

Table - 2.2.4 Estimated Population Served in 2010

Province	District	Population (x 1,000)			Service Coverage (%)	Served Population (x 1,000)				Non-served (x 1,000)
		Total	Urban	Rural		Total	UWS	LSRWS	SSWS	
Nairobi	Nairobi	3,023	3,023	0	97.0	2,932	2,932	0	0	91
Central	Kiambu	1,476	380	1,096	80.0	1,181	414	571	196	295
	Kirinyaga	535	49	486	80.0	428	47	348	33	107
	Muranga	1,144	151	993	80.0	915	135	314	466	229
	Nyandarua	516	70	446	80.0	413	178	94	141	103
	Nyeri	791	375	416	80.0	633	300	97	236	158
Coast	Kilifi	950	248	702	80.0	760	269	50	441	190
	Kwale	588	56	532	80.0	470	53	34	383	118
	Lamu	97	40	57	80.0	78	38	8	32	19
	Mombasa	736	736	0	95.4	702	476	40	186	34
	Taita	286	74	212	80.0	229	80	80	69	57
	Tana River	227	47	180	80.0	182	56	87	39	45
Eastern	Embu	583	97	486	80.0	466	104	223	139	117
	Isiolo	141	109	32	80.0	113	87	9	16	28
	Kitui	644	38	606	80.0	515	36	187	292	129
	Masaku	1,058	502	556	80.0	847	402	225	220	212
	Marsabit	195	108	87	96.1	187	118	45	25	8
	Meru	768	357	412	80.0	615	252	142	219	154
	Nyambene	730	12	718	80.0	584	12	418	155	146
	Tharaka Niithi	423	13	410	80.0	338	17	303	18	85
	Mwingi	411	16	395	80.0	329	35	182	112	82
	Makueni	1,147	29	1,117	80.0	917	54	213	650	229
North-Easter	Garissa	288	122	166	80.0	230	98	53	80	58
	Mandera	350	82	268	80.0	280	78	103	98	70
	Wajir	247	77	170	80.0	198	78	108	12	49
Nyanza	Gusii	1,765	121	1,645	80.0	1,412	115	103	1,194	353
	Kisumu	1,128	621	507	80.0	902	497	338	68	226
	Siaya	809	66	743	80.0	647	63	567	17	162
	Homa Bay	1,166	103	1,063	80.0	933	185	661	86	233
	Migori	811	72	738	80.0	648	69	131	449	162
	Nyamira	388	23	365	80.0	310	40	87	184	78
Rift Valley	Kajiado	557	227	330	80.0	446	215	66	165	111
	Kipsigis	904	181	722	80.0	723	172	13	537	181
	Laikipia	464	106	359	80.0	372	142	30	200	93
	Nakuru	1,750	1,143	607	80.0	1,400	914	92	394	350
	Narok	601	77	523	80.0	480	73	197	210	120
	Trans Nzoia	770	229	541	80.0	616	218	0	398	154
	Uasin Gishu	856	506	350	80.0	685	405	129	151	171
	Bomet	868	0	868	80.0	695	0	75	620	174
	Transmara	323	28	296	80.0	259	26	142	90	65
	Baringo	497	98	399	80.0	398	232	28	138	99
	Elgeyo Marakwet	372	15	357	80.0	297	14	98	185	74
	Nandi	798	45	753	80.0	638	42	86	509	160
	Samburu	185	48	137	80.0	148	46	79	23	37
	Turkana	207	70	137	80.0	166	69	62	34	41
West Pokot	378	53	324	80.0	302	50	165	86	76	
Western	Bungoma	1,400	276	1,124	80.0	1,120	484	497	139	280
	Busia	609	120	489	80.0	487	114	114	259	122
	Kakamega	1,589	274	1,315	80.0	1,271	260	179	832	318
	Vihiga	856	32	824	80.0	685	241	151	293	171
TOTAL		37,405	11,347	26,058	81.8	30,583	11,037	8,023	11,521	6,822

Table- 2.3.1 Water Demand Estimates in 1995

(Unit: m³/day)

Province	District	Residential				Non-residential				Sub-total	Total
		UWS	LSRWS	SSRWS	Sub-total	Health	School	Ind. & Com.	Livestock		
Nairobi	Nairobi	221,117	0	0	221,117	1,072	10,131	99,503	1,223	111,929	333,046
Central	Kiambu	27,332	17,199	2,842	47,373	405	6,307	11,843	3,633	22,188	69,562
	Kirinyaga	1,253	15,861	258	17,372	392	2,471	2,606	2,154	7,624	24,996
	Muranga	3,815	14,884	10,660	29,359	568	5,401	4,404	3,872	14,246	43,604
	Nyandarua	7,309	3,720	2,711	13,739	354	2,171	687	6,388	9,600	23,340
	Nyeri	8,490	5,211	6,141	19,842	479	3,901	2,976	3,895	11,252	31,093
Coast	Kilifi	23,838	1,493	6,317	31,648	417	3,994	1,582	2,428	8,421	40,069
	Kwale	2,086	804	4,363	7,253	310	2,570	1,088	5,585	9,553	16,805
	Lamu	880	341	710	1,930	142	398	97	918	1,555	3,485
	Mombasa	45,928	3,840	3,539	53,307	427	2,156	31,984	176	34,742	88,050
	Taita	4,051	2,971	1,227	8,249	133	505	412	1,180	2,230	10,480
	Tana River	2,354	706	87	3,147	267	357	472	11,767	12,862	16,009
Eastern	Embu	4,866	6,042	1,039	11,947	312	2,444	597	4,123	7,476	19,423
	Isiolo	4,605	532	450	5,587	55	196	1,397	939	2,586	8,173
	Kitui	1,363	1,444	617	3,423	283	1,048	171	11,244	12,746	16,169
	Masaku	14,493	5,001	1,345	20,839	477	4,491	1,042	8,601	14,611	35,450
	Marsabit	6,782	3,010	808	10,601	165	338	530	8,253	9,286	19,887
	Meru	2,642	6,331	2,801	11,774	232	3,149	589	4,257	8,227	20,001
	Nyambene	294	9,716	1,735	11,744	193	2,992	587	3,679	7,451	19,195
	Tharaka Nithi	936	4,578	127	5,642	336	1,732	282	4,437	6,787	12,429
	Mwingi	1,487	1,412	421	3,319	165	1,700	166	5,421	7,452	10,771
	Makueni	1,858	1,739	2,560	6,157	418	4,865	308	66,518	72,109	78,265
North-Eastern	Garissa	5,071	1,692	1,236	7,999	165	473	400	55,476	56,515	64,513
	Mandera	2,002	1,339	350	3,691	91	479	185	12,665	13,419	17,110
	Wajir	805	6,380	187	7,372	169	460	369	21,766	22,764	30,136
Nyanza	Gusii	5,574	1,461	4,632	11,667	549	7,296	583	6,837	15,265	26,932
	Kisumu	39,183	12,619	1,222	53,023	480	4,790	7,954	9,087	22,311	75,335
	Siaya	1,405	10,726	153	12,284	434	4,059	614	9,783	14,890	27,174
	Homa Bay	10,282	6,428	405	17,115	513	4,873	856	5,490	11,732	28,847
	Migori	1,508	317	524	2,349	199	3,387	117	3,305	7,008	9,357
	Nyamira	2,106	1,705	1,745	5,555	272	1,602	278	6,112	8,264	13,819
Rift Valley	Kajiado	6,528	2,683	3,257	12,469	194	727	3,117	23,084	27,122	39,591
	Kipsigis	7,956	244	2,733	10,932	359	3,392	547	5,248	9,546	20,478
	Laikipia	5,735	244	798	6,777	217	626	339	6,153	7,334	14,111
	Nakuru	47,018	4,125	4,861	56,004	638	6,061	8,401	55,455	70,554	126,558
	Narok	1,487	1,811	933	4,231	195	735	212	13,095	14,236	18,467
	Trans Nzoia	7,433	0	1,930	9,363	208	2,815	1,404	2,955	7,382	16,745
	Uasin Gishu	11,802	5,510	3,131	20,442	399	1,258	3,066	8,190	12,913	33,355
	Bomet	0	925	2,111	3,036	346	3,259	152	9,300	13,056	16,092
	Transmara	991	365	112	1,468	149	1,004	73	4,924	6,151	7,619
	Baringo	19,290	1,948	923	22,161	419	789	1,108	36,709	39,025	61,186
	Elgeyo Marakwet	235	1,285	669	2,189	228	1,473	109	1,956	3,767	5,956
	Nandi	867	1,412	4,014	6,294	320	3,066	315	8,160	11,860	18,154
	Samburu	1,508	3,068	428	5,004	82	747	250	9,801	10,880	15,884
	Turkana	6,937	1,982	529	9,448	117	432	2,362	6,771	9,682	19,130
	West Pokot	1,325	2,146	308	3,780	160	606	189	9,565	10,521	14,301
	Western	Bungoma	21,034	17,294	1,323	39,652	382	5,188	1,983	6,721	14,274
Busia		2,303	4,484	4,912	11,699	247	2,619	585	4,153	7,604	19,302
Kakamega		5,607	5,163	11,603	22,373	631	6,341	1,119	9,833	17,923	40,296
Vihiga		12,437	4,603	4,317	21,357	240	3,414	1,068	4,220	8,942	30,298
TOTAL		616,207	208,793	110,102	935,102	16,003	135,287	201,077	517,508	869,875	1,804,976

Source: The Aftercare Study Team

Table - 2.3.2 Water Demand Estimates in 2010

(Unit: m³/day)

Province	District	Residential				Non-residential					Total
		UWS	LSRWS	SSRWS	Sub-total	Health	School	Ind. & Com.	Livestock	Sub-total	
Nairobi	Nairobi	438,333	0	0	438,333	1,796	16,492	265,065	1,378	284,732	723,065
Central	Kiambu	57,702	28,372	8,122	94,197	599	8,053	31,550	4,095	44,296	138,493
	Kirinyaga	6,534	17,293	1,364	25,191	614	2,919	6,942	2,428	12,902	38,093
	Muranga	18,896	15,584	19,333	53,813	893	6,241	11,731	4,364	23,230	77,043
	Nyandarua	24,787	4,650	5,870	35,308	561	2,815	1,830	7,199	12,406	47,714
	Nyeri	41,896	4,795	9,789	56,480	729	4,315	7,928	4,390	17,363	73,843
Coast	Kilifi	37,515	2,495	18,294	58,304	672	5,183	4,215	2,737	12,807	71,111
	Kwale	7,456	1,690	15,891	25,037	482	3,208	2,898	6,294	12,882	37,919
	Lamu	5,248	373	1,347	6,969	230	529	257	1,035	2,051	9,020
	Mombasa	66,435	5,555	3,675	75,665	671	2,769	49,182	198	52,820	128,485
	Taita	11,174	3,978	1,354	16,507	203	615	1,099	1,330	3,246	19,753
	Tana River	7,749	4,320	771	12,840	433	488	1,257	13,261	15,439	28,279
Eastern	Embu	14,570	11,052	5,783	31,405	490	3,181	1,591	4,646	9,908	41,313
	Isiolo	12,170	461	322	12,952	89	303	3,721	1,058	5,171	18,123
	Kitui	5,007	9,305	5,758	20,070	441	1,384	456	12,671	14,952	35,022
	Masaku	56,030	11,167	9,136	76,333	756	5,774	2,776	9,693	18,999	95,332
	Marsabit	16,440	2,219	1,032	19,691	262	1,064	1,412	9,301	12,039	31,730
	Meru	20,221	7,058	9,097	36,376	354	4,192	1,568	4,797	10,912	47,288
	Nyambene	1,609	20,746	6,416	28,771	290	3,982	1,564	4,146	9,983	38,755
	Tharaka Nithi	2,394	15,065	727	18,186	538	2,306	751	5,000	8,596	26,781
	Mwingi	4,820	9,046	4,665	18,531	256	2,245	442	6,109	9,052	27,583
Makueni	7,568	10,577	12,838	30,982	638	2,465	820	74,963	78,886	109,868	
North-Eastern	Garissa	13,613	2,624	1,579	17,816	261	619	1,065	62,520	64,465	82,281
	Mandera	10,898	5,139	1,943	17,980	147	753	492	14,272	15,663	33,643
	Wajir	10,939	5,346	227	16,513	262	531	982	24,530	26,305	42,818
Nyanza	Gusii	15,985	5,137	49,564	70,686	836	9,632	1,554	7,705	19,726	90,412
	Kisumu	69,354	16,757	2,811	88,922	742	6,154	21,187	10,241	38,324	127,246
	Siaya	8,812	28,166	695	37,673	658	4,414	1,636	11,025	17,732	55,405
	Homa Bay	25,862	32,835	3,586	62,284	822	6,364	2,280	6,187	15,653	77,937
	Migori	9,583	6,498	18,629	34,710	295	4,422	313	3,725	8,754	43,464
	Nyamira	5,567	4,297	7,618	17,483	434	2,114	740	6,888	10,176	27,659
Rift Valley	Kajiado	29,983	3,262	3,264	36,508	329	1,198	8,304	26,015	35,846	72,354
	Kipsigis	24,036	653	22,306	46,995	582	4,930	1,456	5,914	12,882	59,877
	Laikipia	19,752	1,465	3,959	25,176	355	999	903	6,935	9,191	34,367
	Nakuru	127,565	4,556	7,776	139,898	1,064	3,762	22,378	62,495	89,700	229,598
	Narok	10,235	9,775	8,723	28,733	336	3,276	564	14,758	18,933	47,666
	Trans Nzoia	30,392	0	16,526	46,917	330	4,201	3,741	3,330	11,602	58,520
	Uasin Gishu	56,490	6,380	2,989	65,859	641	1,840	8,168	9,230	19,879	85,738
	Bomet	0	3,706	25,728	29,434	560	4,737	404	10,481	16,182	45,616
	Transmara	3,662	7,065	3,741	14,468	250	1,764	196	5,549	7,759	22,227
	Baringo	32,314	1,385	2,733	36,433	674	1,069	2,952	41,370	46,065	82,498
	Elgeyo Marakwet	1,981	4,854	7,689	14,525	365	2,027	292	2,205	4,888	19,413
	Nandi	5,923	4,295	21,144	31,361	524	4,354	838	9,195	14,912	46,273
	Samburu	6,355	3,940	453	10,747	129	397	666	11,045	12,238	22,985
	Turkana	9,685	3,075	1,421	14,181	182	1,129	6,292	7,631	15,234	29,414
	West Pokot	7,037	8,200	1,707	16,944	259	812	503	10,780	12,353	29,297
Western	Bungoma	67,569	24,683	5,748	97,999	604	7,638	5,281	7,575	21,098	119,097
	Busia	15,947	5,661	10,743	32,351	378	3,322	1,558	4,680	9,939	42,291
	Kakamega	36,337	8,872	34,538	79,747	989	8,670	2,980	11,082	23,721	103,468
	Vihiga	33,578	7,488	12,163	53,229	368	4,669	2,845	4,755	12,637	65,865
TOTAL		1,554,008	401,915	421,588	2,377,511	25,370	176,322	499,627	583,210	1,284,529	3,662,040

Source: The Aftercare Study Team

Table - 2.3.3 (1/3) Water Demand by Urban Water Supply

Province	District	Urban Center Name	Population Served by UWS				Water Demand (m ³ /day)						
			1995	2000	2005	2010	1995 Total	2010					2010 Total
							Total	Residential	Health	School	Ind & Com	Livestock	Total
Nairobi	Nairobi	Nairobi	1,785,000	2,156,034	2,536,680	2,932,310	333,046	438,333	1,796	16,492	265,065	0	721,687
Central	Kiambu	Githunguri	8,000	12,501	14,288	14,288	1,205	1,993	7	97	382	0	2,480
		Karuri	15,000	21,822	26,791	26,791	2,259	3,737	14	183	716	0	4,649
		Kiambu	8,058	12,715	14,392	14,392	1,213	2,008	7	98	385	0	2,498
		Kikuyu	9,586	15,197	17,121	17,121	1,443	2,388	9	117	457	0	2,971
		Ndumbeni	0	0	0	19,550	0	2,727	10	133	522	0	3,393
		Ruiru	60,000	87,196	119,213	107,164	9,035	14,949	54	731	2,863	0	18,598
		Thika	120,000	189,336	214,327	214,327	18,070	29,899	109	1,462	5,727	0	37,196
	Kirinyaga	Kerugoya/Kulus	9,449	14,723	21,348	43,755	1,320	6,104	63	298	710	0	7,175
		Wanguru	667	1,030	1,391	3,087	93	431	4	21	50	0	506
	Muranga	Makuyu	600	895	1,255	2,639	82	368	3	18	34	0	422
		Maragua	6,200	8,693	11,656	27,266	849	3,804	27	186	350	0	4,366
	Nyandarua	Maranga	24,000	36,106	50,603	105,547	3,288	14,724	103	720	1,353	0	16,900
		Nyahururu	50,000	84,089	129,573	150,583	6,834	21,006	205	1,027	668	0	22,906
	Nyeri	Oi Kalou	9,000	15,001	20,963	27,105	1,230	3,781	37	185	120	0	4,123
		Endarasha	0	0	0	7,186	0	1,002	8	49	90	0	1,150
		Karatina	14,533	22,525	33,240	38,767	2,045	5,408	45	264	456	0	6,203
	Nyeri	Nyeri	40,000	62,094	91,635	217,108	5,629	30,287	250	1,481	2,720	0	34,738
Othaya		14,000	21,577	31,922	37,266	1,970	5,199	43	254	467	0	5,963	
Coast	Kitifi	Kitifi	30,170	41,335	41,335	41,335	4,105	5,766	37	282	229	0	6,314
		Majengo	0	0	0	5,271	0	735	5	36	29	0	805
		Malindi	141,293	193,580	193,580	193,580	19,224	27,004	171	1,320	1,074	0	29,569
		Mamburi	2,000	2,740	2,740	2,740	272	382	2	19	15	0	419
		Manikani	12,600	17,263	17,263	17,263	1,714	2,408	15	118	96	0	2,637
		Watamu	6,375	8,734	8,734	8,734	857	1,218	8	60	43	0	1,334
	Kwale	Kwale	3,005	5,367	7,611	9,538	427	1,331	10	65	59	0	1,464
		Lungalunga	1,833	2,971	4,059	5,819	260	812	6	40	36	0	893
		Msambweni	12,000	21,291	30,271	38,090	1,704	5,314	39	260	235	0	5,847
	Lamu	Lamu	5,000	7,607	11,132	26,494	691	3,696	79	181	88	0	4,143
		Mokowe T.C	2,100	3,148	4,398	11,128	290	1,552	33	76	37	0	1,698
	Mombasa	Mombasa	370,764	412,176	448,411	476,234	69,374	66,435	455	1,878	43,183	0	111,951
		Taveta	4,400	5,939	7,882	10,778	577	1,504	10	29	52	0	1,594
		Voi	20,300	29,187	40,355	49,727	2,661	6,937	44	134	239	0	7,353
		Wundanyi	8,000	11,406	15,794	19,597	1,049	2,734	17	53	94	0	2,898
	Tana River	Garsen	10,000	15,827	21,866	29,237	1,513	4,079	70	79	202	0	4,429
		Hola	9,000	15,699	22,572	26,313	1,361	3,671	63	71	182	0	3,586
Eastern	Embu	Embu	35,000	56,212	81,342	93,054	4,823	12,981	98	635	317	0	14,031
		Runyerejes	4,284	6,310	8,658	11,390	590	1,589	12	78	39	0	1,717
		Isiolo	36,000	60,975	78,896	78,896	5,341	11,006	62	212	2,602	0	13,882
		Madogash	0	0	0	5,770	0	805	5	16	190	0	1,015
	Meru	Merti	1,173	1,808	2,571	2,571	174	359	2	7	85	0	452
		Kitui	11,000	18,441	27,069	35,892	1,553	5,007	31	96	32	0	5,166
	Masaku	Athi River	12,500	19,533	28,487	42,911	1,783	5,986	38	293	141	0	6,458
		Machakos	80,000	125,034	182,367	274,630	11,411	38,311	245	1,873	900	0	41,329
		Matuu	10,000	15,453	20,734	34,329	1,426	4,789	31	234	113	0	5,166
	Marsabit	Tala + Kangundo	14,500	22,438	32,509	49,777	2,068	6,944	44	339	163	0	7,491
		Kargi	8,000	11,668	16,380	17,220	1,046	2,402	24	98	130	0	2,654
		Korr	8,000	10,899	14,736	17,220	1,046	2,402	24	98	130	0	2,654
		Marsabit	19,750	28,784	40,664	42,513	2,582	5,931	60	241	320	0	6,552
		Moyale	10,000	14,567	20,663	21,525	1,307	3,003	30	122	162	0	3,317
		North Horr	2,500	3,394	4,618	5,381	327	751	8	31	41	0	829
	Meru	Sofolo	6,500	9,522	13,453	13,992	850	1,952	20	79	105	0	2,156
		Meru	16,330	26,211	38,177	192,699	2,203	15,481	111	1,314	492	0	17,398
Nyambene	Nkubu	5,000	8,044	11,722	59,001	674	4,740	34	402	151	0	5,327	
	Maua	2,372	3,493	4,841	11,537	326	1,609	6	79	31	0	1,725	
Tharaka Nithi	Chuka	7,560	11,135	15,432	17,162	1,103	2,394	27	117	38	0	2,577	
Mwingi	Mwingi	12,000	20,235	29,683	34,555	1,900	4,820	27	236	46	0	5,129	
Makueni	Kibwezi	0	0	0	7,316	0	1,021	5	20	7	0	1,052	
	Mtito Andei	15,000	22,632	32,438	46,934	2,383	6,547	33	126	42	0	6,746	

Table - 2.3.3 (2/3) Water Demand by Urban Water Supply

Province	District	Urban Center Name	Population Served by UWS				Water Demand (m ³ /day)						
			1995	2000	2005	2010	1995 Total	2010					Total
								Residential	Health	School	Ind. & Com.	Livestock	
North Eastern	Garissa	Garissa	34,758	62,792	88,197	82,850	4,587	11,558	94	223	383	0	12,257
		Eiloi	6,180	9,551	12,282	14,731	816	2,055	17	40	68	0	2,179
	Mandera	Eilwak	0	0	0	15,017	0	2,095	8	40	26	0	2,169
		Mandera	8,160	11,701	16,205	31,866	3,099	4,445	17	86	56	0	4,604
		Rhama	8,000	10,910	14,493	31,241	1,077	4,358	16	84	55	0	4,513
	Wajir	Bule	0	0	0	5,217	0	728	7	14	26	0	775
		Eldas	5,000	7,494	10,471	11,563	652	1,613	15	31	57	0	1,717
Wajir		1,500	2,260	3,262	61,637	196	8,598	82	166	306	0	9,152	
Nyanza	Gusii	Kisii	45,000	69,066	95,324	114,584	6,475	15,985	68	781	126	0	16,960
		Ahero	454	645	875	729	68	102	1	5	17	0	124
	Kisumu	Kisumu	280,845	418,196	441,418	441,418	41,244	61,578	363	3,010	10,364	0	75,315
		Maseno	30,000	42,192	57,145	47,153	4,406	6,578	39	322	1,107	0	8,045
		Muhoroni	5,000	7,435	7,859	7,859	734	1,096	6	54	185	0	1,341
	Siaya	Asiro	0	0	0	8,905	0	1,242	9	61	23	0	1,334
		Siaya	11,340	16,539	22,974	54,263	1,655	7,570	55	370	137	0	8,132
	Homa Bay	Homa Bay	43,000	64,411	88,879	90,372	6,482	12,607	80	618	221	0	13,524
		Xendu Bay	10,000	14,845	20,514	21,017	1,508	2,932	19	143	51	0	3,145
		Mhira	0	0	0	10,954	0	1,528	10	75	27	0	1,639
	Oyugis	Oyugis	30,000	41,470	55,454	63,650	4,523	8,795	56	430	154	0	9,435
		Awendo/Sare	0	0	0	15,445	0	2,155	7	105	7	0	2,274
		Kehancha	3,800	5,253	7,024	14,148	814	1,974	6	96	7	0	2,083
	Migori	Migori	4,233	6,334	8,751	15,760	907	2,199	7	107	8	0	2,321
		Nyahikaye	0	0	0	7,924	0	1,105	4	54	4	0	1,167
		Rongo	4,142	5,904	7,666	15,426	887	2,151	7	105	7	0	2,271
	Nyamira	Keroka	0	0	0	5,076	0	708	7	35	12	0	763
Nyamira + Kebirigo		17,000	27,266	34,834	34,834	2,396	4,859	49	238	83	0	5,229	
Rift Valley	Kajiado	Kajiado	5,000	8,965	14,314	20,292	701	2,845	15	55	380	0	3,294
		Magadi	10,000	18,231	29,061	40,784	1,403	5,689	30	110	760	0	6,589
		Namanga	4,500	8,077	12,901	18,355	631	2,560	14	49	342	0	2,965
		Ngong	6,000	10,402	16,297	24,471	842	3,414	18	66	456	0	3,953
		Otoiokitoki	20,000	36,040	57,660	81,568	2,805	11,379	60	219	1,519	0	13,177
		Ongata Longai	7,200	12,483	19,557	29,365	1,010	4,096	22	79	547	0	4,744
	Kipsigis	Kenicho	58,723	95,871	138,400	148,636	8,197	20,735	120	1,014	299	0	22,167
		Kipkelion	1,500	2,448	3,575	3,797	209	530	3	26	8	0	566
		Londiani	4,000	6,535	9,378	10,125	558	1,412	8	69	20	0	1,510
		Sodiki	0	0	0	9,746	0	1,360	8	66	20	0	1,453
	Laikipia	Nanyuki	43,100	72,663	111,971	131,804	5,936	18,387	126	354	320	0	19,187
		Rumuruti	3,200	5,000	7,171	9,786	441	1,265	9	26	24	0	1,425
	Nakuru	El Burgon	6,000	10,407	14,455	14,455	853	2,017	11	39	231	0	2,297
		Gilgil	8,000	13,879	19,274	19,274	1,137	2,689	15	52	308	0	3,063
		Molo	10,000	17,382	24,092	24,092	1,421	3,361	18	65	385	0	3,829
		Naivasha	46,000	79,996	110,824	110,824	6,537	15,460	84	298	1,772	0	17,614
		Nakuru	304,561	529,179	733,756	733,756	43,284	102,359	558	1,972	11,729	0	116,618
		Njoro	5,000	8,670	12,046	12,046	711	1,680	9	32	193	0	1,915
	Narok	Narok	12,000	22,812	37,691	73,369	1,641	10,235	51	500	86	0	10,873
	Trans Nzoia	Kitale	60,000	104,275	157,320	217,862	8,732	30,392	117	1,486	1,323	0	33,317
	Uasin Gishu	Burn Forest	1,810	2,737	3,901	7,125	249	994	7	19	85	0	1,105
		Eldoret	90,000	150,290	229,800	354,259	12,393	49,419	331	952	4,226	0	54,928
		Lemok	0	0	0	10,495	0	1,464	10	28	125	0	1,627
Moi's Bridge		1,010	1,542	2,230	3,976	139	555	4	11	47	0	616	
Simat		0	0	0	19,445	0	2,713	18	52	232	0	3,015	
Turbo		2,450	3,743	5,361	9,644	337	1,345	9	26	115	0	1,495	
Transmara	Kilgoris	8,000	13,452	20,729	26,248	1,476	3,662	25	179	20	0	3,866	
	ElJama Ravine	20,000	29,751	29,751	29,751	2,675	4,150	50	80	221	0	4,501	
	Kahamet	127,500	189,666	189,666	189,666	17,050	26,458	321	510	1,407	0	28,696	
	Maji Mazuri	2,000	2,975	2,975	2,975	267	415	5	8	22	0	450	
	Marigat	1,219	1,813	1,813	1,813	163	253	3	5	13	0	274	
	Mogotio	5,000	7,438	7,438	7,438	669	1,038	13	20	55	0	1,125	
Elgeyo Marakwet	Item	1,900	3,040	4,242	14,203	279	1,981	17	97	14	0	2,110	

Table - 2.3.3 (3/3) Water Demand by Urban Water Supply

Province	District	Urban Center Name	Population Served by UWS				Water Demand (m ³ /day)						
			1995	2000	2005	2010	1995 Total	2010					Total
								Residential	Health	School	Ind. & Com.	Livestock	
Rift Valley	Nandi	Kapsabet + Baraton	7,000	12,341	18,346	42,458	992	5,923	35	290	56	0	6,303
		Maralal	2,173	3,559	5,406	8,131	294	1,134	7	22	37	0	1,200
		Wamba	10,000	16,371	24,909	37,425	1,354	5,221	33	101	169	0	5,523
	Turkana	Kakumar T.C	20,000	24,795	24,795	24,795	2,966	3,459	27	169	942	0	4,597
		Kalokol	2,000	2,479	2,479	2,479	297	346	3	17	91	0	460
		Lodwar	20,000	37,192	37,192	37,192	4,449	5,188	41	254	1,413	0	6,896
		Lokitang	4,000	4,959	4,959	4,959	593	692	5	34	188	0	919
	West Pokot	Kapenguria	5,500	9,083	13,590	25,928	749	3,617	22	70	43	0	3,752
		Makutano	5,200	8,537	12,849	24,513	708	3,420	21	66	41	0	3,547
	Western	Bungoma	Bungoma	36,000	59,066	99,395	99,395	4,895	13,866	54	678	469	0
Chapatais			0	0	0	7,534	0	1,051	4	51	36	0	1,142
Kikibi			93,800	154,158	258,980	258,980	12,755	36,128	140	1,766	1,221	0	39,255
Mawalie + Malakisi			0	0	0	8,014	0	1,118	4	55	38	0	1,215
Webuye			40,000	65,708	110,439	110,439	5,439	15,406	60	753	521	0	16,740
Busia		Busia	17,267	31,961	47,429	98,433	2,325	13,731	76	671	315	0	14,794
		Malaba Town	0	0	0	8,332	0	1,162	6	57	27	0	1,252
		Nambale	1,325	2,217	3,106	7,554	178	1,054	6	52	24	0	1,135
Kakamega		Butere	5,000	7,441	10,215	28,773	682	4,014	22	196	67	0	4,300
		Kakamega	27,826	44,473	63,732	160,123	3,796	22,337	125	1,092	375	0	23,929
		Mumias	12,440	18,342	25,061	71,588	1,697	9,986	56	488	168	0	10,698
Vihiga		Luanda	68,400	108,981	157,213	163,933	9,326	22,876	88	1,118	681	0	24,763
		Mbale	20,000	30,909	41,103	47,948	2,727	6,689	26	327	199	0	7,241
		Vihiga + Majengo	12,000	19,338	26,373	28,769	1,636	4,013	15	196	120	0	4,344
TOTAL			4,974,426	7,008,580	8,928,639	11,036,725	801,748	1,554,008	8,863	59,634	383,461	0	2,005,907

Source: The Aftercare Study Team, 1998

Table - 2.3.4 (1/6) Water Demand by LSRWS

Province	Code	District	RWS Scheme Name	Population Served by LSRWS (x 1,000)				Water Demand (m ³ /day)					
				1995	2000	2005	2010	1995					Total
								Residential	Health	School	Ind. & Com.	Total	
Central	210	Kiambu	Limuru	12	14	17	19	997	954	10	132	519	1,625
			Karat	15	18	21	24	1,246	1,205	12	166	649	2,031
			Limuru Uplands	7	8	9	11	540	522	5	72	281	884
			Ngecha	5	6	7	8	415	402	4	55	216	677
			Ikine Riiki	18	20	23	27	1,362	1,318	13	181	709	2,221
			Korio	5	6	7	8	415	402	4	55	216	677
			Githa	9	10	12	14	709	686	7	94	369	1,156
			Kanunga	7	8	9	11	540	522	5	72	281	884
			Kiaria	5	5	6	7	374	362	4	50	195	604
			Kiu South	4	5	6	6	332	321	3	44	173	542
			Thirika	50	60	71	81	4,354	4,017	41	552	2,162	6,771
			Gatundu	11	13	15	17	890	861	9	118	463	1,452
			Komotha	40	48	56	65	3,323	3,214	33	441	1,729	5,417
			Uplands	14	17	20	23	1,163	1,125	12	154	605	1,898
			Bathi	35	42	49	57	2,907	2,812	29	386	1,513	4,744
Karimenu	45	54	64	73	3,738	3,615	37	497	1,946	6,094			
Ithanga	30	36	42	49	2,492	2,410	25	331	1,297	4,063			
Ndaruga	45	54	64	73	3,738	3,615	37	497	1,946	6,094			
Sub-total				353	426	499	571	29,337	28,372	290	3,897	15,268	47,828
Central	220	Kirinyaga	Ngarima	40	41	42	43	2,827	2,118	61	291	692	3,162
			Kabare	15	17	17	18	1,162	870	25	120	284	1,299
			Karuti W/P	12	12	13	13	850	637	18	88	208	951
			Kiangombe S/H	6	6	6	7	434	325	9	45	106	485
			Kiangwenyi Women Group	4	4	5	5	310	232	7	32	76	346
			Tetihia/Tetih S/H	8	8	8	8	542	406	12	56	133	606
			Mutungara S/H	8	8	8	8	542	406	12	56	133	606
			Ndia Ph A	27	28	29	29	1,942	1,455	42	200	475	2,172
			Ph B	25	25	26	26	1,736	1,301	38	179	425	1,942
			Ph C	85	87	89	91	6,024	4,513	130	620	1,474	6,738
			Sagana	21	22	22	23	1,510	1,131	33	155	369	1,688
			Kahara Rural	17	17	17	18	1,172	878	25	121	287	1,310
			Ngarima Rural	49	50	51	52	3,466	2,596	75	357	848	3,874
Kirinyaga	8	8	8	8	567	425	12	58	139	634			
Sub-total				326	333	341	348	23,083	17,293	590	2,375	5,649	25,817
Central	230	Muranga	Sabasaba	9	9	9	10	624	476	9	65	123	679
			Garango	8	8	8	8	523	398	8	55	103	564
			Kigumo	150	151	153	154	10,040	7,649	150	1,051	1,975	10,825
			Kandara	78	79	80	80	5,233	3,987	78	548	1,029	5,642
			Kahuti	60	61	61	62	4,036	3,075	60	422	794	4,351
Sub-total				306	308	311	314	20,455	15,584	396	2,141	4,023	22,855
Central	240	Nyandarua	Ngorika	15	16	17	18	1,422	913	25	125	82	1,145
			Mawingo	9	9	10	11	824	529	14	73	47	663
			Mugitiri	12	13	14	15	1,138	731	20	100	65	916
			Gisei	6	6	6	7	522	335	9	46	30	430
			Kirangop R.M.	11	12	13	14	1,072	688	19	94	61	863
			Of-J Kangui	15	16	17	18	1,422	913	25	125	82	1,145
			Kirina	5	5	6	6	474	304	8	42	27	382
Kiriri	4	4	4	5	370	237	7	33	21	298			
Sub-total				76	82	88	94	7,243	4,650	127	639	415	5,832
Central	250	Nyeri	Zaina	16	15	15	14	1,218	717	17	98	181	1,013
			Tetu Thegenge	40	39	37	36	3,045	1,793	42	246	452	2,533
			Mukurwaini	6	6	6	5	457	269	6	37	68	380
			Mukurwaini Rural	45	44	42	41	3,425	2,017	47	277	509	2,849
Sub-total				107	104	100	97	8,144	4,795	111	659	1,210	6,779

Table - 2.3.4 (2/6) Water Demand by LSRWS

Province	Code	District	RWS Scheme Name	Population Served by LSRWS (x 1,000)				Water Demand (m ³ /day)					
				1995	2000	2005	2010	1995 Total	2010				Total
									Residential	Health	School	Ind. & Com.	
Coast	310	Kilifi	Tenzo-Roka	9	11	12	14	603	711	13	98	78	901
			Mazeras-Jaribuni	10	12	15	17	703	830	15	114	93	1,051
			Mackinnon Road	5	6	8	9	363	428	8	59	48	543
			Pidmango	6	8	9	11	446	526	9	72	59	666
		Sub-total		31	37	44	50	2,115	2,495	44	343	279	3,161
	320	Kwale	Vanga	5	6	8	9	425	461	10	63	57	591
			Kikooeni	12	16	20	25	1,133	1,229	25	169	152	1,575
		Sub-total		17	22	28	34	1,558	1,690	35	232	210	2,166
	330	Lamu	Central W/S	7	7	7	8	614	373	22	51	25	472
			Sub-total		7	7	7	8	614	373	22	51	25
	340	Mombasa	Mlongwe-Mwenzu Ext.	10	11	12	13	1,881	1,792	12	51	1,165	3,014
			Mrima Flats Ext.	4	4	5	5	752	717	5	20	466	1,208
			Vyemani Line Ext.	4	4	5	5	752	717	5	20	466	1,208
			Soweto-Mwatsabalo Ext.	8	9	10	10	1,505	1,433	10	41	932	2,416
Kwa Jomvu/Miritini			5	5	6	6	941	896	6	25	582	1,511	
	Sub-total		31	34	37	40	5,831	5,555	38	157	3,611	9,260	
350	Tana	Chongoni	12	13	15	16	809	795	14	43	77	930	
		Bura	6	7	7	8	405	398	7	22	38	465	
		Wundanyi	16	18	19	21	1,061	1,043	19	56	101	1,214	
		Maungu Buguta	7	8	8	9	464	456	8	25	44	532	
		Ngrirwunyi w/s (Dembwa)	12	13	15	16	809	795	14	43	77	930	
		Mwakiki	8	8	9	10	498	490	9	27	47	572	
	Sub-total		61	67	74	80	4,046	3,978	71	215	385	4,649	
360	Tana River	Bura W/S	8	11	13	16	5,090	794	28	43	111	596	
		Ngao	7	9	11	13	4,136	645	31	35	90	801	
		Ongoing projects, etc.					0	2,880	138	156	402	3,576	
	Sub-total		15	19	24	27	9,225	4,320	207	234	602	5,364	
Eastern	410	Embu	Ena-Siakago	43	54	65	76	3,530	3,786	80	520	260	4,646
			Siakago	8	10	12	14	664	713	15	98	49	875
			Nganduri A	20	25	31	36	1,661	1,782	34	245	122	2,186
			Nganduri B	20	25	31	36	1,661	1,782	34	245	122	2,186
			Kyeni Rural	28	35	43	50	2,325	2,494	53	343	171	3,061
			Ishara	6	7	9	10	463	496	10	68	34	609
		Sub-total		124	157	190	223	10,304	11,052	234	1,518	760	13,564
	420	Isiolo	Garbatula	5	5	4	4	496	200	3	11	133	341
			Ngaremara W/S	6	5	5	4	644	182	3	10	121	316
		Sub-total		11	10	10	9	1,140	461	7	25	366	799
	430	Kiuri	Mwingi	15	20	25	30	3,216	1,490	26	81	27	1,622
			Kahari	7	9	11	13	1,424	660	13	36	12	719
			Mutito-Mui	8	11	13	16	1,715	794	14	43	14	865
			Ongoing projects, etc.					0	6,361	110	344	113	6,929
		Sub-total		30	40	49	107	6,356	9,305	161	504	166	10,135
	440	Masaku	Ikombe	4	6	7	9	439	435	8	60	29	531
			Muthetheni	13	19	24	29	1,471	1,457	26	200	96	1,784
			Kahaka-Kihayoni	8	11	14	16	878	870	16	119	57	1,062
			Vyulya	4	6	7	9	439	435	8	60	29	531
Muthetheni Dam			9	13	16	20	985	979	18	134	65	1,195	
Mekilingi			10	14	18	22	1,098	1,087	20	149	72	1,328	
Uaani			10	14	18	22	1,098	1,087	20	149	72	1,328	
Wamunyu			11	15	20	24	1,208	1,196	21	164	79	1,461	
Siathani			4	6	7	9	439	435	8	60	29	531	
Mhiani			8	10	13	16	823	816	15	112	54	996	
	Sub-total		103	143	184	225	11,275	11,167	281	1,534	737	13,639	

Table - 2.3.4 (3/6) Water Demand by LSRWS

Province	Code	District	RWS Scheme Name	Population Served by LSRWS (x1,000)				Water Demand (m ³ /day)						
				1995	2000	2005	2010	1995 Total	2010				Total	
									Residential	Health	School	Ind. & Com.		
Eastern	450	Marsabit	South Horr	6	5	4	3	579	147	4	17	22	190	
			Godoma	6	5	4	3	551	140	4	16	21	183	
			Uran	5	4	3	2	459	117	3	13	18	153	
			Maikona Walls	11	9	7	5	1,011	257	7	29	39	332	
			Bubisa	7	6	5	3	643	163	5	19	25	211	
			Loyangalani	8	7	5	4	735	187	5	21	28	242	
			Dabel	9	7	6	4	827	210	6	24	32	272	
			Bori	5	4	3	2	459	117	3	13	18	151	
			Waldia	6	5	4	3	551	140	4	16	21	181	
			Dob-Gombo B.H	5	4	3	2	423	107	3	12	16	139	
			Laisamis	8	7	5	4	753	191	5	22	29	248	
	Logilego	13	11	8	6	1,194	303	9	35	46	393			
	Ngurunat	6	5	4	3	551	140	4	16	21	181			
	Sub-total				95	78	61	45	8,737	2,219	63	254	337	2,872
	460	Meru	Mitunguru	91	94	97	100	6,574	4,940	57	679	254	5,930	
			Mwimbi	32	33	34	35	2,312	1,737	20	239	89	2,085	
			Nkabone	7	7	7	8	506	380	4	52	20	454	
	Sub-total				130	134	138	142	9,392	7,058	82	969	363	8,472
	470	Nyambene	Kaweru	20	27	33	40	1,517	1,986	20	273	107	2,386	
			Amvamba	8	11	13	16	607	794	8	109	43	954	
			Marimi	5	6	8	9	341	447	4	61	24	537	
			K.K. Mwahe	12	16	20	24	910	1,192	12	164	64	1,431	
			Kambura	25	33	42	50	1,896	2,483	25	341	134	2,982	
			Riakiti(Koongone)	5	7	8	10	379	497	5	68	27	596	
			Giswe	5	7	8	10	379	497	5	68	27	596	
			Kibeta Miori	5	7	8	10	379	497	5	68	27	596	
			Miarbene	35	47	58	70	2,654	3,476	35	477	188	4,175	
			Tigania	80	107	133	160	6,067	7,944	80	1,091	429	9,543	
	Ongoing projects, etc.							19	0	935	9	128	50	1,124
	Sub-total				200	266	333	418	15,130	20,746	208	2,849	1,119	24,922
	480	Tharaka Nithi	Murugi/Mugumango	20	27	33	40	2,306	1,986	64	273	89	2,411	
			Mugumani	9	12	15	18	1,038	894	29	123	40	1,085	
			Karingani	45	60	75	90	5,188	4,469	143	614	200	5,426	
Mwimbi Chogoria			20	27	33	40	2,306	1,986	64	273	89	2,411		
Ongoing projects, etc.							115	0	5,731	184	257	6,958		
Sub-total				94	125	157	303	16,837	15,865	483	2,069	674	18,292	
490	Mwingi	Ngomeni W.S	10	13	17	20	1,988	992	16	136	27	1,172		
		Migwani	19	25	32	38	3,777	1,837	30	259	51	2,226		
		Ongoing projects, etc.							124	0	6,166	96	847	1,677
Sub-total				29	39	48	102	5,765	9,846	142	1,242	245	10,674	
4A0	Makueni	Wote	5	7	9	11	2,990	546	8	30	10	593		
		Makindu	12	16	20	24	6,524	1,192	17	65	21	1,294		
		Kikumulyu Rural	9	13	16	19	5,110	933	13	51	17	1,014		
		Ena-Siakago	9	12	15	18	4,784	874	12	47	16	949		
		Ongoing projects, etc.							112	0	7,032	98	381	127
Sub-total				36	48	60	213	19,408	10,577	148	573	190	11,488	
North-Eastern	510	Garissa	Masalani	5	6	7	8	3,564	389	9	23	36	455	
			Mbalambala	4	5	6	6	2,851	311	7	17	29	364	
			Mdogashe	6	7	8	9	4,198	458	10	25	43	536	
			Dadaab	5	5	6	7	3,201	349	8	19	33	409	
			Aljugur	5	6	7	8	3,564	389	9	21	36	455	
			Shanta-abak	5	5	6	7	3,208	350	8	19	33	410	
			Ijara	5	6	7	8	3,461	378	9	20	35	442	
			Sub-total				35	41	47	53	24,647	2,624	66	142
	520	Mandera	Wargadud	6	8	10	12	1,774	596	6	32	21	655	
			B.H. Eleven	4	5	7	8	1,182	397	4	22	14	437	
			S.Fatuma	4	5	7	8	1,182	397	4	22	14	437	
			Kotulo	5	6	8	9	1,330	417	5	24	16	492	
			Kalaliyo	4	5	7	8	1,182	397	4	22	14	437	
			Nehoi (Army Section)	5	7	8	10	1,478	497	5	27	18	544	
Ongoing projects, etc.							48	0	2,408	25	130	85	2,649	
Sub-total				28	37	46	103	8,130	5,139	54	278	182	5,653	

Table - 2.3.4 (4/6) Water Demand by LSRWS

Province	Code	District	RWS Scheme Name	Population Served by LSRWS (x 1,000)				Water Demand (m ³ /day)								
				1995	2000	2005	2010	1995 Total	2010				Total			
									Residential	Health	School	Ind. & Com.				
North-Eastern	530	Wajir	Kutulo	5	5	4	4	1,027	204	5	11	20	241			
			Sabuli	5	5	4	4	1,027	204	5	11	20	241			
			Ahakore	5	5	4	4	1,027	204	5	11	20	241			
			Sarif	25	24	22	21	5,135	1,020	27	55	102	1,205			
			Arbajahan	15	15	14	13	3,285	653	17	33	65	771			
			Habawein	20	19	18	16	4,108	816	22	44	82	964			
			Wajir Minor	5	5	4	4	1,027	204	5	11	20	241			
			Khorof Hakar	8	8	7	7	1,643	328	9	18	33	388			
			Kujulo	7	7	6	6	1,438	286	8	15	29	337			
			Damras	10	9	9	8	2,054	408	11	22	41	482			
			Hadado	5	5	4	4	1,027	204	5	11	20	241			
			Biyamadhow	20	19	18	16	4,108	816	22	44	82	964			
					Sub-total	131	123	115	108	26,907	5,346	143	289	535	6,214	
	610	Gusii	Geteri/Gesusu	28	29	31	32	817	1,611	19	221	36	1,887			
			Birongo	18	19	20	21	534	1,053	13	145	23	1,234			
			Gicaseri	5	5	5	6	140	278	3	38	6	324			
			Mesecho Gesoni	6	6	7	7	178	351	4	48	8	411			
			Tahaka	4	4	5	5	125	249	3	34	5	284			
			Keroka	27	29	31	32	812	1,600	19	220	35	1,874			
			Ongoing projects, etc.					0	0	0	0	0	0			
					Sub-total	88	92	98	103	2,606	5,137	61	706	114	6,818	
				620	Kisumu	M'Kombwa	30	33	36	39	3,027	1,943	32	266	917	3,150
						Nyakach W/S	120	132	144	156	12,107	7,761	129	1,066	3,670	12,625
Kenasia W/S	5	6				6	7	504	323	5	44	153	528			
Othoo	10	11				12	13	1,009	647	11	89	306	1,052			
Nyahera(Gazetted Rural W/S)	10	11				12	13	1,009	647	11	89	306	1,052			
Kibigori	10	11				12	13	1,009	647	11	89	306	1,052			
Keru-Mnara W/S	5	6				6	7	504	323	5	44	153	528			
Kisumu Rural W/S	25	28				30	33	2,523	1,617	27	222	765	2,634			
Oyugis	32	35				38	42	3,228	2,070	34	284	979	3,367			
West Karachuonyo	0	0				0	0	11	7	0	1	3	12			
Kendu Bay	12	13				14	16	1,211	776	13	107	367	1,263			
		Sub-total	259	285	311	338	26,142	16,757	277	2,302	7,924	27,241				
	630	Siaya	Bondo	10	15	21	26	1,139	1,279	28	176	65	1,544			
			Yala Township	5	8	10	13	569	639	13	88	33	773			
			Uyema	5	8	10	13	582	653	13	90	33	798			
			Mauna Dam	13	19	26	33	1,455	1,634	33	224	83	1,975			
			Ukwala	13	20	27	33	1,481	1,662	34	228	85	2,009			
			North Sakwa	9	14	18	23	1,015	1,140	23	157	58	1,378			
			South Sakwa	13	21	28	35	1,533	1,721	35	236	88	2,080			
			Ugunja	6	9	12	15	683	767	16	105	39	927			
			Sega	16	24	33	41	1,822	2,046	42	281	104	2,473			
			Sidindi Macanga	90	137	185	232	10,251	11,509	236	1,581	586	13,912			
			Uranga/Ramula	5	8	10	13	569	639	13	88	33	773			
			Bar Ober	20	31	41	52	2,278	2,558	52	351	130	3,051			
			Yonga/Sirawa	5	8	10	13	569	639	13	88	33	773			
Stigomure	10	15	21	26	1,139	1,279	28	176	65	1,544						
		Sub-total	220	334	452	567	25,086	28,166	577	3,869	1,434	34,845				
	640	Homa Bay	Kochia	28	37	47	56	3,146	2,780	49	382	137	3,344			
			West Rachuonyo	104	139	173	208	11,686	10,327	183	1,418	508	12,437			
			Ongoing projects, etc.					397	0	19,728	350	2,710	971	23,758		
		Sub-total	132	176	220	661	14,832	12,835	583	4,510	1,616	39,544				
	650	Migori	Nyasare	7	9	11	13	1,650	645	6	89	6	746			
			Ongoing projects, etc.					118	0	5,852	54	804	57	6,767		
		Sub-total	7	9	11	131	1,650	6,498	60	893	63	7,513				
	660	Nyamira	Nyambaria	15	19	24	28	1,765	1,440	41	198	69	1,747			
			Nyansongo	8	11	13	16	974	794	22	109	38	964			
			Manga w/s	5	6	8	9	546	447	13	61	21	542			
			Tombe w/s	4	5	7	8	437	397	11	55	19	482			
			Mochewa w/s	4	5	7	8	437	397	11	55	19	482			
		Sub-total	35	47	58	87	4,259	4,297	121	590	207	5,215				

Table - 2.3.4 (5/6) Water Demand by LSRWS

Province	Code	District	KWS Scheme Name	Population Served by LSRWS (x1,000)				Water Demand (m ³ /day)						
				1995	2000	2005	2010	1995 Total	2010				Total	
									Residential	Health	School	Ind. & Com.		
Rift Valley	710	Kajiado	Kiserian	6	7	7	8	1,151	373	6	20	140	539	
			Lower Matasia/Silanga	4	4	5	5	737	237	4	13	89	343	
			Kihiko	6	6	7	7	1,069	343	5	19	129	496	
			Okhorinyori	4	4	4	5	700	225	3	12	84	325	
			Olooses	8	9	9	10	1,474	474	7	26	178	684	
			Bissel	20	21	23	24	3,685	1,184	18	64	444	1,710	
			Rongai	7	8	8	9	1,327	426	6	23	160	615	
		Sub-total		55	59	62	66	10,153	3,262	48	177	1,223	4,710	
		720	Kipsigis	Chesinde	4	3	3	3	87	126	2	17	5	151
	Sosiot			15	14	12	11	361	527	9	72	21	629	
		Sub-total		19	17	15	13	447	653	11	90	26	780	
		730	Ladipia	Doldol water supply	5	7	8	10	1,102	497	10	27	24	557
	Ongoing projects, etc.							26	0	969	19	52	47	1,087
		Sub-total		5	7	8	30	1,102	1,465	28	79	72	1,644	
		740	Nakuru	Lanet	5	5	5	5	953	269	4	15	87	374
	Nyamunithi			3	3	3	3	610	172	3	9	55	234	
	West acre			4	4	4	4	763	215	3	12	69	299	
	Crater Stream			45	46	48	49	8,581	2,421	37	131	779	3,368	
	Olonguruone			4	4	4	4	667	188	3	10	61	262	
	Lake Nakuru Block 4			18	19	19	20	3,432	968	15	52	312	1,347	
Lake Nakuru Block 2	6			6	6	7	1,144	323	5	17	104	449		
	Sub-total		85	87	89	92	16,151	4,554	78	247	1,467	6,339		
	750	Narok	Angata Baragoi	4	5	7	8	927	397	6	55	9	467	
Kilgolis			4	5	6	7	811	348	5	48	8	408		
Lemek			3	3	5	6	711	304	4	42	7	358		
Mukot			13	17	21	26	2,962	1,269	18	174	30	1,491		
Oklunga			5	6	8	9	1,078	462	6	63	11	543		
Himashurian			9	12	15	18	2,132	913	13	125	22	1,073		
Ongoing projects, etc.							122	0	6,082	86	835	144	7,146	
	Sub-total		37	50	62	197	8,622	9,775	137	1,343	231	11,486		
	770	Uasin Gishu	Ainalkvi	45	47	49	51	4,287	2,525	48	137	607	3,319	
Sosian			4	4	4	5	383	226	4	12	54	296		
Kaptagot			7	7	7	8	651	383	7	21	92	504		
Msi Barracks			14	15	15	16	1,341	790	15	43	190	1,037		
Xapunda			5	5	5	5	441	259	5	14	62	341		
Yamumbi			8	8	8	9	734	432	8	23	104	568		
Msi University			4	4	5	5	409	241	5	13	58	318		
Arangai			27	28	29	31	2,589	1,525	29	83	366	2,005		
	Sub-total		113	118	123	129	10,834	6,380	128	345	1,533	8,379		
	780	Bomet	Sigor Lengisa	5	7	8	10	613	497	8	68	6	579	
Bomet water supply			4	5	7	8	490	397	6	55	5	463		
Chepalungo			10	13	17	20	1,225	993	16	136	12	1,157		
Ongoing projects, etc.							37	0	1,819	30	250	21	2,120	
	Sub-total		19	25	32	75	2,328	3,706	60	509	43	4,318		
	790	Transmara	Angata Baragoi's	4	5	7	8	2,045	397	8	55	6	466	
Lolgerien W/S			4	5	6	7	1,789	348	7	48	5	407		
Ongoing projects, etc.							127	0	6,321	123	868	96	7,408	
	Sub-total		8	10	13	142	3,834	7,065	137	970	108	8,281		
Western	810	Baringo	Narusura	11	10	9	8	5,737	381	13	21	57	472	
			Chemeron	17	15	14	12	8,867	589	20	32	88	729	
			Torongo	8	7	6	6	4,172	277	9	15	41	343	
			Okokwe	4	4	3	3	2,086	139	5	7	21	171	
		Sub-total		40	36	32	28	20,862	1,388	47	75	207	1,715	
		820	Elgeyo Marakwet	Kparakwa	8	11	13	16	779	794	20	108	16	939
	Neriko			4	5	7	8	398	406	10	56	8	438	
	Kapowar			5	7	8	10	487	497	12	68	10	587	
	Kparakwa			5	6	8	10	468	477	12	65	9	563	
	Chepkorio			5	6	8	9	438	447	11	61	9	529	
		Ongoing projects, etc.					45	0	2,234	58	307	44	2,644	
		Sub-total		26	35	44	98	2,571	4,854	120	647	96	5,737	
		830	Nandi	Nandi Hills	15	20	25	31	1,611	1,490	25	205	39	1,758
Lemokwo	4			5	7	8	430	397	7	55	11	459		
Kemdeli Kobujvi Ph I	10			13	17	21	1,074	993	16	136	26	1,172		
Ongoing projects, etc.							28	0	1,415	23	194	37	1,671	
	Sub-total		29	39	48	86	3,115	4,295	71	590	114	5,069		

Table - 2.3.4 (6/6) Water Demand by LSRWS

Province	Code	District	RWS Scheme Name	Population Served by LSRWS (x 1,000)				Water Demand (m ³ /day)						
				1995	2000	2005	2010	1995 Total	2010				Total	
									Residential	Health	School	Ind. & Com.		
Western	840	Samburu	Londongekwa	4	4	5	5	724	250	4	14	23	291	
			Kisima	4	4	5	5	724	250	4	14	23	291	
			Baragoi 1 Borehole	4	4	5	5	724	250	4	14	23	291	
			Baragoi 2 Borehole	4	4	5	5	724	250	4	14	23	291	
			Suguta marmar water supply	3	3	4	4	543	188	3	10	17	218	
			Archers post	4	4	5	5	724	250	4	14	23	291	
			South Horr water supply	10	11	12	13	1,816	625	11	34	57	727	
			Loikwas water supply	30	33	35	38	5,429	1,876	33	102	170	2,181	
	Sub-total	63	68	74	79	11,401	3,940	69	213	358	4,580			
	850	Turkana	Katilu	5	6	7	8	901	378	8	52	284	722	
			Lekori	7	8	9	11	1,262	529	12	73	405	1,018	
			Kainuk	9	11	13	15	1,677	703	16	97	538	1,353	
			Lekichogio	5	6	7	8	973	408	9	56	312	785	
			Learewak	7	8	9	11	1,262	529	12	73	405	1,018	
			Lokichar	7	8	9	11	1,262	529	12	73	405	1,018	
			Sub-total	41	48	55	62	7,337	3,075	68	422	2,353	5,918	
	860	West Pokot	Tartar/Keringet	6	8	10	12	1,257	614	11	33	21	678	
			Ortom W/S	7	10	12	14	1,467	716	12	39	24	791	
			Chepareria w/s	8	11	14	16	1,677	818	14	44	27	904	
			L/Prog. B'h (90 Drilled, 75 Installed)	18	25	31	37	3,751	1,831	32	99	61	2,023	
			Kacheliba	4	5	7	8	814	397	7	22	13	434	
			Ongoing projects, etc.				77	0	3,824	66	207	128	4,224	
	Sub-total	44	59	73	165	8,966	8,200	141	444	275	9,661			
	910	Bongoma	Naitiri Health Centre	22	24	27	30	1,633	1,501	16	206	143	1,866	
Bokoli Health Centre			19	22	24	27	1,457	1,339	15	184	127	1,665		
Kabuchai Health Centre			33	37	42	46	2,499	2,297	25	316	218	2,854		
Machwele			5	6	6	7	378	348	4	48	33	432		
Kibabii Complex			7	8	9	10	514	473	5	65	45	588		
Lukhuna			5	6	6	7	378	348	4	48	33	432		
Kapsokwony			15	17	19	21	1,134	1,043	11	143	99	1,294		
Kaptuma Chesite			4	5	6	6	333	306	3	42	29	388		
Chepkube			17	19	22	24	1,285	1,182	13	162	112	1,469		
Ndvisi-Makusheva			60	68	76	84	4,537	4,170	45	573	396	5,164		
Boioli / Kibictori			50	57	63	70	3,781	3,475	38	477	330	4,320		
Old Kibictori			25	28	32	35	1,890	1,738	19	239	168	2,160		
Chewele			5	6	6	7	378	348	4	48	33	432		
Cheikaki			88	100	111	123	6,654	6,116	66	840	581	7,604		
Sub-total			355	402	458	497	24,851	24,683	268	3,396	2,344	30,685		
920			Busia	Funyula/Bumala	29	31	34	36	2,125	1,783	28	245	115	2,171
				Wakhungu	6	6	6	7	407	341	5	47	22	415
				Sio Port	5	5	5	6	346	290	5	40	19	353
				Amakura Complex	4	4	5	5	293	246	4	34	16	294
				Amakura	4	4	5	5	293	246	4	34	16	294
	Port Victoria	10		11	12	12	733	615	10	84	40	744		
	Busia Hills	15		16	17	19	1,099	922	14	127	59	1,122		
	Funyula - Nangina	7		8	8	9	513	430	7	59	28	524		
	Fibumala	13		14	15	16	938	787	12	108	51	958		
Sub-total	92	99	107	114	6,747	5,661	88	778	365	6,892				
930	Kakamega	Bukara W/S	5	6	7	8	356	384	6	53	18	451		
		Shikusa W/S	4	5	6	7	316	341	5	47	16	409		
		Lumakanda	4	5	6	7	338	364	6	50	17	431		
		Soy	19	12	15	17	776	837	13	115	49	1,004		
		300N W/P	60	74	87	101	4,658	5,021	79	690	237	6,023		
		Little Nzona	15	18	22	25	1,165	1,255	20	172	59	1,507		
		Malava	8	10	12	13	620	670	10	92	32	804		
Sub-total	106	130	154	179	8,236	8,872	139	1,219	419	10,648				
940	Vihiga	Bumbo/Shumakhokho	5	5	6	7	344	356	4	49	30	434		
		Mafindi/Sirulo	4	5	5	6	292	303	3	42	25	374		
		Magui-Boyani	8	10	12	13	629	653	7	98	55	804		
		Moi Girls Veto-S	15	19	22	25	1,179	1,224	13	168	102	1,508		
		Kaimosi	53	63	73	84	4,008	4,159	45	571	348	5,123		
		Sesioni	10	12	14	16	763	792	9	109	66	927		
Sub-total	95	113	132	151	7,216	7,488	81	1,028	627	9,223				
TOTAL				4,541	5,029	5,715	6,023	500,426	401,915	7,123	48,643	60,754	518,433	

Source: The Aftercare Study Team

Table - 3.4.1 (1/3) General Features of the Urban Water Supply Projects

Province	Code	District	Water Supply Projects of Urban Centre	Planned Population Served	Planned Supply Quantity (m ³ /day)	Existing Capacity	Expanded Supply Quantity and Water Source			Treatment Works (full treatment) (m ³ /day)	Service Reservoir Capacity	Raw Water Main (dia) / Reticulation (dia x length)	
							River / Lake (m ³ /day)	Boreholes (m ³ /day)	Dam (m ³ /day)				
Central	110	Nairobi	U-1 Nairobi	3,023,000	723,065	319,000			Thika/Ruru/Chania				
	210	Kiambu	U-2 Githunguri	12,100	2,500	540	Ruru R	2,000		Production C	2,000	ø 150/ø 200 - ø 80 x 16 km	
			U-5 Kikuyu	20,700	3,000	1,600			1,400	Production C	1,400	ø 150/ø 200 - ø 80 x 29 km	
			U-7 Ndumburi	20,600	3,400		0 River	1,300	65 B/H	2,200	Production C	2,200	ø 125-ø 150/ø 300-ø 80 x 25 km
			U-8 Ruru	70,100	18,600	4,400	Ruru R.	14,200			Production C	14,200	ø 400/ø 600 - ø 80 x 128 km
			U-9 Thika	190,400	37,200	36,600	Chania R.	600			Production C	600	ø 100/ø 150 - ø 80 x 4 km
	220	Kirinyaga	U-12 Kerugoya/Kutus	36,000	7,200	1,900	Kiringa/Thiba	5,300		Production C	5,300	ø 250/ø 400 - ø 80 x 42 km	
			U-20 Maragua	80,000	4,400	2,400	Githinjiri R.	2,000		Production C	2,000	ø 150/ø 200 - ø 80 x 31 km	
	240	Nyanjania	U-21 Muranga	62,700	16,900	5,400	Muranga R.	11,500		Production C	11,500	ø 400/ø 600 - ø 80 x 108 km	
U-28 Nyahururu			60,200	22,900	4,500			18,400	Production C	18,400	ø 500/ø 700 - ø 80 x 144 km		
250		U-30 Ol Kalou	10,000	4,200	3,600	Malewa R.	600		Production C	600	ø 100/ø 150 - ø 80 x 28 km		
		U-33 Karatina	19,500	6,200	1,300	Ragati R.	4,900		Production C	4,900	ø 250/ø 350 - ø 80 x 36 km		
Coastal	310	Kilifi	U-36 Nyeri	33,400	34,700	5,940	Chania R.	28,800		Production C	28,800	ø 600/ø 800 - ø 80 x 207 km	
			U-38 Kilifi	57,082	6,300	4,300	Rare Reserv.	2,000		Production C	2,000	ø 150/ø 200 - ø 80 x 15 km	
			U-39 Majengo	5,600	800	0	River	630	6 B/H	180	Production C	620	ø 100-ø 50/ø 150 - ø 80 x 6 km
	320	Kwale	U-40 Malindi	134,200	29,600	16,000	Sabaki pipe	13,600		Production C	13,600	ø 400/ø 600 - ø 80 x 98 km	
			U-42 Mwatani	34,900	2,700	2,000	2nd Muzima	700		Chlorination	700	ø 100/ø 150 - ø 80 x 10 km	
	330	Lamu	U-43 Wajir	7,900	1,400	0	Sabaki pipe.	1,400		Production C	1,400	ø 150/ø 200 - ø 80 x 10 km	
			U-45 Lungu Lungu	22,300	900	220	Umba R.	700		Production C	700	ø 100/ø 150 - ø 80 x 5 km	
	340	Taita	U-46 Msambweni	20,800	5,900	900	Mkurumaji R.	5,000		Production C	5,000	ø 250/ø 350 - ø 80 x 38 km	
			U-47 Lamu	29,600	4,000	3,400	Tana pipe.	600		Production C	600	ø 100/ø 150 - ø 80 x 25 km	
350	Taita	U-49 Mokowe T.C	35,200	7,400	200	Tana R.	1,500		Production C	1,500	ø 150/ø 200 - ø 80 x 12 km		
		U-55 Voi	35,200	7,400	2,700	2nd Muzima	4,700		Production C	4,700	ø 250/ø 350 - ø 80 x 34 km		
360	Taita River	U-56 Wundanyi	8,400	2,900	2,700	Sigaso R.	700		Production C	700	ø 100/ø 150 - ø 80 x 10 km		
		U-58 Garsen	10,100	4,400	1,400	Tana R.	3,000		Production C	3,000	ø 200/ø 250 - ø 80 x 31 km		
410	Embu	U-59 Hoha	36,800	4,000	1,700	Tana R.	2,300		Production C	2,300	ø 150/ø 200 - ø 80 x 27 km		
		U-60 Embu	92,200	14,000	4,700	Kapingazi R.	9,300		Production C	9,300	ø 350/ø 500 - ø 80 x 72 km		
420	Isiolo	U-61 Rinyenjes	5,300	1,700	100	Eaa R.	1,600		Production C	1,600	ø 150/ø 200 - ø 80 x 12 km		
		U-63 Isiolo	83,400	13,882	4,356			397 B/H	9,530	Chlorination	9,530	ø 350/ø 500 - ø 80 x 69 km	
440	Masaku	U-65 Meri	19,600	460	70	River	400		Production C	400	ø 80/ø 100 - ø 80 x 3 km		
		U-69 Athi River	48,400	6,500	5,300				Production C	1,200	ø 125/ø 150 - ø 80 x 32 km		
450	Marsabit	U-71 Machakos	407,800	41,300	14,000			U. Athi dam	1,200	Production C	27,300	ø 600/ø 800 - ø 80 x 256 km	
		U-74 Matuu	7,900	5,200	700	River	4,500		Production C	2,300	ø 250/ø 350 - ø 80 x 34 km		
450	Marsabit	U-77 Kaungudo/Tain	37,800	7,500	600			Athi R. pipe	6,900	Production C	6,900	ø 300/ø 450 - ø 80 x 51 km	
		U-79 Karib	14,300	2,600	800			90 B/H	1,800	Chlorination	1,800	ø 150/ø 200 - ø 80 x 18 km	
450	Marsabit	U-80 Kotr	14,800	2,600	800			90 B/H	1,800	Chlorination	1,800	ø 150/ø 200 - ø 80 x 19 km	
		U-82 Marsabit	37,800	6,500	4,400			105 B/H	2,100	Chlorination	2,100	ø 150/ø 200 - ø 80 x 45 km	
450	North Horr	U-83 Moyale	23,200	3,300	1,300	0		100 B/H	2,000	Chlorination	2,000	ø 150/ø 200 - ø 80 x 24 km	
		U-84 North Horr	5,600	800	0			40 B/H	800	Chlorination	800	ø 100/ø 150 - ø 80 x 6 km	
Eastern	450	Saloto	U-85 Saloto	12,100	2,100	1,260			42 B/H	840	Chlorination	840	ø 100/ø 150 - ø 80 x 16 km

Table - 3.4.1 (2/3) General Features of the Urban Water Supply Projects

Province	Code	District	Water Supply Projects of Urban Centre	Planned Population Served	Planned Supply Quantity (m ³ /day)	Existing Capacity	Expanded Supply Quantity and Water Source			Treatment Works (full treatment) (m ³ /day)	Service Reservoir Capacity	Raw Water Main (dia) / Reticulation (dia x length)
							River / Lake (m ³ /day)	Boreholes (m ³ /day)	Dam (m ³ /day)			
Eastern (cont'd)	460	Meru	Meru	337,500	32,600	19,900	Kathia R. 12,700			Chlorination 12,700	6,400	ø400/ø600 - ø 80 x 91 km
			Nkubu	19,300	10,000	5,200	Thungulu R. 4,800			Chlorination 4,800	2,400	ø250/ø350 - ø 80 x 16 km
	470	Nyamirani	Maui	12,200	1,700	300	Ura R. 1,400			Chlorination 1,400	1,400	ø150/ø200 - ø 80 x 10 km
	480	Tharaka Nithi	Chuka	12,700	2,600	1,400	Tungu R. 1,200		Kiambere D. 4,500	Chlorination 1,200	2,300	ø125/ø150 - ø 80 x 16 km
	490	Mwingi	Mwingi	15,800	5,100	600				Chlorination 4,500	2,300	ø250/ø350 - ø 80 x 35 km
	4A0	Makueni	Kibwezi	7,700	1,100	0	Adhi R. pipe 1,100			Chlorination 1,100	1,200	ø125/ø150 - ø 80 x 8 km
			Mtito Andei	12,200	6,800	3,000	River 3,800			Chlorination 3,800	1,900	ø250/ø350 - ø 80
	510	Garissa	Laboi	6,900	2,200	200	River 2,000			Chlorination 2,000	1,000	ø150/ø200 - ø 80 x 15 km
	520	Mandera	Elwak	15,800	2,200	300		0.42 B/H 1,900		Chlorination 1,900	1,900	ø150/ø200 - ø 80 x 16 km
			Mandera	51,700	4,600	3,900	Daua R. 700			Production C. 700	700	ø100/ø150 - ø 80 x 30 km
North Eastern	530	Wajir	Rhamu	10,000	4,500	400	Daua R. 4,100			Production C. 4,100	2,100	ø250/ø350 - ø 80 x 32 km
			Bute	5,500	800	270		0.13 B/H 530		Chlorination 530	600	ø100/ø150 - ø 80 x 4 km
			Bilas	5,200	1,700	60		0.39 B/H 1,640		Chlorination 1,640	1,700	ø150/ø200 - ø 80 x 12 km
			Wajir	66,100	9,200	100		0.212 B/H 9,100		Chlorination 9,100	4,600	ø350/ø500 - ø 80 x 66 km
	610	Gusii	Kisii	120,600	17,000	8,000			Bunyonyu D. 9,000	Chlorination 9,000	4,300	ø350/ø500 - ø 80 x 79 km
	620	Kitumu	Ahero	24,100	100	0		3 B/H 100		Chlorination 100	100	ø50/ø65 - ø 40 x 8 km
			Kisumu	561,000	75,100	14,300			Kibos D. 60,800	Production C. 60,800	30,400	ø800/ø900 - ø 100 x 437 km
			Siaya	8,100	8,100	0			Edzawa D. 8,100	Production C. 8,100	4,100	ø350/ø450 - ø 80 x 58 km
	630	Siaya	Asiro	9,400	1,300	0	Nyando R. 1,300			Production C. 1,300	1,300	ø150/ø200 - ø 80 x 5 km
			Siaya	47,500	8,100	3,700	Yala R. 4,400			Production C. 4,400	2,200	ø250/ø350 - ø 80 x 10 km
Nyanza	640	Homa Bay	Homa Bay	71,900	13,500	2,000	L. Victoria 11,500			Production C. 11,500	5,800	ø400/ø600 - ø 80 x 53 km
			Kenia Bay	7,500	3,200	1,000	L. Victoria 2,200			Production C. 2,200	1,100	ø150/ø200 - ø 80 x 87 km
			Mbita	11,500	1,700	0	River 1,700			Production C. 1,700	1,700	ø150/ø200 - ø 80 x 18 km
			Oyugis	12,200	9,400	7,600	Isania R. 1,800			Production C. 1,800	1,800	ø150/ø200 - ø 80 x 12 km
	650	Migori	Nyabikaye	8,400	1,200	0		18 B/H 1,200		Chlorination 1,200	1,200	ø150/ø200 - ø 80 x 27 km
			Rongo	8,000	2,300	700	River 1,600			Production C. 1,600	1,600	ø150/ø200 - ø 80 x 17 km
	660	Nyanira	Keroka	5,400	800	0			Bunyonyu D. 800	Production C. 800	800	ø100/ø150 - ø 80 x 15 km
			Nyanira	17,600	5,200	2,500	Kuja R. 2,700			Production C. 2,700	1,400	ø200/ø250 - ø 80 x 10 km
	710	Kajiado	Kajiado	32,900	3,300	2,600	Kisrian pipe 700			Chlorination 700	700	ø100/ø150 - ø 80 x 10 km
			Magadi	15,500	6,000	1,800	Olobotto R. 4,800			Production C. 4,800	3,400	ø250/ø350 - ø 80 x 38 km
Rift Valley	720	Kipsigis	Namanga	31,400	13,200	460	N. Turesh Sp. 12,200			Chlorination 12,200	6,400	ø400 - ø 80/ø600 - ø 80 x 98 km
			Leitokitok	18,200	22,200	8,500				Production C. 13,700	6,900	ø400/ø600 - ø 80 x 99 km
			Kericho	10,300	1,500	0	Kipsanal R. 1,500			Production C. 1,500	1,500	ø150/ø200 - ø 80 x 11 km
	730	Laikepa	Sotik	98,000	19,200	10,100	Liki R. 10,100			Production C. 10,100	5,100	ø350/ø500 - ø 80 x 89 km
			Naiyuki	7,500	1,400	1,350				Chlorination 60	60	ø50 - ø 40 x 10 km
			Rumuruti	7,500	1,400	1,350				Chlorination 60	60	ø50 - ø 40 x 10 km
				7,500	1,400	1,350				Chlorination 60	60	ø50 - ø 40 x 10 km
				7,500	1,400	1,350				Chlorination 60	60	ø50 - ø 40 x 10 km
				7,500	1,400	1,350				Chlorination 60	60	ø50 - ø 40 x 10 km
				7,500	1,400	1,350				Chlorination 60	60	ø50 - ø 40 x 10 km

Table - 3.4.1 (3/3) General Features of the Urban Water Supply Projects

Province	Code	District	Code	Water Supply Projects of Urban Centre	Planned Population Served	Planned Supply Quantity (m ³ /day)	Existing Capacity	Expanded Supply Quantity and Water Source			Treatment Works (full treatment) (m ³ /day)	Service Reservoir Capacity	Raw Water Main (dia) / Reticulation (dia x length)	
								River / Lake (m ³ /day)	Boreholes (m ³ /day)	Dam (m ³ /day)				
Rift Valley (cont'd)	740	Nakuru	U - 155	Ethburgon	54,600	2,300	500				1,800	Production C.	1,800	φ150/φ200 - φ 80 x 14 km
			U - 156	Grigi	65,500	3,100	1,000				2,100	Production C.	1,100	φ150/φ200 - φ 80 x 17 km
			U - 157	Molo	52,400	3,800	1,000				2,800	Production C.	1,400	φ200/φ250 - φ 80 x 22 km
			U - 158	Navasha	168,900	17,600	1,000				16,600	Production C.	8,300	φ450/φ600 - φ 80 x 121 km
			U - 159	Nakuru	760,200	116,600	41,000				75,600	Production C.	37,800	φ900(φ1,100 - φ100 x 650 km
			U - 160	Njoro	41,400	1,900	300				1,600	Production C.	1,600	φ150/φ200 - φ 80 x 12 km
			U - 163	Narok	77,200	10,900	1,300				9,600	Production C.	4,800	φ350/φ500 - φ 80 x 69 km
			U - 164	Kinale	229,300	33,300	17,000	16,300	Kionobos R.		17,500	Production C.	8,200	φ450/φ600 - φ 80 x 148 km
			U - 166	Eldoret	450,600	34,900	37,400	1,600	0 River		17,500	Production C.	8,800	φ450/φ600 - φ 80 x 126 km
			U - 167	Lemok	11,000	1,600	0	1,600	River		1,600	Production C.	1,600	φ150/φ200 - φ 80 x 12 km
			U - 170	Simat	20,500	3,000	0	2,300	15 B/H	730	2,300	Production C.	1,200	φ150/φ200 - φ 80 x 22 km
			U - 172	Turbo	9,200	1,500	500	1,000	Sosiani R.		1,000	Production C.	1,000	φ125/φ150 - φ 80 x 9 km
			U - 174	Kilgoris	23,100	3,900	2,600	2,300	Poreko R.		2,300	Production C.	1,200	φ150/φ200 - φ 80 x 12 km
			U - 179	Karbniet	32,400	28,600	2,600	2,600			26,000	Chlorination	13,000	φ600/φ800 - φ 80 x 192 km
			U - 180	Maji Mazuri	22,200	500	400	100	Maji Mazuri R.		100	Production C.	100	φ 50/φ 65 - φ 40 x 2 km
			U - 182	Mogotto	10,600	1,100	600	600			500	Chlorination	500	φ100/φ150 - φ 80 x 3 km
			U - 185	Kapsabet	44,700	6,300	4,800	1,500	Mokong R.		1,500	Production C.	1,500	φ150/φ200 - φ 80 x 41 km
			U - 188	Mirralal	34,400	1,200	800	400	Laitas R.		400	Production C.	400	φ100/φ150 - φ 80 x 5 km
			U - 189	Wamba	13,600	5,500	900	4,600			4,600	Chlorination	2,300	φ250/φ350 - φ 80 x 39 km
			U - 190	Kakuma T.C	7,000	4,600	1,600	2,960			2,960	Chlorination	1,500	φ200/φ250 - φ 80 x 25 km
		U - 194	Lodwar	45,300	6,900	6,800	140			140	Chlorination	140	φ 65/φ 80 - φ 50 x 39 km	
		U - 197	Kapsigaria	29,600	3,800	600	3,200	Kapenguria R.		3,200	Production C.	1,600	φ200/φ300 - φ 80 x 25 km	
		U - 198	Makuanjo	23,500	3,600	400	3,200	Kapenguria R.		3,200	Production C.	1,600	φ200/φ300 - φ 80 x 24 km	
		U - 199	Bungoma	114,100	15,100	5,600	9,500	Kuywa R.		9,500	Production C.	4,800	φ350/φ500 - φ 80 x 87 km	
		U - 202	Kimilili	25,300	3,900	3,000	36,300	Kimilili R.		36,300	Production C.	18,200	φ700/φ900 - φ 80 x 268 km	
		U - 203	Malakisi	8,400	1,200	0	1,200	Malakisi R.		1,200	Production C.	1,200	φ150/φ200 - φ 80 x 9 km	
		U - 205	Webuye	120,600	16,700	1,800	14,900	Nzoia R.		14,900	Production C.	7,500	φ450/φ600 - φ 80 x 108 km	
		U - 206	Busia	103,600	14,800	10,600	4,200	Sio R.		4,200	Production C.	2,100	φ250/φ350 - φ 80 x 42 km	
		U - 208	Nambale	7,900	1,100	100	1,000	Sio R.		1,000	Production C.	1,000	φ125/φ150 - φ 80 x 7 km	
		U - 209	Butere	6,500	4,300	600	3,700	Viratsui R.		3,700	Production C.	1,900	φ200/φ300 - φ 80 x 29 km	
		U - 210	Kakamega	202,400	23,900	9,300	14,600			14,600	Production C.	7,300	φ450/φ600 - φ 80 x 121 km	
		U - 211	Mumias	65,200	10,700	3,700	7,000	Nzoia R.		7,000	Production C.	3,500	φ300/φ400 - φ 80 x 66 km	
		U - 213	Mascho/Luantha	17,100	24,800	1,600	23,200	Eziawa R.		23,200	Production C.	11,600	φ500/φ700 - φ 80 x 170 km	

Source: The Aftercare Study Team

Note 1) Figures are rounded in planned population served, planned supply quantity, existing capacity and expanded supply quantity.

2) Existing capacity is estimated as the capacity after completion of rehabilitation works, ongoing projects and planned projects.

Table - 4.5.1 Number of Required Small Dams for Livestock Demand in 2010

Province	Code	District	Supply Capacity for Livestock (m ³ /day)	Livestock Water Demand in 2010 (m ³ /day)	Required New Water Supply for Livestock by 2010 (m ³ /day)	Number of Water Pans Required by 2010 (Nos)	Required Water Supply Period by Water Pans
Nairobi	110	Nairobi	978	1,378	400	1	C
Central	210	Kiambu	2,907	4,095	1,188	3	C
	220	Kirinyaga	1,723	2,428	704	3	B
	230	Murang'a	3,098	4,364	1,266	3	C
	240	Nyandarua	5,110	7,199	2,089	4	C
	250	Nyeri	3,116	4,390	1,274	3	C
Total in Central Province			15,955	22,475	6,521		
Coast	310	Kilifi	1,943	2,737	794	3	B
	320	Kwale	4,468	6,294	1,826	7	B
	330	Lamu	735	1,035	300	2	B
	340	Mombasa	140	198	57	1	C
	350	Taita	944	1,330	386	2	B
	360	Tana River	9,413	13,261	3,847	14	B
Total in Coast Province			17,643	24,854	7,211		
Eastern	410	Embu	3,298	4,646	1,348	5	B
	420	Isiolo	751	1,058	307	2	A
	430	Kitui	8,995	12,671	3,676	14	B
	440	Masaku	6,881	9,693	2,812	11	B
	450	Marsabit	6,603	9,301	2,698	15	A
	460	Meru	3,406	4,797	1,392	6	B
	470	Nyambene	2,943	4,146	1,203	5	B
	480	Tharaka Nithi	3,550	5,000	1,451	6	B
	490	Mwingi	4,337	6,109	1,772	7	B
	4A0	Makueni	53,214	74,963	21,749	79	B
Total in Eastern Province			93,978	132,386	38,408		
North-Eastern	510	Garissa	44,381	62,520	18,138	98	A
	520	Mandera	10,132	14,272	4,141	23	A
	530	Wajir	17,413	24,530	7,117	39	A
Total in North-Eastern Province			71,926	101,322	29,396		
Nyanza	610	Gusii	5,469	7,705	2,235	5	C
	620	Kisumu	7,270	10,241	2,971	6	C
	630	Siaya	7,826	11,025	3,199	6	C
	640	Homa Bay	4,392	6,187	1,795	4	C
	650	Migori	2,644	3,725	1,081	2	C
	660	Nyamira	4,890	6,888	1,998	4	C
Total in Nyanza Province			32,491	45,770	13,279		
Rift Valley	710	Kajiado	18,467	26,015	7,548	28	B
	720	Kipsigis	4,198	5,914	1,716	4	C
	730	Laikipia	4,923	6,935	2,012	8	B
	740	Nakuru	44,364	62,495	18,131	33	C
	750	Narok	10,476	14,758	4,282	16	B
	760	Trans Nzoia	2,364	3,330	966	2	C
	770	Uasin Gishu	6,552	9,230	2,678	5	C
	780	Bomet	7,440	10,481	3,041	6	C
	790	Transmara	3,939	5,549	1,610	3	C
	810	Baringo	29,367	41,370	12,002	44	B
	820	Elgeyo Marakwet	1,565	2,205	640	2	C
	830	Nandi	6,528	9,195	2,668	5	C
	840	Samburu	7,841	11,045	3,205	18	A
	850	Turkana	5,417	7,631	2,214	12	A
860	West Pokot	7,652	10,780	3,127	12	B	
Total in Rift Valley Province			161,094	226,932	65,839		
Western	910	Bungoma	5,377	7,575		4	C
	920	Busia	3,323	4,680		3	C
	930	Kakamega	7,867	11,082		6	C
	940	Vihiga	3,376	4,755		3	C
Total in Western Province			19,942	28,092	0		
TOTAL			414,006	583,210	161,053	597	

Source: Calculated by the Study Team

Note: A: 9 months

B: 6 months

C: 3 months

Table - 5.1.1 (1/4) Cost Estimate of Urban Water Supply Facilities (Rehabilitation)

Province	Code	District	Urban Center Name	Existing Capacity (m ³ /day)	Borehole	Intake Facility	Treatment	Storage Tank Cost	Pipeline Cost	Main Meter Cost	CI Facility Cost	Direct Cost	Administration "15%"	Engineering Cost "10%"	S-Total	Ph. Contingency "10.5%"	Pnce Contingency "15%"	G-Total		
																			Cost	Cost
Nairobi Central	110 210	Nairobi Kisumu	U-1 Nairobi	319,000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
			U-2 Githungiri	360	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			U-3 Karuri	624	36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			U-4 Kiambu	490	0	5	57	0	0	0	0	0	0	0	0	0	0	0	0	0
			U-5 Kikuyu	1,278	51	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			U-6 Ndumbeni	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			U-7 Ruini	792	0	7	81	12	0	0	0	0	0	0	0	0	0	0	0	0
			U-8 Thika	36,660	0	117	1,024	565	0	0	0	0	0	0	0	0	0	0	0	0
			U-9 Subtotal	40,204	104	126	1,102	619	0	0	0	0	0	0	0	0	0	0	0	0
220	Kiinyaga	U-12 Kerugoya/Kulus	1,446	0	10	122	22	55	37	25	308	31	0	0	0	0	0	0		
		U-16 Wangari	1,512	0	11	126	23	11	33	21	260	26	0	0	0	0	0	0		
		Subtotal	2,958	0	21	248	45	06	66	45	567	57	0	0	0	0	0	0		
230	Maurigh	U-19 Makuyu	1,600	17	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
		U-20 Mungu	96	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
		U-21 Mumigi	2,000	0	13	150	31	0	0	0	0	0	0	0	0	0	0	0		
240	Nyandarua	U-28 Nyandarua	2,456	24	13	180	38	45	67	6	544	52	0	0	0	0	0	0		
		U-30 Ol Kalou	3,000	0	18	190	46	205	69	7	535	53	668	67	0	0	0	0		
		U-30 Ol Kalou	220	14	0	0	1	3	17	5	45	4	54	5	0	0	0	0		
250	Nyeri	U-32 Rindimbani	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
		U-33 Karatina	1,100	0	10	114	20	0	30	3	100	27	18	225	22	0	0	0		
		U-36 Nyeri	5,940	0	30	257	91	14	69	14	461	69	46	576	53	0	0	0		
Total in Coastal Province Coastal	310	Kiifi	U-37 Ohawa	11,000	0	47	307	169	0	128	26	678	102	68	848	85	0	0		
			U-38 Kilifi	18,240	0	87	678	281	0	230	44	1,319	185	132	1,649	165	0	0		
			U-39 Mjenge	67,078	143	267	2,428	1,033	323	695	160	5,049	757	505	6,311	631	0	0		
320	Kwale	U-40 Malindi	4,500	0	23	226	66	0	69	10	395	39	0	40	494	49	0	0		
		U-41 Mombasa	15,985	0	63	446	246	0	128	38	921	139	92	1,152	115	0	0			
		U-42 Manakani	432	0	4	52	7	0	17	1	81	12	10	101	10	0	0			
330	Lamu	U-43 Wajumu	1,200	0	9	108	18	0	33	3	172	26	17	214	21	0	0			
		U-44 Kwale	21,917	0	90	833	338	0	247	52	1,569	235	157	1,961	196	0	0			
		U-45 Lamu/Lamu	7,000	0	34	269	108	0	99	17	526	79	53	657	66	0	0			
340	Mombasa	U-46 Msambweni	220	11	0	0	3	5	17	5	37	6	4	47	5	0	0			
		U-47 Lamu	624	36	0	0	10	39	17	1	103	15	10	129	13	0	0			
		U-48 Lamu	7,444	47	34	269	121	44	133	19	666	100	67	833	83	0	0			
350	Taita	U-49 Makowe T.C	575	29	0	2	19	2	8	17	0	48	7	5	60	6	0			
		U-50 Mombasa	120	0	2	19	2	8	17	0	48	7	5	60	6	0	0			
		U-51 Mombasa	695	29	2	19	11	38	34	2	133	20	13	167	17	0	0			
360	Tana River	U-52 Mombasa	70,000	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
		U-53 Taita	2,931	0	18	189	46	0	69	7	329	49	33	411	41	0	0			
		U-54 Taita	2,700	0	17	179	42	0	38	6	277	41	28	346	35	0	0			
Total in Coastal Province	370	Subtotal	U-55 Voi	1,488	0	11	125	23	101	33	4	298	44	30	370	37	0	0		
			U-56 Wundanyi	7,169	0	45	493	110	101	135	17	902	135	90	1,127	113	0	0		
			U-58 Tana River	100	0	1	16	2	5	17	0	41	6	4	51	5	0	0		
Total in Coastal Province	380	Subtotal	U-59 Hela	328	0	3	32	4	7	21	17	1	76	11	8	95	10	0		
			U-59 Hela	528	0	4	48	5	25	34	1	117	18	12	147	15	0	0		
			U-59 Hela	107,953	76	133	1,661	585	203	584	91	3,368	508	330	4,285	424	0	0		

Table - S.1.1 (2/4) Cost Estimate of Urban Water Supply Facilities (Rehabilitation)

Province	Code	District	Urban Center Name	Existing Capacity (m ³ /day)	Borehole	Intake Facility	Treatment	Storage Tank Cost	Pipeline Cost	Main Meter Cost	CI Facility Cost	Direct Cost	Administration "15%"	Engineering Cost "10%"	S-total	Ph. Contingency "10.0%"	Price Contingency "15.0%"	G-total	
Eastern	410	Lamba	U-60	4,058	0	22	221	63	92	69	10	477	71	48	596	60	0	655	
			U-61	135	0	0	21	2	3	17	6	0	45	7	6	56	6	0	62
			Sub-total	4,193	0	24	241	65	95	86	10	522	78	52	54	652	65	0	717
	420	Isiolo	U-63	4,356	0	24	228	67	0	0	69	10	398	60	40	497	90	0	547
			U-64	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			U-65	69	6	6	1	1	0	17	0	24	4	2	2	30	3	0	33
	430	Sub-total	U-66	4,425	6	24	228	68	0	36	11	422	63	42	528	53	0	0	580
			U-68	3,000	143	0	46	0	69	0	69	7	266	40	27	332	33	0	365
			U-69	2,000	0	13	150	31	0	33	5	232	35	23	290	29	0	0	319
	440	Marsabit	U-71	5,800	0	29	255	69	0	69	14	456	63	46	570	57	0	0	627
			U-74	480	0	5	36	7	25	17	11	131	17	11	139	14	0	0	152
			U-77	441	21	69	0	7	23	17	9	1	69	10	7	86	9	0	95
	450	Sub-total	U-72	8,721	165	47	461	131	47	205	28	1,134	170	113	1,417	142	0	0	1,559
			U-79	160	11	0	2	2	8	17	0	41	0	4	51	5	0	0	56
			U-80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
460	Meru	U-82	3,000	14	0	0	5	10	17	1	47	7	5	59	6	0	0	65	
		U-83	61	0	1	11	2	17	0	32	5	3	40	4	0	0	44		
		U-84	21	6	0	0	1	17	0	24	4	2	30	3	0	0	33		
470	Sub-total	U-85	21	6	0	0	0	1	17	1	24	4	2	30	3	0	0	33	
		U-86	563	37	1	12	9	22	86	1	163	25	17	210	21	0	0	231	
		U-87	4,740	0	25	230	73	0	69	11	414	62	41	518	52	0	0	570	
480	Nyandarua	U-89	329	0	3	42	5	26	17	1	95	14	9	118	12	0	0	130	
		U-90	5,059	0	29	278	78	26	86	12	509	76	51	636	64	0	0	700	
		U-91	400	0	4	49	6	0	17	1	72	11	7	90	9	0	0	99	
490	Tharaka Nithi	U-92	355	0	4	45	5	41	5	11	106	16	11	132	13	0	0	145	
		U-93	300	0	3	30	5	41	17	1	106	16	11	132	13	0	0	145	
		U-94	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
500	Sub-total	U-95	3,000	0	18	190	46	0	69	7	330	50	33	413	41	0	0	454	
		U-96	3,000	0	29	321	62	41	120	10	585	88	50	585	58	0	0	643	
		U-97	30,016	208	153	1,543	462	251	670	72	3,339	501	334	4,174	417	0	0	4,591	
510	Garissa	U-104	1,440	0	10	122	22	65	33	3	256	38	26	321	32	0	0	353	
		U-105	124	0	2	19	2	6	17	0	46	7	5	57	6	0	0	63	
		U-106	1,563	0	12	141	24	71	50	4	302	45	30	378	38	0	0	416	
520	Mandera	U-108	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		U-109	500	29	0	25	8	23	17	1	102	15	10	127	13	0	0	140	
		U-110	140	7	0	0	2	6	17	0	33	5	3	41	4	0	0	46	
530	Sub-total	U-111	640	36	0	25	10	29	34	2	135	20	14	169	17	0	0	186	
		U-113	202	11	0	0	3	7	17	0	39	6	4	49	5	0	0	54	
		U-114	65	6	0	0	1	2	17	0	26	4	3	33	3	0	0	36	
540	Wajir	U-115	48	7	0	0	0	1	2	17	0	27	4	3	34	3	0	38	
		U-116	315	24	0	0	5	11	31	1	92	14	9	116	12	0	0	127	
		U-117	2,518	60	12	166	39	111	130	6	530	79	53	662	66	0	0	729	
Total in Eastern Province																			
Total in North Eastern Province																			

Table - 5.1.1 (3/4) Cost Estimate of Urban Water Supply Facilities (Rehabilitation)

Province	Code	District	Circle	Urban Center Name	Existing Capacity (m ³ /day)	Borehole	Intake Facility	Treatment	Storage Tank Cost	Pipeline Cost	Main Meter Cost	CI/Facility Cost	Direct Cost	Administration "1.5%"	Engineering Cost "1.0%"	S-Total	Ph. Contingency "10.5%"	Price Contingency "1.5%"	Global	
Nyarua	610	Gusii	U-117	Kisii	6,000	0	30	257	92	273	69	14	736	110	74	920	92	0	1,012	
			U-119	Ahero	23	0	0	0	0	0	0	0	17	0	24	4	2	30	0	0
	620	Nakuru	U-120	Kisumu	14,565	0	58	407	224	0	0	128	35	852	128	85	1,065	107	0	1,172
			U-121	Misere	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	630	Sub-total Nyarua	U-122	Muhoroni	720	0	6	76	11	0	0	33	16	128	19	13	160	0	0	176
			U-123	Asiro	15,308	6	95	740	328	0	0	247	51	1,740	261	174	2,175	218	0	2,393
	640	Sub-total Homa Bay	U-125	Siaya	770	0	6	79	12	0	0	33	2	168	25	17	209	21	0	230
			U-129	Homa Bay	1,500	0	11	125	23	0	0	33	4	264	40	26	330	33	0	363
	660	Sub-total Nyanira	U-130	Kendri Bay	720	0	6	76	11	0	0	33	2	160	24	16	200	20	0	221
			U-131	Mibici	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	670	Sub-total Migori	U-133	Oyugis	5,760	0	20	254	89	0	0	69	14	717	107	72	896	90	0	985
			U-134	Awendo	7,880	0	46	455	123	0	0	155	19	1,141	171	114	1,426	143	0	1,569
710	Sub-total Kericho	U-135	Kembaishi	44	0	1	8	1	0	0	2	17	0	29	4	3	36	4	0	40
		U-136	Migori	960	40	0	0	15	0	0	33	2	134	20	13	167	17	0	184	
720	Sub-total Kipsipis	U-137	Nyabikaye	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		U-138	Rongo	497	0	5	58	8	0	0	17	1	111	17	11	139	14	0	152	
730	Sub-total Lushoto	U-139	Keroka	1,501	40	5	68	23	0	0	67	4	273	41	27	342	34	0	376	
		U-140	Nyanira	466	0	4	55	7	0	0	17	1	85	13	8	106	11	0	117	
740	Sub-total Nakuru	U-141	Kajiado	32,025	46	157	1,395	493	0	0	800	76	3,407	511	341	4,258	426	0	4,684	
		U-142	Migori	2,000	100	10	128	31	0	0	33	48	5	387	58	39	484	48	0	533
750	Sub-total Trans Nzoia	U-143	Nyamira	1,764	0	10	118	21	0	0	36	3	247	37	25	309	31	0	340	
		U-144	Nyong	780	34	0	0	12	0	0	33	2	81	12	8	101	10	0	111	
760	Sub-total Kitale	U-145	Lolikiok	1,260	64	0	0	0	0	0	33	3	149	23	15	186	19	0	204	
		U-146	Chagan Langan	3,600	0	20	208	55	0	0	65	0	0	65	10	7	82	8	0	90
770	Sub-total Kipsipis	U-148	Kericho	9,004	199	30	454	139	0	0	201	21	1,640	249	166	2,075	207	0	2,282	
		U-149	Kipkelion	8,460	0	39	278	130	0	0	99	20	566	85	57	708	71	0	778	
780	Sub-total Lushoto	U-151	Londiani	48	0	1	9	1	0	0	17	4	30	4	3	37	4	0	41	
		U-152	Sodiki	756	0	6	78	12	0	0	33	2	166	25	17	207	21	0	228	
790	Sub-total Nakuru	U-153	Nanyuki	9,264	0	46	365	143	0	0	149	22	782	114	76	952	95	0	1,047	
		U-154	Rumuruti	6,800	0	33	267	105	0	0	99	16	829	124	83	1,036	104	0	1,140	
800	Sub-total Trans Nzoia	U-155	Elburgon	6,800	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		U-156	Gilgi	391	17	0	0	6	0	0	13	17	1	59	9	6	74	7	0	81
810	Sub-total Nakuru	U-157	Molo	760	0	0	79	12	0	0	33	2	166	25	17	207	21	0	228	
		U-158	Narivasha	775	43	0	0	12	0	0	33	3	195	19	13	156	16	0	172	
820	Sub-total Nakuru	U-159	Njoro	23,949	0	43	0	0	0	0	33	2	124	35	155	16	0	0	171	
		U-160	Njoro	224	11	0	0	446	0	0	128	69	3,196	479	320	3,995	400	0	4,495	
830	Sub-total Trans Nzoia	U-163	Nirok	31,831	114	104	887	491	0	0	261	76	3,713	557	371	4,042	464	0	5,106	
		U-164	Kitale	12,749	0	10	115	20	0	0	33	3	181	27	18	226	23	0	249	
840	Sub-total Trans Nzoia	U-165	Kitale	12,749	0	0	356	196	0	0	128	30	1,343	201	134	1,679	163	0	1,842	

Table - 5.1.1 (4/4) Cost Estimate of Urban Water Supply Facilities (Rehabilitation)

Province	Code	District	Code	Urban Center Name	Existing Capacity (m ³ /day)	Borehole	Intake Facility	Treatment	Storage Tank Cost	Pipeline Cost	Main Meter Cost	CI Facility Cost	Direct Cost	Administration "15%"	Engineering Cost "10%"	S-Total	Ph. Contingency "10 %"	Price Contingency "15%"	G-total	
																				Cost
770	Unsan Gishw		U-165	Bumi Forest	600	0	5	66	27	17	1	127	19	158	13	174	16	0	174	
			U-166	Eldoret	37,000	0	118	1,044	576	39	1,956	293	0	2,445	245	2,690	0	0	2,690	
			U-167	Lemok	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			U-169	Moi's Bridge	600	0	5	66	17	1	154	25	192	19	213	0	0	213	0	0
			U-170	Sinait	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			U-172	Turbo	300	0	3	39	5	27	17	1	92	14	115	9	127	12	0	127
	Sub-total	Tannahara	Baringo	Sub-total		38,900	0	195	1,687	816	689	341	126	3,853	578	4,816	482	0	5,298	
				U-174	Kilgors	364	0	7	86	15	33	2	181	27	18	226	23	0	249	
				U-178	Eldo Ravine	6,700	0	33	266	103	305	10	821	123	82	1,027	103	0	1,129	
				U-179	Narinet	2,042	0	13	152	31	93	5	328	49	33	410	41	0	451	
				U-180	Maji Majun	200	0	3	35	4	12	17	9	72	7	89	9	0	98	
				U-181	Mangal	366	0	4	46	6	33	17	106	16	11	133	13	0	146	
	Sub-total	Elgeyo/Marakwet	Nandi	U-182	Mogotio	686	0	6	73	11	0	33	2	124	19	155	12	0	171	
				Sub-total		10,054	0	63	658	168	482	232	26	1,632	245	1,653	204	0	2,244	
				U-183	Iten	460	23	0	0	7	21	17	1	69	10	86	9	0	95	
				U-185	Kapsabet	624	0	5	68	10	28	17	1	130	20	153	16	0	179	
				U-188	Maralal	529	0	5	60	3	42	17	1	134	20	167	17	0	184	
				U-189	Wanani	181	14	0	0	3	20	17	0	54	8	68	7	0	75	
Sub-total	Turkana	Turkana	U-190	Kakuma T.C	710	37	10	129	23	111	68	4	387	58	39	484	48	0	533	
			U-191	Kakui	1,090	0	0	0	17	49	33	3	159	24	198	20	0	218		
			U-191	Kakui	72	6	0	0	1	7	17	0	31	5	39	4	0	43		
			U-194	Loiswar	1,506	79	0	50	23	0	33	4	189	28	19	236	24	0	260	
			U-195	Lokitaung	240	11	0	0	4	25	17	1	57	9	6	72	7	0	79	
			Sub-total		2,908	153	0	50	45	81	100	7	436	65	44	545	55	0	600	
Sub-total	West pokot	Sub-tribal	U-197	Kapenguria	360	0	4	45	6	28	17	1	101	15	10	126	13	0	139	
			U-198	Mikotano	262	0	3	35	4	13	17	1	73	11	7	92	9	0	101	
			Sub-tribal		622	0	7	80	10	42	34	1	174	26	17	218	22	0	240	
			Total in Rift Valley Province		126,145	304	491	4,577	1,943	4,144	1,487	301	13,447	2,017	16,808	1,681	0	18,489		
			U-205	Webuye	3,000	0	18	190	46	136	69	7	466	70	585	58	0	641		
			U-200	Chepnis	2,400	0	15	167	37	109	33	6	367	55	37	459	46	0	505	
Sub-total	Baringo	Sub-tribal	U-202	Kimiliili	2,200	0	14	159	34	100	32	5	345	52	35	432	43	0	475	
			U-203	Mulakisi	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
			U-205	Webuye	1,300	0	12	141	28	0	33	4	218	33	22	273	27	0	300	
			U-206	Busan	9,400	0	59	687	145	346	163	22	1,397	210	140	1,747	175	0	1,921	
			U-207	Malaha Town	2,072	0	14	154	32	94	33	5	331	50	33	414	41	0	455	
			U-208	Nambale	159	11	0	0	2	0	17	0	31	5	3	39	4	0	43	
Sub-total	Baringo	Sub-tribal	U-209	Baitere	2,231	11	14	154	34	94	50	5	362	54	36	453	45	0	498	
			U-210	Kakamega	7,000	0	34	269	108	318	99	17	844	127	84	1,055	106	0	1,161	
			U-211	Mumias	1,408	72	0	81	23	0	33	4	212	32	21	265	27	0	292	
			Sub-total		8,762	86	34	350	135	306	149	21	1,111	167	111	1,388	139	0	1,527	
			U-213	Maseno/Luaneth	1,192	0	9	108	18	54	34	3	225	34	23	281	28	0	309	
			U-214	Misile	960	0	0	0	15	33	33	2	83	12	8	104	10	0	114	
Sub-total	Vihiga	Sub-tribal	U-215	Vihiga/Majengo	63	7	0	0	1	4	17	0	30	4	3	37	4	0	41	
			Sub-total		2,215	7	9	108	34	91	51	5	338	51	34	422	42	0	464	
			Total in Western Province		22,608	104	115	1,268	348	867	451	54	3,208	481	321	4,010	401	0	4,411	
			TOTAL IN KENYA		707,343	1,140	1,377	13,038	4,903	6,626	4,324	760	32,367	4,855	3,217	40,459	4,046	0	44,505	

Table - 5.2.1 (1/3) Ongoing Planned/Designed Projects (Urban Water Supply)

(Units: US\$)

Province	Code	District	Code	Urban Center Name	On-going Project		Planned Designed Project	
					Initial Cost	Annual O&M Cost	Initial Cost	Annual O&M Cost
Nairobi	110	Nairobi	U - 1	Nairobi	0	0	0	0
Central	210	Kiambu	U - 2	Githunguri	0	0	13,093	3,607
			U - 3	Karuri	0	0	982	0
			U - 4	Kiambu	0	53,422	0	0
			U - 5	Kikuyu	0	0	1,445,499	6,012
			U - 7	Ndumburi	0	0	0	0
			U - 8	Ruiru	0	73,521	0	0
			U - 9	Thika	0	0	0	0
			Sub-total		0	126,943	1,459,574	9,618
			220	Kirinyaga	U - 12	Kerugoya/Kutus	0	0
	U - 16	Wanguru			43,535	9,017	8,183,306	320,616
	Sub-total		43,535	9,017	8,183,306	320,616		
	230	Muranga	U - 19	Makuyu	0	0	0	0
			U - 20	Maragua	0	0	0	45,988
			U - 21	Muranga	490,998	69,884	0	0
	Sub-total		490,998	69,884	0	45,988		
	240	Nyandarua	U - 28	Nyahururu	0	0	0	0
			U - 30	Olkaria	0	66,313	6,546,645	0
	Sub-total		0	66,313	6,546,645	0		
	250	Nyeri	U - 32	Endarasha	16,268	48,092	0	0
			U - 33	Karatina	0	0	0	0
			U - 36	Nyeri	0	0	0	0
U - 37			Othaya	0	0	0	0	
Sub-total		16,268	48,092	0	0			
Total in Central Province					550,802	320,250	16,189,525	376,223
Coast	310	Kitui	U - 38	Kitui	0	0	0	0
			U - 39	Majengo	0	0	0	0
			U - 40	Malindi	0	0	0	0
			U - 41	Mamburi	0	0	0	0
			U - 42	Mariakani	163,666	13,025	37,643	4,028
			U - 43	Watamu	0	0	0	0
	Sub-total		163,666	13,025	37,643	4,028		
	320	Kwale	U - 44	Kwale	0	0	0	0
			U - 45	Lunga Lungu	0	0	0	0
			U - 46	Msambweni	0	0	0	0
	Sub-total		0	0	0	0		
	330	Lamu	U - 47	Lamu	98,200	53,782	0	0
			U - 49	Mokowe T.C	0	48	0	0
	Sub-total		98,200	53,830	0	0		
	340	Mombasa	U - 52	Mombasa	0	0	0	6,901,259
	350	Taita	U - 54	Taveta	0	0	0	0
			U - 55	Voi	0	0	0	0
			U - 56	Wundanyi	0	0	0	0
	Sub-total		0	0	0	0		
	360	Tana River	U - 58	Garsen	0	0	834,697	26,050
			U - 59	Hola	0	0	294,599	26,050
Sub-total		0	0	1,129,296	52,100			
Total in Coast Province					261,866	66,855	1,166,939	6,957,387
Eastern	410	Embu	U - 60	Embu	0	0	0	0
			U - 61	Runyenges	0	0	0	0
	Sub-total		0	0	0	0		
	420	Isiolo	U - 63	Isiolo	0	0	0	0
			U - 64	Modo Gashe	43,101	21,040	0	0
			U - 65	Merti	0	0	0	0
	Sub-total		43,101	21,040	0	0		
	430	Kitui	U - 68	Kitui	0	112,596	0	0
	440	Masaku	U - 69	Athi River	0	0	0	66,127
			U - 71	Machakos	0	0	0	166,320
			U - 74	Matuu	0	0	0	0
			U - 77	Kangundo/Tala	0	0	0	0
	Sub-total		0	112,596	0	232,447		
	450	Manabiti	U - 79	Kargi	6,547	12,925	0	0
			U - 80	Korr	0	16,532	0	0
			U - 82	Manabiti	6,547	75,144	1,637	8,015
			U - 83	Moyale	32,733	25,549	0	0
U - 84			North Horr	0	0	0	0	
U - 85	Sololo	0	25,850	0	0			
Sub-total		45,827	156,000	1,637	8,015			

Table - 5.2.1 (2/3) Ongoing Planned/Designed Projects (Urban Water Supply)

(Units: US\$)

Province	Code	District	Code	Urban Center Name	On-going Project		Planned/Designed Project	
					Initial Cost	Annual O&M Cost	Initial Cost	Annual O&M Cost
	460	Meru	U - 86	Meru	0	0	0	0
			U - 87	Nkubu	0	0	0	0
		Sub-total			0	0	0	0
	470	Nyambene	U - 89	Maua	0	0	0	0
	450	Tharaka Nithi	U - 90	Chuka	0	0	0	20,039
	490	Mwingi	U - 91	Mwingi	0	0	0	0
	4A0	Makueni	U - 93	Kibwezi	0	0	0	0
			U - 98	Mtito Andei	0	0	0	0
	Sub-total			0	0	0	20,039	
Total in Eastern Province					58,928	289,636	1,637	260,501
North Eastern	510	Garissa	U - 104	Garissa	5,237,316	240,462	0	0
			U - 105	Liboi	0	0	0	0
			Sub-total		5,237,316	240,462	0	0
	520	Mandera	U - 108	Elwak	98,200	6,012	0	0
			U - 109	Mandera	98,200	6,012	564,648	60,116
			U - 110	Rhamu	13,093	6,012	0	0
		Sub-total			209,493	18,035	564,648	60,116
	530	Wajir	U - 113	Bute	0	0	0	0
			U - 114	Eldas	0	0	0	0
			U - 116	Wajir	0	0	0	0
	Sub-total			0	0	0	0	
Total in North Eastern Province					5,446,809	258,497	564,648	60,116
Nyanza	610	Gusii	U - 117	Kisii	0	0	0	0
	620	Kisumu	U - 119	Ahero	0	0	0	0
			U - 120	Kisumu	0	0	0	0
			U - 121	Maseno	0	0	0	0
			U - 122	Muhoroni	0	0	98,200	28,054
		Sub-total			0	0	98,200	28,054
	630	Siaya	U - 123	Asiro	0	0	0	0
			U - 125	Siaya	0	0	0	54,004
		Sub-total			0	0	0	54,004
	640	Homa Bay	U - 129	Homa Bay	0	0	0	0
			U - 130	Kendu Bay	0	0	0	0
			U - 131	Mbita	0	0	0	0
			U - 133	Oyugis	0	0	0	0
		Sub-total			0	0	0	0
	650	Migori	U - 134	Awendo	0	0	0	400,770
			U - 135	Kenchocha	0	0	490,998	3,010,785
			U - 136	Migori	0	0	0	45,087
U - 137			Nyabikaye	0	0	0	0	
U - 138			Rongo	0	0	0	0	
	Sub-total			0	0	490,998	3,456,641	
660	Nyamira	U - 139	Keroka	0	0	0	0	
		U - 140	Nyamira	0	0	81,833	41,359	
	Sub-total			0	0	81,833	41,359	
Total in Nyanza Province					0	0	671,031	3,580,058
Rift Valley	710	Kajiado	U - 141	Kajiado	0	0	0	0
			U - 142	Magadi	0	0	0	0
			U - 143	Namanga	0	0	0	9,017
			U - 144	Ngong	51,555	9,017	1,198,691	169,526
			U - 145	Loitokitok	0	0	0	0
			U - 146	Ongata Longai	0	0	0	0
		Sub-total			51,555	9,017	1,198,691	178,543
	720	Kipsigis	U - 148	Kericho	0	0	0	0
			U - 149	Kipkelion	0	28,555	0	0
			U - 151	Londiani	49,100	34,816	0	0
			U - 152	Sotik	0	0	0	0
		Sub-total			49,100	63,371	0	0
	730	Laikipia	U - 153	Nanyuki	0	0	0	0
			U - 154	Rumuruti	0	0	0	27,613
		Sub-total			0	0	0	27,613
	740	Nakuru	U - 155	Elburgon	0	0	0	0
			U - 156	Gilgil	0	0	0	0
			U - 157	Molo	0	0	0	0
			U - 158	Naivasha	0	0	0	0
			U - 159	Nakuru	0	0	0	0
U - 160			Njoro	0	0	0	0	
	Sub-total			0	0	0	0	
750	Narok	U - 163	Narok	0	0	0	0	

Table - 5.2.1 (3/3) Ongoing Planned/Designed Projects (Urban Water Supply)

(Units: US\$)

Province	Code	District	Code	Urban Center Name	Ongoing Project		Planned/Designed Project	
					Initial Cost	Annual O&M Cost	Initial Cost	Annual O&M Cost
Rift Valley	760	Trans Nzoia	U - 164	Kitale	0	0	0	0
		770	Uasin Gishu	U - 165	Burnt Forest	51,856	12,023	0
	U - 166			Eldoret	0	0	6,874	204
	U - 167			Lemok	0	0	0	0
	U - 169			Moi's Bridge	262,264	30,058	0	0
	U - 170			Simat	0	0	0	0
	U - 172			Turbo	0	0	0	0
	Sub-total						314,119	42,081
	790	Transmara	U - 174	Kitgoris	0	0	0	0
	810	Baringo	U - 178	Elda Ravine	0	0	0	0
			U - 179	Karbarnet	0	0	0	0
			U - 180	Maji Mazuri	0	0	0	0
			U - 181	Marigat	0	0	0	0
			U - 182	Mogotio	0	0	0	0
	Sub-total				0	0	0	0
	820	Elgeyo Marakwet	U - 183	Iten	0	0	0	57,110
	830	Nandi	U - 185	Kapsabet	0	0	0	80,374
	840	Samburu	U - 188	Maralal	0	0	0	0
			U - 189	Wamba	1,637	12,023	0	0
	Sub-total				1,637	12,023	0	137,484
	850	Turkana	U - 190	Kakuma T.C	0	0	32,733	4,008
			U - 191	Kalokol	8,183	27,052	32,733	24,046
			U - 194	Lodwar	0	105,202	0	0
U - 195			Lokitaung	15,712	16,333	0	0	
Sub-total				23,895	148,587	65,466	28,054	
860	West pokot	U - 197	Kapenguria	0	0	0	0	
		U - 198	Makutano	0	0	0	0	
Sub-total				0	0	0	0	
Total in Rift Valley Province					440,306	275,080	1,271,031	509,353
Western	910	Bungoma	U - 199	Bungoma	0	0	346,046	31,781
			U - 200	Cheptais	0	0	0	0
			U - 202	Kimiliti	0	0	0	0
			U - 203	Malakisi	0	0	0	0
			U - 205	Webuye	0	0	0	0
	Sub-total				0	0	346,046	31,781
	920	Busia	U - 206	Busia	654,664	150,289	98,200	6,012
			U - 207	Malaba Town	0	265,620	0	0
			U - 208	Nambale	0	0	0	0
	Sub-total				654,664	415,909	98,200	6,012
	930	Kakamega	U - 209	Butere	0	5,035	0	0
			U - 210	Kakamega	0	0	0	0
			U - 211	Mumias	0	45,087	0	0
	Sub-total				0	50,121	0	0
	940	Vihiga	U - 213	Maseno/Luanda	0	0	0	0
U - 214			Mbale	0	0	981,997	450,886	
U - 215			Vihiga/Majengo	0	0	6,137,460	3,126,006	
Sub-total				0	0	7,119,476	3,576,892	
Total in Western Province					654,664	466,030	7,563,722	3,614,685
TOTAL IN KENYA					7,443,375	1,676,349	27,428,534	15,358,352

Table S.2.2 (2/2) On-going Planned/Designed Projects for Rural Water Supply

(Unit: US\$)

Province	District	Initial Cost				Annual Operation and Maintenance Cost				
		Large Scale		Small scale		Large scale		Small Scale		
		On-going	Planned/Designed	On-going	Planned/Designed	On-going	Planned/Designed	On-going	Planned/Designed	
Rift Valley	Kapado	258,903	0	715,581	0	64,624	0	10,380	0	
	Kipsigis	49,100	0	36,661	57,447	31,685	0	7,855	19,097	
	Laikipia	1,600,655	0	851,064	81,833	564,965	0	9,037	1,563	
	Nakuru	822,668	900,164	1,560,720	0	37,722	54,966	0	0	
	Narok	423,895	87,987	13,093	116,346	48,814	6,813	3,326	119,309	
	Trans Nzoia	760,720	0	171,849	1,964	88,213	0	9,158	0	
	Uasin Gishu	743,530	0	1,281,578	0	187,144	0	24,026	0	
	Bomet	102,733	0	144,026	552,933	49,481	0	5,951	14,608	
	Transmara	130,930	0	78,560	163,666	22,543	0	12,023	69,133	
	Baringo	1,040,262	0	0	57,283	154,561	0	11,121	87,428	
	Elgeyo Marakwet	2,185,610	0	0	35,666	222,127	0	53,543	4,208	
	Nandi	1,391,162	0	51,882	166,530	122,485	0	10,681	5,611	
	Samburu	6,547	39,280	205,532	0	9,318	11,081	33,364	0	
	Turkana	8,854	0	106,141	0	34,416	0	36,831	0	
	West Pokot	382,324	0	30,657	0	985,143	0	9,017	0	
	Western	Bungoma	1,309,217	842,881	1,146	0	181,882	167,141	10,400	0
		Busia	4,618,658	0	728,069	394,599	406,892	0	14,428	8,015
		Kakamega	81,833	0	981,997	451,718	9,318	0	0	9,478
		Vihiga	0	0	2,301,800	0	0	0	4,809	0
		TOTAL	54,226,416	3,733,525	13,477,443	5,049,376	13,183,857	415,899	746,194	616,965

Table - 5.3.1 (1/4) Cost Estimate for Urban Water Supply Schemes (Newly Proposed Projects)

(Unit: thousand US\$)

Province	Code	District	Code	Urban Center	Surplus / Deficit 2010 (m ³ /day)	Dam & Inter-basin	Source Work	Raw Water Main	Treatment Works	Storage Works	Distribution Pipe	Direct Cost	Administration +15%	Engineering Cost +10%	S-Total	Ph. Contingency +10%	Land Acquisition +5%	G-total	
Nairobi Central	210	Nairobi	U-1	Nairobi	407,687	0	0	0	0	0	0	0	0	0	0	0	0	0	
	220	Kiambu	U-2	Githurguri	1,940	0	43	173	492	100	458	1,265	190	126	1,581	158	63	1,602	
			U-3	Karuri	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			U-4	Kiambu	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			U-5	Kiambu	7,968	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			U-6	Kiambu	3,993	0	312	171	377	355	1,507	2,701	877	1,096	438	12,492			
			U-7	Ndumburi	14,137	0	190	1,247	1,316	726	3,336	6,816	1,022	852	341	9,712			
			U-8	Ruiru	536	0	16	83	203	28	126	457	69	57	23	651			
			U-9	Thika	21,396	7,968	566	1,677	2,790	1,263	5,776	20,004	3,001	2,501	1,000	23,506			
			U-12	Keregya/Kutus	5,247	0	91	359	819	289	1,238	2,776	416	347	139	3,956			
U-16	Wanguru	5,247	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
230	Muranga	U-19	Makuyu	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		U-20	Muranga	1,927	0	43	173	490	99	455	1,259	189	126	1,573	157	63	1,794		
		U-21	Muranga	11,412	0	162	1,247	1,662	586	2,693	5,751	863	575	7,188	719	268	8,195		
		U-22	Muranga	13,139	0	205	1,420	1,552	685	3,148	7,010	1,051	701	8,762	876	350	9,989		
240	Nyeri	U-26	Nyahururu	15,606	15,112	0	0	0	0	0	0	0	0	0	0	0	0	0	
		U-28	Olkaria	539	0	16	83	204	28	127	459	69	57	23	653				
		U-30	Olkaria	15,944	15,112	16	83	819	973	4,471	16,474	24,671	20,539	8,224	24,437				
250	Nyeri	U-32	Endrasha	0	19	0	0	0	0	0	0	0	0	0	0	0	0	0	
		U-33	Keratina	4,903	0	86	359	798	252	1,157	2,652	398	265	3,315	331	133	3,779		
		U-36	Nyeri	28,798	0	325	2,228	2,680	1,479	6,796	13,507	2,026	1,351	16,884	1,658	673	19,246		
		U-37	Obaya	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		U-38	Kilifi	33,700	19	411	2,587	3,478	1,730	7,953	16,178	2,427	1,618	20,222	2,022	809	23,054		
		U-39	Miyango	2,014	0	44	173	503	103	475	1,299	195	130	1,623	162	65	1,851		
		U-40	Malandi	805	0	56	83	229	55	362	786	118	79	982	98	39	1,120		
Total in Central Province Coastal	310	Kilifi	U-41	Memburi	13,564	16,942	0	0	0	0	0	0	0	0	0	0	0	0	0
			U-42	Mariakani	0	0	17	83	217	80	138	486	73	49	608	61	24	693	
			U-43	Wasamu	1,334	0	32	173	387	68	315	976	146	98	1,220	122	49	1,390	
			U-44	Wasamu	18,523	16,942	150	513	2,600	955	4,497	25,697	3,854	2,570	32,121	3,212	1,285	36,618	
			U-45	Kwale	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
			U-46	Lunga Lungu	637	0	19	83	231	33	150	516	77	52	644	64	26	725	
			U-47	Misambweni	4,937	0	86	359	800	253	1,165	2,664	400	266	3,330	333	133	3,796	
			U-48	Lamu	5,574	0	105	442	1,031	286	1,315	3,180	477	318	3,975	397	159	4,531	
			U-49	Mokowe T.C	568	0	17	83	212	29	134	476	71	48	595	60	24	678	
			U-50	Mombasa	1,516	0	36	173	421	78	388	1,065	160	106	1,331	133	53	1,517	
320	Mombasa	U-51	Mombasa	2,084	0	53	256	633	107	492	1,541	231	154	1,926	193	77	2,190		
		U-52	Timba	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
		U-53	Vol	4,653	0	83	359	781	239	1,093	2,560	384	256	3,200	320	128	3,648		
330	Thika	U-54	Thika	666	0	19	83	238	34	157	532	80	53	665	67	27	759		
		U-55	Wundanyi	5,319	0	102	442	1,019	273	1,255	3,092	464	309	3,865	387	155	4,400		
340	Tana River	U-56	Garsen	2,906	0	59	359	632	154	707	1,911	287	191	2,389	239	96	2,723		
		U-57	Hola	5,302	0	108	452	1,177	272	1,251	3,341	501	334	4,176	418	167	4,761		
		U-58	Hola	36,603	16,942	519	2,185	6,460	1,893	8,311	36,350	5,528	3,685	46,063	4,606	1,843	52,512		
Total in Coastal Province																			

Table - 5.3.1 (2/4) Cost Estimate for Urban Water Supply Schemes (Newly Proposed Projects)

Province	Code	District	Urban Center	Surplus / Deficit 2010 (m ³ /day)	Dam & Inter-basin	Source Work	Raw Water Main	Treatment Works	Storage Works	Distribution Pipe	Direct Cost	Administration +1.5%	Engineering Cost +10%	S-Total	Ph. Contingency +10%	Land Acquisition +5%	G-total			
Eastern	410	Emsu	U-60	Embu	9,297	0	139	245	931	477	2,194	4,457	673	449	5,603	561	224	6,393		
			U-61	Ruvengesi	1,500	0	36	173	420	80	368	163	1,096	163	109	1,358	136	54	1,548	
	420	Isiolo	Sub-total	U-63	Isiolo	10,856	0	175	918	1,340	557	2,502	5,573	836	557	6,966	697	279	7,941	
				U-64	Medo Gashu	9,526	0	1,528	0	0	23	1,231	4,237	7,069	1,060	707	8,836	884	353	10,073
	430	Kitui	Sub-total	U-65	Merri	343	0	13	83	156	20	90	364	55	36	455	46	18	519	
				U-68	Kitui	9,910	10,228	0	1,541	83	181	1,251	4,377	7,433	1,115	783	9,291	929	372	10,592
	440	Masai	Sub-total	U-69	Abu River	1,158	7,716	0	0	352	59	273	8,401	1,260	1,023	12,283	1,239	511	14,375	
				U-71	Machakos	27,229	0	311	2,228	2,534	1,398	6,426	12,897	19,151	2,900	1,290	20,501	2,050	420	21,971
				U-74	Muruu	4,506	0	81	359	771	231	1,063	2,505	3,76	559	251	3,131	313	125	3,570
				U-77	Kangundo/Tala	6,885	0	111	745	892	353	1,625	3,726	5,59	559	373	4,667	466	186	5,309
Sub-total					36,777	7,716	503	3,332	4,543	2,042	9,387	27,529	41,239	6,441	2,753	34,411	3,441	1,376	39,229	
450	Marsabit	Sub-total	U-70	Karpi	1,789	0	228	0	4	231	805	1,268	190	127	1,585	159	63	1,807		
			U-80	Korr	1,829	0	247	0	4	236	823	1,310	1,638	164	131	1,833	184	66	1,667	
			U-82	Marsabit	2,027	0	334	0	5	262	912	1,513	2,27	227	151	1,891	189	76	2,156	
			U-83	Moyale	1,966	0	334	0	5	254	885	1,478	1,847	222	148	1,847	185	74	2,106	
			U-84	North Horr	803	0	114	0	2	104	361	87	581	87	58	726	72	29	828	
460	Meru	Sub-total	U-85	Solo	840	0	114	0	2	109	378	602	75	58	753	75	30	858		
			U-86	Meru	9,253	0	1,370	0	22	1,196	4,164	6,752	10,153	1,513	675	8,441	844	333	9,622	
			U-87	Ndumu	17,474	0	175	1,247	1,179	650	2,990	6,242	936	624	624	7,802	780	312	8,694	
			U-89	Masa	4,806	0	85	359	792	247	1,134	2,616	3,92	392	262	3,270	327	131	3,728	
			Sub-total		13,253	0	260	1,606	1,971	897	4,124	8,858	13,239	1,939	886	11,073	1,107	443	12,623	
470	Nyanzema	Sub-total	U-90	Chuka	1,222	0	32	173	385	68	313	971	146	97	1,214	121	49	1,384		
			U-91	Mwingi	4,559	10,228	0	772	233	1,069	12,302	1,845	919	138	1,230	1,538	615	17,330		
			U-93	Kibwezi	1,952	0	27	173	330	54	243	832	1,25	125	83	1,040	104	42	1,185	
			U-98	Mtito Andei	3,744	0	70	359	783	192	835	2,215	3,046	457	305	2,768	277	111	3,156	
			Sub-total		4,800	0	160	878	2,560	610	2,803	3,046	4,57	457	305	3,808	381	152	4,341	
North Eastern	510	Garissa	U-104	Garissa	99,347	28,173	4,010	6,817	10,642	6,554	27,418	83,612	12,542	8,361	104,515	10,451	4,181	119,147		
			U-105	Liboi	2,015	0	44	173	503	103	476	1,299	1,95	195	130	1,624	162	65	1,852	
	520	Mandera	U-108	Ewaso	1,608	0	247	0	4	242	841	1,334	200	133	1,667	167	67	1,901		
			U-109	Mandera	637	0	19	83	231	53	150	510	77	52	52	645	64	26	735	
	530	Wajir	U-110	Ithama	4,027	0	74	359	733	207	930	2,323	348	232	2,904	290	156	3,310		
			Sub-total		6,530	0	339	442	968	431	1,942	4,173	626	417	5,216	522	209	5,946		
	Sub-total	U-113	Bate	522	0	76	0	1	67	235	380	57	38	474	47	19	561			
		U-114	Endas	1,656	0	209	0	4	211	736	1,160	174	116	1,450	145	58	1,653			
		U-116	Wajir	9,088	0	1,456	0	22	1,175	4,090	6,743	10,111	1,011	674	8,428	843	337	9,608		
		Sub-total		11,246	0	1,741	0	27	1,454	5,061	8,292	1,242	823	1,242	10,353	1,035	414	11,802		
Total in North Eastern Province				19,794	0	2,125	615	1,498	2,038	7,478	13,754	2,063	1,375	17,193	1,719	688	19,600			

Table - 5.3.1 (3/4) Cost Estimate for Urban Water Supply Schemes (Newly Proposed Projects)

(Unit: thousand US\$)

Province	Code	District	Code	Urban Center	Surplus / Deficit 2010 (m ³ /day)	Dam & Inter-basin	Source Work	Raw Water Main	Treatment Works	Storage Works	Distribution Pipe	Direct Cost	Administration +10 %*	Engineering Cost +10 %*	S-Total	Ph. Contingency +10 %*	Land Acquisition +5 %*	G-total			
Nyanza	610	Gisai	U-117	Kisii	8,960	6,131	0	0	930	460	2,115	9,635	1,445	964	12,044	1,204	482	13,730			
	620	Kiambu	U-119	Ahero	94	0	4	83	52	5	22	167	25	17	208	21	6	235			
			U-120	Kisumu	60,750	31,106	0	5,654	3,119	14,337	54,216	8,132	5,422	67,769	6,777	6,777	74,111	7,411	77,257		
			U-121	Miseno	8,045	0	125	745	920	413	1,999	4,101	615	410	5,126	513	205	5,644	0	5,644	
	630	Siaya	U-122	Muhoroni	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
			Sub-total	68,889	31,106	139	928	7,555	3,997	18,372	58,463	8,772	5,845	73,104	7,310	2,924	83,339	8,339	83,339		
			U-123	Asiro	1,334	0	32	173	387	69	315	976	146	98	1,220	122	49	1,391	0	1,391	
	640	Homa Bay	U-125	Siaya	4,410	0	79	359	763	226	1,041	2,469	370	267	3,086	309	123	3,518	0	3,518	
			Sub-total	5,745	0	112	532	1,150	295	1,356	3,445	517	344	4,308	431	172	4,909	0	4,909		
			U-129	Homa Bay	11,524	0	163	1,247	1,072	592	2,720	5,794	869	724	7,243	724	290	8,257	0	8,257	
			U-130	Kendu Bay	2,185	0	47	173	528	112	516	1,376	206	136	1,720	172	69	1,961	0	1,961	
			U-131	Mbita	1,639	0	36	173	442	84	387	1,124	169	112	1,405	141	56	1,602	0	1,602	
			U-133	Oyugit	1,755	0	40	173	462	90	414	1,179	177	118	1,474	147	59	1,680	0	1,680	
650	Migori	Sub-total	17,103	0	288	1,766	2,505	878	4,036	9,474	1,421	947	11,842	1,184	474	13,500	0	13,500			
		U-134	Awendu	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
		U-135	Kenbaacha	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
		U-136	Migori	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
		U-137	Nyababaye	1,167	0	152	151	3	151	525	830	125	83	1,038	104	42	1,183	0	1,183		
		U-138	Rongu	1,608	0	189	173	437	360	1,109	1,066	166	111	1,387	139	55	1,581	0	1,581		
		U-139	Keroba	762	981	0	189	173	440	233	905	291	194	2,425	242	97	2,764	0	2,764		
		U-140	Nyamira	2,699	0	55	173	859	178	3,063	459	219	146	1,828	183	73	2,084	0	2,084		
		Sub-total	106,933	38,218	773	3,472	12,510	5,581	25,486	86,039	12,906	8,004	107,549	10,755	4,302	122,606	0	122,606			
		700	Kajiado	U-141	Kajiado	626	0	18	83	228	32	148	510	77	51	638	64	26	727	0	727
U-142	Magadi			4,770	0	84	359	769	245	1,126	2,603	390	260	3,254	325	130	3,709	0	3,709		
U-143	Niamaungu			1,735	0	90	173	398	116	781	1,558	234	156	1,948	195	78	2,228	0	2,228		
U-144	Nyongu			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
U-145	Loinokrok			12,697	0	266	1,247	1,134	693	5,714	9,054	1,358	905	11,317	1,132	459	12,901	0	12,901		
U-146	Ongata Lengai			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
Sub-total	19,892			0	459	1,863	2,549	1,086	7,768	13,725	2,059	1,372	17,156	1,716	686	19,558	0	19,558			
710	Kipsigis			U-148	Kerebo	13,707	11,449	0	0	0	1,276	704	3,255	17,063	2,540	1,706	21,329	2,133	853	24,315	
				U-149	Kipkelion	0	52,622	0	0	0	0	0	0	0	52,622	2,893	5,262	65,778	6,578	2,631	74,987
				U-151	Londiani	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
				U-150	Solk	1,453	0	35	173	409	75	343	1,034	155	103	1,293	129	52	1,474	0	1,474
				Sub-total	15,161	64,472	35	173	1,685	778	3,578	70,720	10,608	7,072	88,401	8,840	3,536	100,777	0	100,777	
720	Lakipia			U-153	Nanyuki	10,120	0	148	745	942	520	2,388	4,743	711	474	5,928	593	237	6,758	0	6,758
				U-154	Rumunili	47	16,252	0	0	29	11	16,294	2,444	1,629	20,368	2,037	815	21,219	0	21,219	
				Sub-total	10,167	16,252	148	745	971	522	2,399	21,037	3,156	2,104	26,296	2,630	1,052	29,978	0	29,978	
		U-155	Eburgin	1,776	25,740	0	0	465	91	484	1,097	165	110	1,372	137	55	1,564	0	1,564		
730	Nakuru	U-156	Gilgil	2,050	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
		U-157	Melo	2,796	3,836	0	0	699	144	660	5,248	787	525	6,560	656	262	7,478	0	7,478		
		U-158	Nirosha	16,598	7,222	0	0	1,545	852	3,017	13,536	2,030	1,354	16,919	1,692	677	19,288	0	19,288		
		U-159	Niburu	75,578	76,166	0	0	7,034	3,890	17,837	104,916	15,737	10,492	131,145	13,115	5,246	149,505	0	149,505		
		U-160	Nfero	1,616	6,815	0	0	433	381	7,718	1,158	772	9,648	965	366	10,998	0	10,998			
750	Narok	Sub-total	100,414	119,819	0	0	10,599	23,693	139,271	23,891	15,927	199,089	19,909	7,964	226,961	0	226,961				
		U-163	Narek	9,558	35,439	0	0	932	491	2,256	19,117	2,568	1,912	23,897	2,390	956	27,292	0	27,292		
760	Trans Nzoia	U-164	Kiata	16,318	0	212	1,247	1,519	838	3,851	7,667	1,150	767	9,584	958	365	10,926	0	10,926		

Table - 5.3.1 (4/4) Cost Estimate for Urban Water Supply Schemes (Newly Proposed Projects)

(Unit: thousand US\$)

Province	Code	District	Code	Urban Center	Surplus / Deficit 2010 (m ³ /day)	Dam & Inter-basin	Source Work	Raw Water Main	Treatment Works	Storage Works	Distribution Pipe	Direct Cost	Administration +15%	Engineering Cost +10%	S-Total	Ph. Contingency +10%	Land Acquisition +5%	Grand							
770	Uasin Gishu		U-165	Humi Forest	0	0	0	0	0	0	0	0	0	0	0	0	0	0							
			U-166	Eldoret	14,195	0	0	1,630	899	4,134	20,839	3,129	2,086	26,074	2,607	1,043	29,724								
			U-167	Lemok	0	38	173	440	84	384	1,118	168	112	1,398	140	56	1,594								
			U-169	Moi's Bridge	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0						
			U-170	Simat	3,015	0	143	173	545	211	1,457	2,429	364	243	3,037	304	121	3,462							
			U-172	Turbo	995	0	26	173	317	51	235	802	120	80	1,003	100	40	1,143							
			Sub-total		23,156	14,195	419	1,766	5,983	2,574	12,217	25,209	3,781	2,521	31,511	3,151	1,260	35,923							
			790	Transmara		U-174	Kigenis	2,734	0	56	359	601	140	645	1,801	270	180	2,251	225	90	2,566				
						U-176	Eldi Kavine	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
						U-179	Korbarret	23,974	16,855	0	2,417	1,334	6,130	26,735	4,010	2,674	33,419	3,342	1,337	38,098					
						U-180	Maji Mazuri	103	0	5	83	50	174	28	24	17	217	22	9	248					
						U-181	Marigat	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
						U-182	Mogobio	439	24,732	0	478	0	175	23	104	25,033	3,755	2,503	31,292	3,129	1,252	35,672			
						Sub-total		26,316	41,587	60	442	3,239	1,502	6,903	51,042	7,791	5,194	64,928	6,493	2,597	74,018				
						820	Elgeyo, Marakwet		U-183	Iten	0	3,535	0	0	0	0	0	0	3,535	530	354	4,419	442	177	5,036
									U-185	Kapsabet	1,460	0	35	173	411	75	345	1,038	156	104	1,297	130	52	1,479	
									U-188	Marsabit	362	0	12	83	151	85	351	53	35	439	44	18	500		
U-189	Wambou	4,597	0	740	0				11	594	2,069	3,414	512	341	4,268	427	171	4,865							
Sub-total		4,960	0	787	256				573	688	2,499	3,765	565	377	4,706	471	188	5,365							
850	Turkana		U-190	Kakuma T.C	2,957				0	478	0	7	382	1,331	2,198	330	220	275	110	312	27				
			U-191	Kalokol	0				19	0	0	0	0	18	63	105	16	11	132	13	5	150			
			U-194	Lodwar	140				0	24	0	0	0	0	0	0	19	2	24	2	1	27			
			U-195	Lokitung	0				19	0	0	0	0	0	0	0	19	3	24	2	1	27			
			Sub-total		3,097				38	501	0	7	400	1,394	2,441	351	234	2,926	293	117	3,336				
860	West pokot		U-197	Kapsenguria	3,162	0	62	359	652	163	751	1,988	298	199	2,485	248	99	2,833							
			U-198	Makutano	3,187	0	62	359	653	164	752	1,990	298	199	2,487	249	99	2,836							
			Sub-total		6,390	0	124	718	1,305	327	1,503	3,978	597	398	4,972	497	199	5,668							
			U-199	Turkana	219,739	275,337	2,584	5,963	26,321	13,033	61,959	365,147	57,772	38,515	481,433	48,143	19,257	548,836							
			Sub-total		9,480	0	141	745	932	487	2,237	4,541	681	454	5,677	563	227	6,472							
910	Rungoma		U-200	Cherokot	0	0	0	0	0	0	0	0	0	0	0	0	0	0							
			U-202	Kambili	36,321	0	386	2,228	3,340	1,865	8,572	16,431	2,465	1,643	20,539	2,054	822	23,414							
			U-203	Malakui	1,215	0	30	173	363	62	297	916	137	92	1,145	114	46	1,305							
			U-205	Webuye	14,940	0	198	1,247	1,390	767	3,526	7,129	1,069	713	8,911	891	346	10,150							
			Sub-total		61,956	0	756	4,393	6,066	3,181	14,622	29,017	4,353	2,902	36,272	3,627	1,451	41,350							
			920	Husia		U-206	Husia	4,231	0	77	359	750	217	999	2,401	360	240	3,002	300	120	3,422				
						U-207	Malaba Town	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
						U-208	Nambale	976	0	103	532	1,063	267	1,229	3,193	479	319	3,992	399	160	4,551				
						Sub-total		3,207	0	103	532	1,063	267	1,229	3,193	479	319	3,992	399	160	4,551				
						930	Kakamega		U-209	Butere	3,653	0	69	359	700	188	862	2,171	327	218	2,721	272	109	3,102	
U-210	Katungu	14,506	1,992	0	1,358				749	3,445	7,545	1,132	754	9,431	943	377	10,751								
U-211	Mumias	6,950	0	112	745				894	357	1,640	3,748	562	375	4,684	468	167	5,940							
Sub-total		25,108	1,992	181	1,104				2,952	1,294	5,947	13,469	2,020	1,374	16,836	1,684	673	19,194							
U-213	Mesoer/Luanda	23,174	0	270	1,667				2,157	1,190	5,469	10,758	1,614	1,076	13,448	1,345	538	15,331							
940	Vihiga		U-214	Mbale	0	24	0	0	0	0	0	24	0	0	0	0	0	0							
			U-215	Vihiga/Makungo	0	0	0	0	0	0	0	0	0	0	0	0	0	0							
			Sub-total		23,174	24	276	1,667	2,157	1,190	5,469	10,758	1,617	1,078	13,478	1,348	539	15,365							
			U-216	Mesoer/Luanda	115,535	2,016	1,315	7,696	12,237	5,932	27,266	56,462	8,469	5,646	70,578	7,058	2,823	80,458							
			Sub-total		1,113,066	526,769	12,563	32,874	79,126	39,951	181,003	872,308	130,846	87,231	1,090,383	109,038	43,615	1,243,026							

Table - 5.3.2 Cost Estimate for Rural Water Supply Schemes(Newly Proposed Projects)

(Unit: US\$)

Province	District	Deficit (m ³ /day)			Large scale					Small scale					Live Stock		Total	Rehabilitation					
					20000 scale		5000 scale		Total	1000 scale		500 scale		200 scale		Total		No. of Reservoirs	Cost	No. of existing Project	Cost (US\$)		
		LS	SS	Livestock	No.	Cost	No.	Cost		No.	Cost	No.	Cost	No.	Cost								
Nairobi	Nairobi	0	0	400	0	0	0	0	0	0	0	0	0	0	0	0	1	30,500	30,500	0	0		
Central	Kiambu	0	6,730	1,188	0	0	0	0	0	0	0	336	665,280	843	1,669,140	2,334,420	3	91,500	2,425,920	18	5,805,028		
	Kirinyaga	0	0	704	0	0	0	0	0	0	0	0	0	0	0	0	3	91,500	91,500	14	4,515,022		
	Muranga	0	10,478	1,266	0	0	0	0	0	0	0	523	1,035,540	1,312	2,597,760	3,633,300	3	91,500	3,724,800	5	1,612,508		
	Nyandarua	0	0	2,089	0	0	0	0	0	0	0	0	0	0	0	0	4	122,000	122,000	8	2,580,013		
	Nyeri	0	0	1,274	0	0	0	0	0	0	0	0	0	0	0	0	3	91,500	91,500	4	1,290,006		
Coastal	Kilifi	0	13,804	794	0	0	0	0	0	0	0	690	1,366,200	1,726	3,417,480	4,783,680	3	91,500	4,875,180	4	1,290,006		
	Kwale	0	11,853	1,826	0	0	0	0	0	0	0	594	1,176,120	1,486	2,942,280	4,118,400	7	213,500	4,331,900	2	645,003		
	Lamu	0	207	300	0	0	0	0	0	0	0	10	19,800	27	53,460	73,260	2	61,000	134,260	1	322,502		
	Mombasa	3,106	0	57	0	0	6	9,394,950	9,394,950	0	0	0	0	0	0	0	0	1	30,500	9,425,450	5	1,612,508	
	Taita	0	0	386	0	0	0	0	0	0	0	0	0	0	0	0	2	61,000	61,000	6	1,935,009		
	Tana River	0	694	3,847	0	0	0	0	0	0	0	34	67,320	89	176,220	243,540	14	427,000	670,540	2	645,003		
Eastern	Embu	0	3,694	1,348	0	0	0	0	0	0	0	184	364,320	464	918,720	1,283,040	5	152,500	1,435,540	6	1,935,009		
	Isiolo	0	0	307	0	0	0	0	0	0	0	0	0	0	0	0	2	61,000	61,000	2	645,003		
	Kitui	0	5,112	3,676	0	0	0	0	0	0	0	255	504,900	641	1,269,180	1,774,080	14	427,000	2,201,080	3	967,505		
	Masaku	0	7,785	2,812	0	0	0	0	0	0	0	389	770,220	974	1,928,520	2,698,740	11	335,500	3,034,240	12	3,870,019		
	Marsabit	0	0	2,698	0	0	0	0	0	0	0	0	0	0	0	0	15	457,500	457,500	13	4,192,521		
	Meru	0	0	1,392	0	0	0	0	0	0	0	0	0	0	0	0	6	183,000	183,000	3	967,505		
	Nyambene	0	4,362	1,203	0	0	0	0	0	0	0	218	431,640	546	1,081,080	1,512,720	5	152,500	1,665,220	10	3,225,016		
	Tharaka Nithi	0	626	1,451	0	0	0	0	0	0	0	31	61,380	79	156,420	217,800	6	183,000	400,800	4	1,290,006		
	Mwingi	6,815	2,985	1,772	1	2,801,328	8	12,526,600	15,327,928	0	0	149	295,020	374	740,520	1,035,540	7	213,500	16,576,968	2	645,003		
Makueni	0	7,671	21,749	0	0	0	0	0	0	0	383	758,340	961	1,902,780	2,661,120	79	2,409,500	5,070,620	4	1,290,006			
North-Eastern	Garissa	0	151	18,138	0	0	0	0	0	0	0	7	13,860	21	41,580	55,440	98	2,989,000	3,044,440	7	2,257,511		
	Mandera	2,594	1,199	4,141	0	0	5	7,829,125	7,829,125	0	0	59	116,820	153	302,940	419,760	23	701,500	8,950,385	6	1,935,009		
	Wajir	665	51	7,117	0	0	2	914,128	914,128	0	0	2	3,960	8	15,840	19,800	39	1,189,500	2,123,428	12	3,870,019		
Nyanza	Gusii	0	47,036	2,235	0	0	0	0	0	0	0	2,351	4,654,980	5,882	11,646,360	16,301,340	5	152,500	16,453,840	6	1,935,009		
	Kisumu	0	3,483	2,971	0	0	0	0	0	0	0	174	344,520	436	863,280	1,207,800	6	183,000	1,390,800	11	3,547,517		
	Siaya	0	0	3,199	0	0	0	0	0	0	0	0	0	0	0	0	6	183,000	183,000	14	4,515,022		
	Homa Bay	0	2,844	1,795	0	0	0	0	0	0	0	142	281,160	356	704,880	986,040	4	122,000	1,108,040	2	645,003		
	Migori	0	19,486	1,081	0	0	0	0	0	0	0	974	1,928,520	2,437	4,825,260	6,753,780	2	61,000	6,814,780	1	322,502		
	Nyamira	0	6,160	1,998	0	0	0	0	0	0	0	308	609,840	770	1,524,600	2,134,440	4	122,000	2,256,440	5	1,612,508		
Rift Valley	Kajiado	0	561	7,548	0	0	0	0	0	0	0	28	55,440	71	140,580	196,020	28	854,000	1,050,020	7	2,257,511		
	Kipsigis	0	20,199	1,716	0	0	0	0	0	0	0	1,009	1,997,820	2,528	5,005,440	7,003,260	4	122,000	7,125,260	2	645,003		
	Laikipia	0	3,379	2,012	0	0	0	0	0	0	0	168	332,640	425	841,500	1,174,140	8	244,000	1,418,140	1	322,502		
	Nakuru	0	2,378	18,131	0	0	0	0	0	0	0	118	233,640	300	594,000	827,640	33	1,006,500	1,834,140	7	2,257,511		
	Narok	5,975	2,987	4,282	1	2,801,328	6	9,394,950	12,196,278	0	0	149	295,020	375	742,500	1,037,520	16	488,000	13,721,798	6	1,935,009		
	Trans Nzoia	0	16,358	966	0	0	0	0	0	0	0	817	1,617,660	2,047	4,053,060	5,670,720	2	61,000	5,731,720	0	0		
	Uasin Gishu	0	0	2,678	0	0	0	0	0	0	0	0	0	0	0	0	5	152,500	152,500	8	2,580,013		
	Bomet	0	24,327	3,041	0	0	0	0	0	0	0	1,216	2,407,680	3,042	6,023,160	8,430,840	6	183,000	8,613,840	3	967,505		
	Transmara	7,122	0	1,610	1	2,801,328	8	12,526,600	15,327,928	0	0	0	0	0	0	0	0	3	91,500	15,419,428	2	645,003	
	Baringo	0	0	12,002	0	0	0	0	0	0	0	0	0	0	0	0	0	44	1,342,000	1,342,000	4	1,290,006	
	Elgeyo Marakwet	0	4,655	640	0	0	0	0	0	0	0	232	459,360	584	1,156,320	1,615,680	2	61,000	1,676,680	5	1,612,508		
	Nandi	0	17,822	2,668	0	0	0	0	0	0	0	891	1,764,180	2,228	4,411,440	6,175,620	5	152,500	6,328,120	3	967,505		
	Samburu	0	0	3,205	0	0	0	0	0	0	0	0	0	0	0	0	0	18	549,000	549,000	8	2,580,013	
	Turkana	2,544	0	2,214	0	0	5	7,829,125	7,829,125	0	0	0	0	0	0	0	0	12	366,000	8,195,125	6	1,935,009	
	West Pokot	0	0	3,127	0	0	0	0	0	0	0	0	0	0	0	0	0	12	366,000	366,000	5	1,612,508	
Western	Bungoma	433	4,381	2,198	0	0	1	1,565,825	1,565,825	0	0	219	433,620	548	1,085,040	1,518,660	4	122,000	3,206,485	14	4,515,022		
	Busia	0	5,249	1,358	0	0	0	0	0	0	0	262	518,760	658	1,302,840	1,821,600	3	91,500	1,913,100	9	2,902,514		
	Kakamega	0	24,543	3,215	0	0	0	0	0	0	0	1,227	2,429,460	3,069	6,076,620	8,506,080	6	183,000	8,689,080	7	2,257,511		
	Vihiga	6,598	8,690	1,380	1	2,801,328	7	10,960,775	13,762,103	0	0	434	859,320	1,088	2,154,240	3,013,560	3	91,500	16,867,163	6	1,935,009		
TOTAL		35,852	291,969	168,804	4	11,205,312	48	72,942,078	84,147,390	0	0	14,583	28,874,340	36,548	72,365,040	101,239,380	597	18,208,500	203,595,270	295	95,137,966		
Unit Cost for each Scale						2,801,328		1,565,825					1,980		1,980							unit cost	322,502

(1) LS and SS imply Large Scale Rural Water Supply and Small Scale Rural Water Supply respectively.

(2) Productin Capacity of small scale rural water supply schemes are unknown. Accordingly, 1995 water demand estimates in the current study are tentatively utilized.

(3) Livestock water deficit is estimated from the balance of the 1995 and 2010 water demand. The present situation is assumed that 80% of the 1995 demand is being fed from the existing facilities.

Table - 5.4.2 Operation and Maintenance Cost for Rural Water Supply Schemes
(Newly Proposed Projects)

(Unit: US\$)

Province	District	Operation and Maintenance Cost								
		Large Scale					Small Scale	Live Stock	Total	
		No.	Personal cost	Facility	Che. Input	Sub-Total				
Nairobi	Nairobi	0	0	0	0	0	0	305	305	
Central	Kiambu	0	0	0	0	0	12,969	915	13,884	
	Kirinyaga	0	0	0	0	0	0	915	915	
	Muranga	0	0	0	0	0	9,063	915	9,983	
	Nyaodaru	0	0	0	0	0	0	1,220	1,220	
	Nyeri	0	0	0	0	0	0	915	915	
Coastal	Kilifi	0	0	0	0	0	32,393	915	33,308	
	Kwale	0	0	0	0	0	28,690	2,135	30,825	
	Lamu	0	0	0	0	0	0	610	610	
	Mombasa	78	83	93,950	24,122	118,154	0	305	118,459	
	Taita	0	0	0	0	0	0	610	610	
	Tana River	0	0	0	0	0	2,000	4,270	6,270	
	Eastern	Embu	0	0	0	0	0	9,326	1,525	10,851
Isiolo	0	0	0	0	0	0	610	610		
Kitui	0	0	0	0	0	15,424	4,270	19,694		
Masaku	0	0	0	0	0	21,740	3,355	25,095		
Marsabit	0	0	0	0	0	0	4,575	4,575		
Meru	0	0	0	0	0	0	1,830	1,830		
Nyambene	0	0	0	0	0	0	1,525	1,525		
Tharaka Nithi	0	0	0	0	0	1,564	1,830	3,394		
Mwingi	130	138	153,279	52,925	206,342	8,692	2,135	217,169		
Makueni	0	0	0	0	0	16,315	24,095	40,410		
North-Eastern	Garissa	0	0	0	0	0	0	29,890	29,890	
	Mandera	65	69	78,291	20,144	98,504	3,148	7,015	108,667	
	Wajir	26	28	9,141	5,161	14,330	0	11,895	26,225	
Nyanza	Gusii	0	0	0	0	0	144,085	1,525	145,610	
	Kisumu	0	0	0	0	0	10,053	1,830	11,883	
	Siaya	0	0	0	0	0	0	1,830	1,830	
	Homa Bay	0	0	0	0	0	2,247	1,220	8,467	
	Migori	0	0	0	0	0	63,182	610	63,792	
	Nyamira	0	0	0	0	0	16,454	1,220	17,674	
Rift Valley	Kajiado	0	0	0	0	0	0	8,540	8,540	
	Kipsigis	0	0	0	0	0	60,053	1,220	61,273	
	Laikipia	0	0	0	0	0	9,583	2,440	12,023	
	Nakuru	0	0	0	0	0	0	10,065	10,065	
	Narok	104	111	121,963	46,400	168,473	7,781	4,880	181,135	
	Trans Nzoia	0	0	0	0	0	48,451	610	49,061	
	Uasin Gishu	0	0	0	0	0	0	1,525	1,525	
	Bomet	0	0	0	0	0	74,309	1,830	76,139	
	Transmara	130	138	153,279	55,308	208,725	0	915	209,640	
	Baringo	0	0	0	0	0	0	13,420	13,420	
	Elgeyo Marakwet	0	0	0	0	0	13,207	610	13,817	
	Nandi	0	0	0	0	0	50,272	1,525	51,797	
	Samburu	0	0	0	0	0	0	5,490	5,490	
	Turkana	65	69	78,291	19,756	98,117	0	3,660	101,777	
	West Pokot	0	0	0	0	0	0	3,660	3,660	
	Western	Bungoma	13	14	15,658	3,366	19,039	11,068	1,220	31,327
		Busia	0	0	0	0	0	6,633	915	7,548
Kakamega		0	0	0	0	0	55,381	1,830	57,211	
Vihiga		117	124	137,621	51,242	188,988	18,256	915	208,158	
TOTAL		728	47,320	774	1,780,909	1,120,672	757,350	182,085	2,060,107	

Table - 6.2.1 (1/2) Ranking of Urban Centres for Implementation of Urban Water Supply Development

Code	District	Code	Name of Urban Scheme	1) Service Ratio		2) Supply Conditions		3) Health Condition		4) Industry & Commerce	5) Tourism	6) Affordability	7) Cost Effectivity	Overall Ranking	
				%	Rank	Production Demand	Rank	%	Rank					Total Score	Rank
210	Kiambu	U-2	Githunguri	138.9	1	24.9	4	56.3	3	1	1	2	1	13	B
		U-3	Karuri	50.0	2	23.0	4	56.3	3	1	1	2	2	15	A
		U-4	Kiambu	79.9	1	40.4	3	56.3	3	2	1	2	1	13	B
		U-5	Kileleshwa	40.4	2	88.5	2	56.3	3	1	1	2	1	12	C
		U-7	Ndumburi	2	2	0.0	4	56.3	3	1	1	2	1	14	B
		U-8	Ruiru	60.0	1	8.6	4	56.3	3	1	1	2	2	14	B
220	Kiambu	U-9	Thika	80.3	1	132.8	1	56.3	3	1	1	2	1	10	C
		U-12	Karegeya	22.2	2	90.9	2	64.3	3	2	1	1	2	13	B
		U-12	Kulus	12.9	2	0.0	4	64.3	3	1	1	1	2	14	B
		U-16	Wanguru	13.8	2	85.9	2	64.3	3	1	1	1	2	12	C
		U-19	Makuyu	2.5	2	437.9	1	48.1	2	1	1	2	1	10	C
		U-20	Muranga	51.7	1	1.8	4	48.1	2	1	1	2	1	12	C
240	Nyanza	U-21	Muranga	42.9	2	60.8	2	48.1	2	2	1	2	2	13	B
		U-28	Nyahururu	33.3	2	43.9	3	41.7	2	2	1	2	2	14	B
		U-30	Olkaria	90.0	1	17.9	4	41.7	2	1	1	2	2	13	B
250	Nyeri	U-32	Enderasha	2	2	0.0	4	35.4	2	1	1	1	1	12	C
		U-33	Karatina	162.7	1	63.6	2	35.4	2	2	1	1	2	11	C
		U-36	Nyeri	40.0	2	165.5	1	35.4	2	1	1	1	2	10	C
		U-37	Othaya	80.0	1	35.5	3	35.4	2	1	1	1	2	11	C
		U-38	Kibiti	41.3	2	104.8	1	80.5	4	2	1	1	1	12	C
310	Kisumu	U-39	Makongo	-	2	0.0	4	80.5	4	1	1	1	1	14	B
		U-40	Mahindi	219.5	1	83.2	2	80.5	4	1	2	1	2	13	B
		U-41	Mamburi	66.7	1	76.1	2	80.5	4	1	1	1	2	12	C
		U-42	Mariakani	65.9	1	70.0	2	80.5	4	1	1	1	1	11	C
		U-43	Wajuru	183.1	1	0.0	4	80.5	4	1	1	1	1	13	B
		U-44	Kwale	69.9	1	121.9	1	100.0	4	2	1	2	2	13	B
320	Kwale	U-45	Lunga Lungu	16.1	2	84.5	2	100.0	4	1	1	2	1	13	B
		U-46	Msamwani	48.0	2	30.5	3	100.0	4	1	1	2	2	15	A
		U-47	Lamu	25.0	2	83.2	2	79.5	4	2	2	2	1	15	A
330	Lamu	U-49	Mekwele T.C	70.0	1	89.7	2	79.5	4	1	1	2	1	12	C
		U-54	Taveta	10.0	2	272.4	1	55.6	3	1	1	1	2	11	C
		U-55	Voi	422.9	1	101.5	1	55.6	3	1	1	1	2	10	C
350	Taita	U-56	Wundanyi	175.2	1	117.5	1	55.6	3	2	1	1	1	10	C
		U-58	Garden	100.0	1	0.0	4	78.2	4	1	1	2	2	15	A
		U-59	Haha	60.0	1	16.7	4	78.2	4	2	1	2	2	16	A
410	Embu	U-60	Embu	63.6	1	84.1	2	70.1	3	2	1	2	1	12	C
		U-61	Rumonge	95.2	1	22.9	4	70.1	3	1	1	2	1	13	C
		U-63	Isiolo	90.0	1	81.6	2	69.4	3	2	1	1	2	12	C
420	Isiolo	U-64	Modo Gache	-	2	0.0	4	69.4	3	1	1	1	1	13	B
		U-65	Meru	18.8	2	39.6	3	69.4	3	1	1	1	1	12	C
		U-68	Kitui	44.0	2	51.5	2	65.3	3	2	1	2	2	14	B
440	Masaku	U-69	Achi River	23.0	2	112.2	1	85.4	4	1	1	1	1	11	C
		U-71	Machakos	66.7	1	23.3	4	85.4	4	2	1	1	1	14	B
		U-74	Matuu	192.3	1	19.7	4	85.4	4	1	1	1	2	14	B
		U-77	Kangundo	47.4	2	16.5	4	85.4	4	1	1	1	2	15	A
		U-77	Tala	76.0	1	0.0	4	85.4	4	1	1	1	2	14	B
450	Marsabit	U-79	Kargi	105.2	1	15.3	4	62.1	3	1	1	1	2	13	B
		U-80	Ker	88.6	1	0.0	4	62.1	3	1	1	1	2	13	B
		U-82	Marsabit	70.5	1	5.3	4	62.1	3	2	2	1	2	15	A
		U-83	Messale	50.0	2	4.7	4	62.1	3	1	1	1	1	13	B
		U-84	Narib Huru	58.8	2	6.4	4	62.1	3	1	1	1	1	13	B
		U-85	Sulalo	65.8	1	2.5	4	62.1	3	1	1	1	1	12	C
460	Meru	U-86	Meru	19.2	2	214.7	1	54.9	3	2	1	2	2	13	B
		U-87	Nzuba	33.3	2	48.8	3	54.9	3	1	1	2	2	14	B
470	Nyamira	U-89	Matuu	29.6	2	50.3	2	54.9	3	2	1	2	1	13	B
480	Tharaka Nithi	U-90	Chaka	94.5	1	32.2	3	71.1	3	2	1	1	1	12	C
490	Maringi	U-91	Maringi	80.0	1	15.8	4	65.3	3	2	1	2	2	15	A
440	Makueni	U-93	Khwana	-	2	0.0	4	75.9	4	1	1	1	1	14	B
		U-98	Mtito Andaki	42.9	2	14.0	4	75.9	4	1	1	1	2	15	A
510	Garissa	U-104	Garissa	60.0	1	31.4	3	75.4	4	2	1	2	2	15	A
		U-105	Uthui	166.0	1	15.1	4	75.4	4	1	1	2	1	14	B
520	Mandera	U-108	Eburu	-	2	0.0	4	60.6	3	1	1	2	2	15	A
		U-109	Mandera	24.2	2	45.5	3	60.6	3	2	1	2	1	14	B
		U-110	Rhamo	58.0	2	13.6	4	60.6	3	1	1	2	2	15	A
530	Wajir	U-113	Bate	-	2	0.0	4	86.6	4	1	1	2	1	15	A
		U-114	Eldes	83.3	1	10.5	4	86.6	4	1	1	2	2	15	A
		U-116	Wajir	4.7	2	10.2	4	86.6	4	2	1	2	2	17	A
610	Gusii	U-117	Kesa	60.8	1	54.4	2	99.4	4	2	1	2	1	13	B
		U-119	Ahero	3.3	2	0.0	4	81.3	4	1	1	2	1	15	A
		U-120	Kisumu	180.0	1	35.3	3	81.3	4	2	1	2	2	13	A
		U-121	Maseno	630.4	1	106.6	1	81.3	4	1	1	2	2	12	C
620	Siaya	U-122	Muhoni	50.0	2	81.7	2	81.3	4	1	1	2	1	13	B
		U-123	Asira	-	2	0.0	4	82.7	4	1	1	1	1	14	B
U-125	Sira	55.7	1	45.5	3	82.7	4	2	1	1	1	14	B		

Table - 6.2.1 (2/2) Ranking of Urban Centres for Implementation of Urban Water Supply Development

Code	District	Code	Name of Urban Scheme	1) Service Ratio		2) Supply Conditions		3) Health Condition		4) Industry & Commerce	5) Tourism	6) Affordability	7) Cost Efficiency	Overall Ranking	
				%	Rank	Production Demand	Rank	G	Rank					Total Score	Rank
640	Homa Bay	U-129	Homa Bay	113.4	1	19.0	4	87.9	4	2	1	1	2	15	A
		U-130	Kumbo Bay	250.6	1	1.1	5	87.9	4	1	1	1	2	14	B
		U-131	Mbira	-	2	0.0	4	87.9	4	1	1	1	1	14	B
		U-132	Oyugis	397.6	1	1.8	4	87.9	4	1	1	1	2	14	B
		U-134	Awaka	-	2	0.0	4	72.5	3	1	1	2	1	14	B
650	Mogori	U-135	Kumbacha	42.2	2	5.4	4	72.5	3	1	1	2	1	14	B
		U-136	Mogori	23.2	2	24.3	4	72.5	3	2	1	2	1	15	A
		U-137	Nyabikaye	-	2	0.0	4	72.5	3	1	1	2	1	14	B
		U-138	Rongo	85.0	1	56.0	2	72.5	3	1	1	2	1	11	C
		U-139	Ken-ka	-	2	-	4	93.2	4	1	1	1	1	1	14
660	Nyamira	U-140	Nyamira	42.5	2	19.5	4	93.2	4	2	1	1	2	16	A
		U-141	Kajado	53.6	1	64.2	2	72.3	3	2	1	2	1	12	C
710	Kajiado	U-142	Mazak	100.0	1	97.2	2	72.3	3	1	1	2	2	12	C
		U-143	Namanga	37.5	2	54.0	2	72.3	3	1	1	2	1	12	C
		U-144	Ngong	13.2	2	142.7	1	72.3	3	1	1	2	1	11	C
		U-145	Lobokotok	182.6	1	51.3	2	72.3	3	1	1	2	2	12	C
		U-146	Ongata Longot	48.0	2	96.8	2	72.3	3	1	1	2	1	12	C
		U-148	Kenko	100.0	1	65.0	2	68.7	3	2	2	2	2	14	B
720	Kipigis	U-149	Kipkoton	7.5	2	22.9	4	68.7	3	1	1	2	1	14	B
		U-151	Londiani	22.2	2	30.3	3	68.7	3	1	1	2	1	13	B
		U-152	Sock	-	2	0.0	4	68.7	3	1	1	2	1	14	B
		U-153	Nanyuki	81.2	1	45.8	3	59.0	3	1	1	2	2	13	B
730	Lakipia	U-154	Romurui	88.9	1	0.0	4	59.0	3	1	1	2	1	13	B
		U-155	Ehurgon	20.0	2	45.9	3	47.4	2	1	1	1	1	11	C
740	Nakuru	U-156	Gilgil	100.0	1	66.8	2	47.4	2	1	1	1	1	9	C
		U-157	Mulo	33.3	2	54.5	2	47.4	2	1	1	1	1	10	C
		U-158	Naivasha	95.8	1	11.7	4	47.4	2	1	1	1	2	12	C
		U-159	Nakuru	64.1	1	95.0	2	47.4	2	2	2	1	2	12	C
		U-160	Njoro	25.0	2	31.5	3	47.4	2	1	1	1	1	11	C
		U-163	Nank	40.0	2	80.2	2	59.0	4	2	1	2	2	15	A
760	Trans Nzoua	U-164	Kirike	85.7	1	103.1	1	90.0	4	2	1	2	2	13	B
770	Uasin Gishu	U-165	Burnt Forest	26.2	2	200.6	1	86.6	4	1	1	2	1	12	C
		U-166	Eikwet	40.9	2	232.8	1	86.6	4	2	1	2	1	13	B
		U-167	Lomok	-	2	0.0	4	86.6	4	1	1	2	1	15	A
		U-169	Moy's Bridge	24.0	2	75.5	2	86.6	4	1	1	2	1	13	B
		U-170	Simat	-	2	0.0	4	86.6	4	1	1	2	1	15	A
		U-172	Turbo	53.3	1	88.9	2	86.6	4	1	1	2	1	12	C
790	Transmara	U-174	Kijoris	80.0	1	1.7	4	90.0	4	2	1	2	1	15	A
810	Baringo	U-178	Eldi Ravine	197.6	1	92.0	2	47.6	2	1	1	2	2	11	C
		U-179	Karumet	54.0	1	12.0	4	47.6	2	2	1	2	2	13	B
		U-180	Maj Maruri	20.0	2	35.9	3	47.6	2	1	1	2	1	12	C
		U-181	Margat	21.2	2	94.5	2	47.6	2	1	1	2	2	12	C
		U-182	Mogotio	33.3	2	102.6	1	47.6	2	1	1	2	1	10	C
		U-183	Iten	14.6	2	164.7	1	47.0	2	2	1	2	1	11	C
820	Elgeyo Marakwet	U-185	Kapsabet	55.0	2	110.8	1	84.6	4	2	1	1	1	12	C
840	Samburu	U-188	Maralal	15.2	2	178.8	1	89.1	4	2	1	1	1	12	C
		U-189	Wamba	100.0	1	13.4	4	89.1	4	1	1	1	2	13	B
		U-190	Kakuma T.C	66.7	1	8.8	4	76.1	4	1	1	1	2	14	B
850	Turkana	U-191	Kakokol	40.0	2	2.7	4	76.1	4	1	1	1	1	14	B
		U-194	Loibor	75.0	1	33.9	3	76.1	4	2	1	1	1	13	B
		U-195	Lokitang	40.0	2	4.0	4	76.1	4	1	1	1	1	14	B
		U-197	Kapenguria	84.6	1	33.0	3	92.3	4	2	1	2	1	14	B
860	West pokot	U-198	Makutano	80.0	1	37.0	3	92.3	4	1	1	2	1	13	B
		U-199	Bungoma	62.5	1	53.5	2	89.6	4	2	1	2	2	14	B
910	Bungoma	U-200	Cheptais	-	2	0.0	4	89.6	4	1	1	2	2	16	A
		U-202	Kimili	82.9	1	32.3	3	89.6	4	1	1	2	2	14	B
		U-203	Makindu	-	2	0.0	4	89.6	4	1	1	2	1	15	A
		U-205	Wahuye	76.9	1	31.3	3	89.6	4	1	1	2	2	14	B
		U-206	Busia	34.5	2	89.1	2	74.1	3	2	1	1	2	13	B
920	Busia	U-207	Malaba Town	-	2	0.0	4	74.1	3	1	1	1	1	13	B
		U-208	Nambale	35.2	2	89.1	2	74.1	3	1	1	1	1	13	C
		U-209	Batu	158.7	1	58.7	3	80.0	4	1	1	2	2	14	B
930	Kakamega	U-210	Kakamega	29.4	2	184.4	1	80.0	4	2	1	2	1	13	B
		U-211	Mumas	62.2	1	88.3	2	80.0	4	1	1	2	2	13	B
		U-213	Maseno/kuanda	95.8	1	12.8	4	93.2	4	1	1	2	2	15	A
940	Vihiga	U-214	Mbali	4.4	2	32.6	3	93.2	4	1	1	2	2	15	A
		U-215	Vihiga Makopa	80.0	1	3.9	4	93.2	4	2	1	2	2	16	A

Note: (1) Nairobi and Mombasa are excluded from the above evaluation.

(2) "-" implies urban centers which have sufficient production capacity. Therefore, they are excluded from evaluation.

Table - 6.2.2 Ranking of Districts for Implementation of Rural Water Supply Development

Province	Code	District	1) Served Ratio		2) Water Shortage		3) Health Condition		4) Tourism	5) Affordability	6) Cost Efficiency	Overall Ranking	
			%	Rank	Time Spent	Rank	%	Rank	Rank	Rank	Rank	Total Score	Rank
Nairobi	110	Nairobi	96.1	1	5.4	1	67.4	3	2	2	-	-	-
Central	210	Kiambu	60.1	2	23.5	1	56.3	3	1	2	2	11	C
	220	Kirinyaga	74.1	2	20.5	1	64.3	3	1	1	2	10	C
	230	Muranga	79.8	1	18.6	1	48.1	2	1	2	2	9	C
	240	Nyandarua	63.0	2	21.7	1	41.7	2	1	2	2	10	C
	250	Nyeri	61.1	2	17.2	1	35.4	2	1	1	2	9	C
Coast	310	Kilifi	67.2	2	52.7	3	80.5	4	2	1	2	14	A
	320	Kwale	46.5	3	60.5	3	100	4	1	2	2	15	A
	330	Lamu	60.7	2	19.7	1	9.5	4	2	2	1	12	B
	340	Mombasa	95.4	1	16.5	1	96.8	4	2	2	1	11	C
	350	Taita	62.1	2	21.5	1	55.6	3	1	1	2	10	C
	360	Tana River	24.1	4	52.3	3	78.2	4	1	2	2	16	A
Eastern	410	Embu	53.8	2	35.3	2	70.1	3	1	2	1	11	C
	420	Isiolo	73.9	2	20.6	1	69.4	3	1	1	1	9	C
	430	Kitui	47.8	4	74.4	3	66.3	3	1	2	2	15	A
	440	Masaku	38.9	3	35.3	2	85.4	4	1	1	1	12	B
	450	Marsait	96.1	1	100.0	4	62.1	3	2	1	2	13	B
	460	Meru	62.5	2	46.1	2	54.9	3	1	2	1	11	C
	470	Nyambene	36.8	3	0.0	1	54.9	3	1	2	1	11	C
	480	Tharaka Nith	33.7	3	29.0	2	71.1	3	1	1	1	11	C
	490	Nwingi	18.9	4	0.0	1	65.3	3	1	2	2	13	B
	4A0	Makueni	17.9	4	56.3	3	75.9	4	1	1	1	14	A
North-Eastern	510	Garissa	58.3	2	37.6	2	75.4	4	1	2	1	12	B
	520	Mandera	31.3	3	85.3	4	60.6	3	1	2	1	14	A
	530	Wajir	64.3	2	90.2	4	86.6	4	1	2	2	15	A
Nyanza	610	Gusii	31.3	3	34.1	2	99.4	4	1	2	1	13	B
	620	Kisumu	65.5	2	18.7	1	81.3	4	1	2	1	11	C
	630	Siaya	31.1	3	46.3	2	82.7	4	1	1	1	12	B
	640	Iloma Bay	26.0	3	43.7	2	87.9	4	1	1	2	13	B
	650	Migori	66.0	4	4.8	2	72.5	3	1	2	2	14	A
	660	Nyamira	43.0	3	38.8	2	93.2	4	1	1	2	13	B
Rift Valley	710	Kajiado	72.9	2	34.2	2	72.3	3	1	2	2	12	B
	720	Kipsigis	44.0	3	30.4	2	68.7	3	2	2	2	14	A
	730	Laikipia	29.3	3	25.2	2	59	3	1	2	1	12	B
	740	Nakuru	74.5	2	41.4	2	47.4	2	2	1	2	11	C
	750	Narok	26.0	3	47.4	2	99	4	1	2	2	14	A
	760	Trans Nzoia	39.6	3	15.7	1	90	4	1	2	1	12	B
	770	Uasin Gishu	58.4	2	0.0	1	86.6	4	1	2	2	12	B
	780	Bomet	29.6	3	36.4	2	45.5	2	1	2	1	11	C
	790	Transmara	11.0	4	0.0	1	99	4	1	2	2	14	A
	810	Baringo	53.3	2	50.8	3	47.6	2	1	2	2	12	B
	820	Elgeyo Marak	29.0	3	28.6	2	47	2	1	2	2	12	B
	830	Nandi	36.8	3	16.6	1	84.6	4	1	2	1	12	B
	840	Samburu	53.4	2	43.8	2	89.1	4	1	1	1	11	C
	850	Turkana	59.3	2	37.8	2	76.1	4	1	1	1	11	C
860	West Pokot	27.6	3	41.5	2	92.3	4	1	2	1	13	B	
Western	910	Bungoma	65.6	2	29.9	2	89.6	4	1	2	2	13	B
	920	Busia	66.6	2	6.8	2	74.1	3	1	1	2	11	C
	930	Kakamega	55.5	2	18.9	1	80	4	1	2	2	12	B
	940	Vihiga	60.5	2	39.0	2	93.2	4	1	2	2	13	B

- Note:1) Non-served ratio for each district is obtained from the 1996 Project Status Report and/or Welfare Monitoring Survey.
2) Water shortage is considered as a factor of total time spent to collect water by people. Data are obtained from WMS.
3)&4) Data on Health Condition and affordability of the households are results obtained from the Household Survey condition in the course of current Study.
5) Ranking is made according to
100% - 75% : 4 75% - 50% : 3
50% - 25% : 2 25% - 0% : 1

Table - 6.2.3 Ranking of Districts for Implementation of Livestock Water Supply Development

Province	Code	District	Livestock Unit	Score by Rainfall	Score by Livestock Unit	Total Score	Overall Ranking
Nairobi	110	Nairobi	24,458	2	1	3	C
Central	210	Kiambu	72,665	2	1	3	C
	220	Kirinyaga	43,086	2	1	3	C
	230	Muranga	77,446	2	1	3	C
	240	Nyandarua	127,762	2	1	3	C
	250	Nyeri	77,907	2	1	3	C
Coastal	310	Kilifi	48,567	2	1	3	C
	320	Kwale	111,693	2	1	3	C
	330	Lamu	18,367	2	1	3	C
	340	Mombasa	3,511	2	1	3	C
	350	Taita	23,603	3	1	4	B
	360	Tana River	235,333	3	1	4	B
Eastern	410	Embu	82,456	2	1	3	C
	420	Isiolo	18,780	3	1	4	B
	430	Kitui	224,872	3	1	4	B
	440	Masaku	172,023	2	1	3	C
	450	Marsabit	165,067	3	1	4	B
	460	Meru	85,138	2	1	3	C
	470	Nyambene	73,585	2	1	3	C
	480	Tharaka Nithi	88,740	2	1	3	C
	490	Mwingi	108,421	2	1	3	C
	4A0	Makueni	1,330,357	3	2	5	A
North-Eastern	510	Garissa	1,109,528	4	2	6	A
	520	Mandera	253,290	4	1	5	A
	530	Wajir	435,328	4	2	6	A
Nyanza	610	Gusii	136,732	1	1	2	C
	620	Kisumu	181,744	2	1	3	C
	630	Siaya	195,656	2	1	3	C
	640	Homa Bay	109,801	2	1	3	C
	650	Migori	66,101	2	1	3	C
	660	Nyamira	122,243	2	1	3	C
Rift Valley	710	Kajiado	461,684	2	2	4	B
	720	Kipsigis	104,957	1	1	2	C
	730	Laikipia	123,066	3	1	4	B
	740	Nakuru	1,109,094	2	2	4	B
	750	Narok	261,903	4	1	5	A
	760	Trans Nzoia	59,100	2	1	3	C
	770	Uasin Gishu	163,801	3	1	4	B
	780	Bomet	186,004	2	1	3	C
	790	Transmara	98,484	2	1	3	C
	810	Baringo	734,187	3	2	5	A
	820	Elgeyo Marakwet	39,128	2	1	3	C
	830	Nandi	163,190	2	1	3	C
	840	Samburu	196,019	2	1	3	C
	850	Turkana	135,419	3	1	4	B
860	West Pokot	191,305	3	1	4	B	
Western	910	Bungoma	134,429	2	1	3	C
	920	Busia	83,064	2	1	3	C
	930	Kakamega	196,664	1	1	2	C
	940	Vihiga	84,390	1	1	2	C
TOTAL			10,350,151				

Source: The Aftercare Study Team

Table - 7.1.1 Technical Efficiency Evaluation

Code	District	Code	Name of Urban Scheme	Water Undertaker	Metered Connection		Operation		Chlorine Dosage		Overall Technical Evaluation
					%	Evaluation	Operation Hour (h)	Evaluation	Daily or not	Evaluation	
210	Kiambu	U-3	Karuri	Municipal Council of Karuri		3	24	1		2	6
		U-46	Msambweni	MWR		3	13	3	daily	1	7
330	Lamu	U-47	Lamu	MWR		3	15	3		2	8
360	Tana River	U-58	Garsen	MWR		3		3	Daily	1	7
		U-59	Hola	MWR		3	8	3	Daily	1	7
	Masaku	U-77	Kangundo	Kangundo-Tala Town Council	72%	2	15	3	Daily	1	6
		U-82	Marsabit	MWR	95%	1	18	2	Daily	1	4
490	Mwingi	U-91	Mwingi	MWR	6%	3		3	Twice a week	2	8
500	Makueni	U-98	Mtito Andei	MWR	94%	1	24	1		2	4
510	Garissa	U-104	Garissa	MWR	33%	3		3	Daily	1	7
520	Mandera	U-110	Rhamu	Local Community		3		3	Daily	1	7
530	Wajir	U-113	Bute	MWR		3	18	2		2	7
		U-114	Eldas	MWR		3	18	2		2	7
		U-116	Wajir	MWR		3		3	Daily	1	7
620	Kisumu	U-119	Ahero	Ahero Catholic Church		3		3		2	8
		U-120	Kisumu	Kisumu Municipal Council	97%	1	24	1	Daily	1	3
640	Homa Bay	U-129	Homa Bay	MWR	99%	1	16	2	Daily	1	4
650	Migori	U-136	Migori	MWR	54%	3		3	Daily	1	7
710	Kajiado	U-141	Kajiado	NWCPC	32%	3		3	Daily	1	7
750	Narok	U-163	Narok	Narok Municipal Council	89%	1	24	1	Daily	1	3
790	Transmara	U-174	Kilgoris	MWR		3	16	2	Daily	1	6
910	Bungoma	U-200	Cheptais	MWR		3		3	0	2	8
940	Vihiga	U-213	Maseno/Luanda	MWR	43%	3		3	0	2	8
		U-214	Mbale			3	18	2		2	7
		U-215	Vihiga Majengo	MWR	76%	1	12	3	0	2	6

Note: Nairobi and Mombasa are excluded from the above evaluation.

Source: The Aftercare Study Team

Table - 7.2.1 Priority Project Assessment for Urban Water Supply Development

Code	District	Code	Urban Centre	1995 Population	Studies to Date	Operational Body	Status of On-going Project	Production Capacity of the Existing Schemes	Production Capacity to be Expanded	Proposed Water Source	Environ. Impact	Overall Assessment
210	Kiambu	U - 3	Karuri	13,716	design	Municipal Council	No funding identified for expansion	624	4,025	-	none	B
320	Kwale	U - 46	Msanbweni	7,247	none	MWR	No funding identified for expansion	624	5,233	Msanbweni Dam	none	A
360	Tana River	U - 58	Garsen	4,232	design	MWR	No funding identified for expansion	100	4,329	Tana River	none	B
		U - 59	Hela	12,853	design	MWR	No funding identified for expansion	228	3,756	Tana River	none	B
440	Masaku	U - 77	Tala-Kangundo	14,656	none	Town Council	No funding identified for expansion	441	7,050	Borehole	none	A
490	Mwingi	U - 91	Mwingi	5,469	none	MWR	Kiambere Water Supply by TARDA will serve in 1999	300	4,829	Tana River	none	C
4A0	Makueni	U - 108	Mtito Andei	4,938	none	MWR	No funding identified for expansion	3,000	3,748	Borehole	none	B
520	Mandera	U - 108	Elwak	8,087	under construction	Community	ongoing	0	1,869	Borehole	none	B
		U - 110	Rhamu	5,144	under construction	Community	ongoing	140	4,027	Borehole	none	B
530	Wajir	U - 113	Bute	2,543	none	MWR	No funding identified for expansion	202	573	Borehole	none	C
		U - 114	Eldas	2,242	none	MWR	No funding identified for expansion	65	1,652	Borehole	none	B
		U - 116	Wajir	26,239	none	MWR	No funding identified for expansion	48	9,104	Borehole	none	A
620	Kisumu	U - 119	Ahero	11,661	none	MWR	No funding identified for expansion	23	102	Borehole	none	C
		U - 120	Kisumu	231,327	F/S by JICA	Municipal Council	JICA study completed F/S. No funding identified for next stage	14,565	60,750	Victoria Lake, Awach river, Sonda & Kibets river	none	A
640	Homa Bay	U - 129	Homa Bay	30,995	none	MWR	No funding identified for expansion	1,500	12,024	Boreholes	none	A
650	Migori	U - 136	Migori	14,913	design	MWR	No funding identified for expansion	960	1,361	River Borehole	none	B
660	Nyamira	U - 140	Nyamira-Kebirigo	7,130	design	MWR	No funding identified for expansion	466	4,763	Boreholes	none	B
750	Narok	U - 163	Narok	19,859	none	Municipal Council	No funding identified for expansion	1,315	9,558	Boreholes	none	A
770	Uasin Gishu	U - 167	Lemok	4,405	none	none	No funding identified for expansion	0	1,627	-	none	B
		U - 170	Simat	7,717	none	none	No funding identified for expansion	0	3,015	-	none	B
790	Transmara	U - 174	Kilgoris	7,665	none	MWR	No funding identified for expansion	864	3,022	-	none	B
910	Bungoma	U - 203	Mawalie-Malakisi	3,119	none	MWR	No funding identified for expansion	0	1,215	River	none	B
940	Vihiga	U - 213	Luanda	4,246	none	MWR	No funding identified for expansion	1,192	23,571	-	none	A
		U - 214	Mbale	3,672	design	MWR	No funding identified for expansion	960	6,281	-	none	A
		U - 215	Vihiga Majengo	5,274	design	MWR	No funding identified for expansion	63	4,281	-	none	B

Note: "Production capacity to be expanded" implies water deficit to be expected in 2010 after completion of the ongoing project (under construction). It is assumed that the urban center with the required capacity more than 5,000m³/day considered urgent.

Source: The Aftercare Study Team

Table - 7.2.2 Project Assessment for Rural Water Supply

Province	District	1995 Population Served by RWS	1995 Non-served (x 1,000)	Production Deficit in 2010 (m ³ /day)	Overall Assessment
Coastal	Kilifi	300	240	14,018	A
	Kwale	203	252	12,333	A
	Tana River	22	126	974	B
Eastern	Kitui	76	401	5,112	B
	Makueni	145	732	7,892	B
North-eastern	Mandera	54	153	6,358	B
	Wajir	145	63	1,635	B
Nyanza	Migori	29	580	19,571	A
Rift Valley	Kipsigis	209	348	21,151	A
	Narok	77	253	15,941	A
	Transmara	13	164	10,641	A

Note: Non-served population more than 100,000 and production deficit more than 5,000 m³/day are considered to have higher priority.