

Appendix W1: Country-Regions HIV Rate and Quantile

Country	Region	HIV Rate	Quantile
Angola	Luanda	3.40%	1
Angola	Cabinda Province	8.00%	2
Benin	Atlantique Province	3.80%	12
Benin	Grand Popo	6.38%	12
Benin	Cotonou	3.28%	12
Benin	Seme Podji	2.85%	12
Benin	Aglangandan/Seme Podji	3.50%	12
Benin	Porto Novo	2.99%	12
Benin	Oueme Province	4.57%	12
Benin	Tori Bossito	2.50%	12
Benin	Misserette	1.49%	12
Benin	Lokossa	5.21%	12
Benin	Allada	2.00%	12
Benin	Dogbo	13.89%	12
Benin	Djakotomey	6.47%	12
Benin	Aplahoue	5.12%	12
Benin	Pobe	1.90%	12
Benin	Sagon/Ouinhi	0.00%	12
Benin	Zou Province	7.30%	12
Benin	Zogbodome	0.48%	12
Benin	Tindji/Zakpota	1.45%	12
Benin	Ketou	0.94%	12
Benin	Savalou	4.79%	13
Benin	Glazoue	0.00%	12
Benin	Tchaourou	1.00%	13
Benin	Parakou	1.75%	13
Benin	Ouake	0.00%	13
Benin	Djougou	1.38%	13
Benin	Nikki	0.49%	13
Benin	Kouande	1.96%	13
Benin	Tanguieta	1.15%	13
Benin	Toucountouna	0.50%	13
Benin	Gogounou	0.00%	13
Benin	Segbana	0.00%	13
Benin	Banikoara	2.86%	13
Botswana	Lobatse district	31.34%	9
Botswana	Lobatse	36.36%	9
Botswana	Southern district	34.72%	9
Botswana	South East district	31.04%	8

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Country	Region	HIV Rate	Quantile
Botswana	Gaborone	38.25%	8
Botswana	Molepolole	30.00%	8
Botswana	Kgatleng district	31.65%	8
Botswana	Hukuntsi district	32.64%	8
Botswana	Kgalagadi district	26.23%	8
Botswana	Kweneng East district	33.60%	8
Botswana	Kweneng West district	28.54%	8
Botswana	Mahalapye district	36.26%	7
Botswana	Serowe/Palapye district	40.62%	7
Botswana	Selebi-Phikwe	51.87%	7
Botswana	Ghanzi district	22.30%	6
Botswana	Boteti district	39.17%	6
Botswana	Francistown	43.22%	6
Botswana	North East district	41.70%	5
Botswana	Tutume (rural)	41.88%	5
Botswana	North West district	39.75%	4
Botswana	Okavango district	36.15%	4
Botswana	Maun/ semirural	33.53%	4
Botswana	Chobe district	44.77%	2
Burkina Faso	Gaoua	4.80%	14
Burkina Faso	Bobo-Dioulasso	5.03%	15
Burkina Faso	Houde district	0.80%	15
Burkina Faso	Houde district (rural)	1.60%	15
Burkina Faso	Tenkodogo	3.44%	14
Burkina Faso	Ouagadougou	4.91%	14
Burkina Faso	Ouahigouya	5.71%	15
Burundi	Gitega	19.70%	1
Burundi	Bujumbura	18.56%	1
Cameroon	South Province	11.18%	6
Cameroon	Ebolowa	8.89%	6
Cameroon	Sangmelima	13.64%	5
Cameroon	Lolodorf	14.81%	6
Cameroon	Edea	9.00%	7
Cameroon	Centre Province	11.17%	6
Cameroon	Yaounde	7.82%	6
Cameroon	Mfou	13.59%	6
Cameroon	Abong Mbang	12.00%	5
Cameroon	Limbe	9.84%	7
Cameroon	Deido-Newbell	3.95%	7
Cameroon	Littoral Province	6.16%	7
Cameroon	Buea (Muea)	17.00%	7
Cameroon	Batouri	9.59%	4

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Country	Region	HIV Rate	Quantile
Cameroon	Mbanga	5.00%	7
Cameroon	East Province	10.03%	5
Cameroon	Bertoua	9.04%	5
Cameroon	Kumba	10.00%	7
Cameroon	South West Province	12.28%	7
Cameroon	Dschang	4.27%	8
Cameroon	Mifi (Bafoussam)	5.46%	7
Cameroon	West Province	5.99%	7
Cameroon	Mbouda (semi-urban)	3.25%	8
Cameroon	Foumban	10.34%	7
Cameroon	Bali	7.00%	8
Cameroon	Bamenda	14.58%	8
Cameroon	Ndop	11.00%	8
Cameroon	North West Province	11.50%	8
Cameroon	Ngong	3.42%	8
Cameroon	Adamawa Province	16.97%	7
Cameroon	Ngaoundere	16.97%	7
Cameroon	North Province	9.59%	8
Cameroon	Garoua	5.33%	8
Cameroon	Gashiga	18.00%	8
Cameroon	Yagoua	6.00%	8
Cameroon	Maroua	17.75%	9
Cameroon	Far North Province	13.13%	9
Cameroon	Mokolo	12.12%	9
Central African Republic	Sangha-Mbaere Prefecture (rural)	13.00%	3
Central African Republic	Sangha-Mbaere Prefecture (urban)	11.00%	3
Central African Republic	Lobaye Prefecture (urban)	11.00%	2
Central African Republic	Lobaye Prefecture (rural)	9.97%	2
Central African Republic	Mambere Kadei Prefecture (rural)	10.81%	3
Central African Republic	Mambere Kadei Prefecture (urban)	17.00%	3
Central African Republic	Ombella-Mpoko Prefecture (rural)	9.00%	2
Central African Republic	Basse-Kotto Prefecture (rural)	15.90%	1
Central African Republic	Basse-Kotto Prefecture (urban)	10.00%	1
Central African Republic	Bangui	14.06%	2
Central African Republic	Mbomou Prefecture (urban)	9.00%	2
Central African Republic	Mbomou Prefecture (rural)	10.00%	2
Central African Republic	Haut-Mbomou Prefecture (rural)	16.84%	2
Central African Republic	Kemo Prefecture (rural)	7.00%	3
Central African Republic	Kemo Prefecture (urban)	10.00%	3
Central African Republic	Ouaka Prefecture (urban)	18.00%	2
Central African Republic	Ouaka Prefecture (rural)	18.57%	2
Central African Republic	Nana-Mambere Prefecture (rural)	11.00%	5

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Country	Region	HIV Rate	Quantile
Central African Republic	Nana-Mambere Prefecture (urban)	20.00%	5
Central African Republic	Ouham-Pende Prefecture (urban)	9.00%	5
Central African Republic	Ouham-Pende Prefecture (rural)	18.88%	5
Central African Republic	Ouham Prefecture (urban)	20.00%	4
Central African Republic	Ouham Prefecture (rural)	16.36%	4
Central African Republic	Hautte-Kotto Prefecture (urban)	19.00%	3
Central African Republic	Nana-Grebizi Prefecture (urban)	15.00%	4
Central African Republic	Nana-Grebizi Prefecture (rural)	15.00%	4
Central African Republic	Bamingui-Bangorou Pref. (rural)	27.00%	5
Central African Republic	Bamingui-Bangorou Pref. (urban)	18.00%	5
Central African Republic	Vakaga Prefecture (rural)	28.00%	7
Central African Republic	Vakaga Prefecture (urban)	15.00%	7
Chad	Bol	3.86%	6
Chad	Bah (rural)	3.32%	7
Chad	Moundou	11.73%	7
Chad	Sarh	7.96%	6
Chad	Djoli (rural)	8.28%	7
Chad	Bongor	4.48%	8
Chad	Gueledeng (rural)	2.76%	8
Chad	N'Djamena	6.63%	9
Chad	Mongo	1.21%	9
Chad	Massaguet (rural)	7.69%	9
Chad	Abeche	3.61%	9
Congo	Pointe-Noire	14.58%	2
Congo	Brazzaville	5.36%	1
Cote	San Pedro	4.53%	15
Cote	San-Perdo district (urban)	4.15%	15
Cote	Abidjan district (urban)	5.77%	14
Cote	Abidjan	11.71%	14
Cote	Abidjan district (rural)	2.98%	14
Cote	Abengourou district (urban)	7.40%	14
Cote	Abengourou district (rural)	3.39%	14
Cote	Abengourou	5.98%	14
Cote	Yamoussoukro district (urban)	6.15%	14
Cote	Yamoussoukro	4.16%	14
Cote	Daloa district (rural)	2.71%	15
Cote	Daloa	4.21%	15
Cote	Daloa district (urban)	4.23%	15
Cote	Man district (urban)	5.35%	15
Cote	Man	4.46%	15
Cote	Bouake district (urban)	4.41%	15
Cote	Bouake	3.87%	15

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Country	Region	HIV Rate	Quantile
Cote	Bouake district (rural)	3.83%	15
Cote	Bondoukou district (urban)	5.10%	14
Cote	Bondoukou	5.52%	14
Cote	Korhogo district (urban)	5.24%	15
Cote	Korhogo	4.12%	15
Cote	Odienne	5.30%	15
Cote	Odienne district (urban)	5.17%	15
Dem. Republic of Congo	Lubumbashi	8.50%	1
Dem. Republic of Congo	Kasaji (rural)	1.00%	1
Dem. Republic of Congo	Kinshasa	4.09%	1
Dem. Republic of Congo	Karawa (rural)	5.30%	1
Dem. Republic of Congo	Zongo	5.95%	2
Ethiopia	Dilla	11.72%	9
Ethiopia	Awassa	11.62%	9
Ethiopia	Ginir	3.10%	10
Ethiopia	Shashemene	13.63%	9
Ethiopia	Gambo (rural)	0.90%	9
Ethiopia	Hossana	4.81%	9
Ethiopia	Jimma	8.60%	9
Ethiopia	Gambella	16.99%	8
Ethiopia	Metu	7.25%	8
Ethiopia	Nazereth	18.70%	10
Ethiopia	Addis Ababa	14.23%	10
Ethiopia	Nekemte	9.10%	9
Ethiopia	Aira (rural)	2.60%	9
Ethiopia	Harari	9.40%	11
Ethiopia	Jijiga	19.00%	12
Ethiopia	Dire Dawa	12.28%	11
Ethiopia	Sodo	10.69%	10
Ethiopia	Borena Gosa (rural)	1.70%	11
Ethiopia	Borena Dadim (rural)	1.70%	11
Ethiopia	Pawi	8.50%	10
Ethiopia	Ambo-Toke (rural)	4.60%	11
Ethiopia	Bahir Dar	21.24%	10
Ethiopia	Aasita	12.40%	12
Ethiopia	Gonder	15.10%	11
Ethiopia	Maichew	16.80%	12
Ethiopia	Mekele	17.20%	12
Ethiopia	Adigrat	16.20%	13
Ghana	Takoradi	1.41%	13
Ghana	Eikwe (semirural)	2.45%	14
Ghana	Cape Coast	1.65%	13

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Country	Region	HIV Rate	Quantile
Ghana	Assin Fosu (semirural)	0.97%	13
Ghana	Accra	1.30%	13
Ghana	Amasaman (rural)	1.06%	13
Ghana	Koforidua	1.40%	13
Ghana	Agomanya and Atua	7.45%	13
Ghana	Agomanya	14.90%	13
Ghana	Agomanya (semirural)	4.80%	13
Ghana	Ho	1.61%	13
Ghana	Kumasi	2.39%	14
Ghana	Mampong (semirural)	1.63%	14
Ghana	Hohoe (semirural)	1.19%	13
Ghana	Sunyani	0.94%	14
Ghana	Wenchi (semirural)	0.80%	14
Ghana	Tamale	0.47%	14
Ghana	Wa	1.48%	14
Ghana	Nalerigu (semirural)	0.53%	14
Ghana	Jirapa (semirural)	0.56%	14
Ghana	Bolgatanga	0.78%	14
Ghana	Navrongo	0.79%	14
Ghana	Bawku (semirural)	1.51%	14
Guinea	Upper region	2.80%	14
Guinea	Forest region	3.20%	15
Guinea	Conakry	5.00%	15
Guinea	Lower region	2.00%	15
Guinea	Middle region	1.90%	15
Guinea-Bissau	Bissau	2.83%	15
Kenya	Tiwi (semirural)	19.44%	6
Kenya	Mombasa	13.64%	6
Kenya	Bamba (rural)	9.00%	6
Kenya	Wesu-Wundanyi (rural)	7.00%	5
Kenya	Mbale (semirural)	14.44%	5
Kenya	Mutomo (rural)	2.00%	6
Kenya	Kajiado district (rural)	7.60%	4
Kenya	Kitui	9.85%	6
Kenya	Kangundo (rural)	13.00%	5
Kenya	Nairobi	15.03%	4
Kenya	Suba (rural)	31.00%	2
Kenya	Thika	23.79%	5
Kenya	Kijabe	6.41%	4
Kenya	Maragua (semirural)	8.34%	5
Kenya	Maragua (rural)	8.00%	5
Kenya	Njambini (rural)	5.70%	4

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Country	Region	HIV Rate	Quantile
Kenya	Kaplong (rural)	5.42%	3
Kenya	Kisii	13.31%	3
Kenya	Karurumo (rural)	11.50%	6
Kenya	Garissa	6.34%	7
Kenya	Nyeri	15.30%	5
Kenya	Nakuru	22.23%	4
Kenya	Kombewa (rural)	29.00%	3
Kenya	Kisumu	26.38%	3
Kenya	Usigu (rural)	33.00%	2
Kenya	Chulaimbo (rural)	35.77%	3
Kenya	Nyahera (rural)	41.00%	3
Kenya	Siaya (rural)	40.00%	3
Kenya	Meru	24.97%	6
Kenya	Kakamega	11.12%	3
Kenya	Mosoriot (rural)	7.30%	3
Kenya	Matayos (rural)	14.00%	3
Kenya	Busia	29.84%	3
Kenya	Sirikwa-Turbo (rural)	5.00%	3
Kenya	Kitale	14.98%	3
Kenya	Maralal (rural)	15.00%	5
Kenya	Lodwar	16.50%	5
Lesotho	Quthing district	22.81%	12
Lesotho	Mafeteng district	18.98%	11
Lesotho	Maseru	42.20%	11
Lesotho	Mokhotlong (rural)	12.29%	11
Lesotho	Maluti district	19.04%	11
Lesotho	Leribe district	26.03%	11
Malawi	Nsanje district/ semiurban	28.54%	6
Malawi	Thyolo district (rural)	19.18%	5
Malawi	Mulanje district/ semiurban	28.32%	6
Malawi	Blantyre	30.24%	5
Malawi	Chiradzulu district (rural)	14.99%	5
Malawi	Machinga district (rural)	16.51%	5
Malawi	Ntcheu district/ semiurban	24.11%	4
Malawi	Mangochi district/ semiurban	20.89%	4
Malawi	Dedza district (rural)	5.19%	3
Malawi	Lilongwe	24.01%	3
Malawi	Mchinji district/ semiurban	22.47%	2
Malawi	Dowa district (rural)	7.00%	3
Malawi	Kasungu district (rural)	5.50%	2
Malawi	Nkhotakota district/ semiurban	21.14%	3
Malawi	Mzimba district (rural)	8.92%	2

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Country	Region	HIV Rate	Quantile
Malawi	Nkhata Bay district/ semiurban	21.50%	2
Malawi	Mzuzu	20.14%	2
Malawi	Rumphu district/ semiurban	16.16%	2
Malawi	Karonga district (rural)	12.45%	2
Mali	Sikasso region	3.50%	15
Mali	Bamako	4.09%	15
Mali	Koulikoro region	0.70%	15
Mali	Mopti region	3.20%	15
Mozambique	Maputo	9.13%	10
Mozambique	Maputo Province	15.67%	10
Mozambique	Manhica	12.50%	10
Mozambique	Gaza Province	16.69%	10
Mozambique	Inhambane Province	8.00%	10
Mozambique	Sofala Province	31.21%	7
Mozambique	Beira	18.33%	7
Mozambique	Manica Province	17.67%	7
Mozambique	Zambezia Province	15.22%	7
Mozambique	Barue	17.50%	5
Mozambique	Tete	17.00%	4
Mozambique	Tete Province	20.43%	4
Mozambique	Chimoio	16.98%	8
Mozambique	Nampula	5.00%	8
Mozambique	Nampula Province	4.67%	8
Mozambique	Monapo	6.06%	8
Mozambique	Niassa Province	7.86%	4
Mozambique	Montepuez district (rural)	0.25%	7
Mozambique	Cabo Delgado Province	7.50%	8
Namibia	Keetmanshoop district	13.49%	10
Namibia	Mariental district	11.29%	9
Namibia	Rehoboth (rural)	9.01%	8
Namibia	Walvisbay	27.36%	9
Namibia	Swakopmund district	17.75%	8
Namibia	Windhoek	26.76%	7
Namibia	Gobabis district (rural)	10.36%	7
Namibia	Otjiwarongo	19.91%	6
Namibia	Grootfontein	29.63%	5
Namibia	Tsumeb	24.85%	4
Namibia	Opuwo (rural)	7.36%	6
Namibia	Andara (rural)	17.47%	2
Namibia	Nyangana (rural)	17.19%	2
Namibia	Rundu	16.59%	3
Namibia	Onandjokwe (rural)	23.74%	4

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Country	Region	HIV Rate	Quantile
Namibia	Oshakati	30.13%	4
Namibia	Nankudu (rural)	15.63%	3
Namibia	Oshikuku (rural)	23.68%	4
Namibia	Katima Mulilo	34.65%	2
Namibia	Engela (rural)	19.41%	4
Niger	Dosso	2.50%	14
Niger	Maradi	1.00%	13
Niger	Niamey	2.00%	14
Niger	Zinder	1.00%	12
Niger	Tahoua	5.00%	13
Niger	Agadez	4.68%	14
Nigeria	Rivers state	5.77%	9
Nigeria	Bayelsa state	5.23%	10
Nigeria	Cross River state	6.92%	8
Nigeria	Akwa Ibom state	11.58%	9
Nigeria	Imo state	6.01%	9
Nigeria	Abia state	3.17%	9
Nigeria	South East zone	5.52%	9
Nigeria	Delta state	5.00%	10
Nigeria	Enugu state	4.99%	9
Nigeria	Ebonyi state	7.23%	9
Nigeria	Edo state	5.77%	10
Nigeria	Lagos state	4.41%	11
Nigeria	Anambra state	6.28%	10
Nigeria	Ogun state	2.98%	11
Nigeria	Ondo state	4.77%	11
Nigeria	Oyo state	3.93%	11
Nigeria	Ekiti state	2.75%	11
Nigeria	Ibadan	21.28%	11
Nigeria	Benue state	14.81%	10
Nigeria	Kogi state	5.42%	10
Nigeria	Osun state	4.00%	11
Nigeria	Nasarawa state	9.49%	10
Nigeria	Kwara state	3.72%	11
Nigeria	Taraba state	5.84%	9
Nigeria	Abuja	9.00%	10
Nigeria	Adamawa state	4.75%	9
Nigeria	Niger state	5.58%	11
Nigeria	Plateau state	7.38%	10
Nigeria	Gombe state	6.42%	10
Nigeria	Bauchi state	4.83%	10
Nigeria	North Central zone	8.19%	11

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Country	Region	HIV Rate	Quantile
Nigeria	Kaduna state	7.95%	11
Nigeria	North West zone	3.95%	12
Nigeria	North East zone	4.89%	10
Nigeria	Yobe state	2.64%	10
Nigeria	Jigawa state	1.75%	11
Nigeria	Borno state	4.50%	10
Nigeria	Kano state	4.00%	11
Nigeria	Zamfara state	3.09%	12
Nigeria	Kebbi state	3.83%	13
Nigeria	Katsina state	2.92%	12
Nigeria	Sokoto state	2.78%	13
Somalia	Mogadishu	0.00%	11
Somalia	Las Anod	0.44%	13
Somalia	Hargeisa	0.67%	13
Somalia	Borama	1.65%	12
South Africa	Khayelitsha	12.93%	14
South Africa	Cape Town	19.00%	14
South Africa	Western Cape Province	7.40%	14
South Africa	Eastern Cape Province	18.95%	13
South Africa	Durban	28.46%	12
South Africa	KwaZulu-Natal Province	45.00%	11
South Africa	Free State Province	27.18%	11
South Africa	Northern Cape Province	11.78%	11
South Africa	Hlabisa district (rural)	41.23%	11
South Africa	Soweto	23.85%	10
South Africa	Gauteng Province	26.15%	10
South Africa	North-West Province	23.10%	9
South Africa	Mpumalanga Province	29.05%	9
South Africa	Northern Province	12.65%	8
Sudan	Juba	3.50%	4
Sudan	El Gedarif	4.00%	11
Sudan	Khartoum	0.50%	11
Swaziland	Shiselweni region	32.56%	10
Swaziland	Manzini region	39.62%	10
Swaziland	Lubombo region	35.41%	10
Swaziland	Hhohho region	33.45%	10
Tanzania	Mbeya region	19.00%	1
Tanzania	Mbeya region (urban)	18.54%	1
Tanzania	Mbeya region (rural)	15.81%	1
Tanzania	Iringa region (urban)	32.10%	2
Tanzania	Iringa region	21.46%	2
Tanzania	Morogoro region (rural)	9.80%	4

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Country	Region	HIV Rate	Quantile
Tanzania	Morogoro region (urban)	18.40%	4
Tanzania	Dar es Salaam region	14.38%	6
Tanzania	Unguja	0.71%	6
Tanzania	Pemba	0.69%	6
Tanzania	Zanzibar area	0.68%	6
Tanzania	Tanga region	7.28%	6
Tanzania	Moshi	9.40%	4
Tanzania	Kilimanjaro region (rural)	19.93%	4
Tanzania	Mwanza	13.67%	1
Tanzania	Mwanza region	4.00%	1
Tanzania	Bukoba	9.75%	1
The Gambia	Sibanor (rural)	2.30%	15
The Gambia	Basse (rural)	1.20%	15
The Gambia	Serekunda	0.80%	15
The Gambia	Farafenni (rural)	0.30%	15
Zambia	Livingstone	31.11%	2
Zambia	Lusaka	28.59%	1
Zambia	Mongu	29.71%	1
Zambia	Kalabo (rural)	13.00%	1
Zambia	Kabwe	27.76%	1
Zambia	Minga (rural)	9.81%	2
Zambia	Kapiri Mposhi (rural)	18.20%	1
Zambia	Chipata	27.20%	2
Zambia	Kabompo (rural)	8.51%	1
Zambia	Solwezi (semiurban)	16.89%	1
Zambia	Mukinge (rural)	8.38%	1
Zambia	Ibenga (rural)	9.83%	1
Zambia	Serenje (rural)	13.82%	1
Zambia	Ndola	25.95%	1
Zambia	Mansa	21.67%	1
Zambia	Kasaba (rural)	5.69%	1
Zambia	Kasama	16.37%	1
Zambia	Isoka (rural)	9.81%	1
Zambia	Nchelenge (rural)	16.12%	1
Zimbabwe	Beitbridge (rural)	35.63%	7
Zimbabwe	Chiredzi	51.40%	7
Zimbabwe	Gwanda (rural)	34.43%	6
Zimbabwe	Mberengwa district (rural)	40.30%	6
Zimbabwe	Nkulumane	29.50%	5
Zimbabwe	Bulawayo	27.90%	5
Zimbabwe	Gutu (rural)	25.05%	6
Zimbabwe	Gweru	32.45%	5

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Country	Region	HIV Rate	Quantile
Zimbabwe	Buhera district (rural)	22.00%	6
Zimbabwe	Sakubva	27.60%	6
Zimbabwe	Sadza	37.10%	5
Zimbabwe	Hwange	32.60%	3
Zimbabwe	Sanyati (rural)	35.40%	3
Zimbabwe	Chitungwiza	27.73%	4
Zimbabwe	Victoria Falls	50.50%	2
Zimbabwe	Harare	30.67%	4
Zimbabwe	Binga (rural)	16.10%	2
Zimbabwe	Mutoko	33.40%	4
Zimbabwe	Banket (rural)	30.27%	3
Zimbabwe	Bindura	32.10%	3
Zimbabwe	Bindura (rural)	25.80%	3
Zimbabwe	Karanda (rural)	18.75%	3

Notes: This table shows all of the data used for the first stage regressions, including country, region, HIV rate and distance quantile.