

Significance using the XL t-test function

As topsoil

	S22473/004 W	S22473/004 D
row 4	4.45	4.78
	5.45	5.13
	5.61	4.87
	4.44	4.41
	5.06	5.21
row 8	4.20	4.98

n	6	6
Mean	4.87	4.90
St.dev	0.59	0.29
Comparison		
Pooled st.dev., s	0.46	
Mean diff, d	0.03	
SE(diff)	0.267	
t statistic	0.099	
degrees of freedom	10	
critical value (.05)	2.228	

Conclusion:

The difference between the means is not significant

Target diff, 5%	0.24	t statistic	0.913	A 5% difference would not be significant
Target diff, 10%	0.49	t statistic	1.826	A 10% difference would not be significant
Target diff, 12.5%	0.61	t statistic	2.282	A 12.5% difference would be significant

Extra sets of results may be inserted between rows 4 and 8. Inserting them before row 4 or after row 7 will exclude them from the data set.

Deleting row 4 or row 8 will destroy the links to the calculation

Significance using the XL t-test function

As sand gravel

	S22200/003 W	S22200/003 D
row 4	2.08	2.99
	3.17	3.13
	3.72	3.34
	4.74	3.37
	5.16	2.89
row 8	2.93	2.95

n	6	6
Mean	3.64	3.11
St.dev	1.16	0.21

	Comparison
Pooled st.dev., s	0.83
Mean diff, d	0.52
SE(diff)	0.479
t statistic	1.089
degrees of freedom	10
critical value (.05)	2.228

Conclusion:

The difference between the means is not significant

Target diff, 5%	0.18	t statistic	0.379	A 5% difference would not be significant
Target diff, 10%	0.36	t statistic	0.759	A 10% difference would not be significant
Target diff, 12.5%	0.45	t statistic	0.949	A 12.5% difference would not be significant

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Significance using the XL t-test function

As clay

	S21901/004 W	S21901/004 D
row 4	1.77	2.52
	2.13	1.75
	1.97	0.91
	0.86	1.17
	1.68	2.36
row 8	2.92	1.67

n	6	6
Mean	1.89	1.73
St.dev	0.67	0.63

	Comparison
Pooled st.dev., s	0.65
Mean diff, d	0.16
SE(diff)	0.376
t statistic	0.416
degrees of freedom	10
critical value (.05)	2.228

Conclusion:

The difference between the means is not significant

Target diff, 5%	0.09	t statistic	0.251	A 5% difference would not be significant
Target diff, 10%	0.19	t statistic	0.502	A 10% difference would not be significant
Target diff, 12.5%	0.24	t statistic	0.627	A 12.5% difference would not be significant

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Significance using the XL t-test function

Be topsoil

	S22473/004 W	S22473/004 D
row 4	1.76	1.55
	1.65	1.57
	1.22	1.48
	1.64	1.55
	1.56	1.62
row 8	1.33	1.56

n	6	6
Mean	1.53	1.56
St.dev	0.21	0.05

	Comparison
Pooled st.dev., s	0.15
Mean diff, d	0.03
SE(diff)	0.086
t statistic	0.341
degrees of freedom	10
critical value (.05)	2.228

Conclusion:

The difference between the means is not significant

Target diff, 5%	0.08	t statistic	0.886	A 5% difference would not be significant
Target diff, 10%	0.15	t statistic	1.772	A 10% difference would not be significant
Target diff, 12.5%	0.19	t statistic	2.215	A 12.5% difference would not be significant

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Significance using the XL t-test function

Be sand gravel

	S22200/003 W	S22200/003 D
row 4	0.32	0.36
	0.41	0.33
	0.47	0.33
	0.86	0.37
	0.49	0.31
row 8	0.28	0.34

n	6	6
Mean	0.47	0.34
St.dev	0.21	0.02

	Comparison
Pooled st.dev., s	0.15
Mean diff, d	0.13
SE(diff)	0.085
t statistic	1.567
degrees of freedom	10
critical value (.05)	2.228

Conclusion:

The difference between the means is not significant

Target diff, 5%	0.02	t statistic	0.277	A 5% difference would not be significant
Target diff, 10%	0.05	t statistic	0.553	A 10% difference would not be significant
Target diff, 12.5%	0.06	t statistic	0.691	A 12.5% difference would not be significant

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Significance using the XL t-test function

Be clay

	S21901/004 W	S21901/004 D
row 4	0.53	0.35
	0.54	0.33
	0.51	0.36
	0.52	0.34
	0.54	0.37
row 8	0.53	0.34

n	6	6
Mean	0.53	0.35
St.dev	0.01	0.02

	Comparison
Pooled st.dev., s	0.01
Mean diff, d	0.18
SE(diff)	0.008
t statistic	23.309
degrees of freedom	10
critical value (.05)	2.228

Conclusion:

There is a real difference between the means

Target diff, 5%	0.03	t statistic	3.414	A 5% difference would be significant
Target diff, 10%	0.05	t statistic	6.828	A 10% difference would be significant
Target diff, 12.5%	0.07	t statistic	8.535	A 12.5% difference would be significant

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Significance using the XL t-test function

Cd topsoil

	S22473/004 W	S22473/004 D
row 4	2.57	0.98
	0.99	1.01
	0.99	1.03
	0.67	1.08
	0.88	1.01
row 8	0.75	1.06

n	6	6
Mean	1.14	1.03
St.dev	0.71	0.04

	Comparison
Pooled st.dev., s	0.51
Mean diff, d	0.11
SE(diff)	0.292
t statistic	0.384
degrees of freedom	10
critical value (.05)	2.228

Conclusion:

The difference between the means is not significant

Target diff, 5%	0.06	t statistic	0.196	A 5% difference would not be significant
Target diff, 10%	0.11	t statistic	0.392	A 10% difference would not be significant
Target diff, 12.5%	0.14	t statistic	0.490	A 12.5% difference would not be significant

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Significance using the XL t-test function

Cd sand gravel

	S22200/003 W	S22200/003 D
row 4	1.07	0.53
	1.22	0.39
	0.91	0.47
	0.96	0.52
	1.00	0.51
row 8	0.87	0.56

n	6	6
Mean	1.01	0.50
St.dev	0.13	0.06

	Comparison
Pooled st.dev., s	0.10
Mean diff, d	0.51
SE(diff)	0.057
t statistic	8.981
degrees of freedom	10
critical value (.05)	2.228

Conclusion:

There is a real difference between the means

Target diff, 5%	0.05	t statistic	0.887	A 5% difference would not be significant
Target diff, 10%	0.10	t statistic	1.775	A 10% difference would not be significant
Target diff, 12.5%	0.13	t statistic	2.218	A 12.5% difference would not be significant

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Significance using the XL t-test function

Cd clay

	S21901/004 W	S21901/004 D
row 4	0.72	0.20
	0.75	0.00
	0.66	0.27
	0.71	0.26
	0.74	0.36
row 8	0.76	0.22

n	6	6
Mean	0.72	0.22
St.dev	0.03	0.12

	Comparison
Pooled st.dev., s	0.09
Mean diff, d	0.51
SE(diff)	0.051
t statistic	9.856
degrees of freedom	10
critical value (.05)	2.228

Conclusion:

There is a real difference between the means

Target diff, 5%	0.04	t statistic	0.706	A 5% difference would not be significant
Target diff, 10%	0.07	t statistic	1.412	A 10% difference would not be significant
Target diff, 12.5%	0.09	t statistic	1.765	A 12.5% difference would not be significant

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Significance using the XL t-test function

Co topsoil

	S22473/004 W	S22473/004 D
row 4	17.28	16.53
	15.78	16.28
	17.13	16.19
	15.14	16.93
	16.73	16.79
row 8	15.45	16.47

n	6	6
Mean	16.25	16.53
St.dev	0.91	0.29

	Comparison
Pooled st.dev., s	0.68
Mean diff, d	0.28
SE(diff)	0.390
t statistic	0.716
degrees of freedom	10
critical value (.05)	2.228

Conclusion:

The difference between the means is not significant

Target diff, 5%	0.81	t statistic	2.084	A 5% difference would not be significant
Target diff, 10%	1.63	t statistic	4.167	A 10% difference would be significant
Target diff, 12.5%	2.03	t statistic	5.209	A 12.5% difference would be significant

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Significance using the XL t-test function

Co sand gravel

	S22200/003 W	S22200/003 D
row 4	11.08	10.13
	10.59	9.72
	9.46	9.33
	12.43	9.45
	9.87	9.85
row 8	10.57	9.75

n	6	6
Mean	10.67	9.71
St.dev	1.04	0.29

	Comparison
Pooled st.dev., s	0.76
Mean diff, d	0.96
SE(diff)	0.440
t statistic	2.187
degrees of freedom	10
critical value (.05)	2.228

Conclusion:

The difference between the means is not significant

Target diff, 5%	0.53	t statistic	1.213	A 5% difference would not be significant
Target diff, 10%	1.07	t statistic	2.425	A 10% difference would be significant
Target diff, 12.5%	1.33	t statistic	3.031	A 12.5% difference would be significant

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Significance using the XL t-test function

Co clay

	S21901/004 W	S21901/004 D
row 4	8.81	8.46
	8.95	8.16
	7.93	8.97
	11.09	8.63
	9.91	8.60
row 8	8.86	8.25

n	6	6
Mean	9.26	8.51
St.dev	1.09	0.29

	Comparison
Pooled st.dev., s	0.80
Mean diff, d	0.75
SE(diff)	0.462
t statistic	1.613
degrees of freedom	10
critical value (.05)	2.228

Conclusion:

The difference between the means is not significant

Target diff, 5%	0.46	t statistic	1.002	A 5% difference would not be significant
Target diff, 10%	0.93	t statistic	2.003	A 10% difference would not be significant
Target diff, 12.5%	1.16	t statistic	2.504	A 12.5% difference would be significant

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Significance using the XL t-test function

Cr topsoil

	S22473/004 W	S22473/004 D
row 4	23.56	27.88
	24.90	25.71
	25.25	26.15
	24.51	26.89
	25.87	26.19
row 8	24.48	26.12

n	6	6
Mean	24.76	26.49
St.dev	0.78	0.78

	Comparison
Pooled st.dev., s	0.78
Mean diff, d	1.73
SE(diff)	0.451
t statistic	3.835
degrees of freedom	10
critical value (.05)	2.228

Conclusion:

There is a real difference between the means

Target diff, 5%	1.24	t statistic	2.747	A 5% difference would be significant
Target diff, 10%	2.48	t statistic	5.494	A 10% difference would be significant
Target diff, 12.5%	3.10	t statistic	6.867	A 12.5% difference would be significant

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Significance using the XL t-test function

Cr sand gravel

	S22200/003 W	S22200/003 D
row 4	22.21	22.59
	25.10	23.70
	22.52	22.23
	23.97	22.82
	26.94	21.89
row 8	22.51	23.09

n	6	6
Mean	23.88	22.72
St.dev	1.86	0.64

	Comparison
Pooled st.dev., s	1.39
Mean diff, d	1.16
SE(diff)	0.805
t statistic	1.436
degrees of freedom	10
critical value (.05)	2.228

Conclusion:

The difference between the means is not significant

Target diff, 5%	1.19	t statistic	1.484	A 5% difference would not be significant
Target diff, 10%	2.39	t statistic	2.967	A 10% difference would be significant
Target diff, 12.5%	2.98	t statistic	3.709	A 12.5% difference would be significant

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Significance using the XL t-test function

Cr clay

	S21901/004 W	S21901/004 D
row 4	19.59	19.55
	19.98	18.59
	18.88	19.94
	19.38	18.97
	19.30	19.63
row 8	21.02	18.82

n	6	6
Mean	19.69	19.25
St.dev	0.74	0.53

	Comparison
Pooled st.dev., s	0.65
Mean diff, d	0.44
SE(diff)	0.373
t statistic	1.185
degrees of freedom	10
critical value (.05)	2.228

Conclusion:

The difference between the means is not significant

Target diff, 5%	0.98	t statistic	2.643	A 5% difference would be significant
Target diff, 10%	1.97	t statistic	5.286	A 10% difference would be significant
Target diff, 12.5%	2.46	t statistic	6.607	A 12.5% difference would be significant

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Significance using the XL t-test function

Cu topsoil

	S22473/004 W	S22473/004 D
row 4	229.09	128.20
	129.21	120.00
	113.58	124.30
	116.61	124.40
	119.64	138.80
row 8	113.21	117.80
n	6	6
Mean	136.89	125.58
St.dev	45.55	7.43
	Comparison	
Pooled st.dev., s	32.63	
Mean diff, d	11.31	
SE(diff)	18.841	
t statistic	0.600	
degrees of freedom	10	
critical value (.05)	2.228	

Conclusion:

The difference between the means is not significant

Target diff, 5%	6.84	t statistic	0.363	A 5% difference would not be significant
Target diff, 10%	13.69	t statistic	0.727	A 10% difference would not be significant
Target diff, 12.5%	17.11	t statistic	0.908	A 12.5% difference would not be significant

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Significance using the XL t-test function

Cu sand gravel

	S22200/003 W	S22200/003 D
row 4	20.75	50.90
	25.17	37.40
	21.67	26.46
	69.84	24.98
	22.19	26.65
row 8	24.94	29.03

n	6	6
Mean	30.76	32.57
St.dev	19.23	10.02

	Comparison
Pooled st.dev., s	15.33
Mean diff, d	1.81
SE(diff)	8.852
t statistic	0.204
degrees of freedom	10
critical value (.05)	2.228

Conclusion:

The difference between the means is not significant

Target diff, 5%	1.54	t statistic	0.174	A 5% difference would not be significant
Target diff, 10%	3.08	t statistic	0.347	A 10% difference would not be significant
Target diff, 12.5%	3.85	t statistic	0.434	A 12.5% difference would not be significant

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Significance using the XL t-test function

Cu clay

	S21901/004 W	S21901/004 D
row 4	13.05	15.64
	12.79	14.57
	11.81	14.60
	11.90	14.23
	12.50	15.31
row 8	12.75	14.19

n	6	6
Mean	12.47	14.76
St.dev	0.51	0.59

	Comparison
Pooled st.dev., s	0.55
Mean diff, d	2.29
SE(diff)	0.318
t statistic	7.200
degrees of freedom	10
critical value (.05)	2.228

Conclusion:

There is a real difference between the means

Target diff, 5%	0.62	t statistic	1.960	A 5% difference would not be significant
Target diff, 10%	1.25	t statistic	3.919	A 10% difference would be significant
Target diff, 12.5%	1.56	t statistic	4.899	A 12.5% difference would be significant

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Significance using the XL t-test function

Ni topsoil

	S22473/004 W	S22473/004 D
row 4	45.52	45.06
	41.95	42.36
	47.77	42.53
	43.01	45.69
	45.01	45.08
row 8	43.70	43.03

n	6	6
Mean	44.49	43.96
St.dev	2.07	1.48
Comparison		
Pooled st.dev., s	1.80	
Mean diff, d	0.53	
SE(diff)	1.037	
t statistic	0.513	
degrees of freedom	10	
critical value (.05)	2.228	

Conclusion:

The difference between the means is not significant

Target diff, 5%	2.22	t statistic	2.145	A 5% difference would not be significant
Target diff, 10%	4.45	t statistic	4.289	A 10% difference would be significant
Target diff, 12.5%	5.56	t statistic	5.362	A 12.5% difference would be significant

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Significance using the XL t-test function

Ni sand gravel

	S22200/003 W	S22200/003 D
row 4	25.80	29.83
	28.23	26.25
	24.53	24.63
	32.43	25.04
	25.15	24.79
row 8	27.21	25.58

n	6	6
Mean	27.22	26.02
St.dev	2.89	1.96
Comparison		
Pooled st.dev., s	2.47	
Mean diff, d	1.20	
SE(diff)	1.425	
t statistic	0.844	
degrees of freedom	10	
critical value (.05)	2.228	

Conclusion:

The difference between the means is not significant

Target diff, 5%	1.36	t statistic	0.955	A 5% difference would not be significant
Target diff, 10%	2.72	t statistic	1.910	A 10% difference would not be significant
Target diff, 12.5%	3.40	t statistic	2.388	A 12.5% difference would be significant

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Significance using the XL t-test function

Ni clay

	S21901/004 W	S21901/004 D
row 4	18.40	19.01
	18.50	17.67
	17.36	19.14
	19.15	18.15
	17.84	19.34
row 8	19.14	18.13

n	6	6
Mean	18.40	18.57
St.dev	0.71	0.68

	Comparison
Pooled st.dev., s	0.69
Mean diff, d	0.17
SE(diff)	0.401
t statistic	0.433
degrees of freedom	10
critical value (.05)	2.228

Conclusion:

The difference between the means is not significant

Target diff, 5%	0.92	t statistic	2.296	A 5% difference would be significant
Target diff, 10%	1.84	t statistic	4.591	A 10% difference would be significant
Target diff, 12.5%	2.30	t statistic	5.739	A 12.5% difference would be significant

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Significance using the XL t-test function

Pb topsoil

	S22473/004 W	S22473/004 D
row 4	150.55	164.30
	149.70	274.70
	145.45	145.10
	139.39	152.80
	195.88	150.50
row 8	141.09	142.90

n	6	6
Mean	153.68	171.72
St.dev	21.15	51.00

	Comparison
Pooled st.dev., s	39.04
Mean diff, d	18.04
SE(diff)	22.542
t statistic	0.800
degrees of freedom	10
critical value (.05)	2.228

Conclusion:

The difference between the means is not significant

Target diff, 5%	7.68	t statistic	0.341	A 5% difference would not be significant
Target diff, 10%	15.37	t statistic	0.682	A 10% difference would not be significant
Target diff, 12.5%	19.21	t statistic	0.852	A 12.5% difference would not be significant

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Significance using the XL t-test function

Pb sand gravel

	S22200/003 W	S22200/003 D
row 4	412.44	249.80
	200.78	179.60
	94.84	319.30
	169.17	267.60
	565.02	247.00
row 8	208.18	245.20

n	6	6
Mean	275.07	251.42
St.dev	176.99	44.92

	Comparison
Pooled st.dev., s	129.12
Mean diff, d	23.66
SE(diff)	74.548
t statistic	0.317
degrees of freedom	10
critical value (.05)	2.228

Conclusion:

The difference between the means is not significant

Target diff, 5%	13.75	t statistic	0.184	A 5% difference would not be significant
Target diff, 10%	27.51	t statistic	0.369	A 10% difference would not be significant
Target diff, 12.5%	34.38	t statistic	0.461	A 12.5% difference would not be significant

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Significance using the XL t-test function

Pb clay

	S21901/004 W	S21901/004 D
row 4	15.39	32.76
	14.87	30.58
	14.94	32.88
	13.34	31.46
	20.98	33.44
row 8	21.47	30.63

n	6	6
Mean	16.83	31.96
St.dev	3.48	1.23

	Comparison
Pooled st.dev., s	2.61
Mean diff, d	15.13
SE(diff)	1.507
t statistic	10.039
degrees of freedom	10
critical value (.05)	2.228

Conclusion:

There is a real difference between the means

Target diff, 5%	0.84	t statistic	0.559	A 5% difference would not be significant
Target diff, 10%	1.68	t statistic	1.117	A 10% difference would not be significant
Target diff, 12.5%	2.10	t statistic	1.396	A 12.5% difference would not be significant

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Deleting row 4 or row 8 will destroy the links to the calculation

Significance using the XL t-test function

Zn topsoil

	S22473/004 W	S22473/004 D
row 4	227.27	212.80
	217.21	211.20
	205.82	206.40
	213.21	220.40
	221.58	212.00
row 8	213.45	209.90

n	6	6
Mean	216.42	212.12
St.dev	7.44	4.64

	Comparison
Pooled st.dev., s	6.20
Mean diff, d	4.31
SE(diff)	3.578
t statistic	1.204
degrees of freedom	10
critical value (.05)	2.228

Conclusion:

The difference between the means is not significant

Target diff, 5%	10.82	t statistic	3.025	A 5% difference would be significant
Target diff, 10%	21.64	t statistic	6.049	A 10% difference would be significant
Target diff, 12.5%	27.05	t statistic	7.562	A 12.5% difference would be significant

Extra sets of results may be inserted between rows 4 and 8. Inserting them before row 4 or after row 7 will exclude them from the data set.

Deleting row 4 or row 8 will destroy the links to the calculation

Significance using the XL t-test function

Zn sand gravel

	S22200/003 W	S22200/003 D
row 4	151.12	167.30
	138.23	152.90
	162.78	227.30
	267.49	156.50
	174.78	179.50
row 8	139.80	209.20

n	6	6
Mean	172.37	182.12
St.dev	48.63	30.04

	Comparison
Pooled st.dev., s	40.42
Mean diff, d	9.75
SE(diff)	23.334
t statistic	0.418
degrees of freedom	10
critical value (.05)	2.228

Conclusion:

The difference between the means is not significant

Target diff, 5%	8.62	t statistic	0.369	A 5% difference would not be significant
Target diff, 10%	17.24	t statistic	0.739	A 10% difference would not be significant
Target diff, 12.5%	21.55	t statistic	0.923	A 12.5% difference would not be significant

Extra sets of results may be inserted between rows 4 and 8. Inserting them before row 4 or after row 7 will exclude them from the data set.

Deleting row 4 or row 8 will destroy the links to the calculation

Significance using the XL t-test function

Zn clay

	S21901/004 W	S21901/004 D
row 4	35.45	40.91
	34.82	38.60
	35.09	39.33
	35.25	40.07
	37.47	41.73
row 8	38.89	39.96

n	6	6
Mean	36.16	40.10
St.dev	1.64	1.11

	Comparison
Pooled st.dev., s	1.40
Mean diff, d	3.94
SE(diff)	0.809
t statistic	4.867
degrees of freedom	10
critical value (.05)	2.228

Conclusion:

There is a real difference between the means

Target diff, 5%	1.81	t statistic	2.234	A 5% difference would be significant
Target diff, 10%	3.62	t statistic	4.469	A 10% difference would be significant
Target diff, 12.5%	4.52	t statistic	5.586	A 12.5% difference would be significant

Extra sets of results may be inserted between rows 4 and 8. Inserting them before row 4 or after row 7 will exclude them from the data set.

Deleting row 4 or row 8 will destroy the links to the calculation