

APPENDIX

One sample t-test

It is used to compare one group to a hypothetical value. Usually used to compare the mean of a sample to a known number (often 0, here it is Test value of recovery at yield point). The formula for one sample t-test is as follows:

$$T = \frac{\bar{X} - \mu}{S / \sqrt{n}}$$

Two sample t-test

It is used to compare means on the same or related subject over time or in differing circumstances; subjects are often tested in a before-after situation. The formula for two sample t-test is as follows:

$$T = \frac{\bar{X} - \bar{Y}}{S_d / \sqrt{n}}$$

Stretch and recovery of fabric A FRONT

	Std.size 81.0	Size 86.0	D 86.0	R 86.0
Armpit level	33	34	1	0.5
Bust level	41	44	3	0.3
Centre front	18	19	1	0.5
Right front	11.5	12.5	1	0.5
Left front	11.5	12.5	1	0.5
Waist level	34	36	2	0.3
Centre	18	19	1	0.5
Right front	8	8.5	0.5	0.5
Left front	8	8.5	0.5	0.5
Hip level	42	43	1	0.5
Centre	20	21	1	0.5
Right front	11	11	0	0
Left front	11	11	0	0
Test value	0.8			

Stretch and recovery of fabric A –BACK

	Std.size 81.0	Size 86.0	D 86.0	R 86.0
Armpit level	34	35	1	0.5
Bust level	40	42	2	0.4
Centre front	20	20	0	0
Right front	10	11	1	0.5
Left front	10	11	1	0.5
Waist level	34	35	1	0.5
Centre	18	19	1	0.5
Right front	8	8	0	0
Left front	8	8	0	0
Hip level	44	45	1	0.5
Centre	22	23	1	0.5
Right front	11	11	0	0
Left front	11	11	0	0
Test value	0.8			

Stretch and recovery of fabric B FRONT

	Std.size 81.0	Size 86.0	D 86.0	R 86.0
Armpit level	33	34	1	1
Bust level	41	44	3	0.4
Centre front	18	19	1	1
Right front	11.5	12.5	1	1
Left front	11.5	12.5	1	1
Waist level	34	36	2	0.5
Centre	18	19	1	1
Right front	8	8.5	0.5	0.5
Left front	8	8.5	0.5	0.5
Hip level	42	43	1	1
Centre	20	21	1	1
Right front	11	11	0	0
Left front	11	11	0	0
Test value	1.12			

Stretch and recovery of fabric B –BACK

	Std.size 81.0	Size 86.0	D 86.0	R 86.0
Armpit level	34	35	1	1
Bust level	40	42	2	0.5
Centre front	20	20	0	0
Right front	10	11	1	1
Left front	10	11	1	1
Waist level	34	35	1	1
Centre	18	19	1	1
Right front	8	8	0	0
Left front	8	8	0	0
Hip level	44	45	1	1
Centre	22	23	1	1
Right front	11	11	0	0
Left front	11	11	0	0
Test value	1.12			

Stretch and recovery of fabric C FRONT

	Std.size 81.0	Size 86.0	Size 91.0	Size 96.0	D 86.0	D 91.0	D 96.0	R 86.0	R 91.0	R 96.0
Armpit level	33	34	34	34	1	1	1	1	1	1
Bust level	41	44	47	49	3	6	8	3	6	4.8
Centre front	18	19	20	22	1	2	4	1	2	4
Right front	11.5	12.5	13.5	13.5	1	1	2	1	1	2
Left front	11.5	12.5	13.5	13.5	1	1	2	1	1	2
Waist level	34	36	38	45	2	2	11	2	2	4.4
Centre	18	19	20	22	1	2	4	1	2	4
Right front	8	8.5	9	11.5	0.5	1	3.5	0.5	1	3.5
Left front	8	8.5	9	11.5	0.5	1	3.5	0.5	1	3.5
Hip level	42	43	46	48	1	4	6	1	4	6
Centre	20	21	23	24	1	3	4	1	3	4
Right front	11	11	11.5	12	0	0.5	1	0	0.5	1
Left front	11	11	11.5	12	0	0.5	1	0	0.5	1
Test value	7.2									

Stretch and recovery of fabric C BACK

	Std.size 81.0	Size 86.0	Size 91.0	Size 96.0	D 86.0	D 91.0	D 96.0	R 86.0	R 91.0	R 96.0
Armpit level	34	35	35	35	1	1	1	1	1	1
Bust level	40	42	44	47	2	4	7	2	4	7
Centre front	20	20	22	23	0	2	3	0	2	3
Right front	10	11	11.5	12	1	1.5	2	1	1.5	2
Left front	10	11	11.5	12	1	1.5	2	1	1.5	2
Waist level	34	35	36	41	1	2	7	1	2	7
Centre	18	19	20	21	1	1	3	1	1	3
Right front	8	8	8	10	0	0	2	0	0	2
Left front	8	8	8	10	0	0	2	0	0	2
Hip level	44	45	48	52	1	4	8	1	4	4.8
Centre	22	23	24	26	1	2	4	1	2	4
Right front	11	11	12	13	0	1	2	0	1	2
Left front	11	11	12	13	0	1	2	0	1	2
Test value	7.2									

Stretch and recovery of fabric D FRONT

	Std. size 81.0	Size 86.0	Size 91.0	Size 96.0	D 86.0	D 91.0	D 96.0	R 86.0	R 91.0	R 96.0
Armpit level	33	34	34	34	1	1	1	1	1	1
Bust level	41	44	45	49	3	4	8	3	4	7.6
Centre front	18	19	20	22	1	2	4	1	2	4
Right front	11.5	12.5	12.5	13.5	1	1	2	1	1	2
Left front	11.5	12.5	12.5	13.5	1	1	2	1	1	2
Waist level	34	36	38	45	2	4	11	2	4	6.6
Centre	18	19	20	22	1	2	4	1	2	4
Right front	8	8.5	9	11.5	0.5	1	3.5	0.5	1	3.5
Left front	8	8.5	9	11.5	0.5	1	3.5	0.5	1	3.5
Hip level	42	43	46	48	1	4	6	1	4	6
Centre	20	21	23	24	1	3	4	1	3	4
Right front	11	11	11.5	12	0	0.5	1	0	0.5	1
Left front	11	11	11.5	12	0	0.5	1	0	0.5	1
Test value	7.79									

Stretch and recovery of fabric D BACK

	Std. size 81.0	Size 86.0	Size 91.0	Size 96.0	D 86.0	D 91.0	D 96.0	R 86.0	R 91.0	R 96.0
Armpit level	34	35	35	35	1	1	1	1	1	1
Bust level	40	42	44	47	2	4	7	2	4	7
Centre front	20	20	22	23	0	2	3	0	2	3
Right front	10	11	11	12	1	1	2	1	1	2
Left front	10	11	11	12	1	1	2	1	1	2
Waist level	34	35	36	41	1	2	7	1	2	7
Centre	18	19	20	21	1	2	3	1	2	3
Right front	8	8	8	10	0	0	2	0	0	2
Left front	8	8	8	10	0	0	2	0	0	2
Hip level	44	45	48	52	1	4	8	1	4	7.6
Centre	22	23	24	26	1	2	4	1	2	4
Right front	11	11	12	13	0	1	2	0	1	2
Left front	11	11	12	13	0	1	2	0	1	2
Test value	7.79									

