Use of Electronic Devices for 2011 Population and Housing Census Data Collection

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Ankara
The field application was carried out between 3 October-31 December 2011.
About 2.2 million households
Complete enumeration in institutional places.
Information was collected face to face from about 9 million people during the field study.

<table>
<thead>
<tr>
<th></th>
<th>2000 PC</th>
<th>2011 PHC</th>
</tr>
</thead>
<tbody>
<tr>
<td>Method</td>
<td>Traditional</td>
<td>Combined</td>
</tr>
<tr>
<td>Definition for population</td>
<td>De-facto</td>
<td>De-jure</td>
</tr>
<tr>
<td>Duration of field application</td>
<td>One day application with a national curfew</td>
<td>2-3 month</td>
</tr>
<tr>
<td>Questionnaire</td>
<td>Standard</td>
<td>Household + Institutional Places</td>
</tr>
<tr>
<td>Collection method</td>
<td>PAPI</td>
<td>PAPI and CAPI</td>
</tr>
<tr>
<td>Data entry</td>
<td>ICR</td>
<td>Online data transfer for CAPI, Web-based program for PAPI</td>
</tr>
<tr>
<td># of staff</td>
<td>1 million</td>
<td>4,500</td>
</tr>
</tbody>
</table>
PHC Application Chart

Web Application
- Monitoring
- Data entry
- Authorization
- Reports
- Analyses

Netbook
- Data entry
- Simple checks
- Report
- Send Data
Data entry and authorisation to any enumeration areas as an interviewer is carried out over the web application by the supervisor.
Web Based Monitoring And Controls

2011 PHC Monitoring and Control

- Monitoring and Control by Web Application
  - Application Monitoring Reports
  - Incorrect Records Report
  - Classification of Occupations Report

- Application Support and Orientation
  - Provincial Responsible
  - FAQ

- Data Analysis and Notifications to RO
  - ABPRS Control Reports
  - Open-ended Questions Reports
  - Skip Questions Reports
  - Migration, Place of Birth, Disability, Labour, Education, Housing Reports

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Population and Migration Statistics Group
Right to access to the enumeration area is given via the web application.

- Interviewer log on to the netbook with username and password.
- By using **Get Data** option under the **Synch** menu, the user name, password and authority of the interviewer assigned to the enumeration area were stored in the netbook.
- If the request will be successful number of register, address, people dead and born can be seen as summary of this enumeration area.
During this process the computer must be connected to the internet.

Only newly entered and updated data are sent. Record can be sent more than one during the day, but the last sent is taken as a backup.

Since sending data is a burden on the system, it was useful to do this one a day like the end-of-day operation. Sending data will be turned off after 24:00 because of backup process.

To be able for sending data the interviewer need to be authorized to the enumeration area.
Netbook Application: Consistency checks

- There was no independent transition over sections to avoid inter-relationship,
- Consistency control was applied to the application as much as possible,
- Nonetheless, inconsistencies that have been overlooked are detected in SAS reports and send to Regional Office.
**Netbook Application: Reports**

![Image of a computer application interface for Netbook Application: Reports](image)

### 2011 Nüfus ve Konut Araştırması

#### Veri Girisi Senkronizasyon Raporlar Atamalar Açıklamalar CİKLİ

**Anketör İş Takip Raporu**

<table>
<thead>
<tr>
<th>İl Adı</th>
<th>ANKARA</th>
</tr>
</thead>
<tbody>
<tr>
<td>İlçe Adı</td>
<td>MAMAK</td>
</tr>
<tr>
<td>Bucak Adı</td>
<td>MERKEZ</td>
</tr>
<tr>
<td>Belediye/Köy Adı</td>
<td>MAMAK BELEDİYESİ</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Sayım Bölge Numaraları</th>
<th>617460330</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mahalle/Köy Bağışı Adı</td>
<td>BOŞAĞIÇI</td>
</tr>
<tr>
<td>Örnek Sayım Bölge No</td>
<td>617460330</td>
</tr>
</tbody>
</table>

### Sayım Bölgesinde Bulunan

<table>
<thead>
<tr>
<th>Toplam adres sayısı</th>
<th>140</th>
</tr>
</thead>
<tbody>
<tr>
<td>ADNK'sye göre kişi kaydı adres sayısı</td>
<td>101</td>
</tr>
</tbody>
</table>

### Anketörün Soru Kaçırdığı alan uygulaması sırasında

<table>
<thead>
<tr>
<th>Yeni bulunan adres sayısı</th>
<th>ADNK's kontrolü yapısız adres sayısı</th>
<th>ADNK's kontrolü yapılmış veya eksik (yoklu kıltılı) adres sayısı</th>
<th>Sarsılıksız eden kişiler olduğu datayı</th>
<th>Soru kaçırdığı uygulanan adres sayısı</th>
<th>Soru kaçırdığı uygulananın (cevaplı) tamamı</th>
<th>Form A(7), Form C, Form D uygulaması</th>
</tr>
</thead>
<tbody>
<tr>
<td>(1)</td>
<td>(2)</td>
<td>(3)</td>
<td>(4)</td>
<td>(5)</td>
<td>(6)</td>
<td>(7)</td>
</tr>
<tr>
<td>0</td>
<td>4</td>
<td>136</td>
<td>6</td>
<td>1</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

Form A(7), Form C, Form D uygulaması:

- Tekrar yazılıp (tartma tarihleri) tamamı adres sayısı: 5
- Hic işlem görmemiş adres sayısı: 0

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ABPRS (Form-b) Control Results
- Responses To Open Ended Questions
- Skip (Bypass) Questions
- Migration Questions
- Labor Force Status
- Fertility Status
- Mortality
- Education
- Chronic Disease And Quality Of Life Indicators

- Births, death, health, ... data sent from field to the headquarter were matched with administrative records (ABPRS, social security records etc.) for consistency control; and statistically compared with the results of related surveys (LFS, health survey, disability survey) for coherence.

- Generated analyses are sent to RO to be checked.
To reduce:
- labor,
- time,
- cost and,
- to produce up-to-date data

Harzemli Web Application
Harzemli Netbook Application
✓ Online data transfer
✓ Web based data transfer
✓ CAPI
✓ Online field application monitoring
✓ Several quality crosscheck

Summary

Time
Cost
Labor
Quality
Thank you for your attention!