

Practicing with SPSS

Bangkok, 6-10 May 2013





food security analysis

Quiz







How many variables do we need to create this graph?







Which are the differences between the graph and the table below?

	Series 1	Series 2	Series 3
Category 1	4.3	2.4	2
Category 2	2.5	4.4	2
Category 3	3.5	1.8	3
Category 4	4.5	2.8	5





How many variables will come out from this questionnaire?

6.6	Please indicate if you hav following sources over th 07) <i>Circl</i>	e received remittances from the e past two years (Oct 09 – Oct e all that apply	1 = (se 2 = (lo	Migrant household member easonal <1 year) Migrant household member ng-term >1year)	3 = Otherson (non-HH-me 9 = None of t → skip to see	urce mber) he above ction <u>VII</u>
6.7	If you have received reminamount has changed or r two years 2008 and 2009	ttances, please indicate if the emained the same over those 2,	1 = 2 = 3 = sec	Increased Decreased Remained about the same → ction VII		
6.8	What is the main reason for this change?	If increased 1 = More members migrating 2 = More employment opportunities 3 = Higher wages/salaries 4 = Fewer members migrating		If decreased 5 = Fewer employment oppo 6 = Loss of jobs 7 = Lower wages/salaries 9 = Other		

	At wha Indicat all that	At <u>what time</u> of the year, did HH members mainly work outside of the community over past 12 months? Indicate timing of <u>migration</u> for the HH member whose contribution to the overall <u>HH's</u> income is most important. Tick all that apply.													
6.3	Oct 08	Nov 08	Dec 08	Jan 09	Feb 09	Mar 09	Apr 09	May 09	Jun 09	Jul 09	Aug 09	Sep 09	Oct 09	Nov 09	All





Which is a variable and which is a case?

- Household
- Number of days meat was consumed
- Child
- Mother
- Household size
- Sex of the household head





food security analysis



TYPES OF DATA AND DESCRIPTIVE STATISTICS





Introduction

In the social sciences we are usually interested in **discovering something** about a phenomenon.

Whatever the phenomenon we desire to explain, we seek to explain it by **collecting data** from the real world and then **using these data to draw conclusions** about what is being studied.





Variable vs. Cases

• Case

statistical unit that is being described (household, people, sampled universe)

Variable

an indicator that describes a case (sex of the household head, age of the person, income activity of the household)





Type of variables

We work with two types of variables







Type of variables

	Тур	e of variables					
	Continuous	Categ	orical				
		Ordinal	Nominal				
Do arithmetic operations on values make sense?	Yes	No	No				
Are values ordered?	Yes	Yes	No				
Types of values	Numeric	Alphanumeric codes	Alphanumeric codes				





Continuous variables

Continuous variables assume numeric values which are expressed in a given unit of measurement

 Income, millimeters of rainfall, kilograms of agricultural production, percent of food insecure households, Weight-for-height z-score for children, etc.

Most importantly, each number (within a variable) has a meaning in relation to the other numbers, allowing <u>arithmetic comparisons</u> to be drawn





Categorical variables

Categorical variables are used to describe the different types of properties the item of interest can have. Values are categories, taking a limited set of values.

Examples include:

- Sex of an individual = male or female
- Level of education = primary school, secondary school, university and above or no schooling
- Age group of a child = 0-11 months, 12-23 months, 24-35 months, 36-47 months, 48-59 months

Categories can be denoted numerically or alphabetically Categorical variables take 2 forms-- *nominal* and *ordinal* variables.





Nominal variables

A nominal measurement scale is a set of mutually exclusive categories (only one category can be used to describe the subject of interest) that varies qualitatively but not quantitatively, for example gender, provinces, income sources, etc.

Codes are labels representing different behaviours/ characteristics and they do not imply any underlying order.





Ordinal categorical variables

An ordinal measurement scale differs from a nominal one in that the order among the original categories is preserved in the analysis. However differences between adjacent categories are not equal.

Examples social class and perception (bad – medium – good).



Descriptive statistics

Descriptive statistics are the most basic from of statistics

They include:

- Summaries of one variable
- Comparisons of two or more variables

These tests are the foundation for more advanced statistical techniques





Descriptive statistics







First lets discuss descriptives for continuous variables...





Range

The range is the spread between the smallest and the largest values in a distribution





What is a mean?

The (arithmetic) **MEAN** is the sum of all the values divided by the numbers of cases

Statistics such as mean assume normal distributions







Median

The **MEDIAN** is the value above and below which half of the cases fall, the 50th percentile, i.e. the middle value of a set of observations ranked in order.

The median is a measure of central tendency not sensitive to outlying values--unlike the mean, which can be affected by a few extremely high or low values.

A median does not assume a normal distribution





Mode

The **MODE** of a distribution is the value of the observation occurring **most frequently**. It can be used with all measurement scales.

If several values share the greatest frequency of occurrence, each of them is a mode.





To illustrate these concepts...

Looking at age data from 10 individuals...

1	2	3	4	5	6	7	8	9	10
12	19	23	26	28	28	28	34	36	38

- What is the range?
- What is the mean?
- What is the median?
- What is the mode?





Now lets discuss descriptives for categorical variables...





Analysing categorical data

If you want to look at the relationship between two categorical variables:

Mean and median not useful, except for when it is a binary variable (0/1)

Instead, we use frequencies and cross-tabs





Descriptives for categorical data

- The most basic descriptive for categorical variables is the frequency
 - which shows the number of cases

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Female	236	18.2	18.2	18.2
	Male	1064	81.8	81.8	100.0
	Total	1300	100.0	100.0	

• Or % Of Cases Sex of hh head





Descriptives for categorical data

• We can also cross-tabulate categories from one variable with categories from a second variable

	Continuous (scale)	Categorical
Continuous (scale)	none	Mean Median
Categorical	Mean Median	Frequency





Example: Scale and nominal

		Food Consumption Score
		Mean
Residence status	IDPs	64.0
	Residents	75.0
	Others	57.6
	Total	67.8





Example: Ordinal and nominal

Food Consumption Groups

N. of

poor borderline acceptable cases

		Row N %	Row N %	Row N %	Count
Residence status	IDPs	7.1%	15.6%	77.3%	946
	Residents	2.2%	6.0%	91.8%	580
	Others	16.2%	20.2%	63.6%	52
	Total	5.6%	12.2%	82.2%	1578





Example... (row %)

Food Consumption Groups

		Poor	Borderline	Acceptable	Total
		Row N %	Row N %	Row N %	Row N %
Sex of hh head	Female	7.2%	14.8%	78.0%	100.0%
	Male	4.7%	9.0%	86.3%	100.0%
	Total	5.2%	10.1%	84.8%	100.0%

What percentage of female headed HHs have acceptable consumption? What percentage of male headed HHs have poor food consumption? What percentage of borderline consumption HHs in total?





Example... (column %)

Food Consumption Groups

		Poor Borderl		Acceptable	Total
		Column N %	Column N %	Column N %	Column N %
Sex of hh head	Female	25.4%	26.7%	16.7%	18.2%
	Male	74.6%	73.3%	83.3%	81.8%
	Total	100.0%	100.0%	100.0%	100.0%

What percentage of poor consumption HHs are female-headed?

What percentage of acceptable consumption HHs are male-headed? What percentage of female-headed HHs in total?





DATA PREPARATION IN SPSS





Data view

- Cases and variables
 - **Case** \rightarrow each row is one case
 - Variable \rightarrow each column is one variable
 - The differences between the two can be easily seen by switching from data view to variable view in SPSS





Data view

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Variable view

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13	s0_9	Numeric	1	0	Household number	None	None	4	≣ Right	Scale Scale	🔪 Input
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Prepare data before export (example EXCEL)

Nam food security analysis

4	В	J	K	L	М	N	0	P	Q	R	S	Т	U	V	W	Χ	Y	Z	AA
2	تاريخ المقابلة (اليوم/ الشهر/السنة)	ID_final	Q1 Sex of the Family Head	Q2a Total Number of the persons in the Family	Q2b Total number of childre n under 18 years old:	Q2b Number of children less than 5 years (0- 59 months) today:	Q3a How long the family has lived in Jordan?	Q3b Are you hosted by a resident family?	Q3 c If No (in 3b above), are you sharing with another Refugee family from Syria?	Q3d If yes (in 3b or 3c above), how many families are living here?	Q4a Where do you seek health assistance when sick ccurrently?(A sk the question and choose one number correspondin g to answer)	Q4b If 'No assistan ce' in Q4a, why?	Q5 Does the family have access to sufficient water for drinking, cooking, washing and toilet purposes?	Q(prob wa the answ	6 Wh oblems oter ar e fami wer or ansy	at is t / ma relat d fac y? ((r muli wers)	the jor ed to ing Dne tiple	Q7 Does the family have access to soap and Hygiene ?	First main source 80
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5	08/10/2012	010603	m	4	2	2	3	1	0	0	4	0	0	0	0	0	3	0	0
6	08/10/2012	010604	f	5	4	1	2	1	0	2	5	0	1	0	0	2	1	0	0
7	08/10/2012	010605	m	6	4	1	2	0	0	3	4	0	1	0	0	2	3	1	0





Prepare data before export (example EXCEL)

1	A	В	С	D	E	F	G	Н	1	J	К	L	M
1	country	ID_final	Date	cluster_id	team_id	HH_id	Q1	Q2	Q2b_1	Q2b_2	Q3a	Q3b	Q3c
2	1	230302	15/10/2012	23	3	2	1	7	4	0	4	0	1
3	1	240305	14/10/2012	24	3	5	2	8	6	1	4	0	0
4	1	550411	23/10/2012	55	4	11	1	13	2	2	. 3	0	1
5	1	550412	23/10/2012	55	4	12	1	13	0	0	3	0	1
6	1	210411	13/10/2012	21	4	11	2	1	0	0	3	0	1
7	1	550102	23/10/2012	55	1	2	1	6	6	3	3	1	0
8	1	200407	13/10/2012	20	4	7		4	2	0	3	0	1
9	1	40505	08/10/2012	4	5	5	1	1	0	0	3	0	0
10	1	250306	15/10/2012	25	3	6	2	6	2	2	3	0	0
11	1	20303	08/10/2012	2	3	3	1	3	1	0	3	1	0
12	1	410102	15/10/2012	41	1	2	1	12	4	1	3	0	0
13	1	120303	10/10/2012	12	3	3	1	1	0	0	3	0	1
14	1	450214	18/10/2012	45	2	14	1	6	4	2	3	0	0
15	1	30506	08/10/2012	3	5	6	1	8	5	0	3	0	0
16	1	130401	08/10/2012	13	4	1	1	6	3	1	. 3	0	0





Importing data in SPSS:

- Open SPSS is as simple as selecting
- \rightarrow File \rightarrow Open \rightarrow Data
- Select files by type
- Browse and select data
- Open





Clean variable view

- **Name**: short name, input variables usually refers to section in questionnaire (e.g. s2_3a, s2_3b); must be unique
- Type: number="numeric", text="string", date="date"
- Width: Maximum number of characters allowed
- **Decimals**: Number of decimals (e.g. 2=0.23)
- Labels: description of the variable
- Values: Codes for categorical (nominal) variables need to be defined
- **Missing values**: Values that should be excluded during the analysis (e.g. 99= not applicable, 88=not known, etc.)
- Width of column: Width how column should appear on the screen
- Alignment: If text = "left", if number = "right"
- Level of measurement: if number that can be divided = "scale", if categorical number or string = "nominal" (e.g. 1=yes, 0=no), if rank = "ordinal" (e.g. 1=poor, 2=medium, 3= better-off)





Data cleaning

- Cleaning data can be a painful process
- Being systematic about cleaning data from the beginning of the process can save hours of work later in the analysis
- Some basic tools to use in SPSS to clean data:
 - Sorting cases in ascending or descending order
 - Run quick frequency tables for categorical variables
 - Identify duplicate cases shows cases which have the same unique identifier





Merging datasets

- For each level of analysis, there is one SPSS dataset (e.g. HH-level, child-level, HH-member level, market price data);
- It is possible to link data from various levels by merging datasets using the adding variables function;
- It is also possible to combine datasets that collected the same indicators (e.g. data from different countries, different rounds) using the adding cases function;





Merging datasets (adding variables)

- For example the education level of a household head is recorded in the household dataset. We may be interested to find if the nutritional status of a child is related to education of the household head. But the child data is in a separate dataset.
- In order to merge the datasets, a common variable must exist in each dataset. In this case, a household identifier must be in both datasets.







Merging datasets (adding cases)







Create unique codes

- First column: round number (01-....)
- Second column: region code (01-10)
- Third column: site code (01-25)
- Fourth column: HH number (01-15)

- How many digits will the unique code have?
- __(round)__(region)__(site-code)__(HH-number)





Questions?







SPSS COMMANDS FOR DESCRIPTIVE ANALYSIS



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SPSS commands

- Recode into different variable
- Compute
- Filter
- Custom tables
- Paste syntax





Create new variables using recode

- Recoding a variable is the most common command we use in SPSS
 - Into same variable
 - Into different variable
- Objective: Classify categorical or scale variables into groups
 - Drinking water sources into "improved"/"not improved"
 - Age into age groups
 - FCS into FCS groups

4.2 What is the main source of drinking water for your household?

(Circle one)

- •1 = Piped water
- •2 = Well (protected)
- •3 = Well (unprotected)
- •4 = River, stream or pond
- •5 = Collecting rainwater
- •6 = Tanker truck water

Improved source	Unimproved source
Piped water	Well (unprotected)
Well (protected)	River, stream or pond
Collecting rainwater	Tanker truck water





Creating a new variable using compute

- Computing a new variable is usually done when a mathematical formula is used to derive a new variable
 - E.g calculating total HH size by adding age groups
 - % Female in each HH
 - % of dependent HH
 members in each HH
 (dependent <15, 60
 plus)

1.5 Please complete the household	Age	Male	Female
demographics table on the right. Record the number of	a. 0-5 years		
individuals in each age category, differentiated by	b. 6-14 years		
males and females.	c. 15-59 years		
	d. 60 years or older		





Selecting cases using filters

- Often, analysis or data processing should only be applied to a subset of the cases in your data
- For example, we might want to run analysis only on IDPs
- This is done easily in SPSS using the SELECT CASES function
- Select Data > Select Cases and then use the If conditional dialog box in the subsequent screen in SPSS to write a condition. In this case: select cases if residence status = 1 (assuming IDPs = 1)





Selecting cases using filters

- SPSS will create a filter variable at the end of the dataset and only select cases that meet the criteria you've provided
- Ensure to select all cases from the same menu once you've finished the analysis on the subset





Frequencies

Select ANALYZE > Descriptive Statistics > Frequencies

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Crosstabs

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Crosstabs

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🖋 uniqueid	Row(s):	Exact		want	to cross-tak	oulate
District [DISTRICT]		Statistics				
Household Number [HHNU	Column(s):	Cells		Click	on "Cells" to	o view hy
What is the ethnic group of	(*) Food Consumption Score Cate	Format				
Would you like to participat		Bootstrap		perce	entages	
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Custom tables Select > ANALYZE > select TABLES > select CUSTOM TABLES

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Paste syntax

• We want to repeat steps, it is useful to create syntax







Types of variables

	Continuous	Categorical		
SPSS terminologies	Scale	Ordinal	Nominal	
Which mathematical function can be applied?	 Calculations ("compute") Categorizing ("recode into different variable") 	Categorizing ("recode into different variable")	Categorizing ("recode into different variable")	
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Types of values	Numbers or percentages	Codes (order has meaning)	Codes (order has no meaning)	

Fighting Hunger Worldwide