

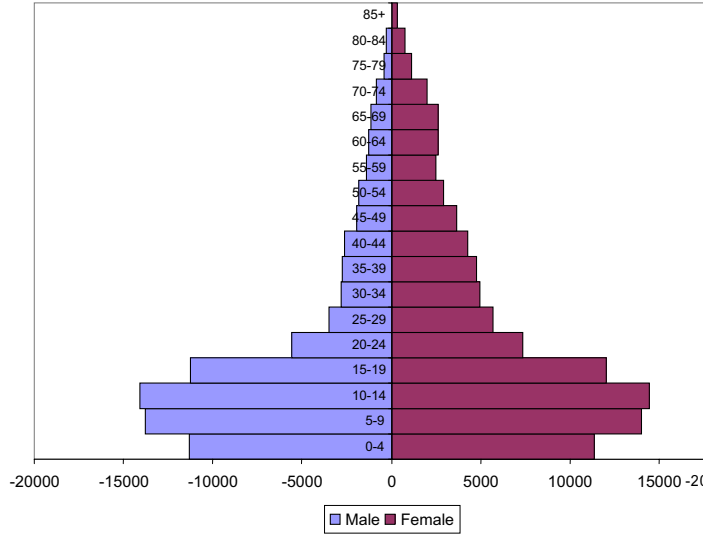
Appendix I: List of collaborating hospitals

Magisterial Area	Facility
Umzimkhulu	Rietvlei Hospital
Bizana	St Patrick's Hospital
	Greenville Hospital
Lusikisiki	St Elizabeth Hospital
	Holy Cross Hospital
	Bambisana Hospital
Port St Johns	Port St Johns Health Day Centre
	Isilimela Hospital
Butterworth	Butterworth Hospital
Centane	Tafalofefe Hospital
Surrounding area: East London	Frere Hospital Oncology and Radiotherapy Department
	Frere Hospital Paediatric Unit
	Frere Hospital Haematology Clinic
	Cecilia Makiwane Hospital
Surrounding area: Kokstad	Usher Memorial Hospital
Surrounding area: Mthatha	Mthatha General Hospital Oncology Unit
	Nelson Mandela Medical School
	Nelson Mandela Pathology Laboratory
Referral area: Durban	Inkosi Albert Luthuli Comprehensive Hospital
	King George V Hospital Cardio-Thoracic Surgery Unit
	Addington Hospital Oncology and Radiotherapy Department

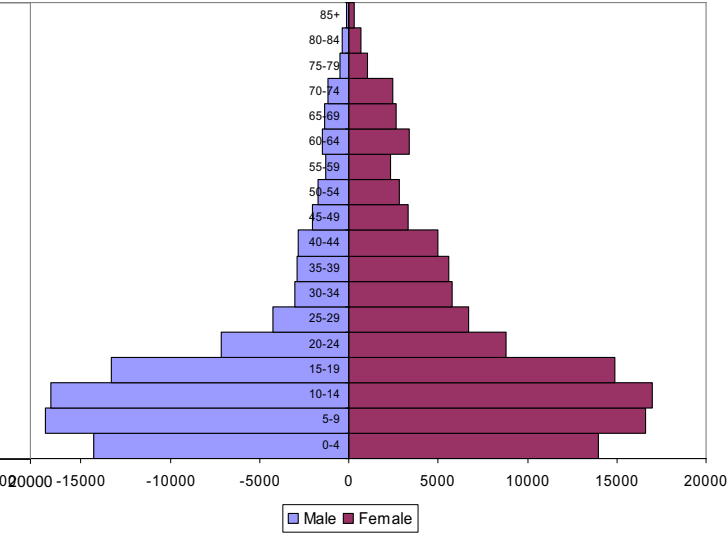
Appendix II: Age pyramids by magisterial area

Northern Region

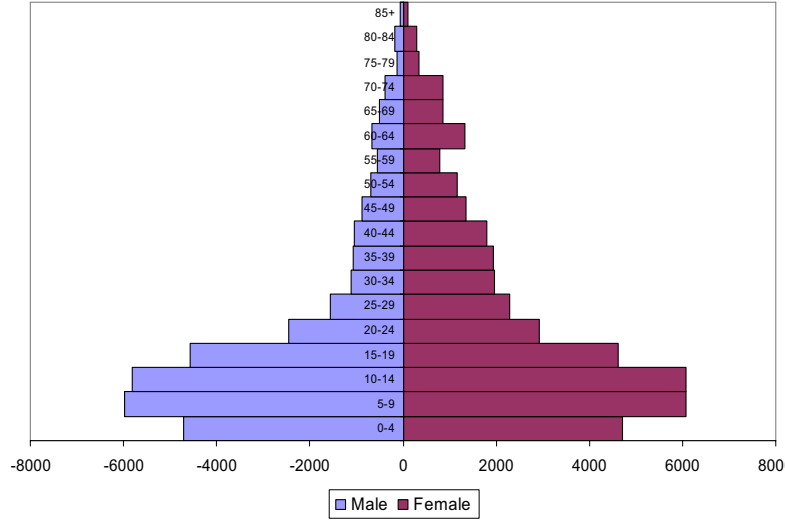
Umzimkhulu
Population 174 330



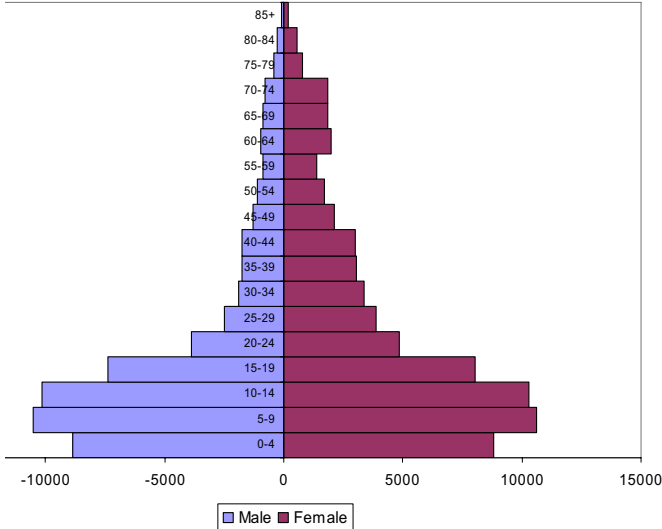
Bizana
Population 204 761



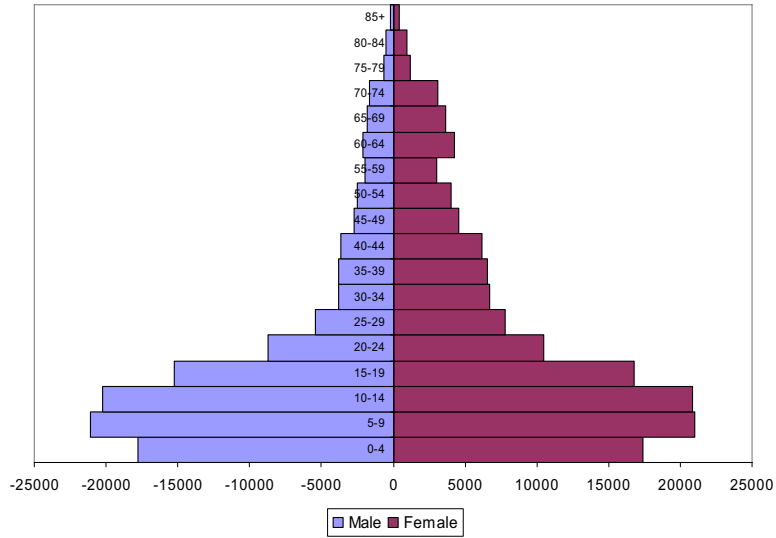
Port St Johns
Population 71 821



Flagstaff
Population 123 585



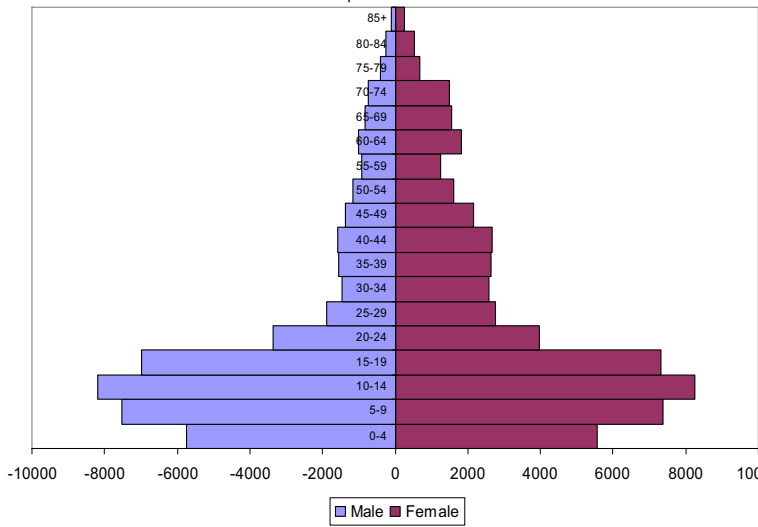
Lusikisiki
Population 252 863



Southern Region

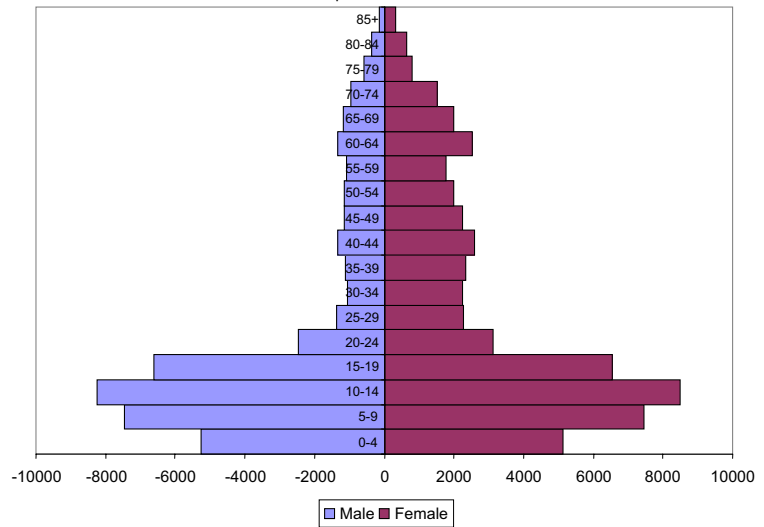
Idutywa

Population 99 655



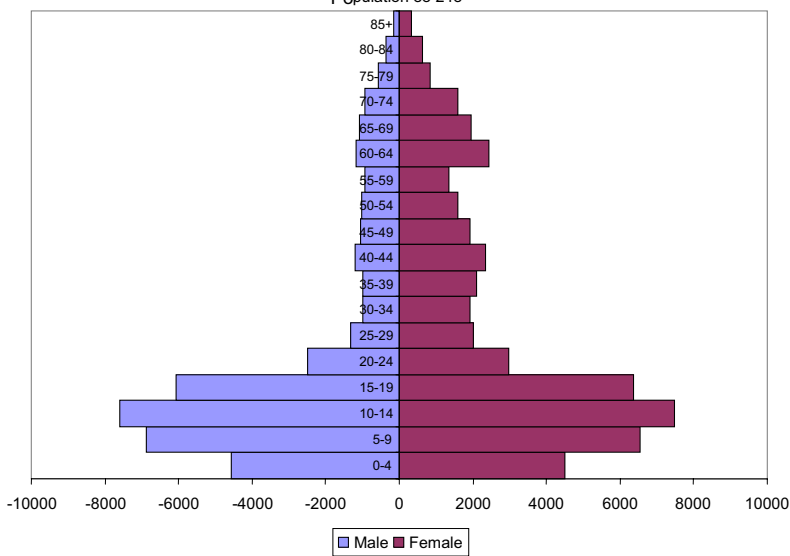
Willowvale

Population 96 780



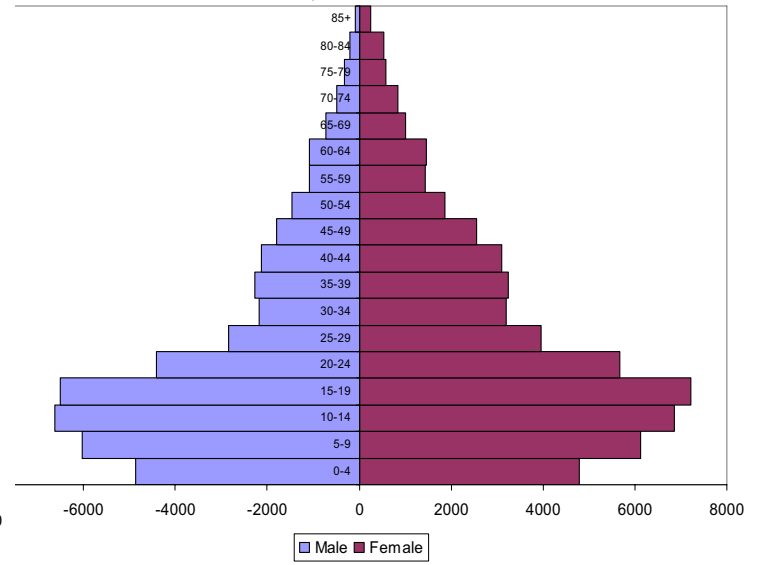
Centane

Population 88 248



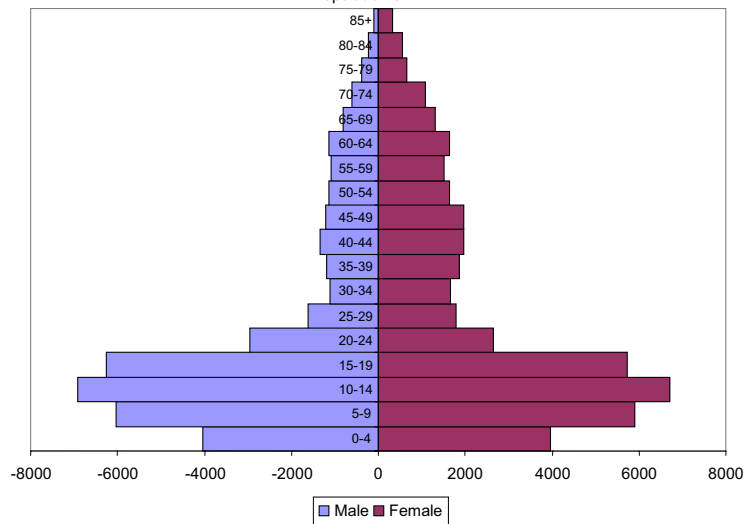
Butterworth

Population 99 766



Ngqamakhwe

Population 81 141



Appendix III: Living conditions by magisterial area

The first set of maps in this appendix (Figures 1a, 1b and 1c) show the type of water supply used by households in each main place of the municipalities in the registry area. The data are represented in pie graphs for each place and these are sized proportionately according to the number of households in that place.

Only 8% of the households in the registry area have access to piped water either in-doors or in-yard, while the majority of the households (68%) make use of dams/streams/springs or springs for their water supply. This obviously has major implications for the spread of water borne diseases.

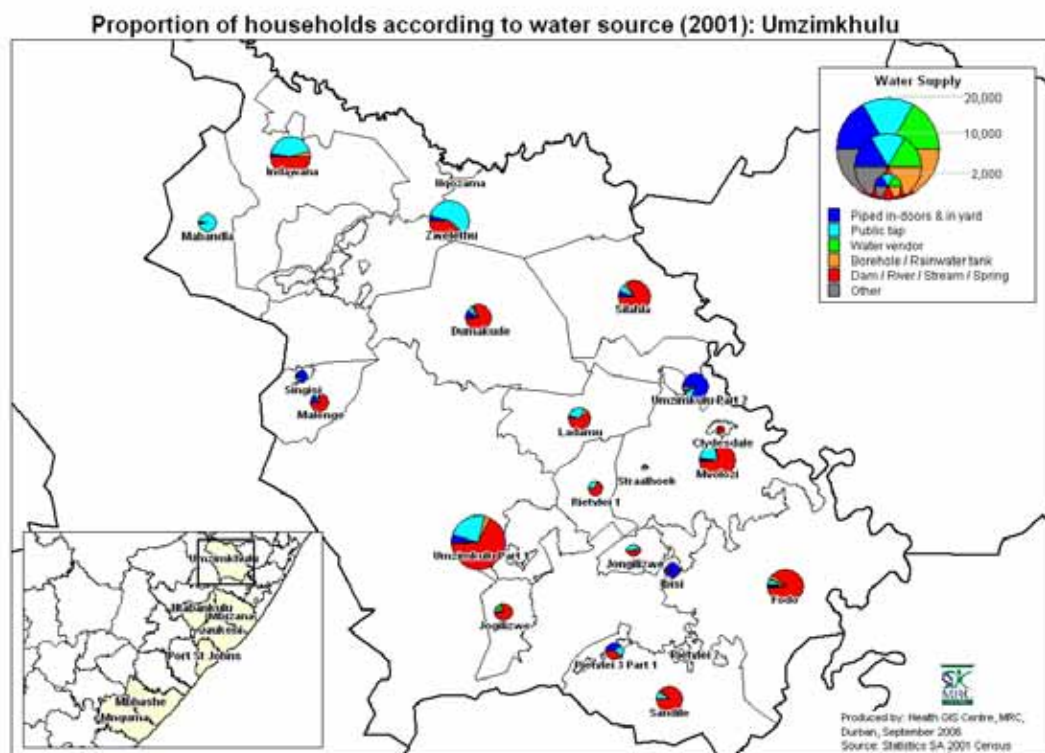
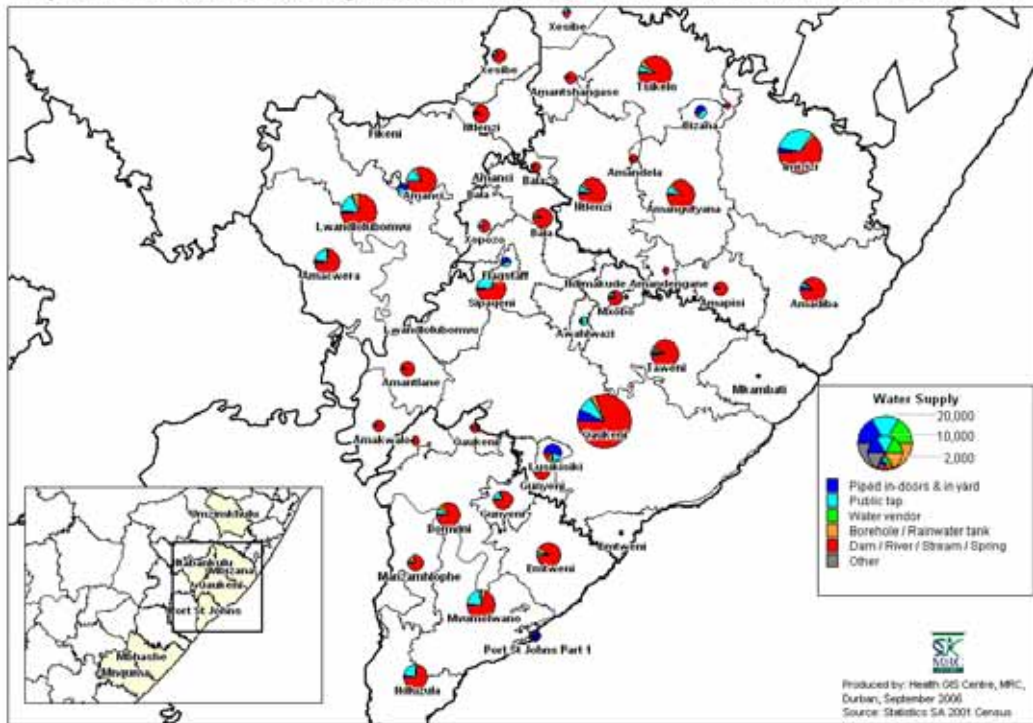


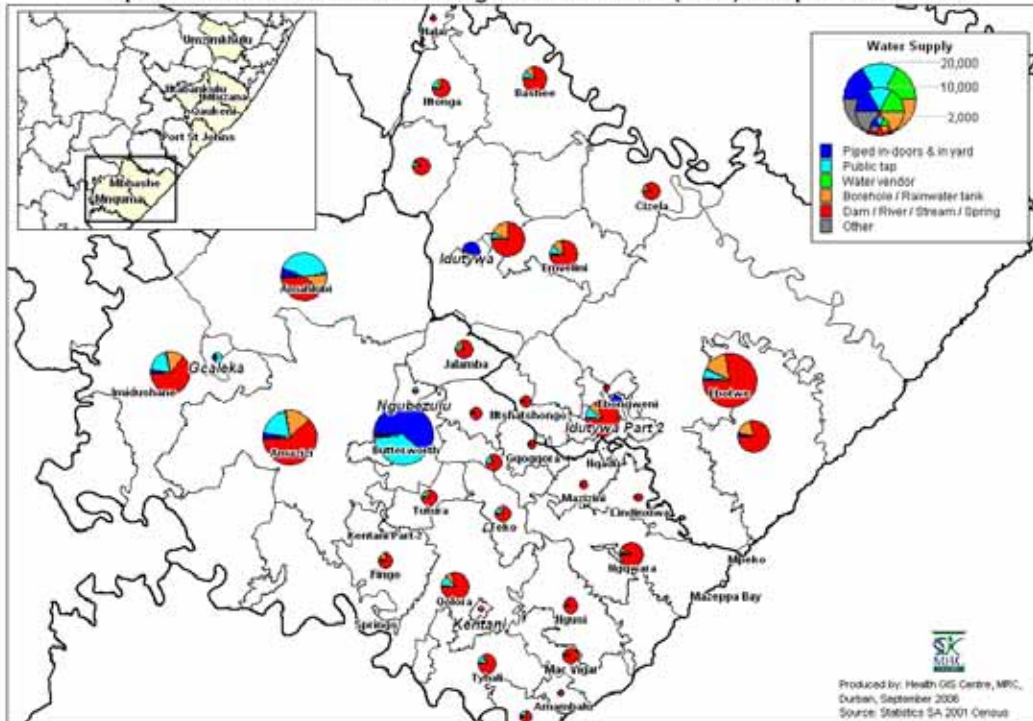
Figure 1a: Access to water, Umzimkhulu 2001

Proportion of households according to water source (2001): Port St Johns, Gaukeni, Mbizana & Ntabankulu



Figures 1b: Access to water, Northern region 2001

Proportion of households according to water source (2001): Mquma & Mbhashe



Figures 1c: Access to water, Southern region 2001

Figures 2a, 2b and 2c show the distribution of households according to sanitation and reveals that although the 51% of the households have no toilets at all this is not uniformly spread across the registry area. The households in Umzimkhulu Local municipality have higher access to pit latrines, as opposed to the other municipalities.

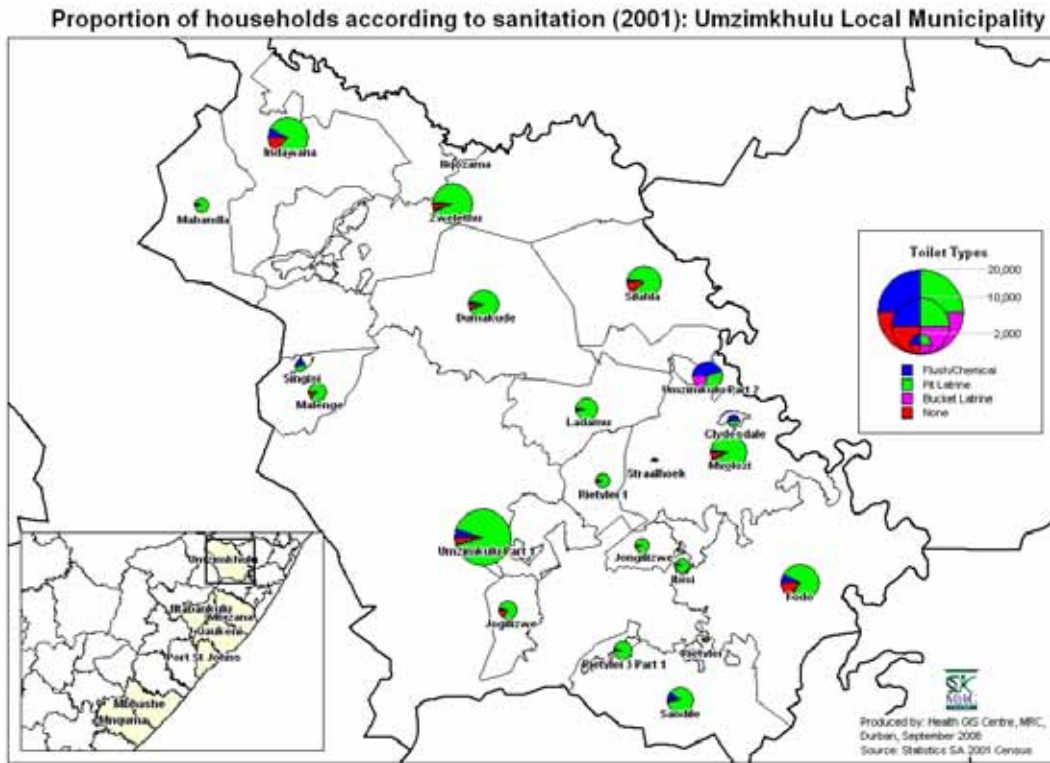
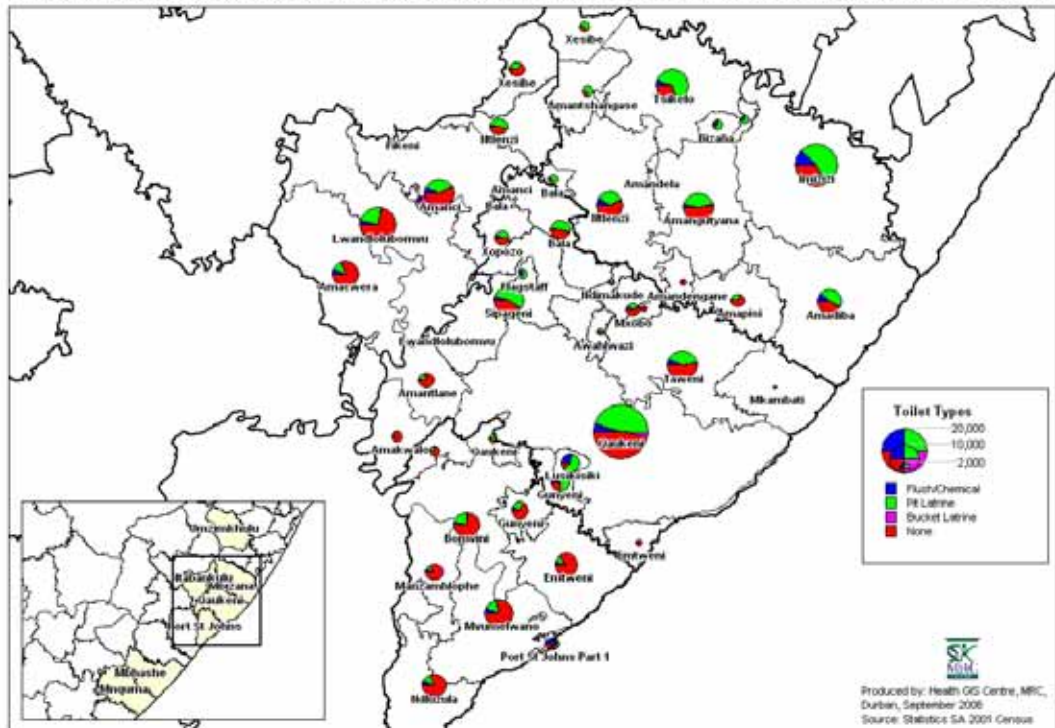


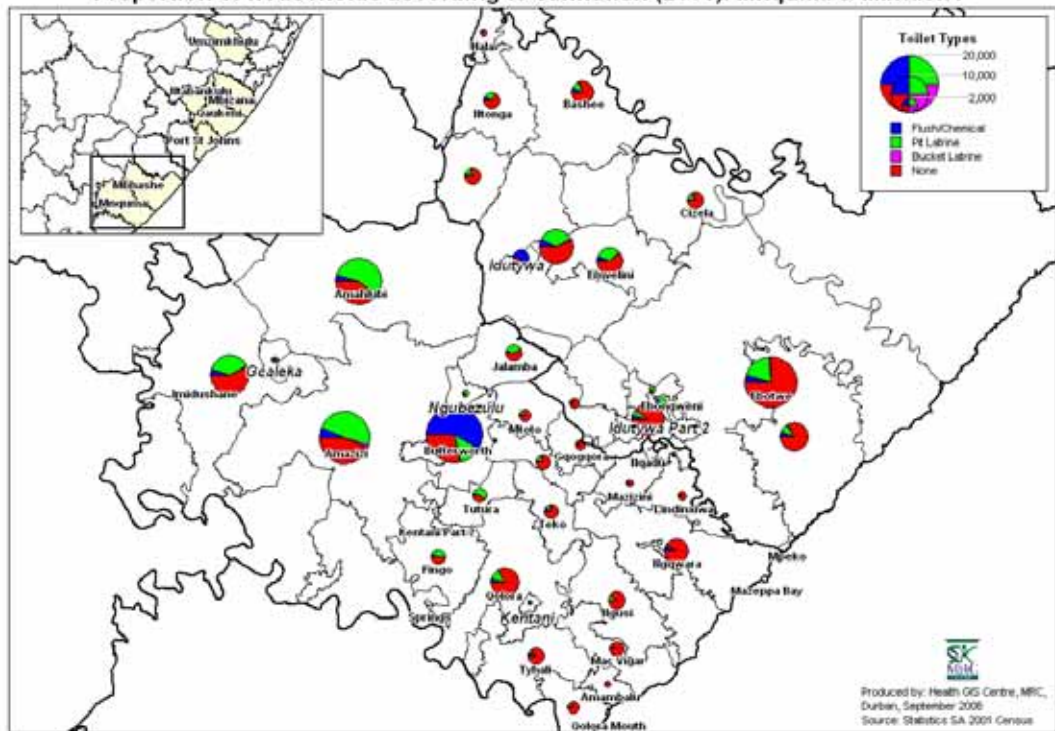
Figure 2a: Sanitation type, Umzimkhulu 2001

Proportion of households according to sanitation (2001): Port St Johns, Gaukeni, Mbizana & Ntabankulu



Figures 2b: Sanitation type, Northern region 2001

Proportion of households according to sanitation (2001): Mngquma & Mbhashe



Figures 2c: Sanitation type, Southern region 2001

Overall 22% of the households in the cancer registry surveillance area used electricity as the main source of fuel for lighting according to the census. Figures 3a, 3b and 3c show considerable variation across the region with more use of electricity in the Southern region than in the Northern region.

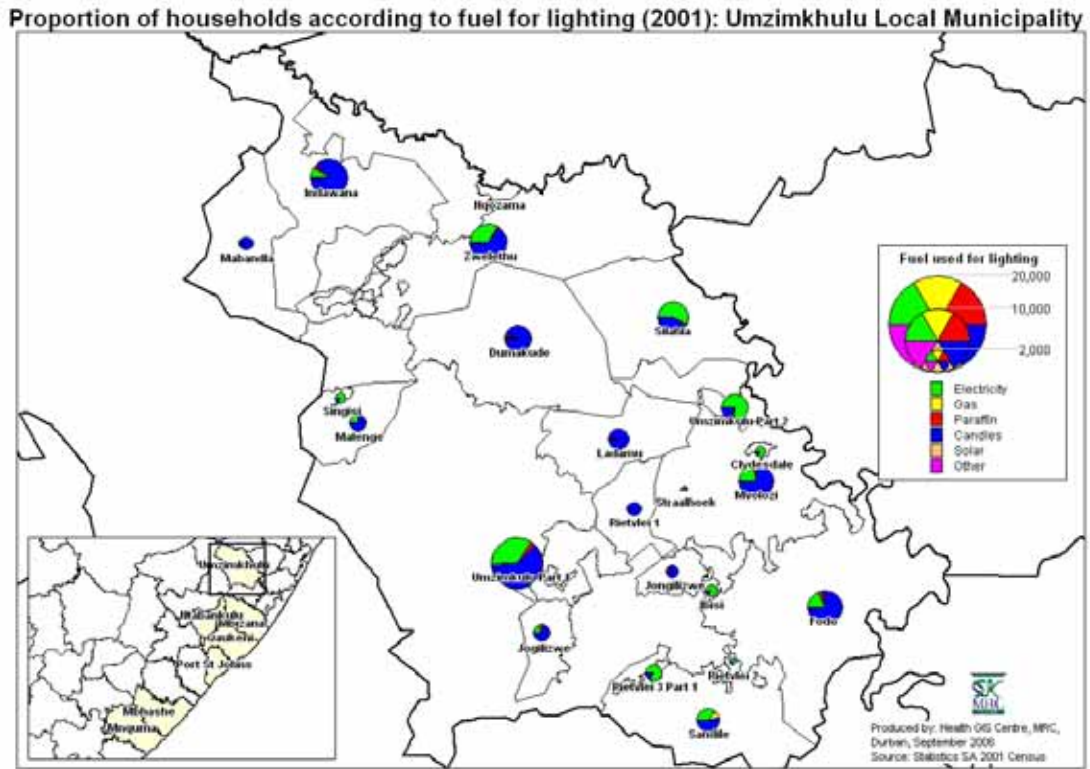


Figure 3a: Fuel used for lighting, Umzimkhulu 2001

Proportion of households according to fuel for lighting (2001): Port St Johns, Gaukeni, Mbizana & Ntabankulu

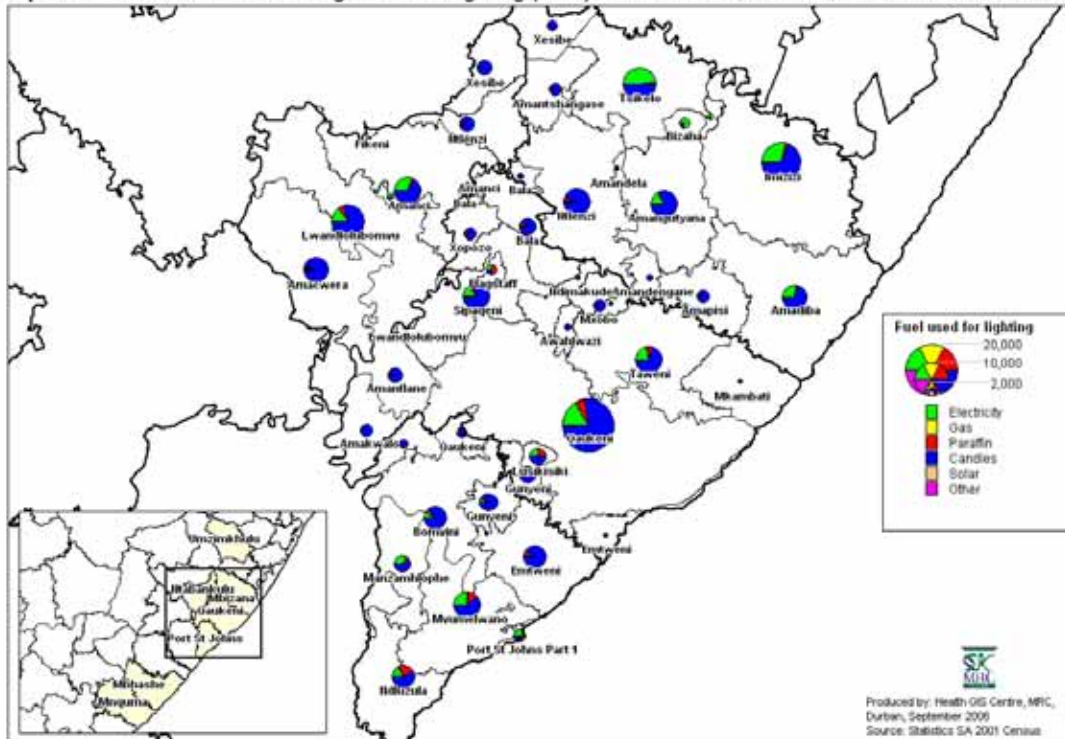


Figure 3b: Fuel used for lighting, Northern region 2001

Proportion of households according to fuel for lighting (2001): Mnquma & Mbhashe

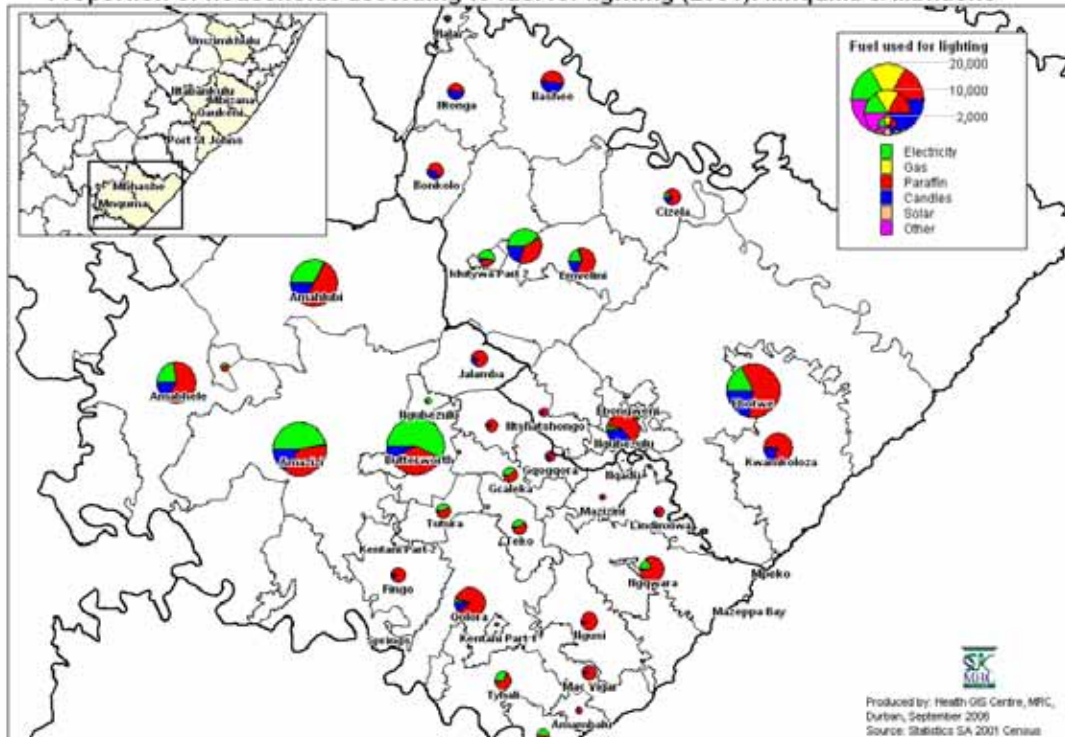


Figure 3c: Fuel used for lighting, Southern region 2001

The variation in gender head of households is displayed in the maps shown in Figures 4a, 4b and 4c. The average of 38% male headed vs. 62% female headed appears to be a uniformly found across the registry area.

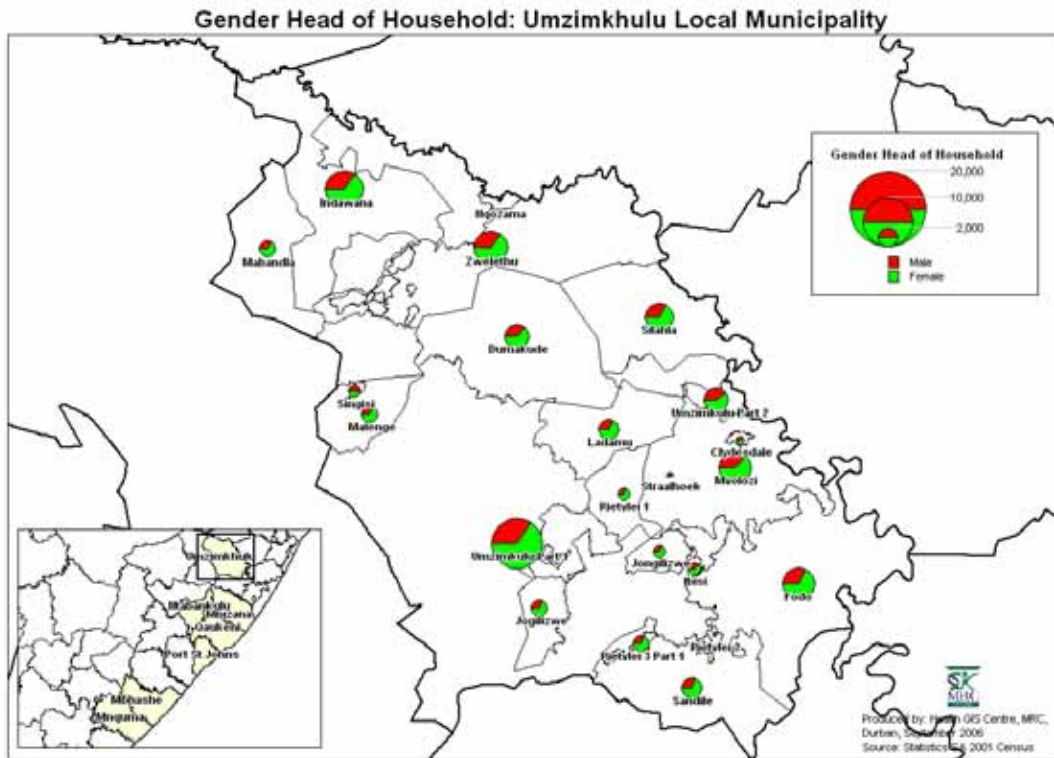
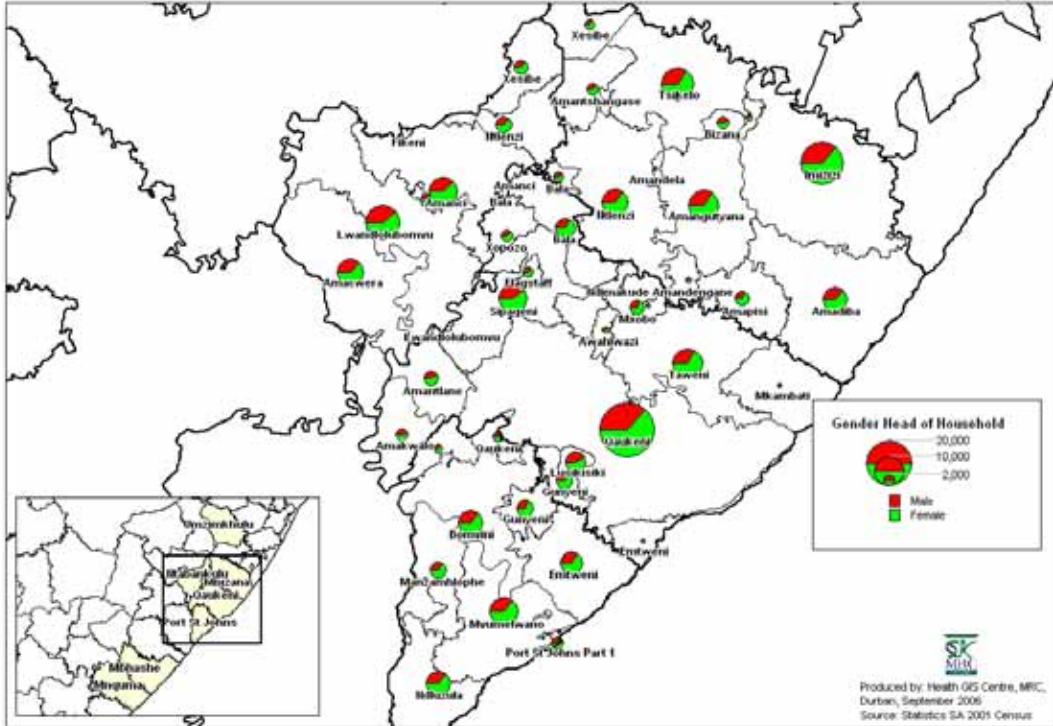


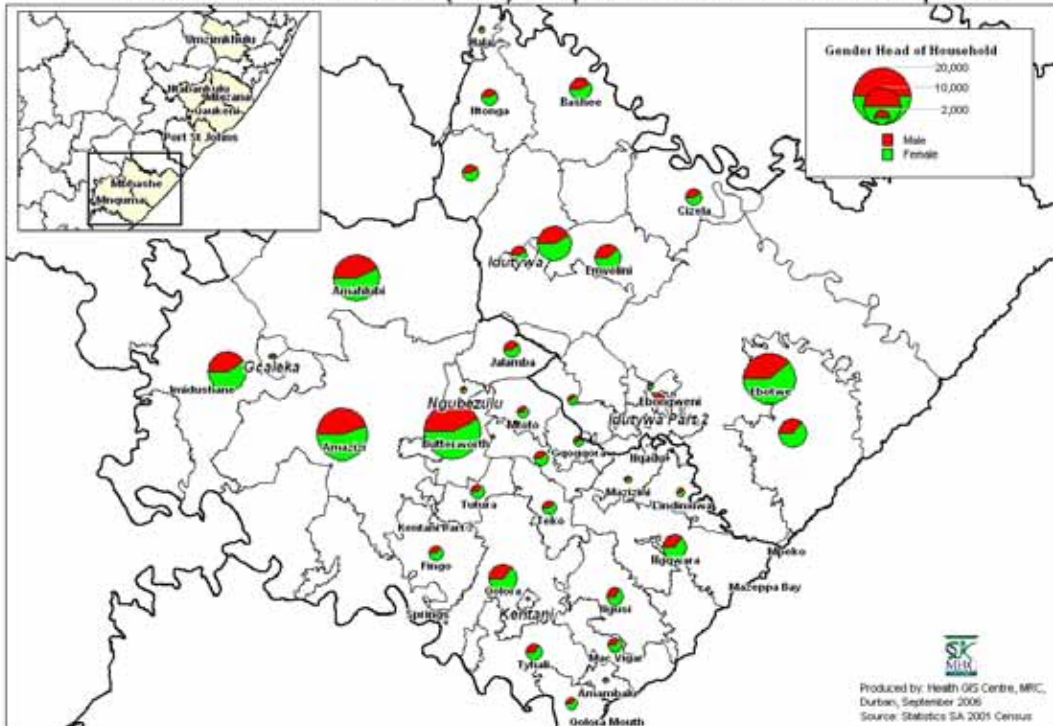
Figure 4a: Gender of head of household, Umzimkhulu 2001

Gender Head of Household: Port St Johns, Qaukeni, Mbizana & Ntabankulu Local Municipalities



Figures 4b: Gender of head of household, Northern region 2001

Gender Head of Household (2001): Mnquma & Mbashe Local Municipalities



Figures 4c: Gender of head of household, Southern region 2001

Figures 5a, 5b and 5c show the distribution of the adult population 15-49 years according to employment status. Overall, 79% of the adult population was not employed. Figure 5a shows that Umzimkhulu Part II and Singisi have the highest proportion of the adult population employed while Figure 5c shows that there are some areas in the Southern region with have higher proportions employed than most of the other areas.

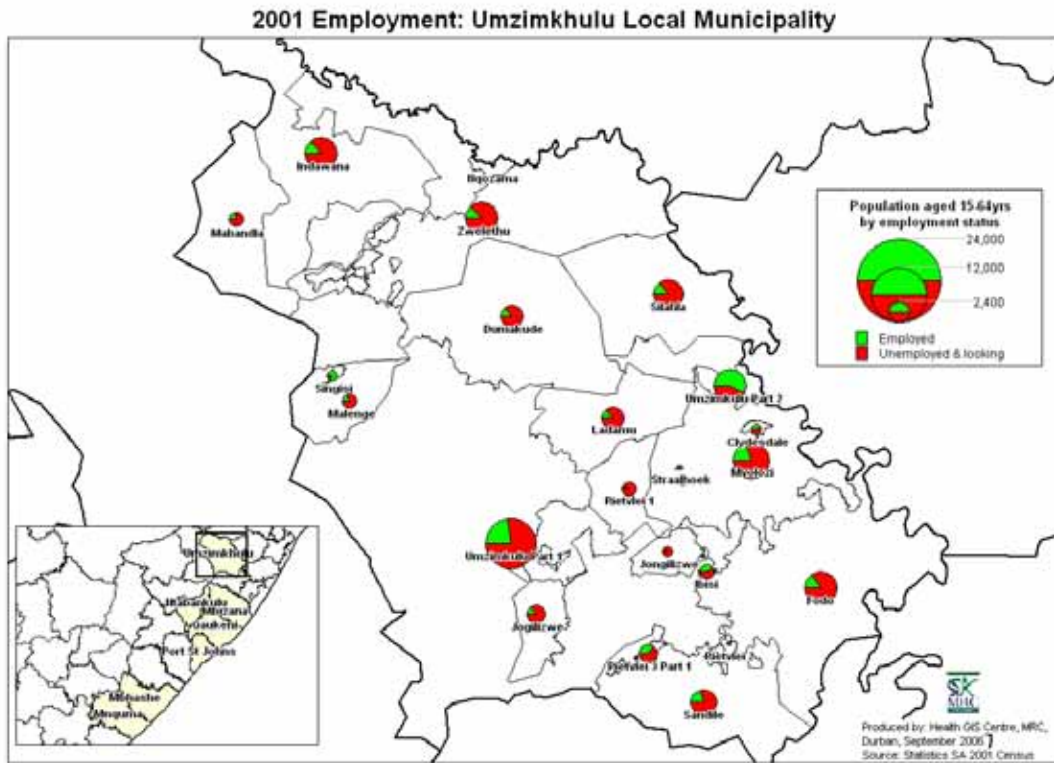


Figure 5a: Employment of adults 15-49 years, Umzimkhulu 2001

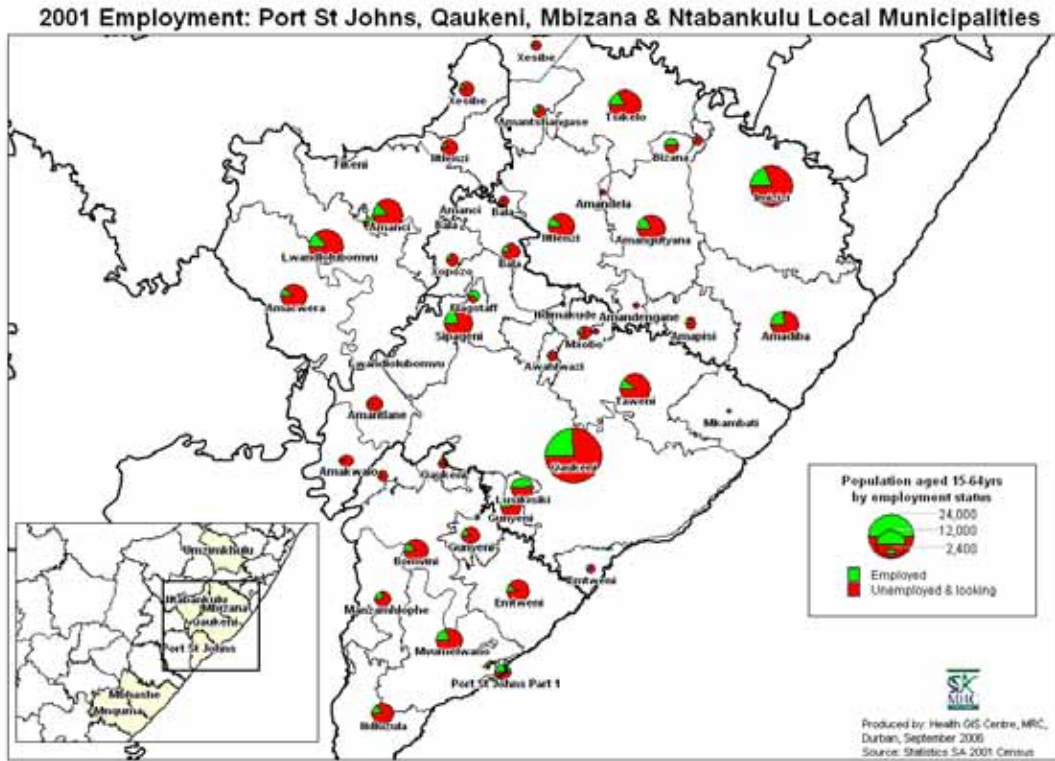


Figure 5b: Employment of adults 15-49 years, Northern region 2001

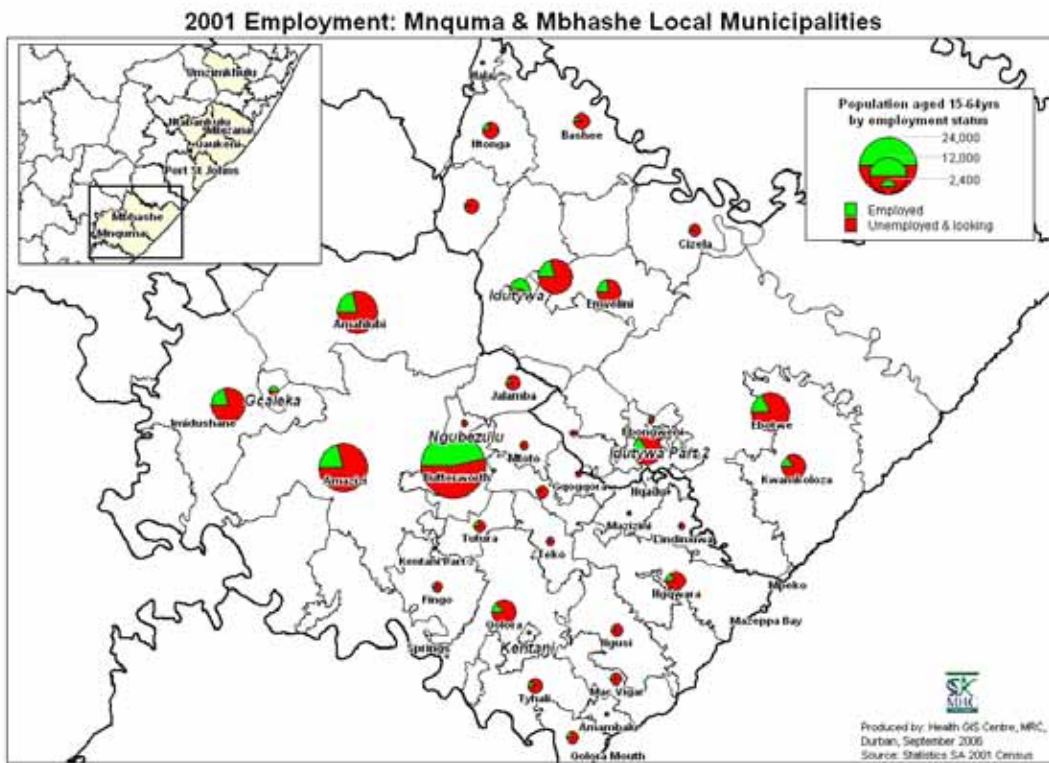


Figure 5c: Employment of adults 15-49 years, Southern region 2001

Table 4: Annual age specific, crude and age standardized female incidence rates (per 100 000 population) by site

SITE	ALL AGES	AGE		0-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	65-69	70-74	75-79	80-84	85+	CRUDE RATE	ASR World	ICD (10ch)
		UNK.	UNK.																					
Lip	3	0	-	-	-	-	-	-	-	-	-	0.6	-	-	0.9	1.0	-	-	-	-	-	0.1	0.1	C00
Tongue	3	0	-	-	-	-	-	-	-	-	-	-	-	-	-	2.0	-	-	-	3.6	-	0.1	0.1	C01-C02
Mouth	13	0	-	-	-	-	0.4	0.5	-	-	-	0.6	-	-	1.1	4.1	3.9	-	-	7.2	-	0.4	0.4	C03-C06
Salivary glands	4	0	0.2	-	-	-	-	-	-	-	-	-	-	-	1.1	-	1.3	-	-	-	-	0.1	0.1	C07-C08
Tonsil	4	0	-	-	-	-	-	-	-	-	0.6	0.6	0.8	-	-	-	-	-	-	3.6	-	0.1	0.1	C09
Other Oropharynx	2	0	-	-	-	-	-	-	-	-	0.6	-	-	-	-	0.9	-	-	-	-	-	0.1	0.1	C10
Nasopharynx	3	0	-	-	-	-	-	-	-	0.6	-	-	0.8	-	-	-	-	-	2.5	-	-	0.1	0.1	C11
Hypopharynx	0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0	0.0	C12-C13
Pharynx unspec.	2	0	-	-	-	-	-	-	-	-	0.6	-	-	-	-	1.0	-	-	-	-	-	0.1	0.1	C14
Oesophagus	514	0	-	-	-	-	0.4	0.5	1.7	7.0	10.2	18.4	52.2	71.4	103.5	107.2	90.4	42.1	71.7	56.1	14.5	18.0	C15	
Stomach	12	0	-	-	-	-	-	-	-	-	1.2	0.6	0.8	-	3.4	2.6	1.3	2.5	-	-	-	0.3	0.4	C16
Small intestine	1	0	-	-	-	-	-	-	0.5	-	-	-	-	-	-	-	-	-	-	-	-	0.0	0.0	C17
Colon	11	0	-	-	-	-	-	0.6	-	-	-	0.6	1.9	3.4	1.7	2.0	-	-	-	-	-	0.3	0.4	C18
Rectum	10	0	-	-	-	-	-	0.5	-	-	1.2	0.8	0.8	1.0	1.1	1.7	2.0	-	-	-	0.3	0.4	C19-C20	
Anus	5	0	-	-	-	-	-	0.6	-	-	-	0.6	-	-	1.7	1.0	-	-	-	-	-	0.1	0.2	C21
Liver	23	0	-	-	-	-	-	0.4	-	-	1.8	1.9	-	3.9	2.3	2.6	3.1	2.6	2.5	3.6	-	0.6	0.8	C22
Gallbladder etc.	3	0	-	-	-	-	-	-	-	-	-	0.8	-	-	-	2.0	-	-	-	-	-	0.1	0.1	C23-C24
Pancreas	14	0	-	-	-	-	-	-	-	-	-	0.6	0.8	2.9	3.4	2.6	1.0	1.3	-	3.6	-	0.4	0.5	C25
Nose, sinuses etc.	4	0	-	-	-	-	0.4	-	-	-	-	0.8	-	-	-	-	-	-	-	-	7.0	0.1	0.2	C30-C31
Larynx	5	0	-	-	-	-	-	-	-	-	-	-	1.9	1.1	1.7	-	-	-	-	-	-	0.1	0.2	C32
Trachea,Bronchus,Lung	20	0	-	-	-	-	-	-	-	-	0.6	0.6	0.8	3.9	2.3	4.3	2.0	5.2	-	-	-	0.6	0.7	C33-C34
Other Thoracic organs	0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0	0.0	C37-C38
Bone	12	0	0.4	0.2	-	-	-	-	-	-	-	1.3	1.6	1.9	-	1.7	-	1.3	-	-	-	0.3	0.4	C40-C41
Melanoma of Skin	19	0	-	-	-	-	-	-	-	-	-	0.6	0.8	1.9	4.5	2.6	1.0	5.2	2.5	3.6	7.0	0.5	0.7	C43
Other Skin	12	0	-	-	-	-	-	0.5	-	-	-	1.3	-	-	2.6	3.1	2.6	-	-	-	7.0	0.3	0.4	C44
Mesothelioma	0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0	0.0	C45
Kaposi sarcoma	9	0	-	-	-	-	-	-	-	-	-	-	1.9	-	-	-	1.0	-	-	-	-	0.3	0.3	C46
Connective,Soft tissue	8	0	0.2	-	-	-	0.2	-	-	-	-	0.6	1.6	-	-	1.0	-	-	-	-	-	0.2	0.2	C47,C49
Breast	186	0	-	-	-	-	0.4	2.5	2.3	9.9	17.8	20.0	22.2	14.7	21.4	26.6	10.3	19.8	3.6	14.0	-	5.3	7.1	C50
Vulva	2	0	-	-	-	-	-	-	-	-	-	-	-	1.0	-	1.0	-	-	-	-	-	0.1	0.1	C51
Vagina	2	0	-	-	-	-	-	-	-	-	-	-	-	1.0	-	0.9	-	-	-	-	-	0.1	0.1	C52
Cervix Uteri	552	0	-	-	-	-	1.1	4.1	13.8	14.6	33.7	40.1	66.7	53.3	92.4	73.5	67.2	54.4	50.2	35.1	15.6	20.2	C53	
Corpus Uteri	23	0	-	-	-	-	-	-	-	-	1.3	0.8	0.8	6.8	1.1	3.4	5.1	3.9	-	-	-	0.6	0.9	C54
Uterus unspec.	17	0	-	-	-	-	-	-	-	-	2.5	0.8	1.9	-	4.3	1.0	2.6	-	7.2	-	-	0.5	0.6	C55
Ovary	24	0	-	-	-	-	0.2	0.5	0.6	0.6	-	2.4	1.9	6.8	4.3	-	3.9	-	-	-	-	0.7	0.9	C56
Other Female Genital	0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0	0.0	C57
Placenta	8	0	-	-	-	-	0.7	1.0	0.6	0.6	0.6	0.6	0.8	-	-	-	-	-	-	-	-	0.2	0.2	C58
Kidney	4	0	0.2	0.4	-	-	-	-	-	-	-	-	-	1.1	-	-	-	-	-	-	-	0.1	0.1	C64
Renal Pelvis	0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0	0.0	C65
Ureter	0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0	0.0	C66
Bladder	7	0	-	-	-	-	-	-	-	-	0.6	-	-	-	1.1	0.9	2.0	1.3	2.5	-	-	0.2	0.2	C67
Other Urinary organs	1	0	-	-	-	-	-	-	-	-	0.6	-	-	-	-	-	-	-	-	-	-	0.0	0.0	C68
Eye	14	0	1.5	0.4	-	-	0.4	0.5	0.6	0.6	-	-	-	-	-	1.0	1.3	-	-	-	-	0.4	0.4	C69
Brain, Nervous system	16	0	1.0	0.8	0.4	0.2	0.4	0.6	0.6	0.6	-	-	-	-	0.9	1.0	-	-	-	-	-	0.5	0.4	C70-C72
Thyroid	15	0	-	-	-	-	-	-	1.1	0.6	1.3	1.6	2.9	1.1	2.6	-	-	2.5	-	-	-	0.4	0.6	C73
Adrenal gland	2	0	0.2	0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.1	0.0	C74
Other Endocrine	0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0	0.0	C75
Hodgkin disease	3	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.1	0.1	C81
Non-Hodgkin Lymphoma	8	0	-	-	-	-	0.5	-	-	-	0.6	0.6	1.6	-	-	-	-	-	-	3.6	-	0.2	0.3	C82-C85,C96
Immunoproliferative dis.	0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.0	0.0	C88
Multiple Myeloma	7	0	-	-	-	-	-	-	-	-	0.8	-	-	-	1.1	2.6	1.0	-	2.5	-	-	0.2	0.3	C90
Lymphoid Leukaemia	2	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.1	0.0	C91
Myeloid Leukaemia	5	0	0.2	-	-	-	-	-	1.1	-	-	-	-	1.0	1.1	-	-	-	-	-	-	0.1	0.2	C92-C94
Leukaemia unspec.	7	0	0.5	0.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.2	0.2	C95
Other & unspecified	22	0	-	-	-	-	0.2	0.4	-	-	0.6	0.6	1.6	1.0	4.5	2.6	1.0	6.5	2.5	7.2	-	0.6	0.8	C95
All sites Total	1643	0	4	3	1	2	6	13	26	43	80	99	181	181	267	248	212	136	168	126	46.4	59.0	All	
All sites but C44	1631	0	4	3	1	2	6	13	26	43	79	99	181	181	264	245	209	136	168	119	46.0	58.6	Not C44	