BASIC SUBSISTENCE FACILITIES: DRINKING WATER, HOUSING, SANITATION

Basic subsistence facilities are key determinants of the health status of a population. However, the World Health Organisation's global target of universal access to safe water and sanitation by the year 2000 will be difficult to achieve.(2)

In the Republic of South Africa key performance areas have been identified and realistic targets have been set for the year 2000. To enable the monitoring of these key performance areas the evaluation of basic subsistence facilities in rural areas of the Republic of South Africa (excluding self-governing territories) commenced in January 1991 under the supervision of the Directorate: Public Hygiene of the Department of National Health and Population Development. These evaluations will be undertaken on a continual basis and updated results published regularly. As more detailed information is received the results of the first evaluation may need to be adjusted.

The evaluation covered 1 100 farms representing 1.6% of the total number of farms in the areas surveyed. Of the population living in these areas 3 5412 persons (0.7%) were included in the survey.

The basic subsistence facilities to be monitored are:

Housing

Julian / Ward ward

Structure Overcrowding

Drinking Water

Sanitation

Latrine facilities

Refuse removal Effluent discosal

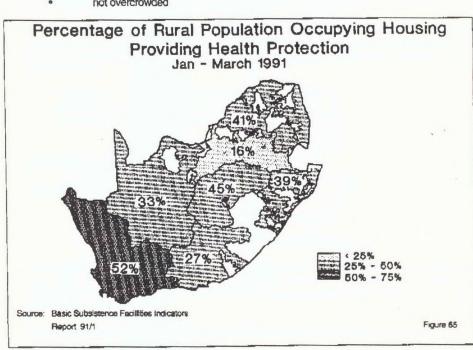
Storm water drainage

Domestic handling of food

Housing

The target in the Republic of South Africa for the year 2000 is to ensure that 60% of the population has access to housing providing health protection, i.e. housing which is -

- structurally sound
- not overcrowded



AVERAGE

During the January — March 1991 evaluation it was found that only 32.5% of the rural population had housing of the required standard. Figure 65 gives the breakdown by health region.

 Structure — 57.6% of the housing included in the first evaluation,⁽¹⁾ was found to be structurally adequate for health protection.

The main housing problems identified were:

Lighting	85%		
Ventilation	82%		
Floors	73%		
Walls	60%		
Roof	49%		
Doors	44%		

Sleeping space — The results of the first evaluation showed that 49.6% of the rural population
was living in houses with adequate sleeping space for the number of occupants.⁽¹⁾ Table 1 illustrates the position in the seven health regions.

% OF POPULATION

Table 1: Occupancy of rural housing: Seven Health Regions Jan — March 1991 Evaluation

LIVING IN OVERCROWDED CONDITIONS	OCCUPANCY RATIO
64.3	121.1%
57.6	109.0%
* 44.1	91.5%
43.2	87.0%
47.1	96.8%
32.0	76 A%
59.7	110.3%
	64.3 57.6 • 44.1 43.2 47.1 32.9

Average Occupancy Ratio — This is a measure to determine the degree of overcrowding in a house.

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100% or below — acceptable occupancy above 100% — overcrowded.
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To calculate the occupancy ratio the number of persons per household bedroom is compared to a standard table of "acceptable number of persons" (children under 10 years are calculated as 0.5 persons). For example, Prof. Edward Batson's Occupancy Standard (a standard room size is not specified in this table):

1 bedroom — 2.5 persons or less 2 bedrooms — 3.5 persons or less 3 bedrooms — 5.0 persons or less

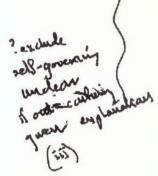
Drinking Water

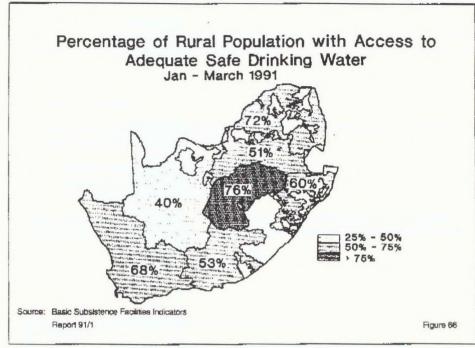
Adequate safe drinking water is defined as:

- available within 100m (in rural areas) from the point of use,
- adequate according to demand, and
- of a quality found to be safe for health at the point of use.

The Republic of South Africa has set the target of safe water access to 60% of the population by the year 2000. At present 60.8% of the rural population in the seven health regions has access to adequate safe drinking water.(1) Figure 66 illustrates the present position in the different health regions of the Republic of South Africa.

The main problems Identified in connection with drinking water were "distance from point of use" (70%) and "unsatisfactory water quality" (40%).⁽²⁾



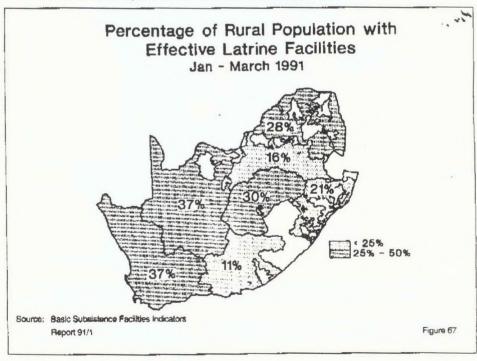


Sanitation

1. Domestic Latrine Facilities

The target set by the Republic of South Africa for the year 2000 is to ensure that 60% of the popu lation has access to effective domestic latrines which are -

- · structurally and functionally fit for use,
- · within 50m of the dwelling,
- · with a ratio of not more than 15 persons per facility in the case of a water closet or chemical facility or with a ratio of not more than 8 persons per facility in the case of a pit or a bucket system, and of which
- the removal and disposal of waste was found to be nuisance free.



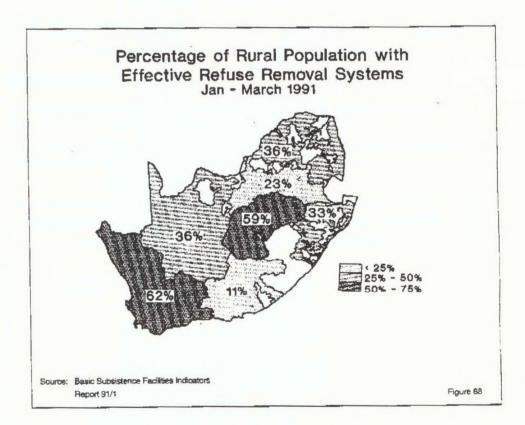
The results of the first evaluation in the seven health regions indicated that only 24% of the rural population had access to adequate latrine facilities.⁽¹⁾ Figure 67 illustrates the position in the various regions.

2. Refuse Removal

The target set by the Republic of South Africa for the year 2000 is to ensure that 70% of the population has effective refuse removal systems consisting of —

- · access to an effective container,
- · access to a container within 30m of the dwelling
- · a removal and disposel system found to be nuisance free.

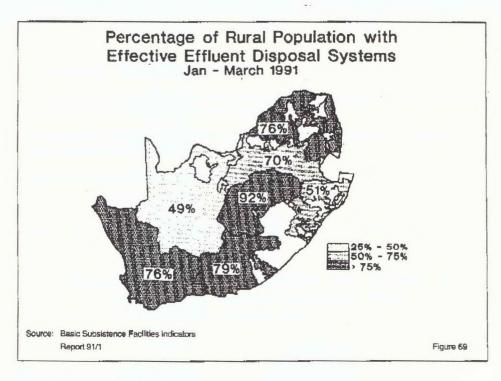
During the January — March 1991 rural evaluation it was found that 34.8% of the population had access to an effective refuse removal system. Figure 68 illustrates the breakdown by health region.



3. Effluent Disposal System

The target set by the Republic of South Africa for the year 2000 is to ensure that 70% of the population has effective effluent disposal systems, defined as effluent disposal which is nuisance free.

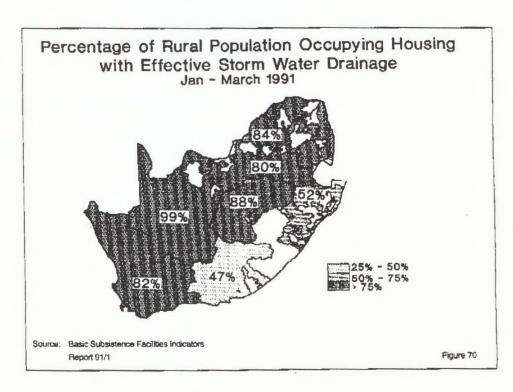
During the January — March 1991 rural evaluation it was found that 72.3% of the population had access to effective effluent disposal systems.⁽¹⁾ Figure 69 illustrates the breakdown by health region.



Stormwater Drainage

The target for the year 2000 set by the Republic of South Africa is to ensure that stormwater will not cause a health risk to at least 70% of the population.

It was found during the evaluation that 77.6% of rural housing in the seven health regions complied with these standards.(1) Figure 70 illustrates the position in the various regions.



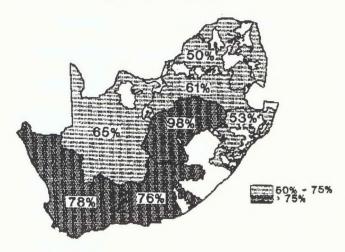
Domestic Handling of Food

The target set by the Republic of South Africa for the year 2000 is to ensure that 70% of the population is educated regarding the hygienic handling of domestic food.

The results of the January — March 1991 rural evaluation found that 65.8% of the population had access to hygienically handled domestic food. $^{(1)}$

Figure 71 gives a breakdown by health region.

Percentage of Rural Population with Access to Hygienically Handled Domestic Food Jan - March 1991



Source: Basic Subsistence Facilities Indicators
Report 91/1

Figure 71

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- . Assessment of the development dynamics of subregion 3
- . Assessment of the development dynamics of subregion 4
- . Assessment of the development dynamics of subregion 5
- . Assessment of the development dynamics of subregion 6
- . An analysis of the development situation in Region G and a prognosis of future developments.
- . Categorisation of the major development problems within Region G and its subregions as well as the formulation of development goals.
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