
05	8.7	8.3	( ) ·	10.80 range 9.80
30	10.6	11.0	kurtosis	
07	9.8	10.9	skewness	0.20 skewness $0.23$
0.8	16.0	12.4		
0.9	15.4	12.3	-	
10	14.0	14.0		
11	11.9	12.7	T-TEST FO	R MATCHED PAIRS
12	13.3	13.7		
13	12.0	11.2	t-crit =	2.014
14	13.2	14.8	t-cal =	2.31
15	14.0	12.3		-
16	12.5	11.5	<del></del>	
17	13.4	13.9		
18	11.2	13.4	PEARSONS	CORRELATION
19	10.0	11.5		307774
2.0	13.1	12.3	corr. coe	fficient = 0.74
21	16.5	15.9		
2.2	18.7	18.1		
2.3	19.5	15.3		
2.4	13.6	12.7	SPEARMANS	CORRELATION
25	11.4	13.6		CONNELNTION
26	16.2	15.1	corr coe	fficient = 0.67
27	14.8	14.8	00111 000	ricient i stat
28	15.7	14.0		
29	17.2	15.2		
30	14.0	12.0	SCATTERGR	ΔМ
31	14.8	11.6	SOUTTINGE	ATI
		,	interceri	= 0.76 slope = 0.99
			· · · · · · · · · · · · · · · · · · ·	0.10 0.00 - 0.77
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#### COMMENTS:

In the past monthly comparisons the valley consistantly recieved lower mean minimum temperatures than the hill, but not significantly; this is the same for July, only the difference is now significant.

	Minimi			t la a la colonia	Kamloo	1 1 1 1 1 1 1 1 1	eather	St.
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P.O. BQX 3010 KAMLOOPS, B.C. V2C 6N0 PHONE 604-374-0123

academic - career - community programs - university transfer - technical - vocational

### STATISTICS

DATE	MTCC	MTKWS	_	MTCC		MTKWS	
01 02 03 04 05 06 07 08	18.4 21.6 18.5 13.8 13.6 16.5 20.4 23.6	19.1 20.5 18.1 14.8 14.5 17.5 21.4 22.4		mean mode median range kurtosis skewness	20.23 18.40 20.40 13.70 -0.59	mean mode median range kurtosis skewness	20.51 18.10 20.50 13.20 0.53 0.09
09 10 11 12	23.7 19.9. 16.6 17.5	17.6 18.9		T-TEST FO	OR MAT	CHED PAIRS	
13 14 15 16	19.1 18.4 17.9 18.1	19.6 19.3 17.8 18.7		t-crit = t-cal =	2.04 -1.39		
17 18 19	18.4 14.9 17.5	19.7 18.1 19.0		PEARSONS	CORRE	LATION	
20 21 22	21.5 25.0 27.3	21.5 25.0 27.7		corr. coe	effici	ent = 0.95	
23 24	24.7 21.1 21.1	23.0 21.6 22.8		SPEARMANS	S CORR	ELATION	
25 26 27	23.8 23.1 23.5	23.8 23.6 22.5		corr. coc	effici	ent = 0.94	
28 29 30 31	23.0 21.8 23.1	22.2 21.1 21.6		SCATTERGI	RAM		
21			-	intercept	: = -3.	47 slope	= 1.15

#### COMMENTS:

As in past months, the daily means vary significantly, although the monthly averages are close. Kamloops Airport consistantly has the greater mean temperatures.

•	Mean	Temp.	Caril	200 C	ollege	Us M	Tean
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### STATISTICS

DATE	RTCC	RTKWS	RTCC		RTKWS
01	18.8	20.4	<b>30 3</b> 6	יי אר	mean 15.16
02	15.3	17.1	mean	13.35	
03 04	9.4	11.4	mode	14.90 14.87	mode 7.30 median 17.00
05	5.7 9.1	7.3	median	15.50	
0.5	11.9	12.3 13.0	range kurtosis		
07	21.2	20.9	skewness		
0.8	15.3	19.9	Skewness.	-0.00	skewness -0.51
09	16.6	19.9			
10	11.8	12.3			
11	9.5	9.8	יי ייד פיוי דר	יים את מו	CHED PAIRS
12	8.5	10.3	1-11.51 10	N IIMI	CHED PAIRS
13	14.3	16.8	t-crit =	2.04	
14	10.3	9.0	t-cal =		
15	7.8	11.0	CCCL	-7.75	
16	11.3	14.3		·	
17	9.9	11.6			
18	7.5	9.4	PEARSONS	CORRE	LATTON
19	14.9	15.0		OOMA	
2.0	14.9	18.4	corr. cod	effici	ent = 0.91
21	17.0	18.1			
2.2	17.3	19.2		<del></del>	
2.3	10.5	15.3			
24	15.0	17.8	SPEARMANS	CORR	ELATION
25	19.3	18.4			
26	15.2	17.3	corr. coe	effici	ent = 0.90
27	16.5	17.6			
28	15.7	17.0		······································	
29	11.5	17.2			
30	15.6	18.5	SCATTERGI	MAS	
31	16.5	18.7			The state of the s
•		,	intercept	= 0.	.33 slope = $0.85$
			<u>.</u>		•
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#### COMMENTS:

Kamloops Weather Station records a greater range in temperature than Cariboo College for the third consecutive month in a row.

	Range	e in	Tem	$\rho$ . (	-cerit	) oc	olle	ae U	15
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P.O. BOX 3010 KAMLOOPS, B.C. V2C 5ND PHONE 604-374-0123

academic - career - community programs - university transfer - technical - vocational

### STATISTICS

DATE	ARHCC	ARHKW	ARHCC		ARHKW	
DATE 01 02 03 04 05 06 07 08 09 10 11 12 13	90 65 83 95 99 74 92 71 69 95 100 84 92	87 72 67 82 82 76 77 67 72 82 94 82 88 94	mean mode median range kurtosis skewness  T-TEST FO	35.00 -1.l <sub>4</sub> 8 -0.20 OR MATO 2.04	mean mode	-0.03
14 15 16 17 18 19 20 21 22 23 24	96 96 99 96 100 77 80 77 67	94 88 94 82 88 82 64 68 63	PEARSONS  corr. coe	CORREI	ent = 0.61	
25 26 27 28 29 30	100 74 88 75 75 74	67 68 77 72 56 63		efficie	ent = 0.56	
31 COMME	78	71	intércept	= 32.	80 slope	= 0.68

#### COMMENTS:

Cariboo College consistantly records a higher maximum relative humidity, but Kamloops Weather Station consistantly has the greater range.

	Maxim	าบัท	Re	1. t	lu	nid	ity	at	<u> </u>	ari	boo	Col	lege
	V.s	Max	Re	lati	ve	H	ر الاال	dit	ya	Ł	Kan	hloo	ps
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50%	12375	6.78	9 (0)	(12)3(	415	16171	8 1920	21 22 2	32425	126.27	232430	31	
		Mo	intr	1		Ju	ly		<u>)</u> c	te			

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### STATISTICS

DATE	IRHCC	IRHKW	IRHCC		IRHKW	
01	16	23		<del></del>		
02	24	22			mean	28.16
0.3	40	29	mode 25.		mode	20.00
04	56	49		• 33	median	23.33
05	43	35		.00	range	34.00
30	36	33	kurtosis 0.		kurtosi	<sub>s</sub> -0.78
07	21	15	skewness 0.	.74	skewnes.	s 0.54
0.8	22	17				
09	22	19				
10	45	32				
11	38	41	T-TEST FOR	MATC	HED PAI	RS
12	1+5	41				
13	32	32	t-crit = 2.	.04		
14	46	44	t-cal = 5.			
15	42	38				
16	36	32				
17	37	34				
18	60	44	PEARSONS CO	ORRET.	ΑΊΓΤΩΝ	
19	35	34				
2.0	33	31	corr. coeff	ficie	nt = 0.	86
21	29	23				
2.2	27	22				
2 3	35	22				
24	32	20	SPEARMANS C	ORRE	ΙΔΤΤΟΝ	
25	24	22			Billion	
26	25	20	corr. coeff	ficia	nt = 0.	83
27	25	23	20011	1.01.6		• )
28	28	<b>1</b> 9				
29	31	20				
30	32	20	SCATTERGRAM	Л		
31	25	17	SCAT TIMOWI	· I		
			inlamant -	. 7 2	1 - 1 -	0.00
			intercept =	- 1.3	stope	e = U.73
COMME	NTS					

#### COMMENTS:

The minimum relative humidity is significantly and consistantly lower at the airport than the college.

Min. Relative Humidity KAMNOOPS W.  Min. Relative Numidity KAMNOOPS W.  55  45  25  16  18  24  25  25  26  27  28  28  28  28  28  28  28  28  28			Iin.		R	el	at	iu	e		H	u	M	116	di	H	<b>,</b>	1	بر مرا	V	ib	00	0	C	ol	le	T
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academic - career - community programs - university transfer - technical - vocational

### STATISTICS

DATE	AAHCC	AAHKW	AAHCC	A A HKW
01 02 03 04 05 06 07 08	7.9 7.8 9.9 9.5 8.5 7.2 8.5 9.7	7.6 7.6 7.3 8.3 6.9 7.6 7.7 7.3	mean mode median range kurtosis skewness	
10 11 12 13 14	11.5 10.6 9.7 9.8 11.5 11.6	9.9 10.5 9.7 8.9 11.9	T-TEST FOR t-crit = t-cal =	
16 17 18 19 20 21	11.5 9.7 9.4	9.1 11.3 9.8 9.1 8.9 11.1 9.8		CORRELATION  fficient = 0.57
26 27	11.3 11.8 -10.3 10.2 -11.1	9.0 8.9 7.0 7.9 8.8 9.7 8.7		CORRELATION  fficient = 0.53
28 29 30 31	11.0 8.9 9.9	7.3 6.7 7.4	SCATTERGRA	AM = 5.39 slope = 0.53
COMME	INTS:			

Cariboo College consistantly records a significantly greater air moisture capacity than Kamloops Weather Station.

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# CATIOOO GOILEGE P.O. BQX 3010 KAMLOOPS, B.C. V2C 6N3 PHONE 604-374-0123

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#### STATISTICS

DATE	IAHCC	IAHKW	IAHCC	······································	IAHKW	
01 02 03 04 05 06 07	4.3 7.0 8.3 7.9 6.8 7.2 6.7	6.7 6.3 6.2 7.7 8.5 7.2 5.0 5.8		1.13	mean mode median range kurtosis skewness	s <b>-</b> 0.93
09 10 11 12 13 14	7.4 10.8 7.1 8.1 7.9 9.7 8.1	6.5. 7.9 8.2 8.9 8.7 9.5 7.9	T-TEST FO	2.04	CHED PAII	RS
16 17 18 19 20	7.8 7.7 9.6 8.0 9.0	7.7 8.1 8.9 8.5 9.8	PEARSONS		LATION ent = 0.3	34
21 22 23 24 25	10.6 11.3 10.6 8.7 7.5 8.2	8.6 9.8 6.9 6.2 7.4 6.9	SPEARMAN			
26 27 28 29 30 31	8.1 9.2 8.8 9.5 8.1	7.9 6.1 5.8 6.1 5.6	SCATTERG		ent = 0.2	
			intercep	t = 5.	50 slope	= = 0.37

#### COMMENTS:

For the third month in a row, the valley is significantly lower in mimimum absolute humidity than the hill.

		The control of the co
		678910111213141516171814202122324252627282432 MONTH OF JULY (D



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### STATISTICS

DATE	DWCC	DWKWS	D <b>M</b> CC	DWKWS
01 02 03 04 05 06 07	9.3 14.3 24.2 11.7 22.3 N/A N/A	5.6 8.8 12.0 15.1 12.8 6.2 14.3 6.6		e 7.60 mode 8.80 ian 11.70 median 7.50
09 10 11 12 13 14 15 16	7.6 16.4 11.5 7.6 14.2 7.9 12.6 12.5 8.8	5.4 8.0 7.5 4.9 5.7 8.7 7.8	t-cı	EST FOR MATCHED PAIRS  Pit = 2.05 al = 5.93
1 7 1 8 1 9	5.7 9.4	10.3	PEA	RSONS CORRELATION
20 21 22	10.0 6.6 21.2	3.9 4.2 19.7	cor	r. coefficient = 0.58
23 24	16.3 8.5 11.3	11.3 7.1 6.7	SPE	ARMANS CORRELATION
25 26 27	13.0 15.0 14.9	8.8 6.0 5.5	cor	r. coefficient = 0.49
28 29 30	20.3 9.6 8.5	10.1 7.4 6.8	SCA	TTERGRAM
31	····		- int	ercept = 5.76 slope = 0.83

#### COMMENTS:

The college has consistantly recorded a significantly greater amount of wind daily, than the airport.

	HILY		U CV-	11/10/0	College	V VHL	Y WINL	) W. S
30								
20								
15								
10								
5								
0	1234	1567	77,7001	112131415	1617181920	21 22 23 24 25		31
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				Month	of Ju	ly ac	(de)	

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### STATISTICS |

DATE	AWCC	AWKWS	AWCC AWKWS
01 02 03 04 05 06 07	28 55 45 60 54 NA NA	13 22 37 39 35 22 24 28	mean 42.79 mean 24.77 mode 37.00 mode 22.00 median 43.00 median 23.62 range 42.00 range 38.00 kurtosis -0.67 kurtosis -0.02 skewness 0.30 skewness 0.69
09 10 11 12 13 14	42 46 30 30 52 32 50	32 48 22 22 22 43 15 28	T-TEST FOR MATCHED PAIRS  t-crit = 2.05 t-cal = 10.74
16 17 18 19 20	57 37 47 37 32	28 18 10 15 13	PEARSONS CORRELATION  corr. coefficient = 0.65
21 22 23 24 25	25 67 44 28 33 47	11 46 26 17 19 24	SPEARMANS CORRELATION
26 27 28 29 30 31	60 37 43 35 47	22 12 24 24 28	SCATTERGRAM
COMME	NEG		intercept = 25.63 slope = 0.69

#### COMMENTS:

Cariboo College consistantly recieves stronger winds than Kamloops Airport.

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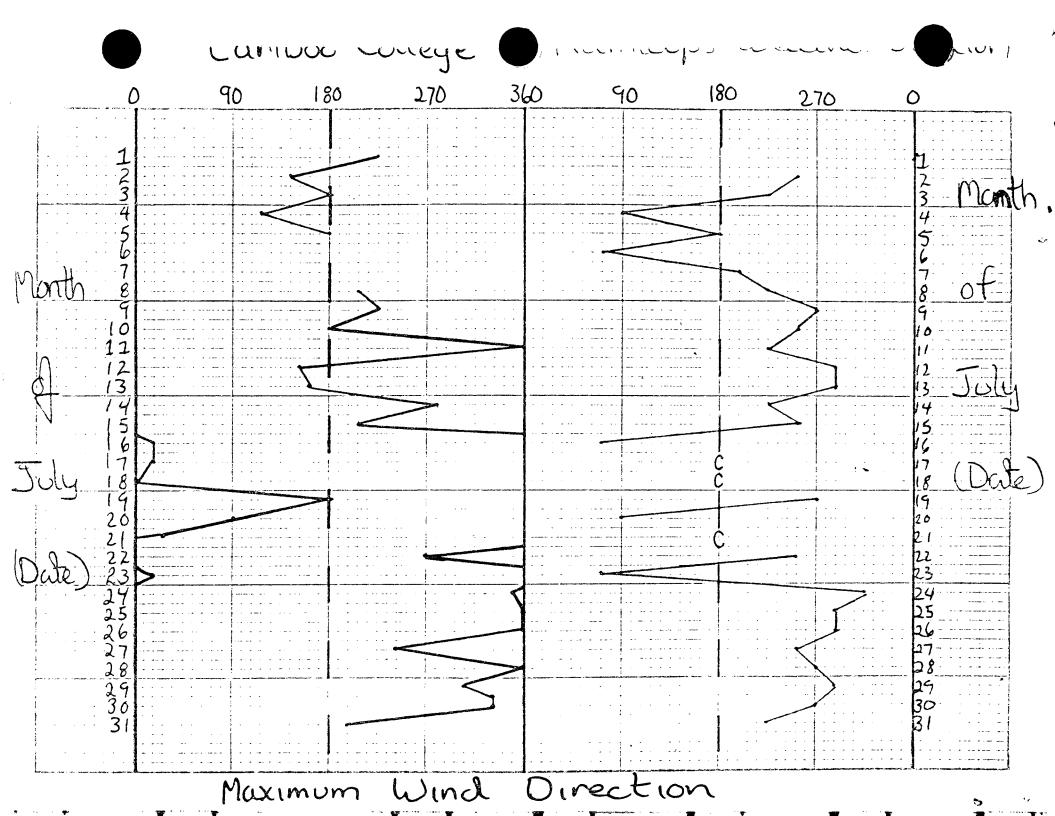
academic - career - community programs - university transfer - technical - vocational

### STATISTICS

DATE	AWDCC	AWDKW	_AWDCC AWDKW
01	230	0	
02	140	250	mean 211.38 mean 193.22
0.3	180	225	mode 360.00 mode 225.00
011	120	90	median 207.50 median 233.00
05	180	180	range 340.00 range 315.00
06	N/A	70	kurtosis -0.84 kurtosis -0.74
07	N/A	200	skewness -0.23 skewness -0.87
0.8	210	225	
09	230	270	
10	180	250	
11	360	225	T-TEST FOR MATCHED PAIRS
12	150	290	The state of the s
13	160	290	t-crit = 2.05
14	280	225	t-cal = 0.74
15	210	250	C 301 1114
16	20	70	
17	20	0	
18	360	0	PEARSONS CORRELATION
19	180	270	TIMOONS CORREDATION
20	90	90	corr. coefficient = 0.54
21	30	0	corr. coerricient - 0.74
2.2	270	250	A SECRETARIAN SECR
23	20	70	
24	350	315	SPEARMANS CORRELATION
25	360	290	STEAMINIS CORRELATION
	360	290	corr. coefficient = 0.46
26 27	240	250	corr. coefficient = 0.40
	360	270	
28	<b>31</b> 0	290	
29	330	270	C O A TRUES IN CADA A M
30	200	225	SCATTERGRAM
31			· • • • • • • • • • • • • • • • • • • •
			intercept = 97.31 slope = 0.57

#### COMMENTS:

For the month of July, Cariboo College recieved its strongest winds more often from the south, where as Kamloops Weather Station recieves its strongest daily winds from the north-east.





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### STATISTICS

DATE	PWDCC	PMUKM	PWDCC	PWDKW
01	60	135		
02	0	0	mean	147.85 mean 127.41
0.3	180	90		0.00 mode 0.00
04	100	90	median 6	5.00 median 105.00
05	N/A	110	range 36	0.00 range 290.00
0.6	N/A	90		1.63 kurtosis -1.50
07	N/A	<b>13</b> 5	skewness	
0.8	360	270		
0.9	340	270		
10	220	250		
11	360	110	T-TEST FO	R MATCHED PAIRS
12	0	0		N INTERED TATES
13	180	90	t-crit =	2.05
14	0	0	t-cal =	1.26
15	210	250	c car	
16	0	0		der allen elen die delegate ausder als von delegate ausderschan historie gebet der delegate des des des delegates des
17	0	135		
18	0	155	PEARSONS	CORRELATION
19	0	0	LIMINOVINO	CORREDATION
20	50	90	conn coo	fficient = 0.83
21	0	0	corr. coe	rricient - oros
2.5	0	0	The second secon	
23	340	290		
24	350	290	CDCADHAHC	COUNTY AMENA
25	360	270	21 FWAMING	CORRELATION
25 26	360	270	06.515	e c · · · -
	50		corr. coe	fficient = 0.83
27	360	290		
28	0	0		
29	360	270	0.34	
30	0	0	SCATTERGRA	\M
31			we end and a second	
		,	intercept	= 3.58 slope = 1.11
			*	
OO KOAT!	MITTO			

### COMMENTS:

BECAUSE OF THE NUMBER OF CALM DAYS, THE STATISTICS ARE OF NO VALUE.

