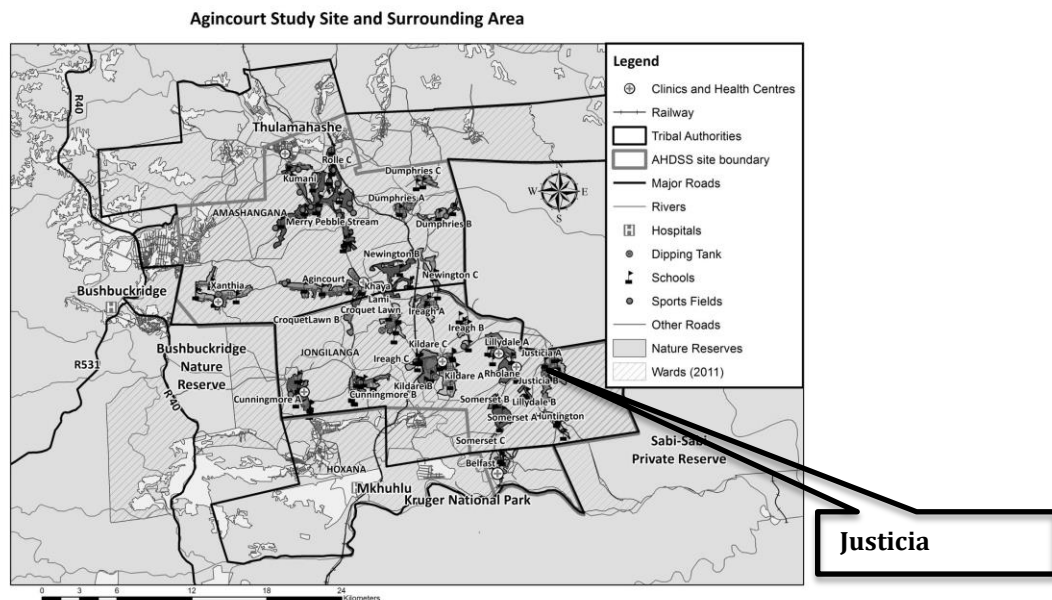


# JUSTICIA VILLAGE FACT SHEET 2014

This “Fact Sheet” provides basic information on population changes and demographics for Justicia village. All statistics have been produced from household data collected by fieldworkers from the MRC/Wits Rural Public Health and Health Transitions Research Unit (Agincourt) and collaborating researchers. Ask the Agincourt LINC (learning, Information dissemination and Networking with the Community) team for more information if needed. There is a fact sheet for each village that is a part of the Agincourt Health and Socio-Demographic Surveillance System (AHDSS) site. The CDF (Community Development Forum) members of each village will each have the fact sheet, the fact sheet is on the website <http://www.agincourt.co.za/index.php/activities/linc/> and you can get it from the LINC office in Agincourt village. The figures provided indicate the trends that are taking place in your village. They can be used to motivate for community development projects and to predict future growth and needs. Whenever you use this information, please reference it as being obtained from MRC/Wits Rural Public Health and Health Transitions Research Unit (Agincourt).

*Villages in the Agincourt Health and Socio-Demographic Surveillance (HDSS) System Research Site in 2014 include:*

Agincourt, Belfast, Croquet Lawn, Croquet Lawn B, Cunningmore A, Cunningmore B, Dumphries A, Dumphries B, Dumphries C, Huntington, Ireagh A, Ireagh B, Ireagh C, Justicia, Khaya Lami, Kildare A, Kildare B, Kumani, Lillydale A, Lillydale B, Makaringe, MP Stream, Newington B, Newington C, Rolle C, Somerset, Justicia C, and Xanthia.



## 1. DEMOGRAPHIC DATA

Demography is the study of human settlements and populations and how they change. Populations change because people are born, they die, they move in and out. This fact sheet will look at births, deaths and migrations of people in and out of Justicia village. It will also do some comparisons between what is happening in Justicia and what is happening in the rest of the Agincourt Health and Demographic Surveillance System (HDSS) research site. Smaller places (like villages) show trends that do not always show large change, especially in short time periods. Changes from year to year may be just random fluctuations.

## 1.1 Village Growth and Population over the Period 1994 - 2014

The numbers shown in **Table 1.1** are calculated according to numbers for the end of June 2014. The numbers are known as mid-year population figures.

**Table 1.1: Mid-year Figures of Justicia village, 1994, 2012-2014**

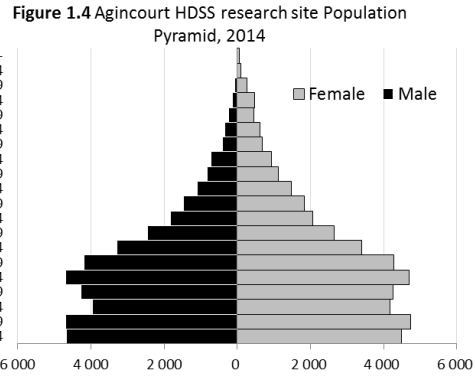
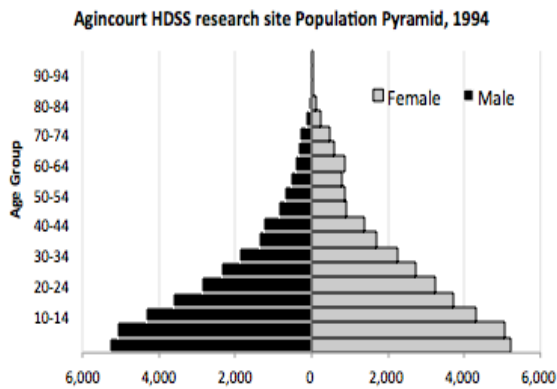
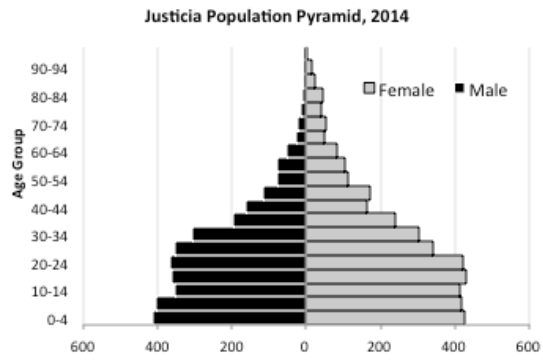
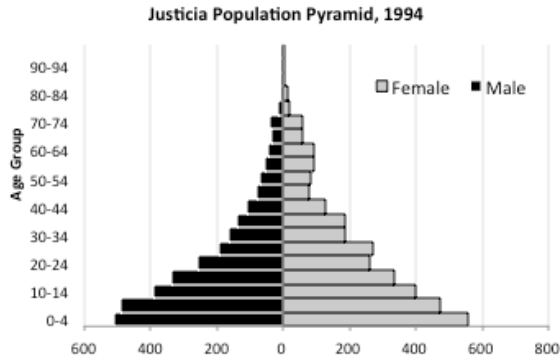
	1994	2012	2013	2014
<b>Households</b>	964	1 381	1 429	1 459
<b>Population</b>	6 253	7 016	7 114	7 171
<b>Male</b>	2 960	3 235	3 286	3 324
<b>Female</b>	3 293	3 781	3 828	3 847
<b>Children under 5</b>	1 069	834	883	840
<b>Children of school-going age (5-19)</b>	2 418	2 390	2 372	2 375

**Table 1.2** shows how many people were living in Justicia village of different ages in June 2014.

**Table 1.2 Mid-Year Population of Justicia village, 1994, 2013-2014**

Age Group	2014		
	Male	Female	Total
<b>0-4</b>	414	426	840
<b>5-9</b>	402	417	819
<b>10-14</b>	352	414	766
<b>15-19</b>	360	430	790
<b>20-24</b>	366	420	786
<b>25-29</b>	353	342	695
<b>30-34</b>	306	302	608
<b>35-39</b>	198	238	436
<b>40-44</b>	164	164	328
<b>45-49</b>	117	170	287
<b>50-54</b>	80	112	192
<b>55-59</b>	77	104	181
<b>60-64</b>	51	82	133
<b>65-69</b>	27	50	77
<b>70-74</b>	24	52	76
<b>75-79</b>	14	41	55
<b>80-84</b>	11	43	54
<b>85-89</b>	5	24	29
<b>90-94</b>	2	13	15
<b>95+</b>	1	3	4
<b>Total</b>	3 324	3 847	7 171

You can compare the population structure between Justicia village and the Agincourt HDSS research site (1994 and 2014) by looking at the population pyramids. These pyramids are in **Figures 1.1, 1.2, 1.3 and 1.4** (page 3).



**Take home message:** The number of households in Justicia village has increased since 1994. The population has increased since 1994. The population structure of Justicia village follows the structure of the Agincourt HDSS research site.

## 1.2 Births

### 1.2.1 Number of Births by Gender

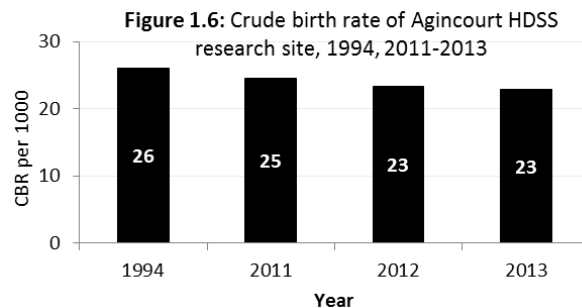
The number of births recorded in Justicia village is shown in **Table 1.3** below. We can only provide data to the end of 2013. We compared the birth trends in Justicia village with the rest of the Agincourt HDSS research site in **Figures 1.5** and **1.6**.

	1994	2011	2012	2013
<b>Male Births</b>	100	92	95	93
<b>Female Births</b>	97	82	91	73
<b>Total Births</b>	197	174	186	166

The numbers of births show an downward trend in Justicia village.

### 1.2.2 Crude Birth Rate

**Figure 1.5** shows the crude birth rate in Justicia village from 1994 to 2013. **Figure 1.6** shows the crude birth rates in the Agincourt HDSS research site from 1994 to 2013.



The crude birth rate is found by comparing the number of babies born to the total population. For example, in **Figure 1.5** above, for every 1000 people living in Justicia village in the year 2013, 23 babies were born.

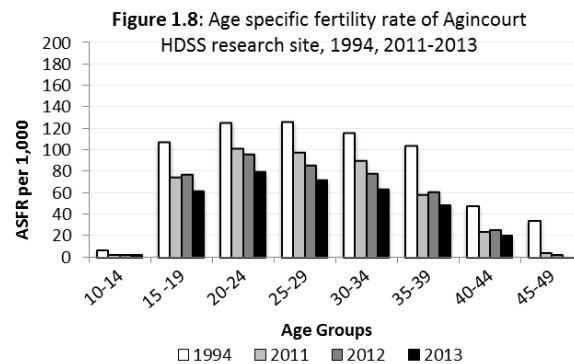
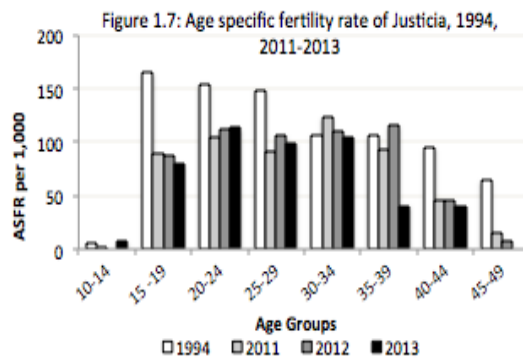
When you compare the crude birth rates in Justicia village with the crude birth rate for the whole of the Agincourt HDSS research site, they are not that similar. One difference is in 2012 Justicia had an increase in births and Agincourt HDSS had a decrease.

### 1.2.3 Births by Mother's Age and Age Specific Fertility Rates

Research within the Agincourt HDSS research site continues to look closely at fertility. **Table 1.4** shows you the number of babies born to mothers of different ages in Justicia village.

Age Groups	1994	2011	2012	2013
10-14	2	3	0	3
15-19	55	41	38	35
20-24	40	41	47	46
25-29	40	37	37	35
30-34	20	29	30	31
35-39	20	8	25	9
40-44	12	8	8	7
45-49	5	1	1	0
<b>Total Births</b>	<b>194</b>	<b>168</b>	<b>186</b>	<b>166</b>

We can also look at trends across the whole site and compare them with Justicia village by looking at **Figures 1.7** and **1.8**.



We find the age specific fertility rate by looking at how many women in a certain age group have had babies in a certain year. For example, if we look at **Figure 1.7**, we can see that in the year 2013 in Justicia village, for every 1000 women ages 15-19, about 85 of them gave birth.

**Take home message:** 2013 saw significant decreases in fertility in the 15-19, 25-29, 30-34, 35-39 and 40-44 age groups. However, in the other age groups there was an increase in fertility in 2013.

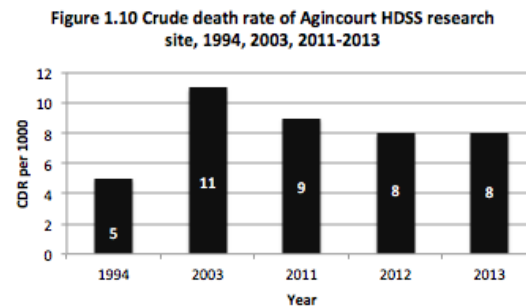
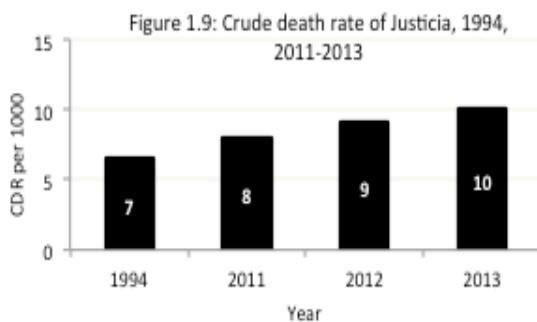
## 1.2 Deaths

### 1.3.1 Deaths

The MRC/Wits Agincourt Unit only gives *numbers* of deaths for each age group in each village, not the *cause* of death. The number of deaths occurring is low and if the cause of death is given, then a person's confidentiality may be broken. **Table 1.5** shows the total number of deaths that occurred in Justicia village in 1994 and from 2011 through to 2013.

	1994	2011	2012	2013
<b>Male Deaths</b>	26	21	31	37
<b>Female Deaths</b>	15	34	33	34
<b>Total Deaths</b>	41	55	64	71

**Figures 1.9** and **1.10** show crude death rates over the same period in Justicia village and across the Agincourt HDSS research site.



The crude death rate is found by looking at how many people died for every 1000 people living in the population. For example, in 2012 for every 1000 people in the population of Justicia village, 9 died.

The data shows that the crude death rate has increased greatly from the levels seen in 1994, across the whole population of the Agincourt HDSS research site. However, there is a suggestion that the death rate may be falling. We need to carry on watching these figures to see if this is really a trend. We are beginning to think that there really is a downward trend in death rates, probably because of the increase in ARVs for people with HIV.

### 1.3.2. Main Causes of Death in the Agincourt HDSS Site in different Age Groups

**Table 1.6** shows the top causes of death for different age groups. HIV/AIDS remains the most common causes of death but it is no longer the top cause of death for people who are over 65.

**Table 1.6:** Top Causes of Death in Age Bands, Agincourt HDSS research site, 1994, 2003 and 2014

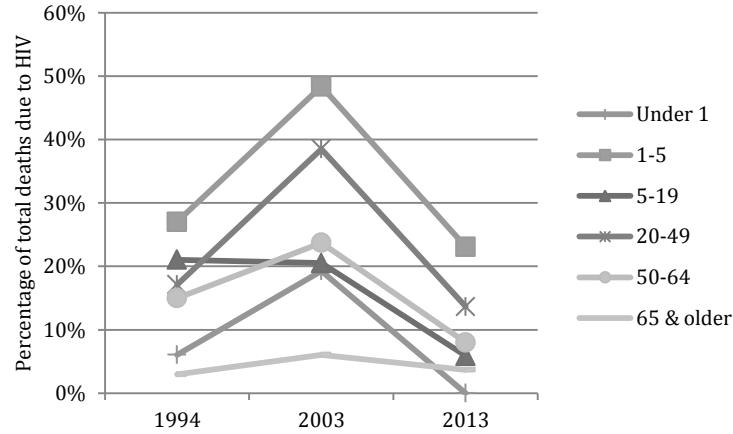
Age group	1994			2003			2013		
	Total	Top causes of death	#	Total	Top causes of death	#	Total	Top causes of death	#
Under 1	33	Acute respiratory infection including pneumonia	8	83	Acute respiratory infection including pneumonia	25	41	Unknown	6
		Diarrhoeal diseases	6		HIV/AIDS related	15		Acute respiratory infection including pneumonia	4
		Unknown	6		Unknown	11		Neonatal pneumonia	4
		Prematurity	3		Diarrhoeal diseases	10		Diarrhoeal diseases	3
		Birth asphyxia	2		Neonatal pneumonia	5		Malaria	2
1-4	37	Unknown	12	62	HIV/AIDS related	29	26	HIV/AIDS related	6
		HIV/AIDS related	10		Diarrhoeal diseases	9		Acute respiratory infection including pneumonia	4
		Diarrhoeal diseases	6		Acute respiratory infection including pneumonia	6		Malaria	2
		Acute respiratory infection including pneumonia	4		Unknown	6		Diarrhoeal diseases	1
		Road traffic accident	2		Malaria	3		Pulmonary tuberculosis	1
5-19	19	Unknown	4	39	HIV/AIDS related	8	17	Unknown	4
		Assault	3		Unknown	7		Intentional self-harm	2
		HIV/AIDS related	3		Road traffic accident	4		Asthma	2
		Acute respiratory infection including pneumonia	1		Pulmonary tuberculosis	4		Reproductive cancers	1
		Haemorrhagic fever	1		Assault	3		Other infectious diseases	1
20-49	76	Pulmonary tuberculosis	13	335	HIV/AIDS related	128	271	HIV/AIDS related	37
		HIV/AIDS related	12		Pulmonary tuberculosis	102		Pulmonary tuberculosis	34
		Assault	12		Unknown	23		Acute respiratory infection including pneumonia	29
		Road traffic accident	9		Road traffic accident	10		Unknown	17
		Unknown	8		Intentional self-harm	9		Asthma	11
50-64	40	Unknown	8	118	HIV/AIDS related	25	100	Asthma	8
		HIV/AIDS related	5		Pulmonary tuberculosis	25		Cardiac disease	8
		Pulmonary tuberculosis	5		Unknown	20		HIV/AIDS related	6
		Digestive cancers	4		Digestive cancers	7		Acute respiratory infection including pneumonia	6
		Road traffic accident	3		Acute respiratory infection including pneumonia	7		Pulmonary tuberculosis	6
65 & older	101	Unknown	25	165	Unknown	33	163	Cardiac disease	22
		Pulmonary tuberculosis	21		Pulmonary tuberculosis	24		Stroke	20
		Digestive cancers	11		Cardiac disease	15		Pulmonary tuberculosis	12
		Cardiac disease	8		Chronic obstructive pulmonary disease	13		Acute respiratory infection including pneumonia	10
		Stroke	6		Stroke	9		Asthma	8
Total	306			802			618		

- **Other infectious diseases:** Sepsis, malaria, measles, meningitis and encephalitis, tetanus, pulmonary tuberculosis, pertussis and haemorrhagic fever

### 1.3.3 A story of HIV

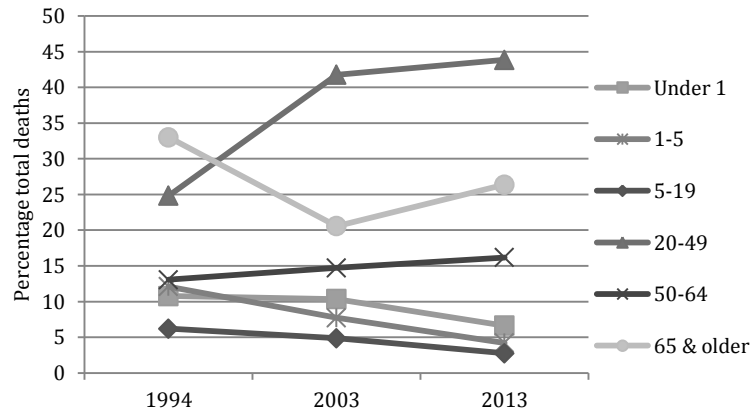
Figure A shows what percentage of deaths were caused by HIV in various age groups.

Figure A: Changes in percentage of total deaths attributable to HIV 1994-2013



The percentage of deaths due to HIV/AIDS is decreasing in all age groups. However, in Figure B, you can see that in 1994, most deaths were in the 65 and older age group, as can be expected. But in 2003, most of the deaths were in the 20-49 year age group. Despite the decrease in rates of HIV and the decrease in numbers of people dying overall, we still have a lot more work to do to reduce the death rates in the 20-49 year olds.

Figure B: Change in percentage of total deaths attributable to age group 1994-2013 whole Agincourt HDSS



**Take home message:** The total number of deaths in all age groups is decreasing. HIV/AIDS related illnesses continue to be a large cause of death throughout the population. Although, since 1994 the number of deaths due to HIV/AIDS related illnesses has decreased. Other top causes of death in 2013 include pulmonary tuberculosis and different kinds of pneumonia.



## 1.2 MIGRATION

### 1.4.1 Permanent migration patterns

Tables 1.7 and 1.8 describe how many people have moved in to Justicia village permanently and out of Justicia village permanently.

	1994	2012	2013	2014
<b>Male In-Migrants</b>	203	144	132	75
<b>Female In-Migrants</b>	315	276	224	117
<b>Total</b>	518	420	356	192

	1994	2012	2013	2014
<b>Male Out-Migrants</b>	274	147	156	80
<b>Female Out-Migrants</b>	408	252	263	116
<b>Total Out-Migrants</b>	682	399	419	196

**Take home message:** The number of people permanently moving in and out of Justicia village is decreasing. There were more than half as many migrations out of Justicia in 2013 as there were in 2012. It is important to understand how many people are moving in and out of the village.

## 2. SOCIOECONOMIC DATA

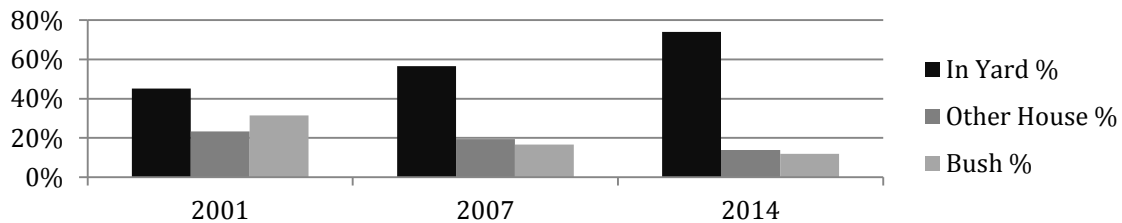
### 2.1 Toilets

#### 2.1.1 Location of Toilets

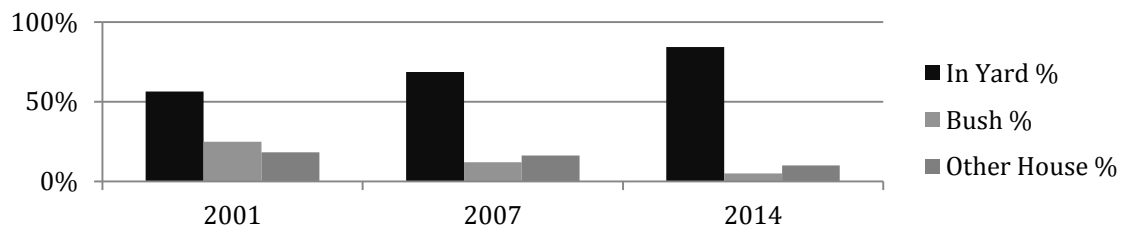
**Table 2.1** shows the location of toilets within households in Justicia Village between 2001, 2007 and 2014.

<b>Table 2.1: Change in where household toilets are situated in Justicia A village, 2001-2014</b>						
Year	Total households	In House	In Yard	Other House	Bush	Unknown
2001	1010	1	456	236	317	0
2007	1158	6	654	225	193	80
2014	1256	0	930	174	150	2

**Figure 2.1:** Change in where households toilets are situated in Justicia A village, 2001-2014



**Figure 2.2:** Change in where households toilets are situated in whole Agincourt HDSS, 2001-2014



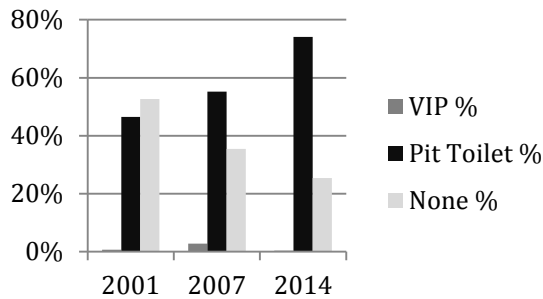
### 2.1.2 Type of Toilets.

Table 2.2 shows the change in the types of toilets being used in Justicia village.

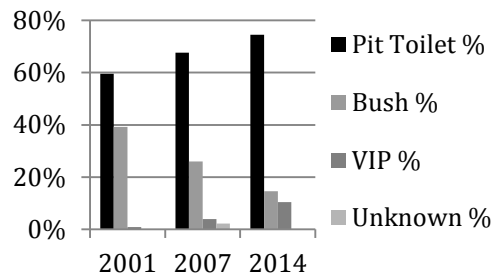
Table 2.2 Change in type of toilets in Justicia A village, 2001-2014						
Year	Total households	Pit Toilet	None	VIP	Modern	Unknown
2001	1010	469	532	7	1	1
2007	1158	639	410	32	2	75
2014	1256	931	319	4	0	2

Figures 2.5 and 2.6 show the percentage of each type of toilet in Justicia village and the Agincourt HDSS research site. Data is given for 2001, 2007 and 2014.

**Figure 2.3:** Change in type of toilets in Justicia A village, 2001-2014



**Figure 2.4:** Change in type of toilets in whole Agincourt HDSS, 2001-2014



**Take home message:** The percentage of households with a toilet in Justicia village reflects that of the Agincourt HDSS research site. The percentage of households with toilets has been going up. More and more households have toilets within the yard of the household. The number of toilets in households in Justicia village and in Agincourt HDSS research site has been increasing. The percent of pit toilets in Justicia villages is increasing and the percent of VIP toilets is decreasing. The percent of pit toilets in the whole Agincourt HDSS is increasing and the percent of VIP toilets is increasing as well. Generally, more toilets are appearing in Agincourt HDSS of various types.

## 2.2 Water.

### 2.2.1 Source of Water

Table 2.3 shows the changes in the source of water within Justicia village.

Table 2.3: Change in source of water in Justicia village, 2001-2014								
Year	Total households	Tap in Street	Cement well	Tap in Yard	Tap in House	Truck	Traditional well	Other
2001	1010	90	0	5	1	1	1	10
2007	1158	858	0	196	14	2	0	10
2014	1256	981	3	172	14	15	0	64

Figure 2.5 and 2.6 shows this data in percentages, not numbers. Data is given for 2001-2014. Data is shown for Justicia village and Agincourt HDSS.

Figure 2.5: Change in source of water in Justicia A village, 2001-2014

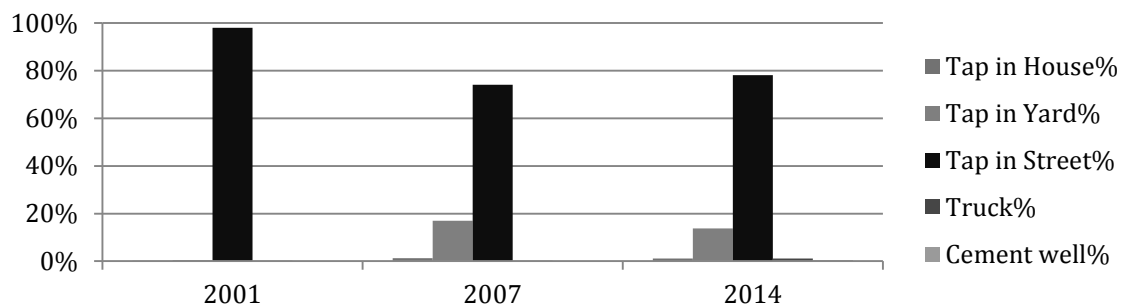
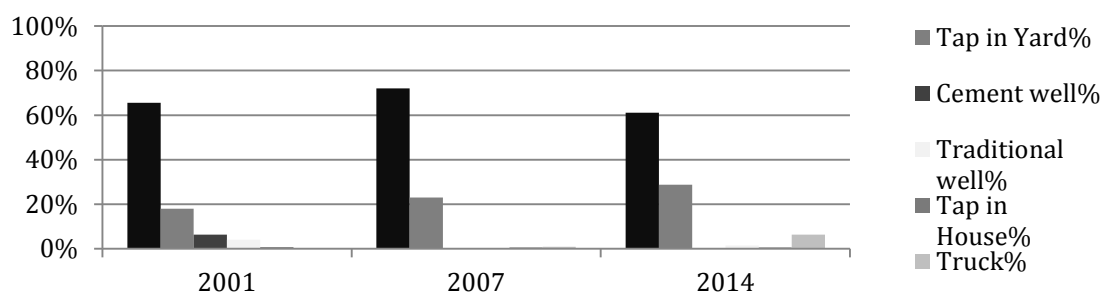


Figure 2.6: Change in source of water in whole Agincourt HDSS, 2001-2014



## 2.2.2 Availability of Water

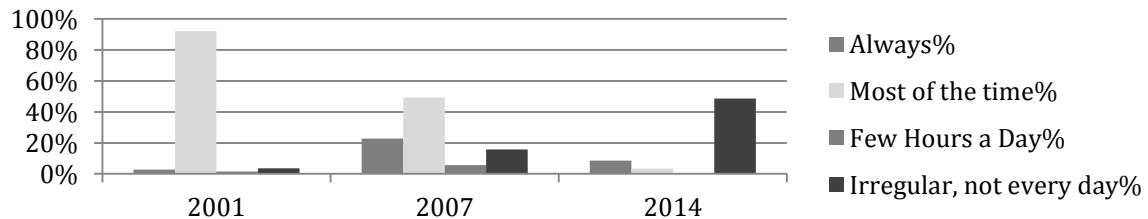
**Table 2.4** shows the change in availability of water in Justicia village. The table shows data for the years 2001, 2007 and 2014.

**Table 2.4:** Change in water availability Justicia village, 2001-2014

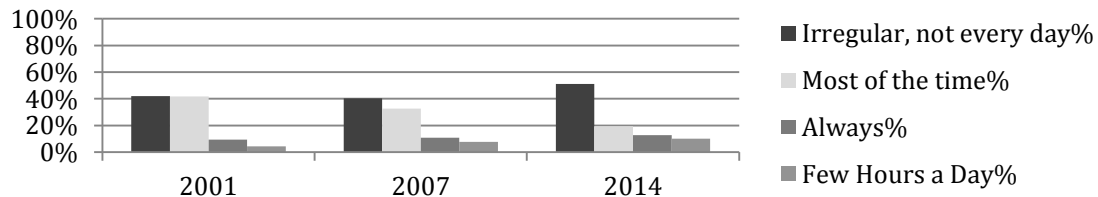
Year	Total households	Irregular, not every day	Most of the time	Always	Few Hours a Day	Very irregular	Unknown
2001	1010	36	931	28	15	0	0
2007	1158	182	569	265	65	0	77
2014	1256	610	42	107	6	489	2

**Figures 2.7 and 2.8** show this data in percentages, not numbers. The availability of water in Justicia village can be compared to the availability of water in the entire Agincourt HDSS.

**Figure 2.7:** Change in availability of water in Justicia A village, 2001-2014



**Figure 2.8:** Change in availability of water in whole Agincourt HDSS, 2001-2014



**Take home message:** The source of water in Justicia village has changed since 2001. The percent of taps in yards has decreased. Since 2001, the percent of taps in the street has gone down. The percent of taps in yards has increased in Agincourt HDSS and the percent of taps in streets has decreased. The availability of water in both Justicia village and Agincourt HDSS has become more irregular since the year of 2001. This means that there is no guarantee that there will be access to water on any given day.