Annexes

Indicators and Sources



ANNEX 1: RIVER NILE STATE OF BASIN INDICATORS 2012

WATER RESOURCES

Mean precipitation for Nile Basin	1,046 mm/year	GIS/CRU Database 1950–90
Mean annual flow of Main Nile (at Aswan)	84 billion cubic metres/year	JMP Scoping Study Report

	Resources		Withdrawals				
	Total internal renewable (billion m³/yr) 2009	Total (billion m³/yr) latest 2000–10	As % of total actual renewable latest 2000–10	As % of total withdrawal in Nile region latest 2000–10	Agricultural as % of total withdrawal latest 2000–10	Dam capacity, m³ per person latest available 2012	
Burundi	10.1	0.29	2.9%	0.2%	77.1%	no data	
DR Congo	900.0	0.62	0.1%	0.5%	17.7%	1	
Egypt	1.8	68.30	3,794.4%	56.5%	86.4%	2,073	
Eritrea	2.8	0.58	20.8%	0.5%	94.5%	8	
Ethiopia	122.0	5.56	4.6%	4.6%	93.6%	67	
Kenya	20.7	2.74	13.2%	2.3%	79.2%	611	
Rwanda	9.5	0.15	1.6%	0.1%	68.0%	no data	
South Sudan*	_	_	_	_	_	_	
Sudan**	30.0	37.14	123.8%	30.7%	97.1%	200	
Tanzania	84.0	5.18	6.2%	4.3%	89.4%	2,324	
Uganda	39.0	0.32	0.8%	0.3%	37.8%	2,393	
Source	FAO AQUA	ASTAT 2012	Computed from	AQUASTAT 2012	FAO AQUAS	STAT 2012	

POPULATION OF THE BASIN

	Population 2012	% of population living in Nile Basin 2012	% of country population living in rural areas
Burundi	8,749,387	58.8%	89%
DR Congo	69,575,394	3.8%	66%
Egypt	83,958,369	95.7%	57%
Eritrea	5,580,862	37.6%	79%
Ethiopia	86,538,534	40.3%	83%
Kenya	42,749,418	39.7%	76%
Rwanda	11,271,786	82.6%	81%
South Sudan	9,614,498	99.0%	82%
Sudan, The	36,107,585	87.3%	67%
Tanzania	47,656,367	21.5%	73%
Uganda	35,620,977	99.4%	84%
Source	World Population Prospects, 2010	From combining Landscan 2009 and World Population Prospects, 2010	World Urbanization Prospects 2011

^{*}No data are available yet for South Sudan.

^{**} Data relate to the state prior to 9 July 2011, except for final column.

AGRICULTURAL LAND USE

	Cultivated area as % of total country area 2009	Irrigated land in Nile Basin area (ha) 2009	Irrigated land in entire country (ha) 2009	Change in forest area 1990-2008
Burundi	44.9%	14,625	90,000	-39.2%
DR Congo	3.2%	-	-	-3.5%
Egypt	3.7%	2,963,581	5,419,000	56.4%
Eritrea	5.9%	-	-	-
Ethiopia	13.6%	90,769	187,000	-
Kenya	10.4%	34,156	77,000	-5.9%
Rwanda	60.0%	17,638	1,697,000	30.5%
South Sudan*	_	-	-	-
Sudan**	8.1%	1,749,300	108,000	-8.5%
Tanzania	12.1%	110,544	4,000	-17.5%
Uganda	36.6%	25,131	9,000	-33.4%
Source	FAO AQUASTAT, 2012	EWUAP, 2009	FAO AQUASTAT, 2012	Human Development Report, 2011

ENVIRONMENTAL RESOURCES

Land-use type	Area km² 2005	Area km² 2009	Percentage cover 2009	Percentage change 2005–09
Shrubland and wood- lands	1,173,669	1,185,620	37.3%	1.0%
Bare soils	965,165	978,918	30.8%	1.4%
Agricultural land	327,632	367,777	11.6%	12.3%
Grasslands	342,344	326,096	10.3%	-4.7%
Forests	266,783	218,941	6.9%	-17.9%
Water bodies	95,992	94,727	3.0%	-1.3%
Cities	4,882	4,391	0.1%	-10.1%

FOOD SECURITY

	Dietary energy supply	Under- nourished	Cereal trade balance	Intra-basin trade in agricultural and processed food products		Fertilizer	Cereal yield
	Kcal per person per day 2005-07	As % of total population	Export–import 1,000 tonnes 2005–09	Imports <i>2009</i> million US\$	Exports 2009 million US\$	Kg used per hectare of arable land 2005	Tons per hectare 2009
Burundi	1,680	62%	-63.7	16.2	16.1	3.4	1.3
DR Congo	1,590	69%	-722.3	_	_	_	0.8
Egypt	3,160	<5%	-9,003.7	263.5	246.6	732	7.6
Eritrea	1,590	64%	-235.1	-	_	2.3	0.9
Ethiopia	1,950	41%	-1,166.8	14.1	84.7	12	1.6
Kenya	2,060	31%	-1,374.8	117.8	476.8	38	1.2
Rwanda	2,050	34%	-91.5	98.1	41.2	2.6	1.1
South Sudan*	1,890	47%	-	_	_	_	-
Sudan**	2,270	22%	-1,863.6	-	_	10	0.6
Tanzania	2,020	34%	-654.4	39.1	103.8	1.1	1.2
Uganda	2,250	21%	-425.7	104.4	364.2	2.6	1.5
Source	FAOSTAT 2011	FAOSTAT 2011	FAOSTAT 2011	FAOSTAT 2011		World Bank Development	

^{*} Few data are yet available for South Sudan. **Data relate to the country prior to 9 July 2011.

SOCIO-ECONOMIC CONDITIONS

	Gross National Income (GNI)	Living in poverty	Human Development Index	Labour force participation	
	Per capita 2011 PPP\$	Percentage on less than PPP \$1.25 a day 2000–09	Score 2011	Employed men as a % of working age male population	Employed women as a % of working age female population
Burundi	368	81.3%	0.316	88%	91%
DR Congo	280	59.2%	0.286	86%	57%
Egypt	5,269	<2.0%	0.644	75%	22%
Eritrea	536	_	0.349	83%	63%
Ethiopia	971	39.0%	0.363	90%	81%
Kenya	1,492	19.7%	0.509	88%	76%
Rwanda	1,364	76.8%	0.429	85%	87%
South Sudan*	_	51.0%	-	_	-
Sudan**	1,894	_	0.408	74%	31%
Tanzania	1,328	67.9%	0.466	91%	86%
Uganda	1,124	28.7%	0.446	91%	78%
Source		Hui	man Development Rep	ort 2011	

	Access to	clean water	Access to impro	ved sanitation	Under-five mortality
	Percentage of rural population 2008	Percentage of urban population 2008	Percentage of rural population 2008	Percentage of urban population 2008	Per 1,000 live births 2005–10
Burundi	71%	83%	46%	49%	164
DR Congo	28%	80%	23%	23%	192
Egypt	98%	100%	92%	97%	30
Eritrea	57%	74%	4%	52%	72
Ethiopia	26%	98%	8%	29%	113
Kenya	52%	83%	32%	27%	101
Rwanda	62%	77%	55%	50%	128
South Sudan	53%	67%	14%	54%	135
Sudan**	64%	52%	18%	55%	101
Tanzania	80%	45%	21%	32%	98
Uganda	91%	64%	49%	38%	126
Source	WHO/UNICEF 2010		WHO/UNICEF 2010		World Population Prospects 2010 Revision; Statistical Year- book of Southern Sudan 2010

^{*} Few data are yet available for South Sudan. **Data relate to the country prior to 9 July 2011.

ENERGY SUPPLY

	Elect	Hydropower		Power t	rade		
	Percentage of rural population with access 2010	Percentage of urban population with access 2010	MW potential 2010	MW installed 2010	Power imports as % of total annual consumption 2010	Power exports as % of total annual consumption 2010	
Burundi	3%	26%	20	0	0.0%	0.0%	
DR Congo	0%	45%	78	0	11.2%	9.8%	
Egypt	99%	100%	40	2,862	0.9%	0.8%	
Eritrea	3%	57%			0.0%	0.0%	
Ethiopia	2%	86%	13,947	931	0.0%	0.0%	
Kenya	12%	51%	191	25	0.4%	0.4%	
Rwanda	2%	12%	20	27	27.5%	0.0%	
South Sudan*	1%	17%	2,570	_	_	-	
Sudan, The	7%	60%	3,280	1,593	0.0%	0.0%	
Tanzania	2%	40%	280	0	0.0%	0.0%	
Uganda	6%	40%	4,343	380	1.0%	1.0%	
Source	CBWS 2011 – Section 5	CBWS 2011 – Section 5	CBWS 2011 – Section 4		CBWS 2011 – Section 4 CBWS 2010 – Appendix 5		Appendix 5

TRANSPORT

	Roads			Airports			Inland waterways	
	Total (km)	Paved (km)	Unpaved (km)	Density (km/100 km²)	Total number	Number paved	Number unpaved	Number of ports
	12,322	1,200	11,122	43.9	8	1	7	1
DR Congo	153,497	2,794	150,703	6.4	198	26	172	13
Egypt	65,050	47,500	17,550	6.5	86	73	13	18
Eritrea	4,010	874	3,136	3.3	21	3	18	_
Ethiopia	36,469	6,980	29,489	3.2	61	17	44	-
Kenya	160,866	11,189	149,677	27.1	191	17	174	1
Rwanda	12,000	1,000	11,000	48.9	9	4	5	3
South Sudan	7,000	50	6,950	1.1	84	3	81	6
Sudan, The	11,900	4,320	7,580	0.6	72	15	57	8
Tanzania	86,472	7,092	79,380	9.3	124	9	115	4
Uganda	81,329	3,600	77,729	33.7	46	5	41	18
Source				The W	orld Factbook			

MONITORING

	Hydr	ometric stations			
	Historic number, 1970s	Currently operational, 2011			
Burundi	21	13			
DR Congo	_	_			
Egypt	300	300			
Eritrea	-	-			
Ethiopia	177	176			
Kenya	216	63			
Rwanda	27	16			
South Sudan*	-	-			
Sudan	43	36			
Tanzania	34	14			
Uganda	161	65			
Source	WRPM 2011 and National DSS Specialists				

^{*}Few data are yet available for South Sudan.

ANNEX 2: PROPOSED ADDITIONAL STATE OF BASIN INDICATORS FOR FUTURE REPORTING

WATER QUALITY

Annual v	water	quality	conditions
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Colour (min/max/average)

Electrical conductivity (min/max/average)

Dissolved oxygen (min/max/average)

Faecal coliform (min/max/average)

At following locations:

White Nile at Jinja

Blue Nile at Wad Medani

Main Nile at Khartoum

Main Nile at Cairo

ENVIRONMENT

Annual sediment load in the Nile at Dongola

Environmental performance index, by country

TRANSPORT

Annual volume of goods transported on inland waterways (tons)

Cairo to Aswan

Khartoum to Juba

Lake Victoria

CLIMATE CHANGE

Floods and droughts

Number of people affected

Number of floods

Number of droughts

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