

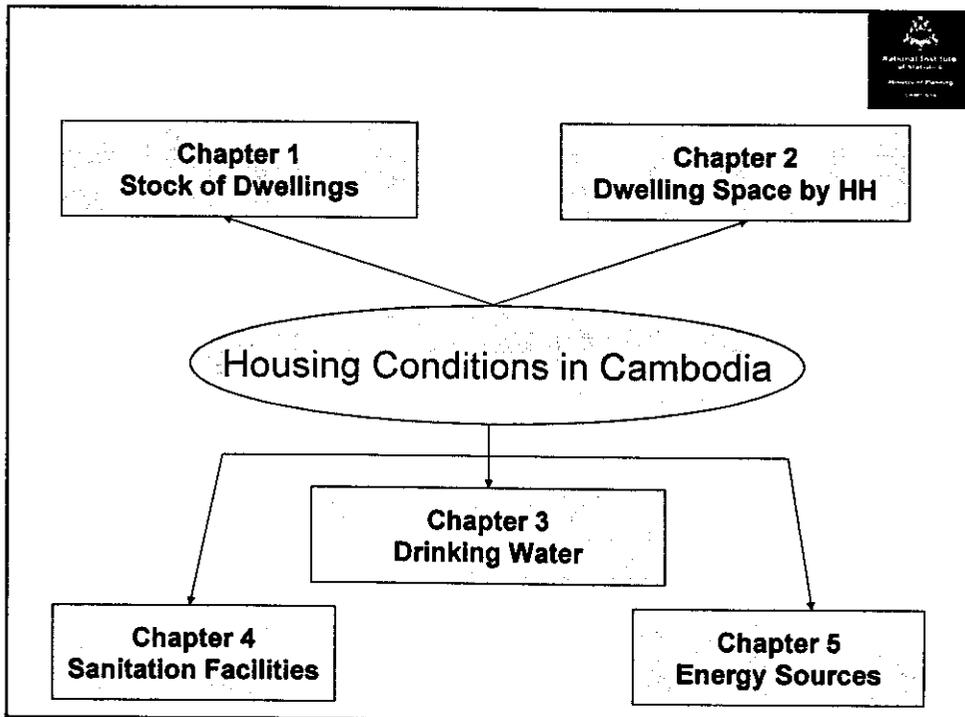
**Workshop on Final Report of CSES  
2003-04  
15 Months Data**



**HOUSING CONDITIONS IN  
CAMBODIA**

Royal Government of Cambodia  
Ministry of Planning  
National Institute of Statistics

**Presented by: Tith Vong  
Comments by: M of LMUC  
16-17/ June/ 2005 / Phnom Penh Hotel**



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**Chapter 1**  
**Stock of Dwellings / 2003-04**



*1. Number of Dwellings (occupied/vacant)*

Description	Cambodia		Phnom Penh		Other Urban		Rural	
	No	%	No	%	No	%	No	%
Occupied	86,437	97.0	10,242	91.6	21,207	96.4	54,988	98.2
Vacant	2,707	3.0	934	8.4	792	3.6	981	1.8
<b>Total</b>	<b>89,144</b>	<b>100.0</b>	<b>11,176</b>	<b>100.0</b>	<b>21,999</b>	<b>100.0</b>	<b>55,969</b>	<b>100.0</b>

*2. Number of Households residing in the housing units*

Percentage of Households residing in the housing units



No of HHs	Cambodia		Phnom Penh		Other Urban		Rural	
	N in 1000s	%	N in 1000s	%	N in 1000s	%	N in 1000s	%
1hh	2,416	92.9	189	91.1	243	91.2	1,984	93.2
2-3hh	173	6.6	16	7.6	20	7.6	137	6.4
4hh- more	13	0.5	3	1.2	3	1.2	7	0.3
<b>Total</b>	<b>2,602</b>	<b>100.0</b>	<b>207</b>	<b>100.0</b>	<b>267</b>	<b>100.0</b>	<b>2,128</b>	<b>100.0</b>

surprisingly identical?

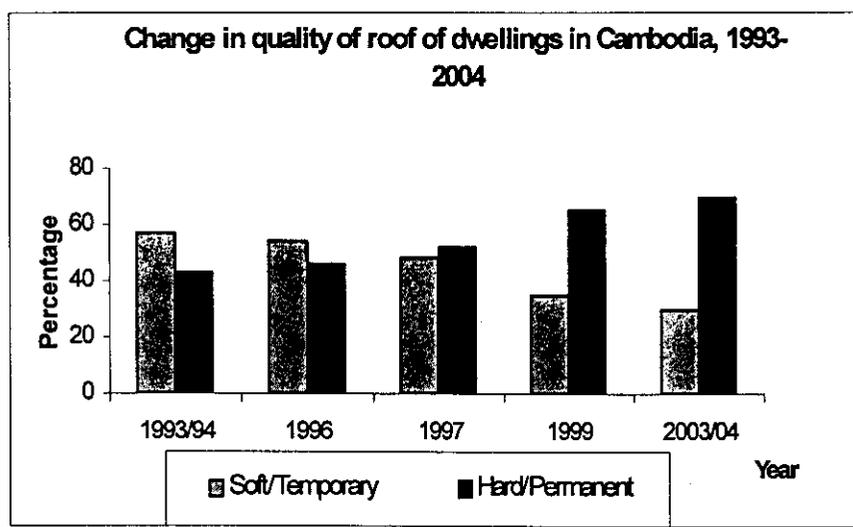
### 3. Building Materials of Dwellings (roof, wall, floor)

#### Percentage Distribution of Households by Kind of Roof Materials



Roof Materials	Cambodia (%)	Phnom Penh (%)	Other Urban (%)	Rural (%)
<b>Hard/Permanent Materials</b>	<b>71.1</b>	<b>98.2</b>	<b>81.2</b>	<b>67.2</b>
<i>Tiles</i>	27.6	11.3	18.9	30.2
<i>Fibrous Cement</i>	4.9	10.1	6.3	4.3
<i>Galvanized Iron</i>	34.5	48.8	51.4	31.0
<i>Mixed, predo. hard/Permanent</i>	1.0	0.9	1.7	1.0
<i>Concrete</i>	3.1	27.2	3.0	0.8
<b>Soft/Temporary Materials</b>	<b>28.9</b>	<b>1.8</b>	<b>18.8</b>	<b>32.8</b>
<i>Thatch</i>	21.5	0.9	16.2	24.2
<i>Salvaged Materials</i>	0.2	0.1	0.4	0.2
<i>Mixed, predo. soft/Temporary</i>	0.6	0.2	0.2	0.6
<i>Plastic Sheet</i>	0.1	0.2	0.0	0.1
<i>Other</i>	6.5	0.4	2.1	7.7
<b>Totals</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>
<b>Number of households, 1000s</b>	<b>2,602</b>	<b>207</b>	<b>267</b>	<b>2,128</b>

#### Roof Materials continued

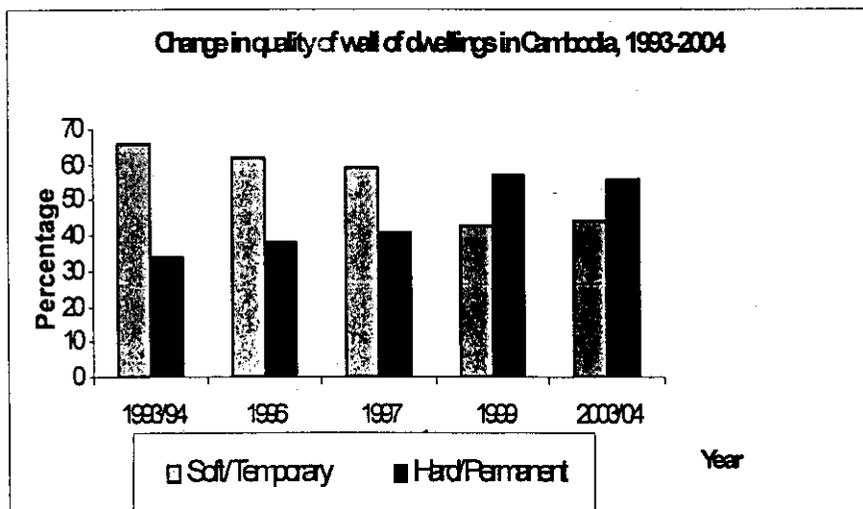


Percentage Distribution of Households by Kind of Wall Materials



Wall Materials	Cambodia (%)	Phnom Penh (%)	Other Urban (%)	Rural (%)
<b>Hard/Permanent Materials</b>	<b>54.6</b>	<b>96.4</b>	<b>71.8</b>	<b>48.4</b>
Wood or Logs	25.0	13.8	34.2	24.9
Plywood	19.7	24.9	22.2	18.9
Concrete, Brick, Stone	7.6	54.5	11.5	2.6
Galvanized Iron/Aluminum	2.2	2.9	3.6	1.9
Fibrous Cement	0.2	0.4	0.3	0.1
<b>Soft/Temporary Materials</b>	<b>45.4</b>	<b>3.6</b>	<b>28.2</b>	<b>51.6</b>
Bamboo, Thatch	28.0	1.4	18.4	31.8
Makeshift, Salvaged Materials	1.4	1.8	1.0	1.4
Other	16.0	0.4	8.8	18.4
<b>Totals</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>
<b>Number of hhs, 1000s</b>	<b>2,602</b>	<b>207</b>	<b>267</b>	<b>2,128</b>

Wall Materials continued



**Floor Materials**



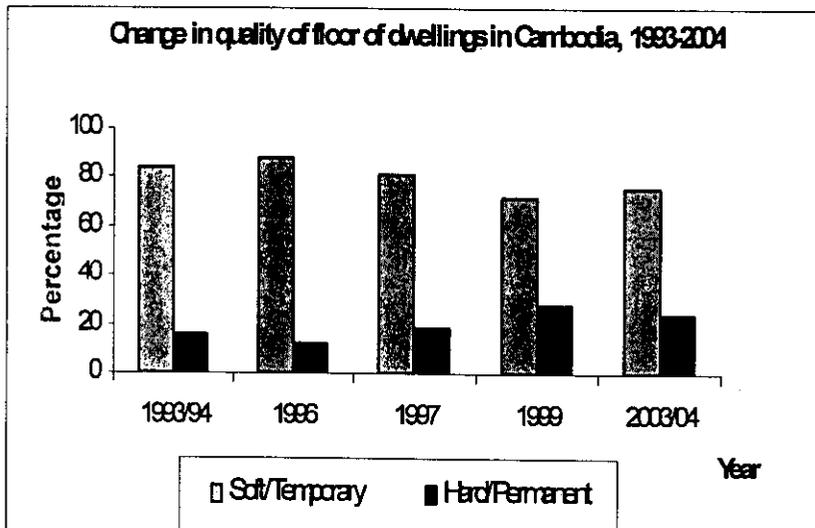
**Percentage Distribution of Households by Kind of Floor Materials**

Floor Materials	Cambodia (%)	Phnom Penh (%)	Other Urban (%)	Rural (%)
<b>Hard/Permanent Materials</b>	<b>19.2</b>	<b>78.1</b>	<b>30.3</b>	<b>12.1</b>
Cement	4.6	15.0	7.8	3.2
Parquet, Polished Wood	9.1	17.4	13.0	7.8
Polished Stone Marble	0.1	0.6	0.2	0.0
Vinyl	0.0	0.4	0.1	0.0
Ceramic Tiles	5.4	44.7	9.3	1.0
<b>Soft/Temporary Materials</b>	<b>80.8</b>	<b>21.9</b>	<b>69.7</b>	<b>87.9</b>
Earth/Clay	7.5	4.1	7.3	7.9
Wooden Planks, Bamboo	71.8	15.7	60.8	78.6
Other	1.5	2.1	1.6	1.4
<b>Total</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>
<b>Number of hhs, 1000s</b>	<b>2,602</b>	<b>207</b>	<b>267</b>	<b>2,128</b>

**Floor Materials continued**



**Change in quality of floor of dwellings in Cambodia, 1993-2004**



#### 4. Legal Status of Dwelling



##### Legal Status by Households

Legal Status	Cambodia (%)	Phnom Penh (%)	Other Urban (%)	Rural (%)
<i>Owned by households</i>	94.8	83.8	92.5	96.2
<i>Not owned but no rent is paid</i>	3.6	6.5	4.6	3.2
<i>Rented</i>	1.3	9.5	2.7	0.3
<i>Other</i>	0.2	0.2	0.1	0.2
<b>Total</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>

#### 5. Value of Dwellings



##### Purchase Price

##### Average Value of Dwellings

Stratum	Average Value of dwellings in riels	Number of households, 1000s	Percent
<b>Cambodia</b>	<b>13,563,083</b>	<b>2,412</b>	<b>100.0</b>
<i>Phnom Penh</i>	105,845,657	162	7.0
<i>Other Urban</i>	14,911,088	241	10.0
<i>Rural</i>	5,955,752	2,008	83.0

*Average Expenditure on HH Construction Activities*



Item	Construction and Extension	Repair	Total Construction
Average Expenditure (riels)	4,832,000	756,000	5,588,000
Total Value (riels)	325,158,441,000	99,067,000	325,257,510,000
Number of Households	67000	124000	191000
Number of Households in Sample	384	711	1095
Percentage	2.8	5.1	8.0

**Chapter 2**

**Dwelling Space by Household / 2003-04**



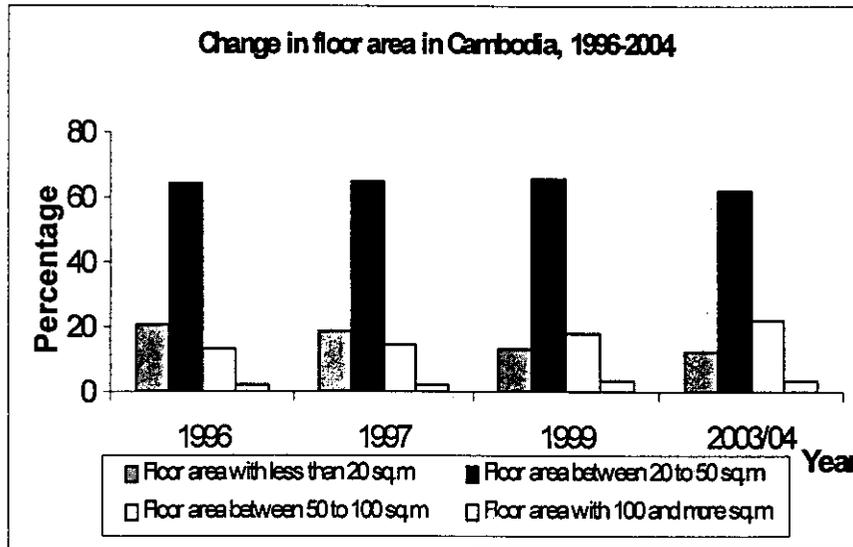
**1. Floor Area of Dwelling**

Floor Area of Occupied in Housing Units

Floor area in square meters	All Cambodia (%)	Phnom Penh (%)	Other Urban (%)	Rural (%)
00-09	1.0	1.3	0.4	1.1
10-19	11.3	8.0	10.7	11.7
20-29	22.9	13.9	20.9	24.0
30-39	21.0	14.1	19.4	21.9
40-49	17.9	17.1	14.3	18.4
50-74	16.5	20.1	17.6	16.0
75-99	5.7	10.9	9.2	4.7
100-149	2.5	8.7	5.2	1.5
150+	1.2	6.0	2.3	0.6
<b>Total</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>
<b>Average area Sq. meters</b>	<b>42.0</b>	<b>64.3</b>	<b>48.8</b>	<b>39.0</b>

m<sup>2</sup> / year person?  
 (think he said  
 two but not  
 here)

*Floor Area of Dwelling continued*



**2. Square Meters per Person**



**Floor Area of Occupied per Person**

<b>Cambodia</b>	<b>Phnom Penh</b>	<b>Other Urban</b>	<b>Rural</b>
<b>8.5</b>	<b>12.3</b>	<b>9.6</b>	<b>7.9</b>

### 3. Numbers of Rooms in Dwelling



Numbers of Rooms in Dwelling

<b>Numbers of Rooms</b>	<b>Cambodia (%)</b>	<b>Phnom Penh (%)</b>	<b>Other Urban (%)</b>	<b>Rural (%)</b>
<i>One Room</i>	75.0	44.0	61.8	79.6
<i>Two Rooms</i>	19.0	31.4	25.6	16.9
<i>Three Rooms</i>	4.2	13.8	8.2	2.7
<i>Four Rooms</i>	1.2	5.8	3.0	0.5
<i>Five Rooms and More</i>	0.7	5.0	1.4	0.2
<b>Average number of rooms</b>	<b>1.3</b>	<b>2.0</b>	<b>1.6</b>	<b>1.2</b>

### 4. Number of Persons per Room



Number of Persons per Room

<b>Cambodia</b>	<b>Phnom Penh</b>	<b>Other Urban</b>	<b>Rural</b>
3.7	2.6	3.2	4.0

## Chapter 3: Drinking Water

### 1. Main Source of Drinking Water (wet and dry season)



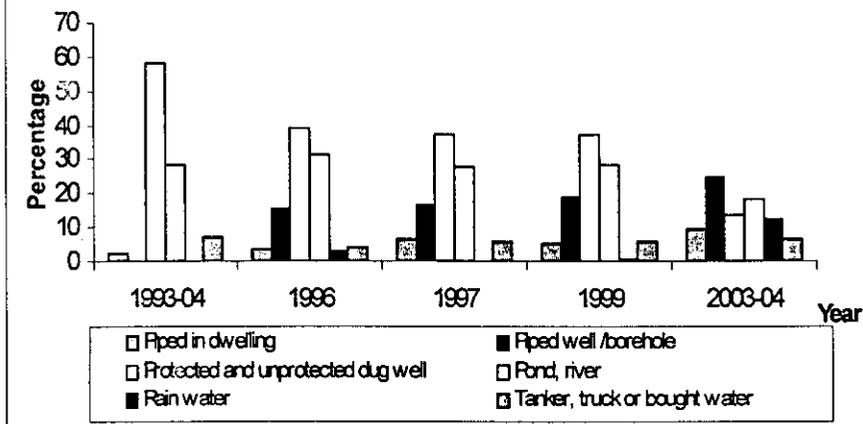
Water Source	Cambodia (%)	Phnom Penh (%)	Other Urban (%)	Rural (%)
<b>Wet Season</b>				
Piped in dwelling	9.3	79.7	19.0	1.3
Public tap	0.2	-	0.2	0.2
Tube/piped well or borehole	22.7	5.1	24.2	24.2
Protected dug well	15.2	1.1	14.5	16.7
Unprotected dug well	10.2	0.8	5.6	11.7
Pond, river or stream	14.6	1.2	10.9	16.4
Rainwater	23.2	2.9	18.7	25.8
Tanker truck, vendor	4.0	9.2	6.8	3.2
Other	0.5	0.1	0.0	0.6
<b>Total</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>
<b>Dry Season</b>				
Piped in dwelling	10.0	81.3	21.2	1.7
Public tap	0.2	0.1	0.2	0.3
Tube/piped well or borehole	27.1	5.1	27.8	29.2
Protected dug well	17.7	1.0	16.2	19.5
Unprotected dug well	11.5	0.8	6.0	13.6
Pond, river or stream	22.5	1.2	13.6	25.7
Rainwater	1.3	0.6	1.2	1.4
Tanker truck, vendor	8.6	9.8	13.8	7.8
Other	0.8	0.4	0.2	0.9
<b>Total</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>

unprotected

### Drinking Water continued



**Change in main sources of drinking water in Cambodia  
1993-2004**



Jan Willem: coverage figures in M.I. (IPS) very different  
 eg. 33.3 % of 63.4%  
 seems mainly in figs in "protected dug wells"  
 + IPS don't include private handpumps

18% of 2% rural

## Access to Safe Water Source

- In Year 1996 = 29.1 %
- In Year 1997 = 29.9 %
- In Year 1999 = 48.2 %
- In Year 2004 = 63.4 %

Rapid Increase from Year 1996 to 2004

what's source for 1996?

Thought that one was discredited

## 2. Treatment of Water for Drinking

Percentage Distribution of Households Boiling or Treating Drinking Water

Treatment Facilities	Cambodia (%)	Phnom Penh (%)	Other Urban (%)	Rural (%)
Always	52.4	89.6	65.8	47.1
Sometime	15.0	5.5	12.2	16.3
Never	32.6	4.9	22.0	36.7
Total	100.0	100.0	100.0	100.0

Strata	Type of Treatment				
	Boiling (%)	Filtering (%)	Using Chemical (%)	Using White Alum (%)	Using Other method (%)
Cambodia	96.0	2.4	0.7	2.0	1.0
Phnom Penh	94.3	1.5	0.6	0.9	4.3
Other Urban	96.2	3.8	1.2	1.2	1.8
Rural	96.3	2.3	0.7	2.3	0.4

### 3. Who Fetches Water?



<i>HH Member</i>	<i>Cambodia (%)</i>	<i>Phnom Penh (%)</i>	<i>Other Urban (%)</i>	<i>Rural (%)</i>
<b>Wet Season</b>				
<i>Head of HH</i>	57.4	54.1	53.4	57.9
<i>Other Member</i>	42.6	45.9	46.6	42.1
<b>Total</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>
<b>Dry Season</b>				
<i>Head of HH</i>	55.7	55.6	53.4	55.9
<i>Other Member</i>	44.3	44.4	46.6	44.1
<b>Total</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>

### 4. Distance to Fetch Drinking Water Sources (wet and dry sea



<i>Distance to Fetch Water</i>	<i>Cambodia (%)</i>	<i>Phnom Penh (%)</i>	<i>Other Urban (%)</i>	<i>Rural (%)</i>
<b>Wet Season</b>				
<i>Less than 0.25 Km</i>	94.2	93.9	94.2	94.3
<i>0.25 to 0.99 Km</i>	3.3	1.4	2.0	3.5
<i>1.00 to 1.99 Km</i>	0.3		0.2	0.3
<i>2.00 to 2.99 Km</i>	0.1			0.1
<i>3.00 to 3.99 Km</i>	0.0			0.0
<i>4.00 to 4.99 Km</i>	-	-	0.0	0.0
<i>5 Km and More</i>	2.1	4.7	3.6	1.8
<b>Total</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>
<b>Dry Season</b>				
<i>Less than 0.25 Km</i>	87.0	89.8	91.1	86.5
<i>0.25 to 0.99 Km</i>	7.8	5.7	4.0	8.2
<i>1.00 to 1.99 Km</i>	2.0		0.8	2.2
<i>2.00 to 2.99 Km</i>	0.3		0.1	0.4
<i>3.00 to 3.99 Km</i>	0.3			0.3
<i>4.00 to 4.99 Km</i>	0.1			0.1
<i>5 Km and More</i>	2.5	4.5	4.1	2.3
<b>Total</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>

### 5. Time Use for Fetching Water (wet and dry season)



Time Use to Fetch Water	Cambodia (%)	Phnom Penh (%)	Other Urban (%)	Rural (%)
<b>Wet Season</b>				
Less than 30 minutes	91.1	84.3	91.4	91.3
30 - 60 minutes	3.3	1.5	2.6	3.4
60 - 120 minutes	2.9	5.9	2.0	2.9
120 minutes and more	2.7	8.3	3.9	2.4
<b>Total</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>
<b>Dry Season</b>				
Less than 30 minutes	85.5	84.7	87.5	85.3
30 - 60 minutes	8.9	3.0	6.6	9.2
60 - 120 minutes	1.9	5.0	1.3	1.9
120 minutes and more	3.7	7.3	4.6	3.6
<b>Total</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>

### 6. Monthly Cash Expenditure on Water



#### Percentage Distribution of Households Spend on Water

Water Expenditure	Cambodia (%)	Phnom Penh (%)	Other Urban (%)	Rural (%)
No expenditure	78.8	9.2	62.4	87.7
Expenditure >0	21.2	90.8	37.6	12.3
<b>Total</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>
Less than 4,000 riels	81.7	12.1	65.9	90.5
4,000 to 20,000 riels	12.3	46.6	23.0	7.6
20,000 to 40,000 riels	4.4	29.3	8.5	1.5
40,000 riels and more	1.6	12.0	2.6	0.4
<b>Total</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>

## Chapter 4 Sanitation Facilities



### 1. Toilet Facilities of Dwelling

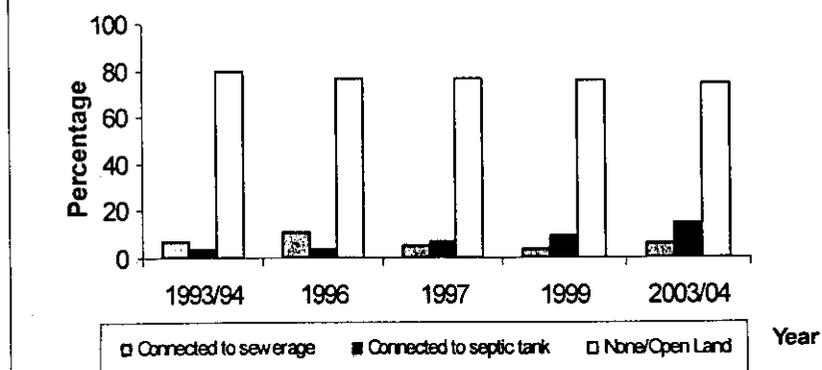
Percentage Distribution of Households by Toilet Facilities

Type of Facilities	Cambodia (%)	Phnom Penh (%)	Other Urban (%)	Rural (%)
Connected to sewerage	5.7	59.9	5.2	0.5
Septic tank	14.8	29.8	36.8	10.6
Pit latrine	2.3	0.8	3.4	2.3
Other without septic tank	1.7	0.8	1.9	1.8
Public toilet	0.3	0.5	0.4	0.3
Shared toilet	0.9	2.4	2.6	0.5
Open land	41.7	3.2	23.0	47.8
None	32.1	2.6	26.1	35.7
Other	0.4	0.1	0.6	0.4
<b>Total</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>

### Toilet Facilities continued



Change in Toilet Facilities of Dwellings in Cambodia  
1993-2004



## 2. Monthly Cash Expenditure for Sewage

Percentage Distribution of Households Spend on Sewage or Waste Water Disposal



<b>Sewage Expenditure</b>	<b>Cambodia (%)</b>	<b>Phnom Penh (%)</b>	<b>Other Urban (%)</b>	<b>Rural (%)</b>
Spend nothing on sewage	97.5	71.0	98.7	99.9
Spend on sewage, >0 riels	2.5	29.0	1.3	0.1
<b>Total</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>
<i>Less than 4,000 riels</i>	99.6	95.9	99.6	100.0
<i>4,000 to 8,000 riels</i>	0.2	2.6	0.2	0.0
<i>8,000 riels and More</i>	0.2	1.6	0.3	0.0
<b>Total</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>

## 3. Monthly Cash Expenditure for Garbage

Percentage Distribution of Households Spend on Garbage Collection



<b>Garbage Expenditure</b>	<b>Cambodia (%)</b>	<b>Phnom Penh (%)</b>	<b>Other Urban (%)</b>	<b>Rural (%)</b>
Spend nothing on Garbage	94.4	40.2	94.3	99.7
Spend on Garbage >0 riels	5.6	59.8	5.7	0.3
<b>Total</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>
<i>Less than 4,000 riels per month</i>	99.2	93.2	97.9	100.0
<i>4,000 to 8,000 riels per month</i>	0.3	1.3	1.6	0.0
<i>8,000 riels and more per month</i>	0.5	5.5	0.4	0.0
<b>Total</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>

## Chapter 5 Energy Source for Lighting and Cooking



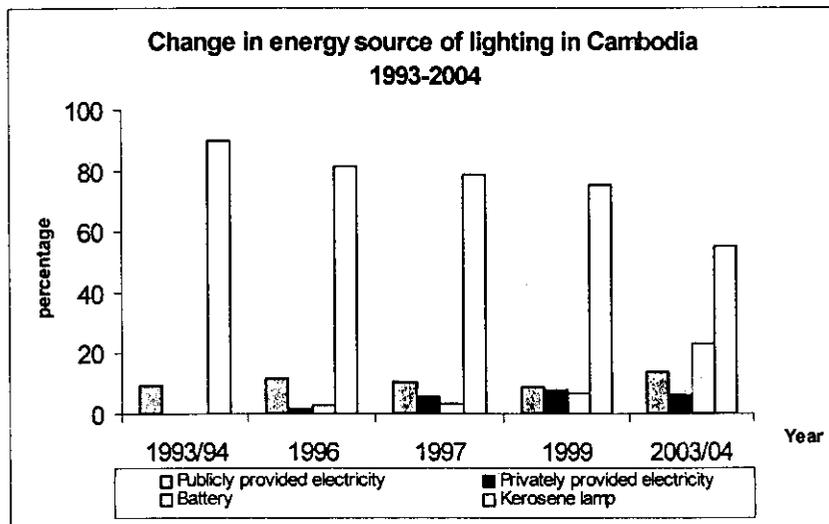
### 1. Energy Source for Lighting

Percentage Distribution of Households Using  
Main Source of Lighting

Source of Lighting	Cambodia (%)	Phnom Penh (%)	Other Urban (%)	Rural (%)
Publicly-provided electricity	12.8	84.1	40.0	2.5
Privately-generated electricity	6.5	11.7	10.8	5.4
Battery	24.3	1.6	10.7	28.3
Kerosene lamp	55.2	1.8	37.5	62.7
None	0.0	0.1	0.1	0.0
Other	1.1	0.8	1.0	1.2
<b>Total</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>

Q: why do 16% of PHH residents not access public electricity?  
 A: not (so much / necessary) Y, just 3 District where public supply poor

### Energy Source for Lighting continued



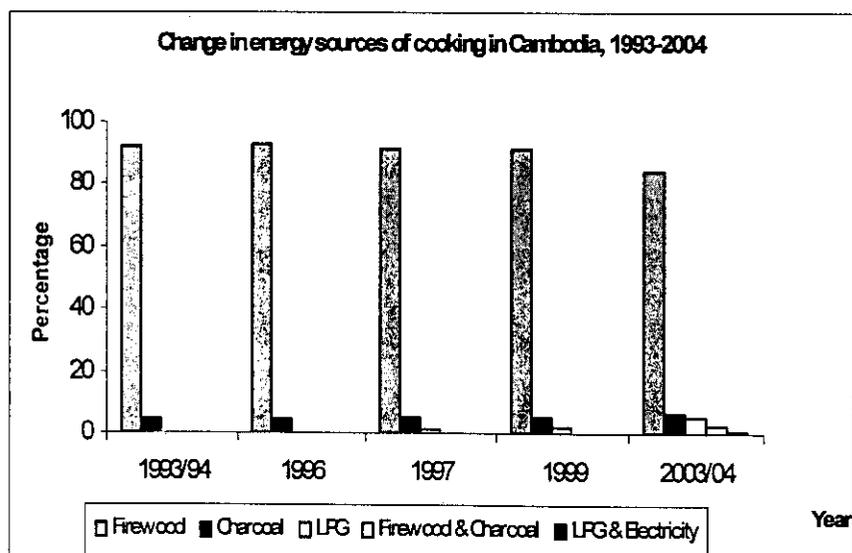
## 2. Energy Source for Cooking

Percentage Distribution of Households by Type of Fuel for Cooking

Type of Fuel	Cambodia (%)	Phnom Penh (%)	Other Urban (%)	Rural (%)
Firewood	84.8	13.8	63.1	94.4
Charcoal	6.2	24.4	20.0	2.6
Firewood and Charcoal	2.1	7.4	5.4	1.1
Liquefied petroleum gas	5.2	48.1	7.7	0.7
Kerosene	0.1	0.4	0.0	0.0
Public electricity	0.1	0.9	0.3	0.0
Gas and electricity	0.6	4.6	1.1	0.1
Private electricity	0.0	-	0.1	0.0
None/don't cook	0.0	0.0	-	0.1
Other	0.9	0.4	2.3	0.8
<b>Total</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>

### Energy Source for Cooking continued

Change in energy sources of cooking in Cambodia, 1993-2004



### 3. Monthly Cash Expenditure for Energy (Electricity)

#### Distribution of Households Spend on Electricity

<b>Electricity Expenditure</b>	<b>Cambodia (%)</b>	<b>Phnom Penh (%)</b>	<b>Other Urban (%)</b>	<b>Rural (%)</b>
No expenditure	81.3	5.7	49.9	92.6
Expenditure >0 riels	18.7	94.3	50.1	7.4
<b>Total</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>
<i>Less than 4,000 riels</i>	81.9	7.3	51.5	93.0
<i>4,000 to 20,000 riels</i>	7.0	25.5	19.4	3.7
<i>20,000 to 40,000 riels</i>	5.5	26.6	17.0	2.1
<i>40,000 riels and More</i>	5.5	40.7	12.1	1.3
<b>Total</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>

### 4. Who Fetches Firewood/Charcoal?

#### Percentage of HH Member who Fetches Firewood/Charcoal

<b>HH Member</b>	<b>Cambodia (%)</b>	<b>Phnom Penh (%)</b>	<b>Other Urban (%)</b>	<b>Rural (%)</b>
<i>Head of HH</i>	59.1	34.5	53.1	60.9
<i>Other Member</i>	40.9	65.5	46.9	39.1
<b>Total</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>

### 5. Time Use for Fetching Firewood/Charcoal



Time Use for Fetching Firewood/Charcoal

<i>Time Use to Fetch Firewood/Charcoal</i>	<i>Cambodia (%)</i>	<i>Phnom Penh (%)</i>	<i>Other Urban (%)</i>	<i>Rural (%)</i>
<i>One hour</i>	31.8	62.2	50.0	28.9
<i>Two hours</i>	13.6	2.6	11.2	14.3
<i>Three hours</i>	11.0	1.6	5.5	11.9
<i>Four hours</i>	7.5	7.5	5.4	7.7
<i>5 hours and more</i>	36.1	26.2	28.0	37.3
<b>Total</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>

Some Housing Indicators  
for  
5 zones and Selected  
Provinces  
in  
Cambodia



**Stock of Dwellings**  
**Table 1.1**



Number of Dwellings	Number of Dwellings (Occupied)	Number of Dwelling (Vacant)	Percentage of Dwellings (Vacant)
<i>Phnom Penh</i>	<b>10,242</b>	<b>934</b>	<b>8.4</b>
<b>All Plain Provinces</b>	<b>32,978</b>	<b>572</b>	<b>1.7</b>
Kampong Cham	10,636	207	1.9
Kandal	6,956	127	1.8
Prey Veang	6,769	117	1.7
Svay Rieng	3,092	43	1.4
Takeo	5,525	78	1.4
<b>All Ton Le Sap provinces</b>	<b>25,315</b>	<b>785</b>	<b>3.0</b>
Banteay Meanchey	4,609	140	2.9
Battambang	5,924	191	3.1
Kampong Thum	4,056	88	2.1
Siem Reap	5,014	240	4.6
Other Ton Le Sap provinces	5,712	126	2.2
<b>All coastal provinces</b>	<b>8,219</b>	<b>128</b>	<b>1.5</b>
Other plateau/mountain provinces	9,683	288	2.9
Kampong Speu	3,647	46	1.2
<b>All plateau/mountain provinces</b>	<b>6,036</b>	<b>242</b>	<b>3.9</b>
<b>All Cambodia</b>	<b>88,437</b>	<b>2707</b>	<b>3.0</b>

**Table 1.2**



Roof Materials	Hard/Permanent Materials	Soft/Temporary Materials
<i>Phnom Penh</i>	<b>98.2</b>	<b>1.8</b>
<b>All Plain Provinces</b>	<b>73.6</b>	<b>26.4</b>
Kampong Cham	69.4	30.6
Kandal	82.6	17.4
Prey Veang	68.8	31.2
Svay Rieng	63.9	36.1
Takeo	82.6	17.4
<b>All Ton Le Sap provinces</b>	<b>63.8</b>	<b>36.2</b>
Banteay Meanchey	67.1	32.9
Battambang	77.2	22.8
Kampong Thum	59.7	40.3
Siem Reap	55.7	44.3
Other Ton Le Sap provinces	58.3	41.7
<b>All coastal provinces</b>	<b>76.2</b>	<b>23.8</b>
Other plateau/mountain provinces	57.7	42.3
Kampong Speu	63.3	36.7
<b>All plateau/mountain provinces</b>	<b>52.3</b>	<b>47.7</b>
<b>All Cambodia</b>	<b>71.1</b>	<b>28.9</b>

**Table 1.3**

<b>Outer Wall Materials</b>	<b>Hard/Permanent Materials</b>	<b>Soft/Temporary Materials</b>
<i>Phnom Penh</i>	<b>96.4</b>	<b>3.6</b>
<i>All Plain Provinces</i>	<b>47.5</b>	<b>52.5</b>
Kampong Cham	53.7	46.3
Kandal	57.4	42.6
Prey Veang	31.8	68.2
Svay Rieng	22.0	78.0
Takeo	57.7	42.3
<i>All Ton Le Sap provinces</i>	<b>50.4</b>	<b>49.6</b>
Banteay Meanchey	54.3	45.7
Battambang	52.6	47.4
Kampong Thum	50.8	49.2
Siem Reap	47.1	52.9
Other Ton Le Sap provinces	47.8	52.2
<i>All coastal provinces</i>	<b>66.3</b>	<b>33.7</b>
Other plateau/mountain provinces	56.8	43.2
Kampong Speu	58.1	41.9
<i>All plateau/mountain provinces</i>	<b>55.5</b>	<b>44.5</b>
<i>All Cambodia</i>	<b>54.6</b>	<b>45.4</b>

**Table 1.4**

<b>Floor Materials</b>	<b>Hard/Permanent Materials</b>	<b>Soft/Temporary Materials</b>
<i>Phnom Penh</i>	<b>78.1</b>	<b>21.9</b>
<i>All Plain Provinces</i>	<b>9.2</b>	<b>90.8</b>
Kampong Cham	5.0	95.0
Kandal	18.5	81.5
Prey Veang	2.7	97.3
Svay Rieng	6.7	93.3
Takeo	15.0	85.0
<i>All Ton Le Sap provinces</i>	<b>17.0</b>	<b>83.0</b>
Banteay Meanchey	20.2	79.8
Battambang	25.2	74.8
Kampong Thum	10.8	89.2
Siem Reap	14.1	85.9
Other Ton Le Sap provinces	14.0	86.0
<i>All coastal provinces</i>	<b>31.7</b>	<b>68.3</b>
Other plateau/mountain provinces	14.7	85.3
Kampong Speu	15.3	84.7
<i>All plateau/mountain provinces</i>	<b>14.2</b>	<b>85.8</b>
<i>All Cambodia</i>	<b>19.2</b>	<b>80.8</b>

<b>Legal Status of Dwellings</b>	<b>Owned by Households</b>	<b>Not Owned but no rent is paid</b>	<b>Rented</b>	<b>Other</b>
<i>Phnom Penh</i>	<b>83.8</b>	<b>6.5</b>	<b>9.5</b>	<b>0.2</b>
<i>All Plain Provinces</i>	<b>96.1</b>	<b>3.5</b>	<b>0.2</b>	<b>0.2</b>
Kampong Cham	94.5	5.1	0.2	0.2
Kandal	96.2	2.9	0.6	0.4
Prey Veang	96.9	2.9	-	0.2
Svay Rieng	97.3	2.7	0.1	-
Takeo	97.3	2.4	0.1	0.2
<i>All Ton Le Sap provinces</i>	<b>94.9</b>	<b>3.9</b>	<b>1.0</b>	<b>0.2</b>
Banteay Meanchey	94.2	2.5	3.3	-
Battambang	89.5	9.1	1.1	0.3
Kampong Thum	97.4	2.3	-	0.3
Siem Reap	96.2	3.0	0.6	0.2
Other Ton Le Sap provinces	97.5	2.0	0.3	0.2
<i>All coastal provinces</i>	<b>95.1</b>	<b>3.1</b>	<b>1.5</b>	<b>0.3</b>
Other plateau/mountain provinces	97.6	1.5	0.7	0.3
Kampong Speu	98.8	0.7	0.2	0.4
<i>All plateau/mountain provinces</i>	<b>96.4</b>	<b>2.2</b>	<b>1.2</b>	<b>0.3</b>
<i>All Cambodia</i>	<b>94.8</b>	<b>3.6</b>	<b>1.3</b>	<b>0.2</b>

<b>Dwelling Space and Room</b>	<b>Floor Area</b>	<b>Sq. Meters per Person</b>	<b>N. of Rooms in Dwelling</b>	<b>N. of Person per Room</b>
<i>Phnom Penh</i>	<b>64.3</b>	<b>11.3</b>	<b>2.0</b>	<b>2.6</b>
<i>All Plain Provinces</i>	<b>39.9</b>	<b>8.2</b>	<b>1.3</b>	<b>3.8</b>
Kampong Cham	43.9	9.1	1.4	3.4
Kandal	41.1	7.7	1.3	4.2
Prey Veang	37.9	8.4	1.1	4.0
Svay Rieng	32.4	6.9	1.2	3.8
Takeo	37.1	7.5	1.3	3.8
<i>All Ton Le Sap provinces</i>	<b>39.5</b>	<b>7.8</b>	<b>1.3</b>	<b>4.0</b>
Banteay Meanchey	42.1	8.8	1.2	3.9
Battambang	34.3	6.8	1.3	4.0
Kampong Thum	39.3	7.6	1.2	4.4
Siem Reap	44.6	8.3	1.4	3.9
Other Ton Le Sap provinces	38.4	7.9	1.2	4.0
<i>All coastal provinces</i>	<b>38.4</b>	<b>7.8</b>	<b>1.3</b>	<b>3.7</b>
Other plateau/mountain provinces	46.0	7.9	1.4	4.0
Kampong Speu	32.7	6.6	1.2	4.5
<i>All plateau/mountain provinces</i>	<b>39.5</b>	<b>9.0</b>	<b>1.3</b>	<b>3.6</b>
<i>All Cambodia</i>	<b>42.0</b>	<b>8.0</b>	<b>1.3</b>	<b>3.9</b>

<b>Drinking Water</b>			
<b>Table 3.1</b>			
<b>Water</b>	<b>Access to Safe Drinking Water (Wet season)</b>	<b>Access to Safe Drinking Water (Dry season)</b>	<b>Treatment of Drinking Water</b>
<i>Phnom Penh</i>	<i>88.4</i>	<i>87.5</i>	<i>95.0</i>
<i>All Plain Provinces</i>	<i>76.4</i>	<i>64.8</i>	<i>70.7</i>
Kampong Cham	69.5	63.4	61.6
Kandal	66.2	40.2	65.8
Prey Veang	92.0	91.6	64.7
Svay Rieng	92.3	92.0	71.3
Takeo	73.9	49.3	76.2
<i>All Ton Le Sap provinces</i>	<i>63.4</i>	<i>47.0</i>	<i>54.2</i>
Banteay Meanchey	66.8	21.9	37.8
Battambang	67.2	40.7	64.6
Kampong Thum	60.6	61.2	59.0
Siem Reap	53.4	50.9	37.9
Other Ton Le Sap provinces	67.4	57.6	65.9
<i>All coastal provinces</i>	<i>61.6</i>	<i>30.6</i>	<i>66.3</i>
Other plateau/mountain provinces	59.1	41.2	70.1
Kampong Speu	68.6	44.4	68.7
<i>All plateau/mountain provinces</i>	<i>50.0</i>	<i>38.1</i>	<i>71.4</i>
<i>All Cambodia</i>	<i>70.5</i>	<i>56.3</i>	<i>67.4</i>

<b>Sanitation Facilities</b>	
<b>Table 4.1</b>	
<b>Sanitation Facilities</b>	<b>Access to Improved Sanitation</b>
<i>Phnom Penh</i>	<i>90.0</i>
<i>All Plain Provinces</i>	<i>17.3</i>
Kampong Cham	16.7
Kandal	27.4
Prey Veang	9.7
Svay Rieng	11.6
Takeo	18.2
<i>All Ton Le Sap provinces</i>	<i>21.3</i>
Banteay Meanchey	20.9
Battambang	41.6
Kampong Thum	18.6
Siem Reap	11.8
Other Ton Le Sap provinces	12.2
<i>All coastal provinces</i>	<i>22.4</i>
Other plateau/mountain provinces	15.5
Kampong Speu	11.7
<i>All plateau/mountain provinces</i>	<i>19.1</i>
<i>All Cambodia</i>	<i>24.5</i>

**Energy Source for Lighting & Cooking**

**Table 5.1**

Energy Sources	Access to Public Electricity of Lighting	Access to Firewood for Cooking	Access to Charcoal for Cooking
<i>Phnom Penh</i>	<i>84.0</i>	<i>13.8</i>	<i>24.4</i>
<i>All Plain Provinces</i>	<i>5.0</i>	<i>94.1</i>	<i>1.8</i>
Kampong Cham	4.9	95.9	1.7
Kandal	10.1	89.1	3.4
Prey Veang	2.9	96.6	0.7
Svay Rieng	3.9	95.6	0.4
Takeo	1.7	93.0	2.0
<i>All Ton Le Sap provinces</i>	<i>7.9</i>	<i>87.7</i>	<i>7.1</i>
Banteay Meanchey	7.4	78.4	15.8
Battambang	12.6	82.7	10.1
Kampong Thum	3.9	93.4	2.0
Siem Reap	9.9	91.1	3.8
Other Ton Le Sap provinces	5.2	92.1	4.2
<i>All coastal provinces</i>	<i>12.7</i>	<i>80.6</i>	<i>12.9</i>
Other plateau/mountain provinces	6.0	93.4	3.6
Kampong Speu	2.4	97.6	0.9
<i>All plateau/mountain provinces</i>	<i>9.4</i>	<i>89.3</i>	<i>6.1</i>
<i>All Cambodia</i>	<i>12.8</i>	<i>84.8</i>	<i>6.2</i>

**Thank You  
for  
Your Attention !**