



2007 Population and Housing Census (Swaziland)



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Outline

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3. Census Mapping
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5. Coding
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Background

- ✓ 17,364 km² , 4 Regions, 55 Tinkhundlas (Admin)
- ✓ 10 Muni, 195 Major, 355 Minor, 2076 EAs
- ✓ 1997 last census, 1758 EAs, 927,000 population.





Budgeting

- ✓ Submitted 2 yrs prior for US\$ 4 million
- ✓ ADB training for MCDBA (SQL 2000, Win 2K3 Server)
- ✓ UNDP/UNFPA training CPro, Geomedia, RDMS
- ✓ UNFPA (4 vehicles + server + 30 workstations)





Census Mapping

- ✓ Manual Digitising of the 1997 EAs in GIS
- ✓ Some as old as 1976 plus sketch maps
- ✓ Use 1999 othophotos by JICA
- ✓ 1st listing (Homesteads plus EA boundaries)
- ✓ 2nd listing (Households plus count of population.
- ✓ Splits if > 80 Hmstds or > 500 people digitally.
- ✓ Ensured referential integrity to '86,'97 EAs





Recruitment

- ✓ 1st, 2nd Phase listing permanent staff.
- ✓ Unemployed graduates (Dem/Stats) as RCOs
- ✓ Permanent staff as deputies
- ✓ Unemployed high school leavers (Spvrs/Enums)
- ✓ 20 temp coders, 26 as data capture operators
- ✓ Enumerators paid US\$750 /month.





Census Fieldwork

- ✓ 8 RCOs, 2/region, 1 Ass. for each RCO
- ✓ 12 -14 blocks per region, 10-15 EAs per block
- ✓ 1 supervisor for 4-5 EAs
- ✓ Summary sheets/ EA moved to head office.
- ✓ Sheets captured for the QC, 953,000 (August)
- ✓ A vehicle for each supervisor.
- ✓ 1997 last census, 1758 EAs, 927,000 population.





Coding

- ✓ Coded Major Area, Country of birth, Binary education, Occupation and Industry (4 digits)
- ✓ Using (+) skips, (/) ending group occ. and Ctrl+/ for ending group.
- ✓ Manager for the new codes plus logistics.
- ✓ Code at least 40 questionnaires/day.





Data Entry

- ✓ Data entry program (in house) ready 2006
- ✓ Modified 2007 for minimising automation (TA).
- ✓ Manager for moving and recording batches.
- ✓ Lean staff Oct. 2007 (8) full staff Feb. 2008 (36)
- ✓ Done by region at min of 100 cases/day.
- ✓ Overtime for weekends to meet deadlines.





Data Validation

- ✓ 4 wks inconsistencies, 4 wks edit specs.
- ✓ CSBatch used with modifications with some TA.
- ✓ Modified CSEntry for verification (Feb. 2008)
- ✓ Manager for moving and recording batches.
- ✓ Concurrently finalised tabulation plan.
- ✓ Identified analytical report chapter authors.





Problems

- ✗ Inadequate vehicles for fieldwork.
- ✗ Red tape in the recruitment exercise.
- ✗ Pressure on coders e.g. 2122 coded as 4122.
- ✗ New codes for chiefs
- ✗ Changing of DD for collectives, e.g. Barracks...
- ✗ Making Chief_ID as a PK given it can be null.
- ✗ Jumbling of qstns during entry when verifying.
- ✗ Changing of DD on edit specs to suit RETADUM.
- ✗ Use of slash(/) and Crtl+(/) for keyers.





Problems (contd.)

- ✗ Doubling up as GIS/ DP manager.
- ✗ Fixing of EAs post data capture.
- ✗ Lack of skilled staff at professional level.
- ✗ Use of temporal staff for key tasks.





Solutions

- ✓ CSPro modules e.g. Reformat, Sort etc.
- ✓ inconsistencies, 4 wks edit specs.
- ✓ CSBatch used with modifications with some TA.
- ✓ Modified CSEntry for verification (Feb. 2008)
- ✓ Manager for moving and recording batches.
- ✓ Concurrently finalised tabulation plan.
- ✓ Identified analytical report chapter authors.





Positives

- ✓ Have a fully fledged GIS unit.
- ✓ Extra Hardware/Software
- ✓ Employment opportunities
- ✓ Staff trained in STATA, SPSS, CPro, SQL..etc
- ✓ Ability to mutate to new technologies e.g. use of GPS, scanning.
- ✓ Easy sharing and dissemination with users.
- ✓ Declining technical assistance if not necessary.
- ✓ Institutional memory.

