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# Environmental Change in South Central Chibuto Southern Mozambique 1965-2000

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## APPENDICES

**Appendix 1:** Questionnaire: Land-use change in South Central Chibuto, 1965-2000, and local livelihoods.

Province……..

District…….

Village…….

Location……..

Name of the head of the household……..

### I DEMOGRAPHY

**Q. 1. A Age and sexual structure of the enquired households**

| Category | <5 years | 5-15 years | 15-50 Years | >50 years |
|---|---|---|---|---|
| Men | | | | |
| Women | | | | |
| Total | | | | |

**Q.1. B) Children of school age**

| Category | Lower primary | Upper primary | Secondary | Total |
|---|---|---|---|---|
| Boys | | | | |
| Girls | | | | |
| Total | | | | |

**Q, 2. What kind of houses does the household have (roofs of zinc, walls of cement, reeds or adobe: floors of cement or earth)?**

| House | Roof | Walls | Floor |
|---|---|---|---|
| 1 | | | |
| 2 | | | |
| 3 | | | |
| 3 | | | |

**Q. 3. What type of lighting and heat source does the household use?**

**Q. 4. What kind of toilet does the household use?**

| Type | No |
|---|---|
| Flush | 1 |
| Latrine | 2 |
| Other | 3 |

**Q. 5. What kind of livestock does the household own?**

| Type | No | Quantity |
|---|---|---|
| Cattle | 1 | |
| Goats | 2 | |
| Pigs | 3 | |
| Other, specify…. | 4 | |

**Q. 6 What kind of water source does the household use?**

| Type | No |
|---|---|
| Piped inside | 1 |
| Piped outside | 2 |
| Communal piped | 3 |
| Communal pump | 4 |
| Open Well | 5 |
| Rainwater tank | 6 |
| Other | 7 |

**Q. 7 How far from the house is the source of water?**
**Q.8 What kind of fuel (for cooking, heating) does the household use?**

| Type | No |
|---|---|
| Electric | 1 |
| Gas | 2 |
| Paraffin | 3 |
| Charcoal | 4 |
| Timber | 5 |
| Crop residue | 6 |
| Other | 7 |

**Q. 9 How far from the house is the source of fuel wood?**

**III LAND - USE AND COVER**

**Q.10 How did you get the land you cultivate?**

| **Type** | **No** |
|---|---|
| Inherited | 1 |
| Borrowed | 2 |
| Given by the Government | 3 |
| Bought | 4 |
| Other | 5 |

**Q.11 How big is the farm you cultivate? (compare with the residential space, 30*40m)……..**
*Serra* farms……
*Bila* farms**…….**

**Q.12. What kind of crops do you cultivate in the farms? (both close to settlement and some distance)……..**

**Q. 13 What kind of garden fruit trees does the household own (in the residence)?**

| **Type** | **No** |
|---|---|
| Cashew | 1 |
| Mafurra | 2 |
| Mango | 3 |
| Other, specify……... | 4 |

**Q.14 What kind of garden crops does the household own (in the residence)?**

| **Type** | **No.** |
|---|---|
| Cassava | 1 |
| Beans | 2 |
| Sweet potatoes | 3 |
| Other, specify……. | 4 |

**Q. 15 Who cultivates the land in the household?**

| **Type** | **No** |
|---|---|
| All members | 1 |
| Only female | 2 |
| Wage paid | 3 |
| Collective work | 4 |

**Q. 16 What kind of land-use prevailed when you settled this place for the first time?**

| Type | No. |
|---|---|
| Forest | 1 |
| Somebody else farm | 2 |
| Fallow land | 3 |
| Other | 4 |

**Q.17 How adequate are the harvests for subsistence?**

| Situation | No |
|---|---|
| Never | 1 |
| Adequate in rainy years | 2 |
| Always adequate | 3 |

**Q. 18 What have been the causes of shortage of food?**

| Cause | No |
|---|---|
| Floods | 1 |
| Droughts | 2 |
| Pests | 3 |
| Land shortages | 4 |
| Poor land | 5 |
| Shortage of seeds | 6 |
| Shortage of tools | 7 |
| Shortage of labour | 8 |
| Other | 10 |

**Q. 19 Besides income from agriculture does the household receive any remittance from outside?**

| Type | No |
|---|---|
| Wages locally earned | 1 |
| Labour migration | 2 |
| Pensions locally | 3 |
| Pensions from labour migration | 4 |
| Other | 5 |

**Q. 20 If you have farmed cattle before why are you not farming cattle now?**

| Causes | No |
|---|---|
| Shortage of pastures | 1 |
| robbed | 2 |
| I have sold it | 3 |
| Lack of labour | 4 |
| Other | 5 |

**Q.21 When did you start to experience shortage of fuel wood?**

| Period | No |
|---|---|
| Before Independence | 1 |
| After before war | 2 |
| During the war | 3 |
| After war | 4 |

**Q. 22. Compare living conditions now and before the construction of the villages.**

| Issue | Better now | About the same | Better before | I don't know |
|---|---|---|---|---|
| Leadership | 1 | 1 | 1 | 1 |
| Availability of land | 2 | 2 | 2 | 2 |
| Distance from water sources | 3 | 3 | 3 | 3 |
| Pastures | 4 | 4 | 4 | 4 |
| Health care | 5 | 5 | 5 | 5 |
| Schools | 6 | 6 | 6 | 6 |
| Commerce | 7 | 7 | 7 | 7 |
| Crime | 8 | 8 | 8 | 8 |
| Other | 9 | 9 | 9 | 9 |

**Q. 23. If you are a displaced by the war, why are you not returning home?**

| Reasons | No. |
|---|---|
| I fear land mines | 1 |
| School children | 2 |
| Employment | 3 |
| I am used to the place | 4 |
| Other, specify | 5 |

**III SOCIAL SERVICES**

**Q. 24 What kind of problems do the local hospital face?**

| Type | No |
|---|---|
| Lack of professionals (doctors, nurses, specialists, etc) | 1 |
| Lack of medicine | 2 |
| Distance from home | 3 |
| Other, specify……. | 4 |

**Q. 25 If you do have school children outline some of the problems you think local schools face?**

| Type | No |
|---|---|
| Bad teachers | 1 |
| Poor facilities | 2 |
| Fees are expensive | 3 |
| Other, Specify | 4 |

**Appendix 2.** Questionnaire on the year 2000 catastrophic floods in the Chimundo resettlement camp

**Q1 Location**
Province……District…….
Town……
Quarter……

**Q. 2 Name of the head of the household……..**
1. Single……
2. Married…….
3. Divorced…….
4. Whidow……..

**Q. 3 The size of the household**
1. Male……
2. Female……
3. Total……..
**Q. 4 Location, where were you affected by the floods?……..**

**Q. 5 Where were you rescued?**
1. Inside your house…….
2. On top of tree……
3. Other place, where?.....

**Q. 6 Houses impacts**
1. Cement houses……
2 Reed walls and zinc roof houses……
3 Huts……

**Q. 7 Livestock loss**
1. Cattle
2. Goats
3. Sheeps
3. Pigs
4. Other, specify…….

**Q.8 Agriculture**

1. Affected farms (number of plots)……..
2. The size of the farms (Compare with the resettlement camp plot of 30.40m)……

**Q. 9 Type of crops**

1. Maize
2. Pumpkins
3. Sweet potatoes
4. Other crops, specify……

**Q. 10 Other losses;**

1. Car
2. Tractor
3. Motorcycle
4. Bicycle
5. Ploughs
6. Hoes
7. Spade
8. Table
9. Chairs
10. Beds

**Q. 11 What other valuables you would like to mention……**

**Q.12. How long have lived in the area affected by the floods?……**
**Q.13. Where were you during the 1977 floods ?……**
**Q.14. Where were you during the war?……..**
**Q.15. If you have ever lived in a communal village why did you abandon it?…….**
**.**

**Q. 16 After the floods, what resource assets have you recovered?……**

**Q.17 Which kind of assistance have you or are you receiving?**
**Source:…….**

1. Type of house……..
2. Cattle……..
3. Domestic utensils**…….**
4. Other……

**Q.18 Who owns the land where you now are settled?……**
**Q.19 What, according to your knowledge, was on the plot before you settled it?…….**

1. Forest
2. Fallow land
3. Fruit tree
4. Farm
5. Other, specify…….

**Q. 20 What is your opinion about the life and general livelihood opportunities in the new place? …….**

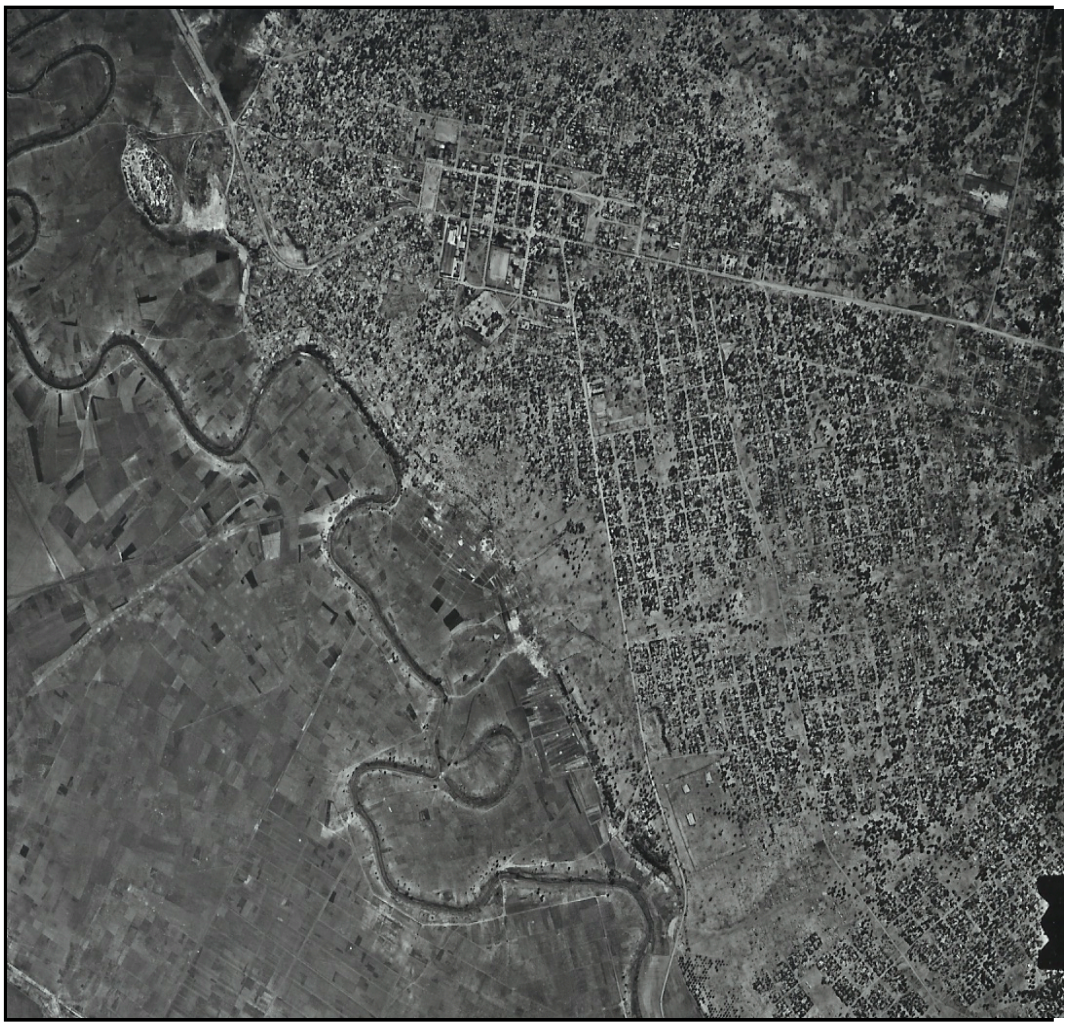
Q. 21 Which kind of problems do you face? (e.g. food, health care employment)……

**Appendix 3** Evolution of land-use policy 1965-2000.

| Periods | *Land tenure systems* |
|---|---|
| 1965-1973 | Land reserves created around villages, smallholder African peasant without formal propriety rights. Their lands could be leased by the state. |
| 1977 | FRELIMO 3rd Congress and Villagization Programme: Land nationalized, state farms and co-operatives are priorities |
| 1979/85 | 1983 FRELIMO 4thcongress supports smallholders and private farms. |
| 1987 | IFM: The structural adjustment policy reduce state role, devaluates currency, ends price control<br>The maximum duration of land lease extended from 15 to 50 years and automatic renewal of use granted. |
| 1994/97-2000 | New land policy and law was approved by the national assembly, land should be guaranteed to farmers both smallholders and private investors, including community based land management rights.<br>Globalization of the economy through enclave projects. |
| 1997-2000 | Promotion of huge development projects “enclave industries” |



**Appendix 4.1** Colonial Chibuto Town, note the abrupt transition to rural areas.



**Appendix 4.2** Chibuto Town and communal settlements the situation after 1977




**Appendix 4.3:** Land-use and land-cover changes: A- the old town, B- the communal settlements, C- the Chimundo resettlement camp and D- the future heavy sands exploration area.

Source: Landsat image of Chibuto area of 2002.