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Accra, Ghana

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*Engendering Agricultural Censuses – Experiences from Africa*

Prepared by

Diana Tempelman  
Senior Officer, Gender and Development  
FAO Regional Office for Africa, Accra  
FAO

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A large, light green decorative shape on the left side of the slide, resembling a stylized letter 'E' or a bracket. It has a white, rounded rectangular cutout in the center.

**Engendering agricultural censuses,**  
*Experience from Africa*

**“Global Forum on  
Gender Statistics”**

Accra, 26 - 29 January 2009

A thick, dark blue horizontal bar with rounded ends, positioned below the event title and above the speaker's name.

**Diana Tempelman**

Senior Officer, Gender and Development  
FAO Regional Office for Africa, Accra

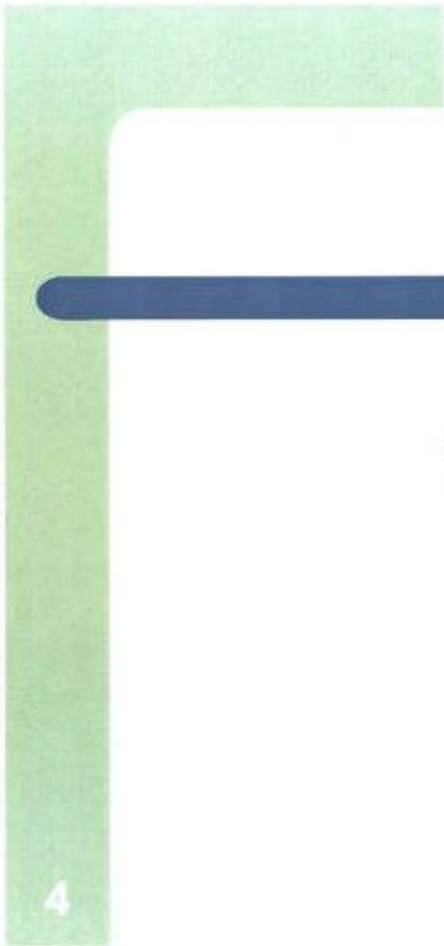
## GENDER CONCERNS IN AGRICULTURAL SECTOR

- Male dominated **rural out-migration**
- Access to **productive resources**: land & animals
- Access to **agricultural inputs**: seeds, fertilizer / agro-chemicals, extension / training, finances, farmers organisations (market-)information
- Access to / provision of **family labour**
- 2 ● **Responsibilities**

## Engendering agricultural statistics

### *Outline of presentation*

1. **Early days** – first half 1990-ies
2. **Developing methodology - WCA 2000**  
(1996-2005)
3. **Consolidation - WCA 2010** (2006 – 2015)
4. **Remaining challenges**



# 1. Early days

(1991-2005, ..., ..)

## 1. Early days — first half 1990-ies

### Early REACTIONS



"Those feminists from Beijing!"

Thought ?

Thought ?

"Yes, women's agricultural work doesn't show in statistics"



## ACTIONS

### 1. Early days — first half 1990-ies

**re-analysing existing raw data**  
data by sex of Head of Holding



**technical support to user-producers  
workshops** availability / demand / users of  
sex-disaggregated agricultural data



**revision of concepts & definitions**

## 1. Early days — first half 1990-ies

**OUTCOME**

- ↑ Awareness on need for sex-disaggregated data
- ↑ Knowledge among statisticians
- ↑ Openness to test collection sex-disaggregated data through existing agricultural surveys / censuses





## 2. Developing a methodology: WCA 2000 (1996-2005)

## ACTIONS

### 2. Developing a methodology: WCA 2000 (1996-2005)

Gender analysis training



Data analysis & presentation at  
sub-national level

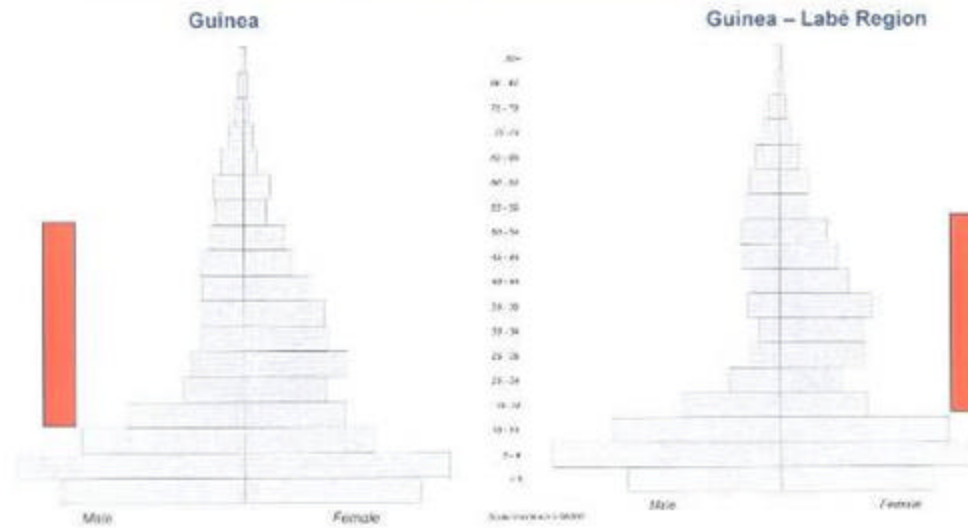
Data presentation at  
sub-household level

**ALL MEMBERS' WORK**



DATA

## FEMINISATION AGRICULTURAL SECTOR



DATA

→ feminisation of agriculture

Heads of agricultural holdings / sex in selected provinces - CAMEROON

Province	Agric. census 1984		Agric. survey '85- '86		Agric. surveys '89 - '90	
	Male	Female	Male	Female	Male	Female
Extreme North	91,8	8.2	91,8	8.2	92,6	7.4
East	91,6	8.4	90,8	9.2	85,6	14.4
Central	77,8	22.2	78,5	21.5	71,8	28.2
South	84,9	15.1	81,1	18.9	71,2	28.8
Coast	79,1	20.9	79,9	20.1	63,2	36.8
West	75,8	24.2	73,6	26.4	66,0	34.0
National	85.4	14.6	85.2	14.8	79,4	20.6

DATA

## 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
<b>Tanzania</b>	<b>1.1</b>	<b>0.4</b>

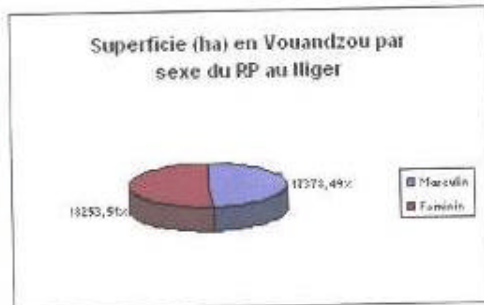
## “Gender” variation at sub-national level

### Area under maize, NIGER



# DATA

## “Gender” variation at sub-national level



→ area under vouandzou, NIGER



DATA

Under - presentation of women farmers' work

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
Vouandzou	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**

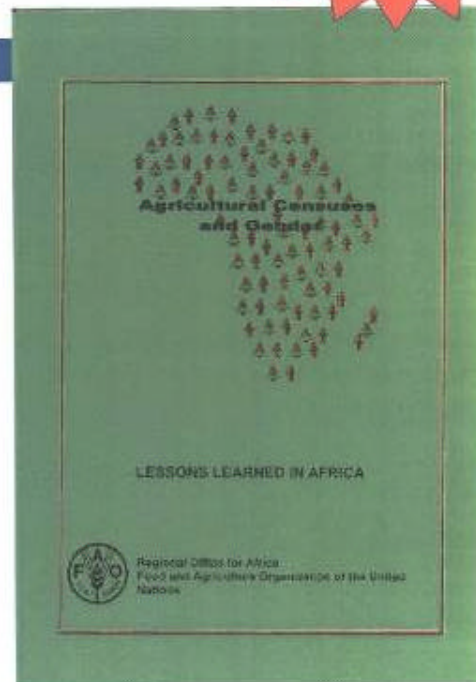
Crops	Holder (Collective fields)		Sub-Holder (Individual fields)		Both (All fields)	
	M	F	M	F	M	F
Millet	97	3	45	55	87	13
Maize	99	1	90	10	89	11
Rice	98	2	65	35	85	15
Groundnuts	97	3	32	68	54	46
Vouandzou	96	4	20	80	50	50
White sorghum	98	2	58	42	90	10
Red sorghum	97	3	55	45	91	9
(sub) Total	98	2	48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

**NEW CONCEPT > PLOT-MANAGERS**

## 2. Developing a methodology: WCA 2000 (1996-2005)

**OUTCOME**

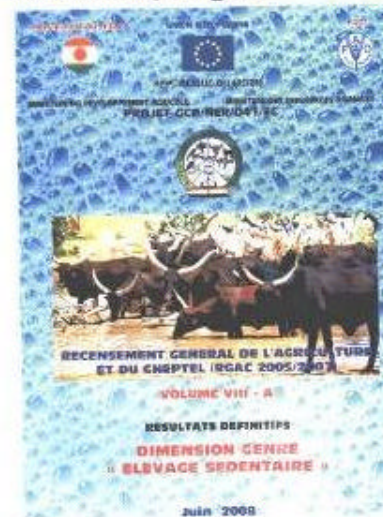
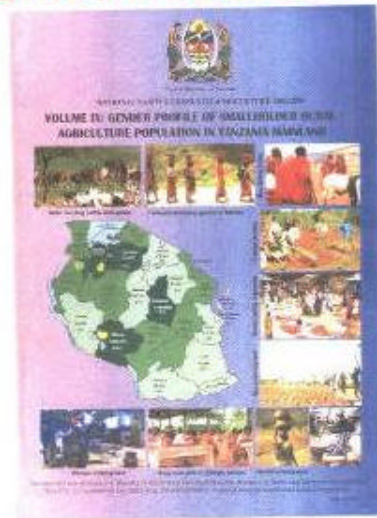
**Lessons learned  
document**



## 2. Developing a methodology: WCA 2000 (1996-2005)

OUTCOME

Thematic census reports: *Tanzania, Niger*





### **3. Consolidation**

**WCA 2010** (2006 - 2015)

### 3. EXAMPLES of *Best practises* from WCA 2010

- i. Analysis of demographic data
- ii. Access to productive resources (/ sex of HoHH & individual)
- iii. Destination of agricultural produce / sex of HoHH (min.)
- iv. Credit, labour and time-use
- v. Poverty indicators

## i - Demographic data - NIGER

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

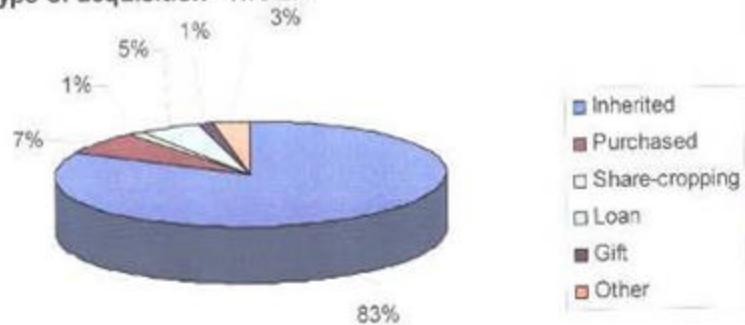


## ii - Access to productive resources, LAND

### 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	Cult. 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"/>

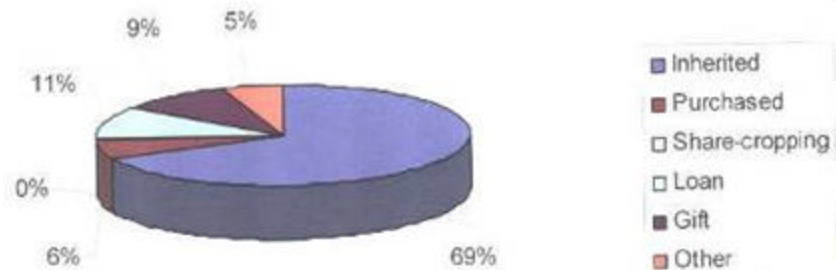
**Male sub-holder: Area under collective management per type of acquisition - NIGER**



**DATA**



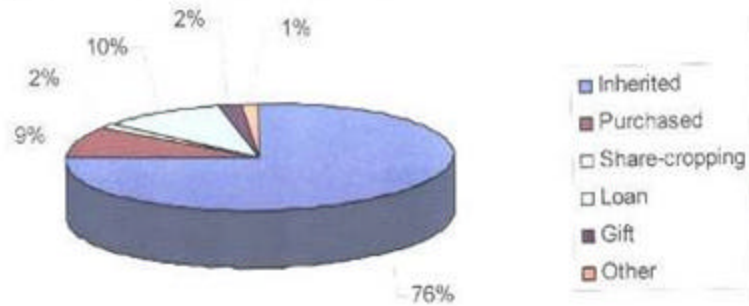
**Female sub-holder: Area under collective management per type of acquisition - NIGER**



**LAND Collective management / Head of HH**



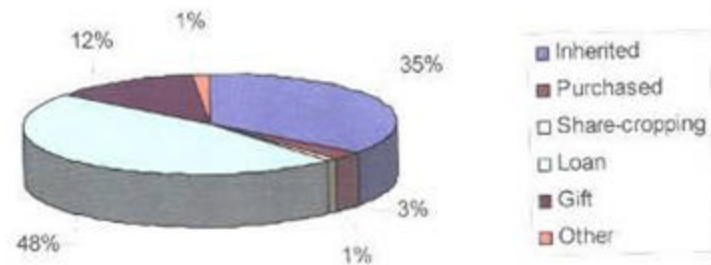
**Male sub-holder: Area under individual management per type of acquisition at national level - NIGER**



**DATA**



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



**LAND Individual management / active HH members**



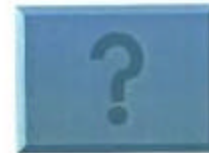
## ii - Access to productive resources: ANIMALS

Socio-demographic data of agricultural households					
Household number	Name of HH member from HoHH	Sex	Family relation	Age	Principal activity <i>Only for HoHH</i>
		1 = Male 2 = Female			1 = Agriculture 2 = Animal production 3 = Agric. & animal prod. 0 = none
2	3	4	5	6	8
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

## DATA

### Agricultural HH / principal activity / sex HoHH, Niger

Principal activity	Male Head of Household				Female Head of household				Total	
	Number	% Niger	%/H	%/ princ. activity	Number	% Niger	%/F	%/ princ. activity	Number	%/ total
Agriculture	172 172	10,8	11,3	95,3	8 434	0,5	7,8	4,7	180 606	11,1
Exclusive animal production	151 203	9,3	10,0	84,4	27 966	1,7	25,9	15,6	179 169	11,0
Agriculture & animal production	1 195 769	73,5	78,7	94,3	71 749	4,4	66,3	5,7	1 267 518	77,9
<b>Total</b>	<b>1 519 144</b>	<b>93,4</b>	<b>100,0</b>		<b>108 150</b>	<b>6,6</b>	<b>100,0</b>		<b>1 627 294</b>	<b>100,0</b>



## ii - Access to productive resources: 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	<b>Cattle</b>		
11	Female	_ _ _	_ _ _
12	Male	_ _ _	_ _ _
13	Castrated male	_ _ _	_ _ _
30	<b>Sheep</b>	_ _ _	_ _ _
40	<b>Goat</b>	_ _ _	_ _ _



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

DATA

Ownership chicken / sex of owner, Niger

-1- Chicken



-2- PINTADES



Ownership pigeons / sex & age of owner, Niger

-3- Ducks



-4- Pigeons





### iii – destination of agricultural produce

#### Part 2 – Crop usage proportions (percentages) ETHIOPIA

1	2	3	4	5	6	7	8	9
Sr. No.	Name of crop		Proportions of total product for					Total
	code	Household consumption	Seed	Sale*	Wages in kind	Animal feed	Other (gifts.)	
0	1							
0	2							
0	3							
0	4							
0	5							
Etc.								



DATA

Destination of birds / sex of HoHH, Niger

Household consumption		Celebrations		Baptism – Marriages - funerals		Other	
Male	Female	Male	Female	Male	Female	Male	Female
3,1	2,4	1,3	1,0	0,8	0,5	0,5	8,0

Source: RGAC 2004-2007, Niger



#### iv – Credit, labour, time-use. Tanzania

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)*



## Use of CREDIT / sex of HH member, Tanzania

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

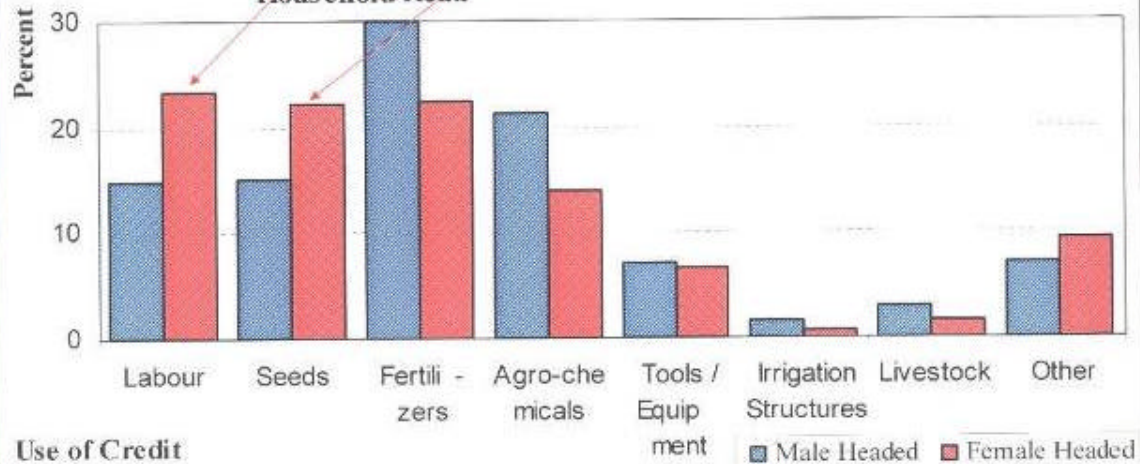
6 = Private individual  
7 = Religious organisation/NGO/Project  
8 = Other (specify) .....

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





## Reasons for not receiving a loan or credit - UGANDA

Reason	Code	Reason
(1)	(2)	(3)
No need for loans	1	<input type="checkbox"/>
Unavailability of lending facility	2	<input type="checkbox"/>
Lack of collateral	3	<input type="checkbox"/>
Interest too high	4	<input type="checkbox"/>
Not profitable	5	<input type="checkbox"/>
Already paid	6	<input type="checkbox"/>
Ignorance	7	<input type="checkbox"/>
Negative past experience	8	<input type="checkbox"/>
Others, specify .....	9	<input type="checkbox"/>



## iv 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="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
21.2	Sowing	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
21.3	Weeding	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
21.4	Harvesting	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
21.5	Feeding/Treating	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
21.6	Milking	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
21.7	Marketing of agricultural products	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Codes:

1 = Not participated

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

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

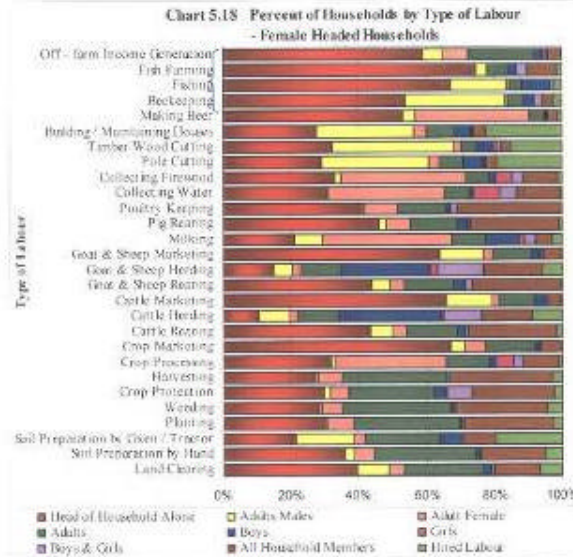
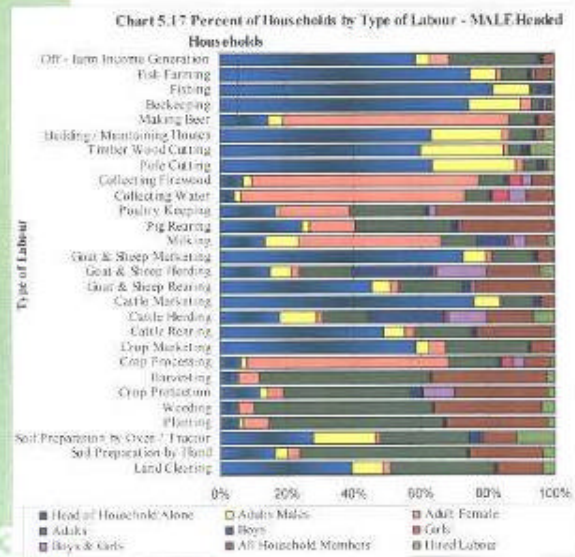
4 = Three fourth of the time (3/4)

5 = Full time

6 = Not applicable

# DATA

## iv - Division of Labour, Tanzania





## V – 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

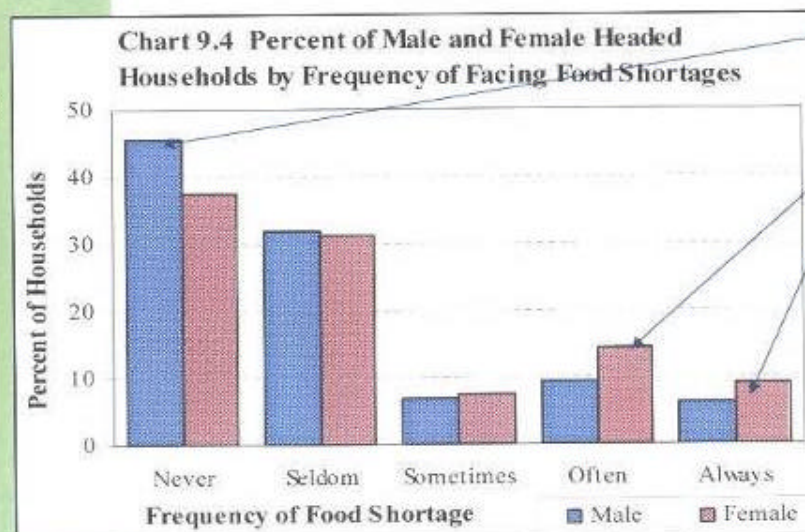
3 = Sometimes

4 = Other

6 = Always



## Frequency of food shortages, Tanzania



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

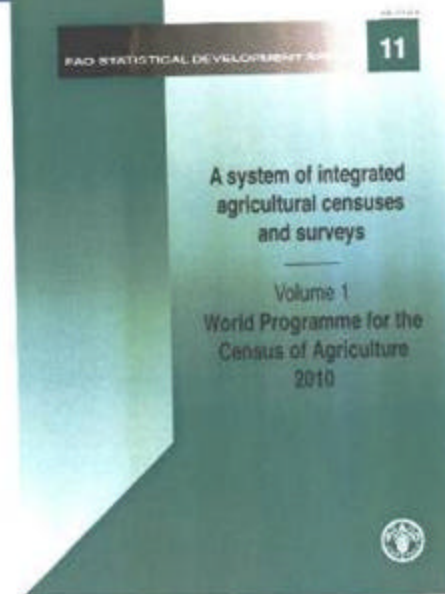
**A higher percent of female-headed HHs has often or always food shortages.**

**The same pattern appears in the regions.**

**ACTIONS**

**3. Consolidation phase  
WCA 2010 (2006 – 2015)**

**Integration into:  
FAO STATISTICAL  
DEVELOPMENT SERIES**



## ACTIONS

### 3. Consolidation – WCA 2010 (2006 – 2015)

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

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



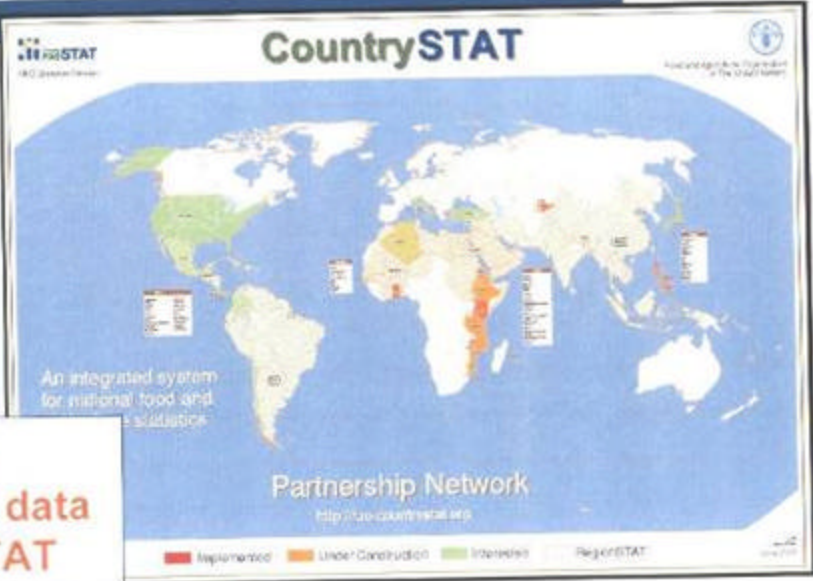
November 2007

Forthcoming



**ACTIONS**

### 3. Consolidation – WCA 2010 (2006 – 2015)



**Reinforcing  
sex-disaggregated data  
in COUNTRY STAT**



## 4. Remaining challenges

## Discussion points

### Remaining challenges

↑ **analysis** of available sex-disaggregated data



↑ **use** sex-disaggregated data – policy-making, implementation & impact assessment

## Discussion points

### Remaining challenges

↑ **integration** national  
statistical systems



↑ Progress & impact **indicators**

## Discussion points

### Remaining challenges

## IMPROVED DATA COLLECTION

- Labour



- Decision-making



- Responsibilities





**THANK YOU**