

# An Issue

- You need to be intelligent consumers
- Much data, computational tools, code snippets from the web
- Be careful how you interpret these, and verify on first use
- Check, check, and check again

NSSDA spreadsheet, downloaded from a Federal Government source



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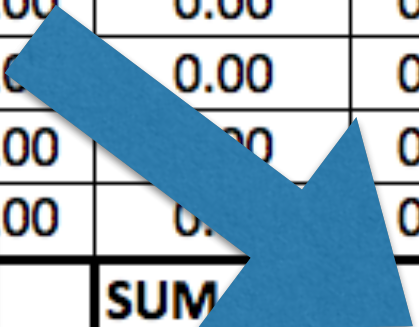
## HORIZONTAL ACCURACY CALCULATION SPREADSHEET

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 [HORIZONTAL.XLS](#) — Microsoft Word Document, 23 kB (24064 bytes)



<b>A</b>	<b>C</b>	<b>D</b>	<b>E</b>	<b>F</b>	<b>G</b>	<b>H</b>	<b>I</b>	<b>J</b>	<b>K</b>
Pt Number	x(independent)	x(test)	diff in x	diff in x <sup>2</sup>	y(independent)	y(test)	diff in y	diff in x <sup>2</sup>	x <sup>2</sup> + diff in y <sup>2</sup>
Point E	485,878	485,877	-0.61	0.37	4982031.88	4982032.82	0.94	0.88	1.25
Point B	485,330	485,329	-0.66	0.44	4982031.51	4982032.38	0.87	0.76	1.20
Point C	485,421	485,420	-0.62	0.39	4982031.57	4982032.52	0.96	0.91	1.30
			0.00	0.00			0.00	0.00	0.00
			0.00	0.00			0.00	0.00	0.00
			0.00	0.00			0.00	0.00	0.00
			0.00	0.00			0.00	0.00	0.00
			0.00	0.00			0.00	0.00	0.00
			0.00	0.00			0.00	0.00	0.00
			0.00	0.00			0.00	0.00	0.00
			0.00	0.00			0.00	0.00	0.00
			0.00	0.00			0.00	0.00	0.00
			0.00	0.00			0.00	0.00	0.00
			0.00	0.00			0.00	0.00	0.00
			0.00	0.00			0.00	0.00	0.00
			0.00	0.00			0.00	0.00	0.00



Can the average be 0.23, given the values averaged, noted in the box, all greater than 1?

<b>SUM</b>	3.75
<b>AVERAGE</b>	0.23
<b>RMSE</b>	0.48
<b>NSSDA</b>	0.84

The default spreadsheet averages over the full set of columns....giving an optimistic estimate of accuracy.....look at the formulas in any downloaded spreadsheet - is it calculating what you want?

Make sure you turn in a correct RMSE calculation

I	J	K
diff in y	diff in $x^2$	$x^2 +$ diff in $y^2$
0.94	0.88	1.25
0.87	0.76	1.20
0.96	0.91	1.30
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00
0.00	0.00	0.00
	<b>SUM</b>	3.75
	<b>AVERAGE</b>	=AVERAGE(L4:L19)
	<b>RMSE</b>	0.48
	<b>NSSDA</b>	0.84