



Training Workshop on Linking Population and Housing Censuses with Agricultural Censuses


TOPIC:

- ▶ Using the population census as a household frame for the agriculture census or other agriculture surveys.

Objective

- ▶ What information is in the Population & Household Census?
- ▶ How it may be useful to share with Agriculture department?
- ▶ Where do NSO stand in all this?

Census of Population & Households

- ▶ Planning & Preparatory Work
 - ▶ Enumeration, data capturing, data processing
 - ▶ Dissemination of Results
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A Household Listing form

Appendix 2:

KIRIBATI ISLANDS HOUSEHOLD LISTING FORM 2010 POPULATION CENSUS

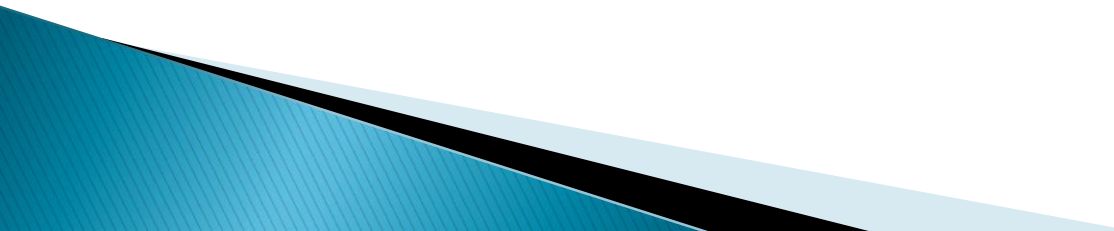
ISLAND South Tarawa
VILLAGE Bairiki
EA 67-1

HHold number	GPS Sticker		Name of Household Head	Household Members			Comment
	new	old		Male	Female	Total	
1	G05601	067065	Kaoni Mirian	2	2	4	
2	G05602	067066	Moatei Roota	3	1	4	
3	G05603	067039	Kaua Tabunimai	1	2	3	
4	G05604	067040	Martin Biine	3	3	6	
5	G05605	067067	Temaroiti Tebwara	3	5	8	
6	G05606	067068	Aoti Teitabu	2	2	4	
7	G05607	067043	Anii Romatua	5	3	8	
8	G05608	067071	Animerea Takebu	3	3	6	
9	G05609	067041	Bwatio Aari	5	3	8	
10	G05610	067072	Teangiraai Arobati	5	4	9	
11	G05611	067037	Bwerebwaa Ribua	2	3	5	
12	G05612	067038	Antonio Riria	4	1	5	
13	G05613	067069	Mannei Biriiaam	5	9	14	
14	G05614	067070	Tiaon Rotitaake	3	3	6	
15	G05615	067042	Ps Metutera	2	3	5	
16	G05616	067014	Teiokara Nnakina	1	2	3	
17	G05617	067005	Joe Kamaua	1	6	7	
18	G05618	067036	Tearinibeia Eno Teabo	4	5	9	
19	G05619	067010	Teanibuaka Janet	7	9	16	
20	G05620	067013	Rotitaake Tebiria	3	3	6	
21	G05621	067035	Teniko Abera	0	0	0	
22	G05622	067009	Buren	0	0	0	
23	G05623	067008	Taeri Bwaotanoa	3	5	8	
24	G05624	067034	Tokanimaro Ekenano	5	11	16	
25	G05625	067012	Oroiti Alexander	8	5	13	
26	G05626	067004	Bouatoa Tabwaketi	4	4	8	
27	G05627	067003	Engiran Uta	3	4	7	
28	G05628	067011	Kabwaia Tentau	4	6	10	
29	G05629	067033	Buraoranti Sivo	6	6	12	
30	G05630	067007	Aonta Kauongo	4	6	10	
31	G05631	067032	Randolph Nawere	4	4	8	
32	G05632	067006	Tenono Benuakai	3	2	5	
33	G05633	067002	Meere Iotebwa	6	6	12	
34	G05634	067001	Ueara Rine	3	5	8	
35	G05635	067026	Teburenga Teken	3	4	7	
36	G05636	067027	Mareta Tiito	5	4	9	
37	G05637	067028	Genevieve Raimon	3	4	7	
38	G05638	067025	Temarontau Ruuka	7	4	11	
39	G05639	067029	Moritio Baraniko	4	3	7	
40	G05640	067031	Ariteta Taaketi	4	6	10	
41	G05641	067024	Mareko Tekarika	5	9	14	
42	G05642	067095	Ioana Amota	4	3	7	
43	G05643	067030	Harry Langley	4	2	6	
44	G05644	067023	Mwaaauoua Riannaba	6	7	13	

Codes for Comments (column 6):

1. Completed	3. Permanent move out	5. House Destroyed	7. Refused
2. Temporary move out	6. House occupied/Vacant	6. House not found	8. Postponed

From the Household Listing

- ▶ Imaginary boundaries of Enumeration Areas were set and only census workers understand this and use it for ensuring all household within boundaries are enumerated.
 - ▶ On the outer islands, same idea, however most EA is defined clearly as where village boundaries are. Only a few cases where too many households can create > 1 EA in that village.
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Enumeration Area – Bairiki Map



Questionnaire contents

- ▶ In 2010, the questions concerning agriculture was more like baseline questions, however they ask about:
 - Housing and Lands
 - Food crops grown by households
 - Livestock such as pigs and chicken
 - Capital goods
 - Fishing access
 - etc

HOUSEHOLD AND HOUSING (If there are more than 6 people in HH, complete this section for 1st form ONLY)

H1. Type of living quarters

- 1 ☐ One family house detached from any other house
 2 ☐ One family house attached to one or more houses
 3 ☐ Building with two or more apartments
 4 ☐ Building with two or more HH which share a kitchen/toilet
 5 ☐ Dwelling attached to a shop or other non-residential building
 6 ☐ Lodging house
 7 ☐ Other

H2. Housing and Lands

- a. Main house construction? 1. Permanent, 2. Local 3. Combination, 4. Other
 1 ☐ 2 ☐ 3 ☐ 4 ☐
 b. House owner? 1. Government, 2. Council, 3. Private Own, 4. Private Rent, 5. Other
 1 ☐ 2 ☐ 3 ☐ 4 ☐ 5 ☐
 c. Right over land? 1. Own, 2. Government lease, 3. Private lease, 4. Personal agreement 5. Other
 1 ☐ 2 ☐ 3 ☐ 4 ☐ 5 ☐
 d. Age of building in years

H3. Main material used for:

- Wood Metal Concrete, cement, brick Traditional materials Other
 a. Construction of walls 1 ☐ 2 ☐ 3 ☐ 4 ☐ 5 ☐
 b. Construction of floor 1 ☐ 2 ☐ 3 ☐ 4 ☐ 5 ☐
 c. Construction of roof 1 ☐ 2 ☐ 3 ☐ 4 ☐ 5 ☐

- d. Number of rooms? 1 ☐ 2 ☐ 3 ☐ 4 ☐ 5+ ☐

H4. Does this household grow? (Check box)

- | | near by | else-where | | near by | else-where |
|-----------------------------------|--------------------------|--------------------------|------------------|--------------------------|--------------------------|
| a. Breadfruit | <input type="checkbox"/> | <input type="checkbox"/> | b. Te boro | <input type="checkbox"/> | <input type="checkbox"/> |
| c. Bobai | <input type="checkbox"/> | <input type="checkbox"/> | d. Te kima | <input type="checkbox"/> | <input type="checkbox"/> |
| e. Banana | <input type="checkbox"/> | <input type="checkbox"/> | f. Coconut dwarf | <input type="checkbox"/> | <input type="checkbox"/> |
| g. Papaya | <input type="checkbox"/> | <input type="checkbox"/> | h. Coconut local | <input type="checkbox"/> | <input type="checkbox"/> |
| i. Sweet potatoes | <input type="checkbox"/> | <input type="checkbox"/> | j. Cabbage | <input type="checkbox"/> | <input type="checkbox"/> |
| k. Does this household cut today? | <input type="checkbox"/> | <input type="checkbox"/> | l. Other | <input type="checkbox"/> | <input type="checkbox"/> |

H5. Livestocks and pets?

- | | local breed | cross breed | exotic | |
|---|----------------------|----------------------|----------------------|--|
| a. how many pigs does this HH have? | <input type="text"/> | <input type="text"/> | <input type="text"/> | c. how many dogs? <input type="text"/> |
| b. how many chickens does this HH have? | <input type="text"/> | <input type="text"/> | <input type="text"/> | |

H6. CAPITAL GOODS: How many does this household own in good order?

- | | | | | |
|--|---|--|--|---|
| 1 <input type="checkbox"/> Car | 2 <input type="checkbox"/> Motorcycle | 3 <input type="checkbox"/> Bus | 4 <input type="checkbox"/> Truck | 5 <input type="checkbox"/> Bicycle |
| 6 <input type="checkbox"/> Fridge/Freezer | 7 <input type="checkbox"/> Gas stove | 8 <input type="checkbox"/> DVD Deck | 9 <input type="checkbox"/> Generator | 10 <input type="checkbox"/> Cassette Player |
| 11 <input type="checkbox"/> Radio | 12 <input type="checkbox"/> CB Radio | 13 <input type="checkbox"/> Mobile Phone | 14 <input type="checkbox"/> Telephone | 15 <input type="checkbox"/> Internet connection |
| 16 <input type="checkbox"/> Computer | 17 <input type="checkbox"/> TV screen with no TV connection | 18 <input type="checkbox"/> TV screen with TV connection | 19 <input type="checkbox"/> Solar system | 20 <input type="checkbox"/> Boat |
| 21 <input type="checkbox"/> Canoe | 22 <input type="checkbox"/> Outboard engine | 23 <input type="checkbox"/> Skiff (wa uua) | 24 <input type="checkbox"/> Fishing nets | 25 <input type="checkbox"/> Water pump manual |
| 26 <input type="checkbox"/> Water pump solar | 27 <input type="checkbox"/> Water pump electric | 28 <input type="checkbox"/> te un | 29 <input type="checkbox"/> te mas | 26 <input type="checkbox"/> Karosene stove |

H7. Main form of Household solid waste disposal

- 1 ☐ Road side point 2 ☐ Community pile point 3 ☐ Beach 4 ☐ Sea
 5 ☐ Ground pit (te marua) 6 ☐ Burn 7 ☐ Other places

H8. Main source of cooking energy

- 1 ☐ Copra mill residual 2 ☐ Karosene 3 ☐ Wood/coconut shells
 4 ☐ Gas 5 ☐ Other 6 ☐ Electricity

H9. Main source of lightning

- 1 ☐ Solar 2 ☐ PUB power (electricity) 3 ☐ Karosene
 4 ☐ Own generator 5 ☐ Other

H10. Main source of drinking water

- 1 ☐ Rain water tank 2 ☐ Pipe system (PUB) 3 ☐ Open well water
 4 ☐ Protected well water 5 ☐ Bottle water (shop) 6 ☐ Other

H11. Main source of washing water

- 1 ☐ Rain water tank 2 ☐ Pipe system (PUB) 3 ☐ Open well water
 4 ☐ Protected well water 5 ☐ Other

H12. Does this household catch fish by? (1. Yes, 2.No)

- | | | | |
|-----------------------------|---|----------------------------|---|
| a. Collecting on ocean flat | 1 <input type="checkbox"/> 2 <input type="checkbox"/> | b. Collecting on reef flat | 1 <input type="checkbox"/> 2 <input type="checkbox"/> |
| c. Ocean fishing | 1 <input type="checkbox"/> 2 <input type="checkbox"/> | d. Reef fishing | 1 <input type="checkbox"/> 2 <input type="checkbox"/> |
| e. Net fishing | 1 <input type="checkbox"/> 2 <input type="checkbox"/> | | |

H13. Main toilet facility

- 1 ☐ Flush toilet pub system 2 ☐ Flush toilet own septic 3 ☐ Pit latrine 4 ☐ beach
 5 ☐ Atollote kamkamka 6 ☐ Sea 7 ☐ Bush 8 ☐ Other

H14. Does this household have a sewer?

- 1 ☐ Yes 2 ☐ No

H15. Does this household segregate (separate organic, inorganic and recyclable waste) its solid waste before collection by the council?

- 1 ☐ Yes 2 ☐ No

H16. CASH INFLOW: Did any member of this HH receive cash in these ways in the last month?

1. Yes, 2. No

- | | | | |
|-----------------------------------|---|----------------------|---|
| a. Wages/salary | 1 <input type="checkbox"/> 2 <input type="checkbox"/> | b. Rent of building | 1 <input type="checkbox"/> 2 <input type="checkbox"/> |
| c. From women remittance | 1 <input type="checkbox"/> 2 <input type="checkbox"/> | d. Rent of land | 1 <input type="checkbox"/> 2 <input type="checkbox"/> |
| e. Sale of fish/crops/handicrafts | 1 <input type="checkbox"/> 2 <input type="checkbox"/> | f. Other remittances | 1 <input type="checkbox"/> 2 <input type="checkbox"/> |

g. Own business (please specify)

H17. Have any residents of this household died during the last 3 years?

- 1 ☐ Y 2 ☐ N 3 ☐ Don't Know If "Y" then provide details below:

Sex	Age	Date of death
1 <input type="checkbox"/> M 2 <input type="checkbox"/> F	<input type="text"/>	DD / MM / YYYY
1 <input type="checkbox"/> M 2 <input type="checkbox"/> F	<input type="text"/>	DD / MM / YYYY
1 <input type="checkbox"/> M 2 <input type="checkbox"/> F	<input type="text"/>	DD / MM / YYYY

If Female aged 15-49 at the time of death was she? 1. Yes, 2. No, 3. Don't know

- | | |
|---|--|
| a. Pregnant | 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> |
| b. Giving birth | 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> |
| c. Within 6 weeks after pregnancy or childbirth | 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> |

Total persons enumerated in this HH

	Name	Signature	Date
MALES	<input type="text"/>	Interview Completed (Enumerator)	
FEMALES	<input type="text"/>	Form Checked (Supervisor)	
TOTAL	<input type="text"/>	Form checked (Office editor)	

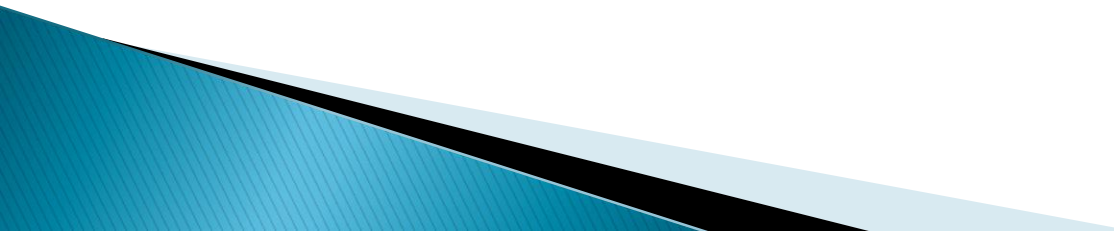
Sample Frame

- ▶ Information can be shared to give at least a sample frame to carry out any sampling techniques for surveys such as with NSO the HIES and with others probably agriculture survey.

Census Framework

- ▶ Census questionnaire can include agriculture questions to optimise the use of resources
 - Expertise in labour
 - Equipment
 - Information
 - And most of all Fund available

Users of Results from the Census

- ▶ From the preparatory work in delineation, household listing, and GIS mapping can enable other departments or studies to carry out surveys or use similar method to carry out their own census.
 - ▶ Questionnaire design is the stage where integrating agriculture census should be incorporated with population & housing census.
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Way forward...

Whether census or survey is to be carried out

- ✓ It depends entirely on the proposals in line with what each gov't department had decided for their development or
- ✓ the priority of the government and the aid-donors.

Kiribati Development Plan 2012–2015

► Issues(4.3): Food Insecurity

Declining # of high yield and productive food

Strategies:

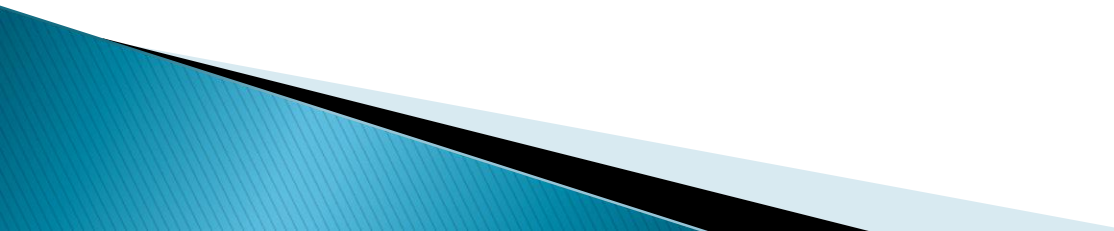
- Increase # of coconut trees, other food crops,
- Improve livestock facilities and breeds
- Promote research on best agricultural practices including food crops varieties that withstand impacts of climate change
 - Key Expected Output:
 - Increase # of high yield and productive food crops and livestock production

► Responsible Ministries: (leading roles)

► Ministry of Environment and Land Agriculture Development

► Ministry of Internal Affairs & Social Development

Our Role as Statisticians

- ▶ As in leading roles: is to provide statistics that are crucial for KDP M&E indicator framework to support actions and results. These statistics will be generated through regular national surveys & censuses.
 - ▶ Our supporting roles: is to provide ongoing day to day non routine data through monitoring on completed activities and outputs produced .
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Thank you all