

Agricultural statistics country assessment

Agricultural sector

“GENDER STATISTICS”



Improving data quality using a gender sensitive perspective of agricultural statistics

"HOW TO" lessons learned from Africa



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AGRI-GENDER DATABASE

a statistical toolkit for the production of sex-disaggregated agricultural data



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RESULT OF:

- **Nearly 2 decades** collaboration FAO & NBS-s in Africa
- “joint-venture” with **N = 100+** statisticians
- Support of **N = 10,000+++** men and women farmers responding to census / survey Q.

AGRI-GENDER DATABASE / TOOLKIT

INTRODUCTION

Data Items

	SECTION 1	SECTION 2
1 Agricultural population and households	<u>Questionnaire</u>	<u>Table</u>
2 Access to productive resources	<u>Questionnaire</u>	<u>Table</u>
3 Production and productivity	<u>Questionnaire</u>	<u>Table</u>
4 Destination of agricultural produce	<u>Questionnaire</u>	<u>Table</u>
5 Labour and time-use	<u>Questionnaire</u>	<u>Table</u>
6 Income and expenditures	<u>Questionnaire</u>	<u>Table</u>
7 Membership of agricultural/farmer organisations		<u>Questionnaire</u>
		<u>Table</u>
8 Food security	<u>Questionnaire</u>	<u>Table</u>
9 Poverty indicators	<u>Questionnaire</u>	<u>Table</u>

EXAMPLES of news “gender-relevant” results from WCA 2000 and 2010

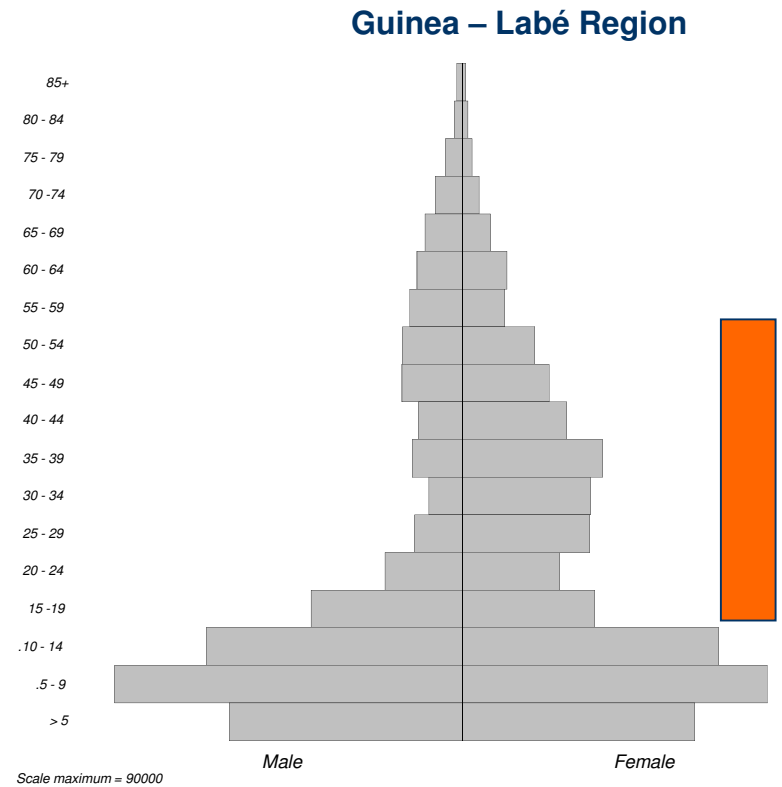
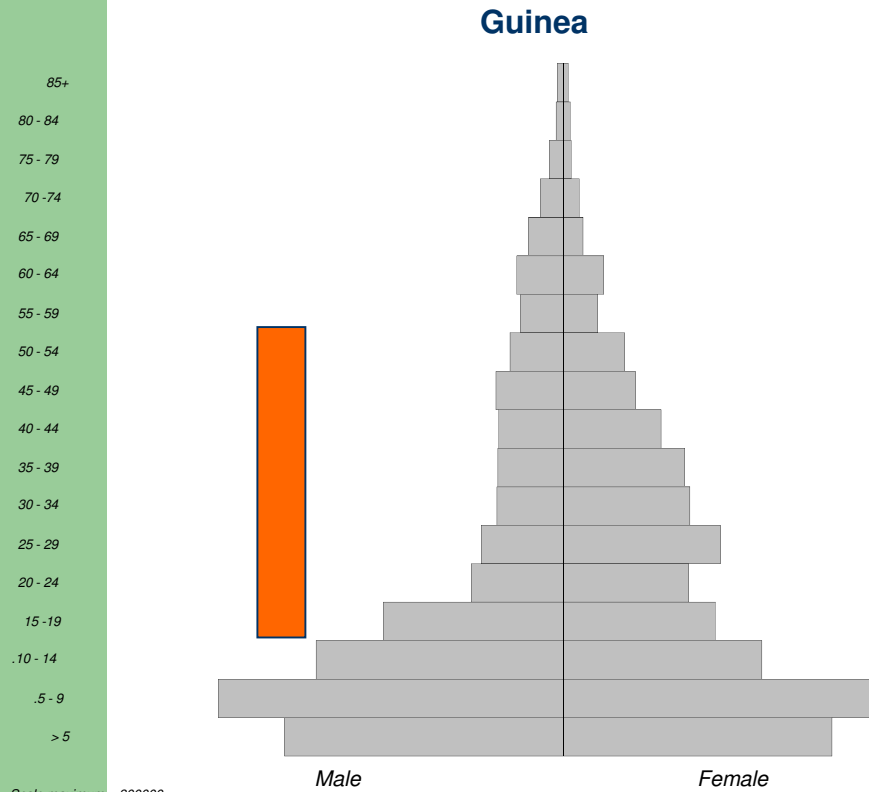
Presentation outline

- Analysis of demographic data
- Access to productive resources
→ *relevance of sub-holder concept*
- Credit, labour and time-use
- Poverty indicators
- Lessons learned

DATA

Demographic data (1) Guinea

FEMINISATION AGRICULTURAL SECTOR





'Standard' format demographic data questions

1	2	3	4	5	6	7	8
			If column 3, code 1				
S/N	Full name (Starting with the head of household)	Is the member of the household a holder 1 = Yes 2 = No	Holder ID	Type of holding 1 = Crop 2 = Livestock 3 = Both	Sex 1 = Male 2 = Female	Relation to the head of household 1 = Head Etc	Age in completed years
		Code		Code		Code	
01							
02							
03							
04							
05							
Etc.							

Demographic data (2) - NIGER

Average FFH: smaller but more dependents

Average size and dependency ratio of agricultural households by sex of Head of Household at regional and national level

Region	Male HoHH		Female HoHH	
	Average size	Dependency ratio	Average size	Dependency ratio
AGADEZ	5,5	0,87	4,0	0,90
DIFFA	5,8	0,84	3,6	0,92
DOSSO	7,6	0,82	4,4	0,89
MARADI	7,7	0,95	3,9	0,96
TAHOUA	6,6	0,86	4,3	1,16
TILLABERY	8,3	0,83	4,5	0,99
ZINDER	5,9	0,85	3,7	1,07
NIAMEY	6,1	0,69	4,8	0,65
Total	6,9	0,86	4,0	1,03

DATA

Demographic data (3) Tanzania

labour constraints in ♀ headed HH

Active male members / sex of HoHH, Tanzania

Selected regions	Male active / sex of HoHH	
	Male HoHH	Female HoHH
Dodoma	1.1	0.3
Mtwara	1.0	0.5
Iringa	1.1	0.2
Mbeya	1.1	0.3
Mara	1.0	0.5
Tanzania	1.1	0.4



Access to productive resources (1) **LAND**

Section 2 : Inventory of plots of agricultural holdings (NIGER)

Identification Plots, farms		Family name & first name of Plotmanager	Sex of Plot manager	Type de plot management	Plot culture history	Type of culture	Type of land tenure	Type of Relief
1	2	3	4	5	6	7	8	9
Field	Plot	Write first and family name of Plotmanager, starting with the HoHH	Male 1 Female 2	Individual 1 Collective 2	cultivated 1 fallow 2	Cul, pur 1 Cult, mixed 2	1 Inheritance 2 Purchase 3 renting or crop sharing 4 Loan 5 Gift 6 Other	1 Plane 2 valley bottom 2 slope
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

DATA

Data / sex of Head of household →

Under - presentation of women farmers' involvement

Area cultivated / crop by sex of agricultural holder

Crops	Holder (Collective fields)	
	M	F
Millet	97	3
Maize	99	1
Rice	98	2
Groundnuts	97	3
Voandzou	96	4
White sorghum	98	2
Red sorghum	97	3
(sub) Total	98	2

DATA

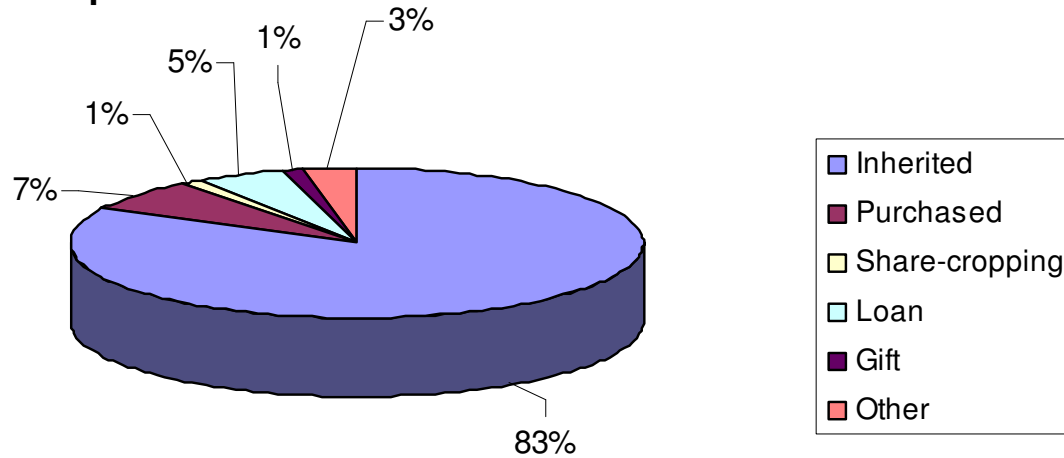
Enhanced presentation of women farmers' work

Area cultivated / crop by sex of agricultural holder and sub-holder

Crops	Holder (Collective fields)		Sub-Holder (Individual fields)		Both (All fields)	
	M	F	M	F	M	F
Millet	97	3	45	55	87	13
Maize	99	1	90	10	89	11
Rice	98	2	65	35	85	15
Groundnuts	97	3	32	68	54	46
Vouandzou	96	4	20	80	50	50
White sorghum	98	2	58	42	90	10
Red sorghum	97	3	55	45	91	9
(sub) Total	98	2	48	52	86	14

RELEVANCE OF SUB-HOLDER

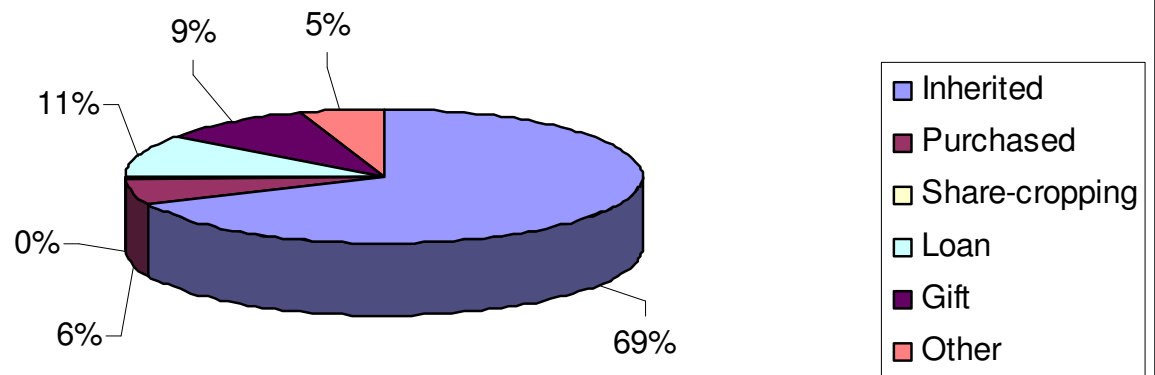
Male holder: Area under collective management per type of acquisition - NIGER



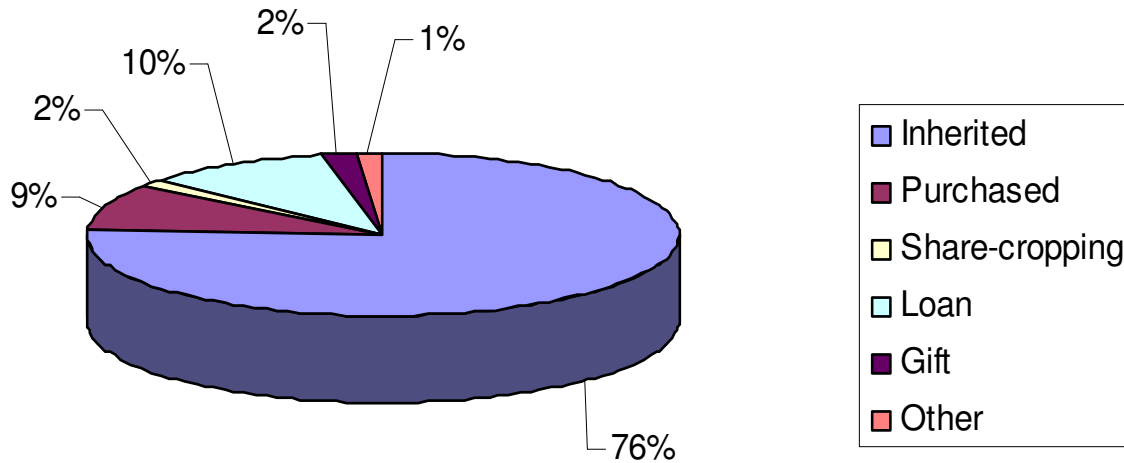
DATA

LAND Collective management / Head of HH

Female holder: Area under collective management per type of acquisition - NIGER

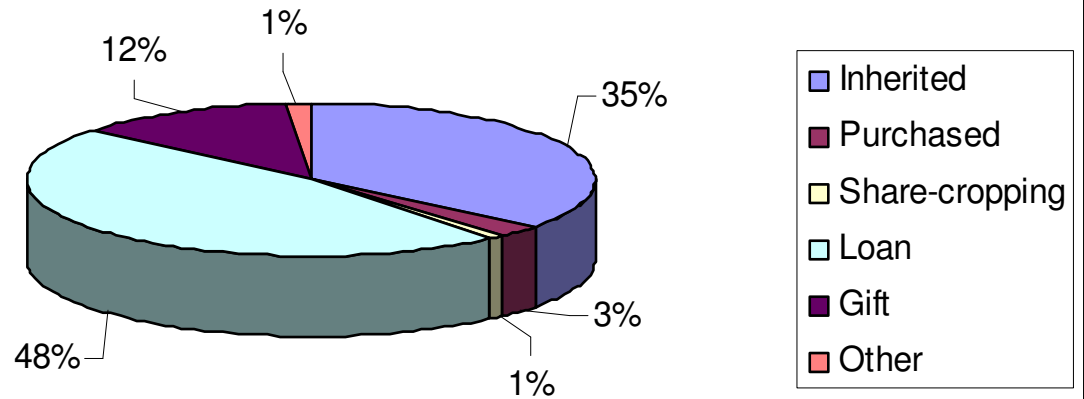


Male sub-holder: Area under individual management per type of acquisition at national level - NIGER



LAND Individual management / active HH members

Female sub-holder: Area under individual management per type of acquisition at national level, NIGER





Access to productive resources (2) **ANIMALS**

Household level question

Section 2 : Number of sedentary animals par kind and sex of owner			
Code	Kind of animal, sex and age	Total number	Number owned by women
1	2	3	4
10	Cattle		
11	Female	_ _ _	_ _ _
12	Male	_ _ _	_ _ _
13	Castrated male	_ _ _	_ _ _
30	Sheep	_ _ _	_ _ _
40	Goat	_ _ _	_ _ _

DATA

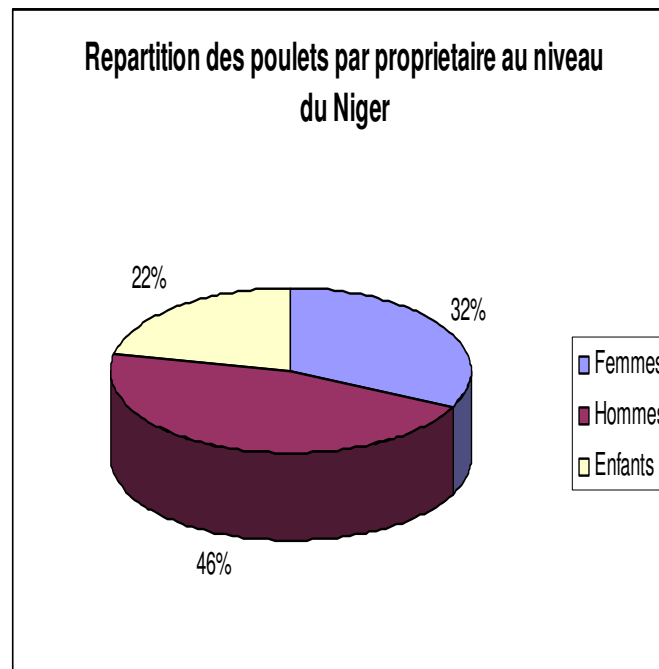
Sedentary animals / type of animal / sex of owner, Niger

cattle		sheep		goats	
Men	Women	Men	Women	Men	Women
77.7 %	22.3 %	60.3 %	39.7 %	45.5 %	54.5 %

Source: RGAC 2004-2007, Niger

Ownership chicken / sex of owner, Niger

Chicken





Access to productive resources (3.1) **CREDIT**

Q 13.1: During the year 2002/2003 did any of the household members borrow money for agriculture?

Yes or no

Q 13.2 If yes, then give details of the credit obtained during the agricultural year 2002/2003 (if the credit was provided in kind, for example by the provision of inputs, then estimate the value)



Access to productive resources (3.2) **CREDIT**

	<i>Credit details</i>	<i>Source "a"</i>	
	<i>Use codes to indicate source</i>	_	
	<i>Provide to Male=1, Female=2</i>	_	
<i>S/N</i>	<i>Use of credit</i>	<i>Tick boxes below to indicate the use of the credit</i>	
13.2.1	<i>Labour</i>	<input type="checkbox"/>	<input type="checkbox"/>
13.2.2	<i>Seeds</i>	<input type="checkbox"/>	<input type="checkbox"/>
13.2.3	<i>Fertilisers</i>	<input type="checkbox"/>	<input type="checkbox"/>
13.2.4	<i>Agrochemicals</i>	<input type="checkbox"/>	<input type="checkbox"/>
13.2.5	<i>Tools/equipment</i>	<input type="checkbox"/>	<input type="checkbox"/>
13.2.6	<i>Irrigation structures</i>	<input type="checkbox"/>	<input type="checkbox"/>
13.2.7	<i>Livestock</i>	<input type="checkbox"/>	<input type="checkbox"/>
13.2.8	<i>Other</i>	<input type="checkbox"/>	<input type="checkbox"/>

Source of credit

1 = Family, friend or relative
2 = Commercial bank

3 = Cooperative
4 = Savings and credit soc.
5 = Trader/trade store

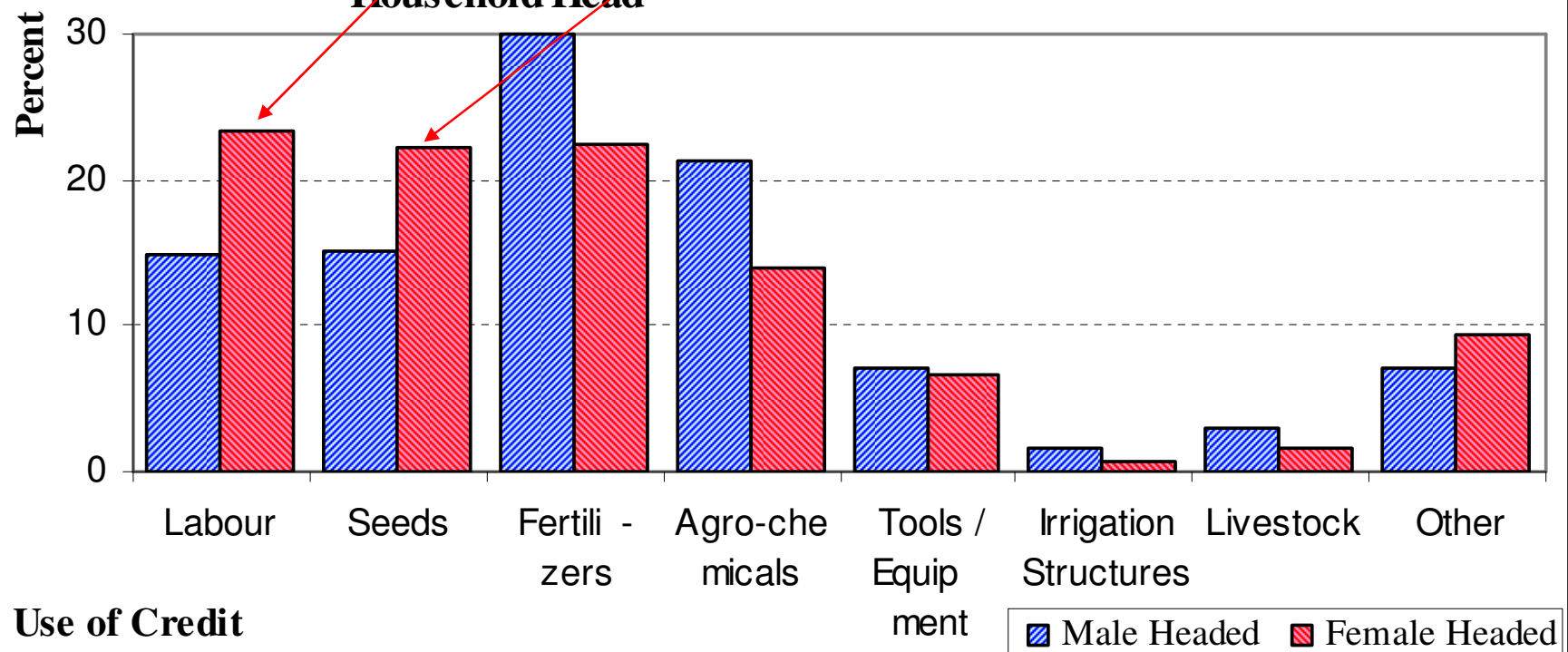
6 = Private individual
7 = Religious organisation/NGO/Project
8 = Other (specify)

DATA

**Female HoHH use credit to hire labour -
to purchase seeds**

TANZANIA

Chart 7.5 Percent of Households that have access to Credit by sex of Household Head





Time-use, Ethiopia

Source: Ethiopian Agricultural Sample Enumeration Miscellaneous Questions – 2001/02 (1994 E.C.)

21 How much time do men and women spend in the household on each of the following agricultural activities? Use the codes given below the table

S/N	Activity	Adults		Children	
		Male (code)	Female (code)	Boys (code)	Girls (code)
21.1	Tilling	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
21.2	Sowing	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
21.3	Weeding	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
21.4	Harvesting	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
21.5	Feeding/Treating	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
21.6	Milking	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
21.7	Marketing of agricultural products	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

Codes:

1 = Not participated

2 = One fourth of the time (1/4)

3 = One half of the time (1/2)

4 = Three fourth of the time (3/4)

5 = Full time

6 = Not applicable

DATA

Division of Labour, Tanzania

Chart 5.17 Percent of Households by Type of Labour - MALE Headed Households

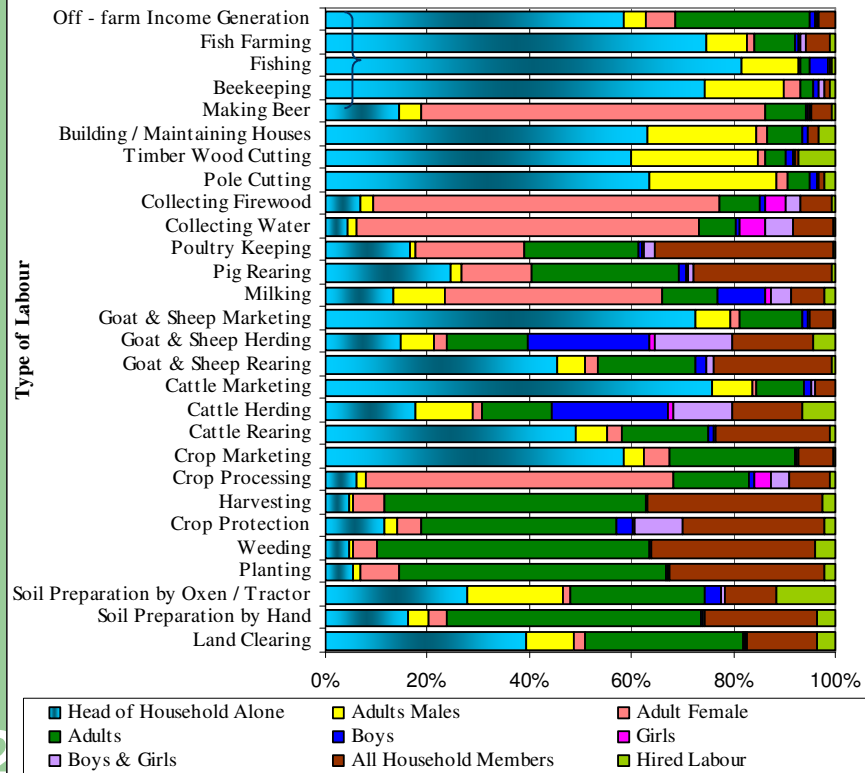
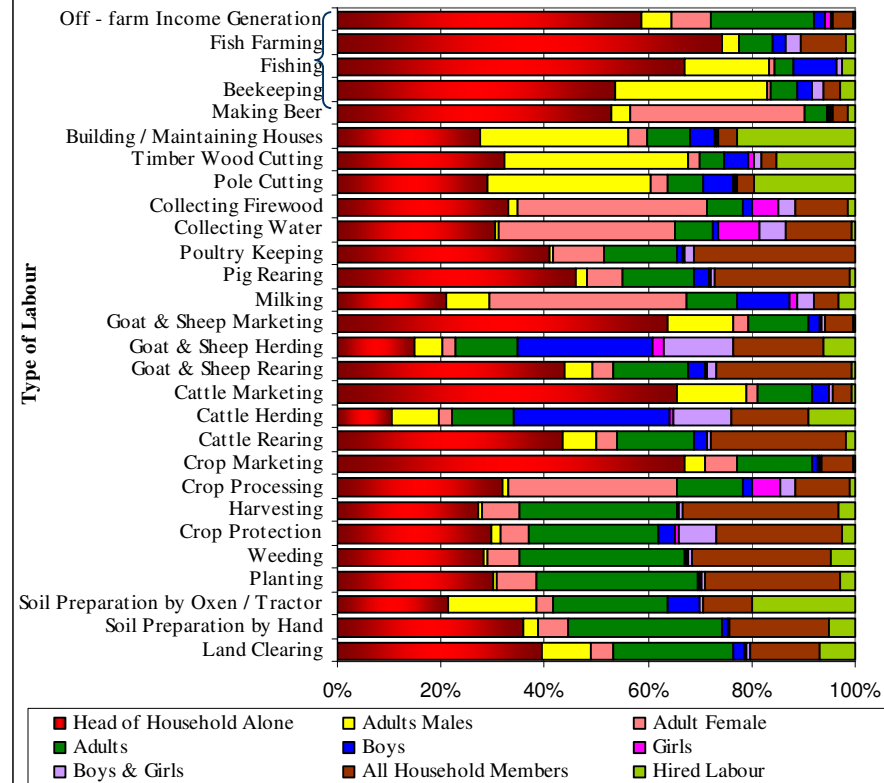


Chart 5.18 Percent of Households by Type of Labour - Female Headed Households





Food security / Poverty indicators **Tanzania**

34.6.1	Number of meals the household normally has per day	<input type="text"/>
34.6.2	Number of days the household consumed meat last week	<input type="text"/>
34.6.3	How often did the household have problems in satisfying the food needs of the household last year (code)	<input type="text"/>

Code 34.6.3

1 = Never

2 = Seldom

3 = Sometimes

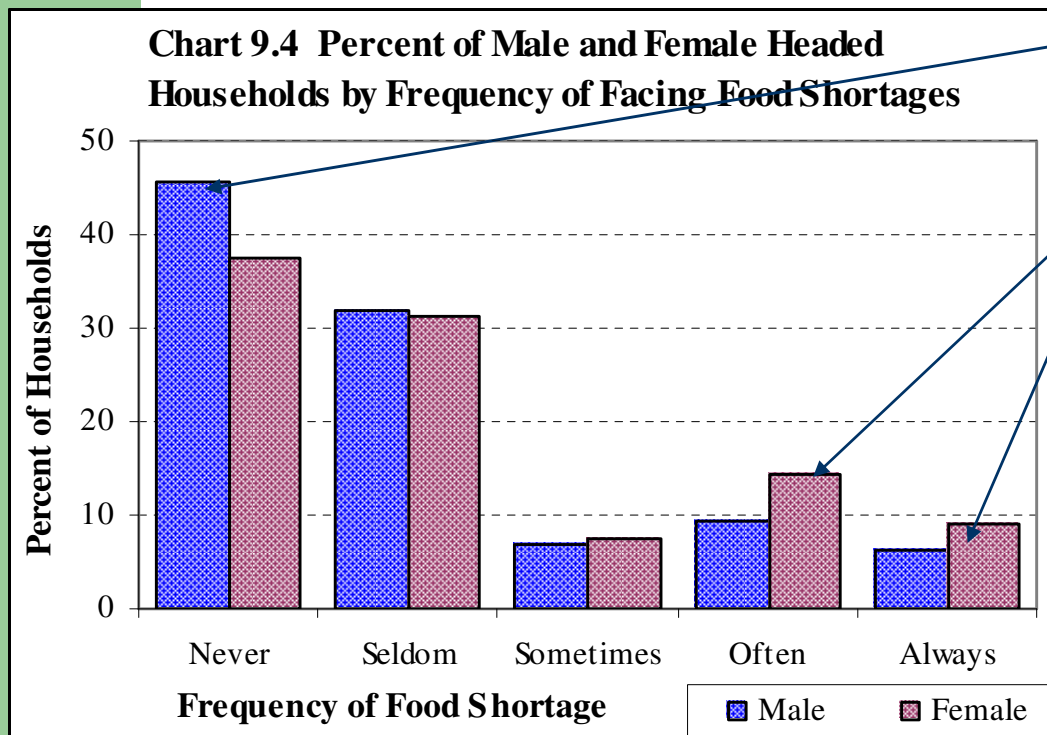
4 = Other

6 = Always

DATA

Food security

Frequency of food shortages, Tanzania



A higher percent male-headed HHs never has food shortage.

A higher percent of female-headed HHs has often or always food shortages.

The same pattern appears in the regions.

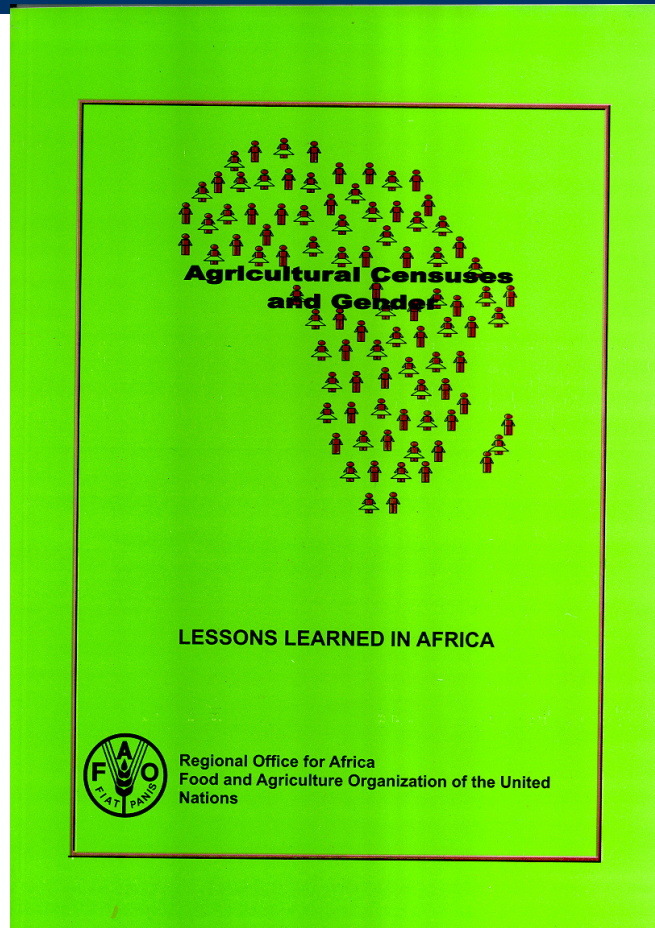
Gender perspective in agricultural census/surveys

- **No technical problems / additional human/financial costs (Senegal 1998/99 Ag census)**
- **Enriches info obtained from data**
- **ENHANCES QUALITY OF DATA**
- **Allows for gender specific planning and M & E agricultural development**



LESSONS LEARNED

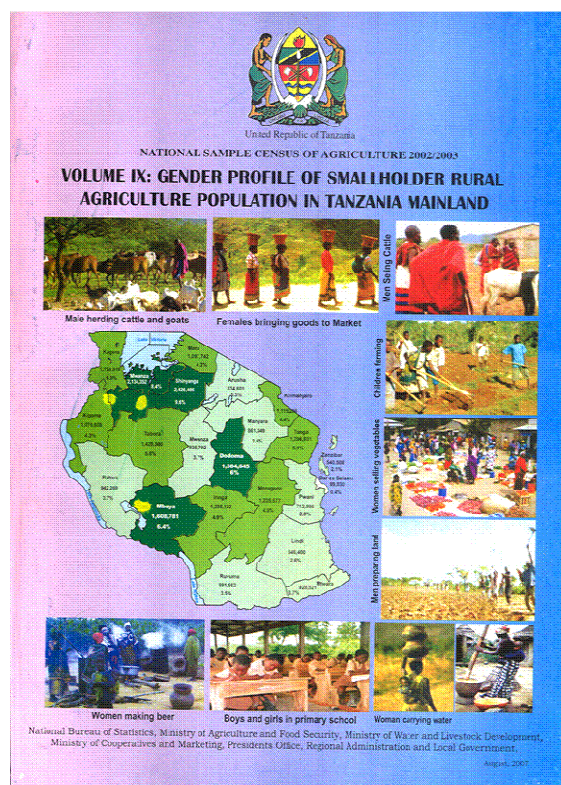
http://www.fao.org/sd/dim_pe1/pe1_051003_en.htm



OUTCOME

THEMATIC CENSUS REPORTS

Tanzania



Niger





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Links agri-gender toolkit



OUTCOME

BROCHURE:

<http://www.fao.org/docrep/012/k8472e/k8472e00.pdf>

TOOLKIT ITSELF:

<http://www.fao.org/gender/agrigender/en>

THANK YOU

Links agri-gender toolkit



OUTCOME

BROCHURE:

<http://www.fao.org/docrep/012/k8472e/k8472e00.pdf>,

TOOLKIT ITSELF:

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