

Traceis™ Data Exploration Studio Confidence intervals

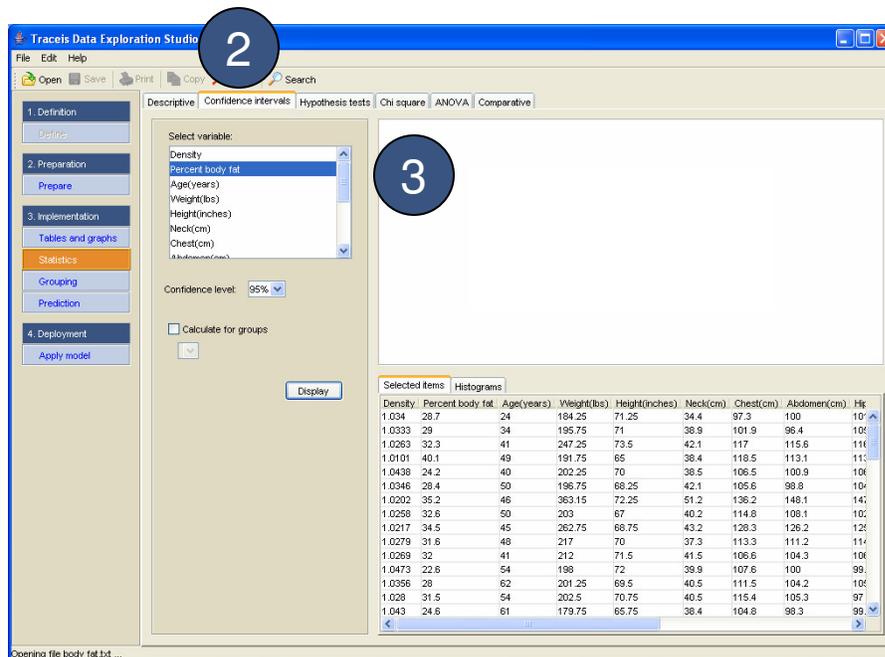
1 Select the statistics step

In this example, the body fat dataset was used. First, click on the statistics step.

2 Select the confidence intervals tab

3 Select a variable to assess

Single click on a variable to generate confidence intervals. In this example, the percent body fat variable was selected.



MAKING SENSE OF DATA

1 Select the confidence level

2 Define additional groups

To calculate confidence intervals for groups of observations, select a categorical variable and groups will be generated for each value.

3 Display confidence intervals

The screenshot shows the 'Trace3 Data Exploration Studio 2007 beta 1' interface. The 'Confidence intervals' tab is active. In the 'Select variable' list, 'Percent body fat' is selected. The 'Confidence level' is set to 95%. The 'Calculate for groups' checkbox is checked. The 'Display' button is highlighted. A table of 'Selected Items' is visible at the bottom right.

Density	Percent body fat	Age(years)	Weight(lbs)	Height(inches)	Neck(cm)	Chest(cm)	Abdomen(cm)	Hgt
1.034	28.7	24	184.25	71.25	34.4	97.3	100	10'
1.0333	29	34	195.75	71	38.9	101.9	96.4	10'
1.0283	32.3	41	247.25	73.5	42.1	117	115.6	11'
1.0101	40.1	49	191.75	65	38.4	118.5	113.1	11'
1.0438	24.2	40	202.25	70	38.5	106.5	100.9	10'
1.0346	20.4	50	198.75	68.25	42.1	105.6	93.9	10'
1.0202	35.2	46	363.15	72.25	51.2	136.2	148.1	14'
1.0258	32.6	50	203	67	40.2	114.8	108.1	10'
1.0217	34.5	45	262.75	68.75	43.2	128.3	126.2	12'
1.0279	31.6	48	217	70	37.3	113.3	111.2	11'
1.0289	32	41	212	71.5	41.5	106.6	104.3	10'
1.0473	22.6	54	198	72	39.9	107.6	100	9'
1.0356	28	62	201.25	69.5	40.5	111.5	104.2	10'
1.028	31.5	54	202.5	70.75	40.5	115.4	105.3	9'
1.043	24.6	61	179.75	65.75	38.4	104.6	98.3	9'

MAKING SENSE OF DATA

1 View confidence intervals

Based on the settings already made, a range for the mean of the selected variable is presented.

The screenshot shows the Trace3 Data Exploration Studio 2007 beta 1 interface. The 'Confidence intervals' tab is active. The 'Select variable' dropdown is set to 'Percent body fat'. The confidence level is set to 95%. A table displays the confidence intervals for the mean of Percent body fat, with a circled '1' above it. Below the table, a 'Selected Items' list shows the data for each observation.

	From	To
All observations	18.1	20.1
Selected observations	28	30
Observations not selected	14.2	15.9

Density	Percent body fat	Age(years)	Weight(lbs)	Height(inches)	Neck(cm)	Chest(cm)	Abdomen(cm)	Hgt
1.034	28.7	24	184.25	71.25	34.4	97.3	100	101
1.0333	29	34	195.75	71	38.9	101.9	96.4	104
1.0283	32.3	41	247.25	73.5	42.1	117	115.6	116
1.0101	40.1	49	191.75	65	38.4	118.5	113.1	111
1.0438	24.2	40	202.25	70	38.5	106.5	100.9	104
1.0346	20.4	50	198.75	68.25	42.1	105.6	93.9	104
1.0202	35.2	46	363.15	72.25	51.2	136.2	148.1	141
1.0258	32.6	50	203	67	40.2	114.8	108.1	102
1.0217	34.5	45	262.75	68.75	43.2	128.3	126.2	121
1.0279	31.6	48	217	70	37.3	113.3	111.2	114
1.0289	32	41	212	71.5	41.5	106.6	104.3	108
1.0473	22.6	54	198	72	39.9	107.6	100	99
1.0356	28	62	201.25	69.5	40.5	111.5	104.2	102
1.028	31.5	54	202.5	70.75	40.5	115.4	105.3	97
1.043	24.6	61	179.75	65.75	38.4	104.6	98.3	99