

Soil Data Set with variables displayed

The screenshot shows the SPSS Data Editor window for a file named 'Soil.sav [DataSet2]'. The interface includes a menu bar (File, Edit, View, Data, Transform, Analyze, Graphs, Utilities, Window, Help) and a toolbar with various icons. The main data grid has 21 rows and 24 columns. The first three columns are labeled 'solvent', 'soil', and 'sulphur'. The remaining 21 columns are labeled 'var.' and are currently empty. The data is as follows:

	solvent	soil	sulphur	var.																		
1	CaCl	Troop	5.07																			
2	NH4OAc	Troop	4.43																			
3	Ca(H2PO4)	Troop	7.09																			
4	Water	Troop	4.48																			
5	CaCl	Lakeland	3.31																			
6	NH4OAc	Lakeland	2.74																			
7	Ca(H2PO4)	Lakeland	2.32																			
8	Water	Lakeland	2.35																			
9	CaCl	Leon	2.54																			
10	NH4OAc	Leon	2.09																			
11	Ca(H2PO4)	Leon	1.09																			
12	Water	Leon	2.70																			
13	CaCl	Chipley	2.34																			
14	NH4OAc	Chipley	2.07																			
15	Ca(H2PO4)	Chipley	4.38																			
16	Water	Chipley	3.85																			
17	CaCl	Norfolk	4.71																			
18	NH4OAc	Norfolk	5.29																			
19	Ca(H2PO4)	Norfolk	5.70																			
20	Water	Norfolk	4.98																			
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The status bar at the bottom indicates 'Data View' is selected, 'Variable View' is also available, and the 'SPSS Processor is ready'.

Select Analyze: General Linear Model: Univariate

The screenshot shows the SPSS Data Editor interface with the 'Analyze' menu open, highlighting the path 'General Linear Model' > 'Univariate...'. The data table contains the following information:

	solvent	soil	sulphur
1	CaCl	Troop	4.43
2	NH4OAc	Troop	
3	Ca(H2PO4)	Troop	
4	Water	Troop	
5	CaCl	Lakeland	
6	NH4OAc	Lakeland	
7	Ca(H2PO4)	Lakeland	
8	Water	Lakeland	
9	CaCl	Leon	2.54
10	NH4OAc	Leon	2.09
11	Ca(H2PO4)	Leon	1.09
12	Water	Leon	2.70
13	CaCl	Chipley	2.34
14	NH4OAc	Chipley	2.07
15	Ca(H2PO4)	Chipley	4.38
16	Water	Chipley	3.85
17	CaCl	Norfolk	4.71
18	NH4OAc	Norfolk	5.29
19	Ca(H2PO4)	Norfolk	5.70
20	Water	Norfolk	4.98
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Press the *Model* button and select *Custom* toggle box under *Specify Model*

The screenshot shows the SPSS Data Editor window with a dataset named 'Soil.sav [DataSet2]'. The data table has columns for 'solvent', 'soil', and 'sulphur', with 20 rows of data. Two dialog boxes are open: 'Univariate' and 'Univariate: Model'. The 'Univariate: Model' dialog box is the primary focus, showing the 'Specify Model' section with 'Custom' selected. The 'Factors & Covariates' list contains 'solvent(F)' and 'soil(F)'. The 'Sum of squares' is set to 'Type III' and 'Include intercept in model' is checked.

	solvent	soil	sulphur	var															
1	CaCl	Troop	5.07																
2	NH4OAc	Troop	4.43																
3	Ca(H2PO4)	Troop	7.09																
4	Water	Troop	4.48																
5	CaCl	Lakeland	3.31																
6	NH4OAc	Lakeland	2.74																
7	Ca(H2PO4)	Lakeland	2.32																
8	Water	Lakeland	2.35																
9	CaCl	Leon	2.54																
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18	NH4OAc	Norfolk	5.29																
19	Ca(H2PO4)	Norfolk	5.70																
20	Water	Norfolk	4.98																

Under *Build Term(s)*, select *Main Effects* from the pulldown list

The screenshot displays the SPSS Data Editor interface with a data table and an open Univariate dialog box. The data table has the following columns: solvent, soil, sulphur, and several empty columns labeled 'var'. The rows contain data for 20 different observations, with values for sulphur ranging from 2.07 to 5.70. The Univariate dialog box is titled 'Univariate: Model' and is configured as follows:

- Specify Model:** Custom (selected)
- Factors & Covariates:** solvent(F), soil(F)
- Build Term(s):** Main effects (selected in the dropdown menu)
- Sum of squares:** Type III
- Include intercept in model:** checked

Buttons at the bottom of the dialog box include Continue, Cancel, and Help.

Highlight the **solvent** and **soil** factors from the *Factors & Covariates* list then press the arrow under *Build Term(s)*. Then press *Continue*.

The screenshot shows the SPSS Data Editor window with a dataset named 'Soil.sav'. The main window displays a grid of data with columns for 'solvent', 'soil', 'sulphur', and several empty 'var' columns. The 'solvent' column contains chemical formulas like CaCl, NH4OAc, Ca(H2PO4), and Water. The 'soil' column contains location names like Troop, Lakeland, Leon, Chipley, and Norfolk. The 'sulphur' column contains numerical values ranging from 2.09 to 5.70.

Overlaid on the data grid is the 'Univariate: Model' dialog box. It is configured as follows:

- Specify Model:** Custom (selected)
- Factors & Covariates:** solvent(F), soil(F)
- Model:** solvent, sulphur
- Build Term(s):** (Arrow button)
- Main effects:** (Dropdown menu)
- Sum of squares:** Type III
- Include intercept in model:** (Checked)

Buttons at the bottom of the dialog box include 'Continue', 'Cancel', and 'Help'.

