#### 3.3.3 Labor Plan

			-			Unit: man
	Total Po	pulation	Av	ailable Labo	r in Rural Ar	rea
	(1991)	(2007)		(1991)		(2007)
			Male	Female	TOTAL	TOTAL
Luwero	449,691	715,000	59,625	53,844	113,469	180,060
Bamunanika	108,098	176,000	14,333	12,943	27,276	44,409
Buruli	100,497	146,000	14,325	13,033	27,358	39,745
Katikamu	147,292	240,000	18,530	16,636	35,166	57,300
Nakaseke	93,804	153,000	12,438	11,232	23,669	38,600
Masaka	845,736	1,367,000	107,426	101,265	208,691	337,310
Bukoto	416,120	678,000	52,856	49,824	102,680	167,301
Bukomansimbi	126,549	206,000	16,074	15,152	31,227	50,832
Kalungu	152,028	248,000	19,311	18,203	37,514	61,190
Lwemiyaga	21,127	35,000	2,684	2,530	5,213	8,636
Mawoggola	129,912	200,000	16,502	15,555	32,057	49,351
Mpigi	913,831	1,490,000	86,074	109,418	195,492	318,749
Busiro	298,187	486,000	28,086	35,704	63,790	103,968
Butambala	74,062	121,000	6,976	8,868	15,844	25,885
Gomba	119,550	195,000	11,260	14,314	25,575	41,716
Kyadondo	264,664	431,000	24,929	31,690	56,618	92,202
Mawokota	157,368	257,000	14,823	18,843	33,665	54,979
Mukono	824,602	1,343,000	101,395	98,734	200,129	325,940
Bbale	85,345	139,000	10,494	10,219	20,713	33,735
Buikwe	250,511	408,000	30,803	29,995	60,798	99,02
Buvuma	18,482	30,000	2,773	2,713	5,486	8,904
Mukono	181,695	296,000	22,342	21,755	44,097	71,839
Nakifuma	137,737	224,000	16,436	15,992	32,428	52,73
Ntenjeru	150,832	246,000	18,547	18,060	36,607	59,704
Total	3,033,860	4,915,000	354,520	363,261	717,781	1,162,06

### Table A3.3.3.1 Available Labor in Rural Area by County

Source : Population and Housing Census (1991)

Note : Population in 2007 is the trend with annual increase rate 3.1%.

Available Labor is of people with age of 15 years and above.

							Unit : man
	Availabl	e Labor	Requi	rement	Surplus	Labor for	Outflow to
			Regular	Peak		Processing	City work
	(1991)	(2007)	(2007)	(2007)	(2007)	(2007)	(2007)
	a	b	с	d	b-d=e	f	e-f=g
Luwero	113,469	180,060	119,869	151,100	28,960	28,960	. 0
Bamunanika	27,276	44,409	33,928	40,800	3,609	3,609	0
Buruli	27,358	39,745	25,466	36,900	2,845	2,845	0
Katikamu	35,166	57,300	33,083	40,500	16,800	.16,800	0
Nakaseke	23,669	38,606	27,392	32,900	5,706	5,706	······································
Masaka	208,691	337,316	145,453	159,400	177,916	46,230	131,685
Bukoto	102,680	167,301	61,003	64,900	102,401	22,818	79,583
Bukomansimbi	31,227	50,832	30,536	34,100	16,732	9,830	6,902
Kalungu	.37,514	61,196	23,299	26,300	34,896	5,554	29,342
Lwemiyaga	5,213	8,636	7,000	7,800	836	836	0
Mawoggola	32,057	49,351	23,615	26,300	23,051	7,192	
Mpigi	195,492	318,749	128,752	150,200	168,549	40,832	
Busiro	63,790	103,968	34,611	39,800	64,168	18,498	
Butambala	15,844	25,885	15,311	18,500	7,385	4,765	2,620
Gomba	25,575	41,716	18,309	22,300	19,416	3,142	16,274
Kyadondo	56,618	92,202	29,767	34,300	57,902	6,113	51,789
Mawokota	33,665	54,979	30,754	35,300	19,679		•·
Mukono	200,129	325,940	133,966	188,600	137,340	81,766	
Bbale	20,713	33,735	11,504	15,000	18,735	6,441	12,294
Buikwe	60,798	99,021	28,034	60,600	38,421	14,107	24,314
Buvuma	5,486	8,904	5,640	7,700	1,204	1,204	0
Mukono	44,097	71,839	33,461	38,700	33,139		1
Nakifuma	32,428	52,738	25,044	30,100	22,638		
Ntenjeru	36,607	59,704	30,283	36,500	23,204	18,832	**************************************
	717,781	1,162,066	528,040	649,300	512,766	197,789	314,977

Table A3.3.3.2	Rural Labor Use Plan by County

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Table A3.3.3.3 Balance of Labor by County

County	Item						Unit: Man D						
Bamunanika		Jan.	Feb.	Mar.	Jun.	May	Jun.	ોથે.	Aug.	Sep.	oct.	Nov.	Dec.
Danunaniska	Required Labors	35,703	33,534	32,776	30,858	31,642	30,640	35,310	32,709	26,714	21,688	26,848	33,97
	Available Labors	44,409	44,409	44,409	44,409	44,409	44,409	44.409	44,409	44,409	44,409	44,409	44,40
	Balance of Labors	8,706	10,875	11.633	13,551	12,767	13,769	9,099	11,700	17,695	22,721	17,561	10,43
Buruli									20.600	01 (70			
	Required Labors	25,834	23,093	25,869	27,596	28,004	31,331	36,206	29,502	25,670 39,745	20,151 39,745	22,540 39,745	28,80
	Available Labors Balance of Labors	39,745	39.745 16.652	39,745 13,876	39,745	11,741	39,743	39,745	10,243	14,075	19,594	17,205	10,93
Katikamu	Datance of Excortz		10.052	13,870	12,145	11,747	0,414	5,539	10,245	14,010	17,574		10,75
•••••	Required Labours	33.988	32,175	31,202	29,729	30.104	29,350	34,163	31,557	25,454	20,295	24,225	31,73
	Available Labours	57,300	57,300	\$7,300	57,300	57,300	57,300	57,300	57,300	57,300	57,300	57,300	57.30
	Balance of Labours	23,312	25,125	26,098	27,571	27,196	27,950	23,137	25,743	31,846	37,005	33,075	25,56
Nakaseke											10,000		
	Required Labors	28,864	27,000	28.312	27,962	28,016	28,042	31,248	28,914	25,162 38,606	19,792	23,360	29,04 38,60
	Available Labors Balance of Labors	38,606	38.606	38.606	38,606	38,606	38.606	38,606	38,606 9,692	13,444	18,814	15,246	9.55
Bukoto	Datance of Labors	9,142		10,294	10,014	10,570	10.504	1.000	,,,,,			10,210	
	Required Labors	56,465	55,899	60.745	56,940	55,207	\$1,527	55.655	55,318	47,471	39,225	47,729	56,44
	Available Labors	167,301	167.301	167,301	167.301	167,301	167,301	167,301	167,301	167,301	167,301	167,301	167,30
	Balance of Labors	110.836	111,402	106.556	110,361	112,094	115,774	111,646	111,983	119,830	128,076	119,572	110.85
Bukoman-													
	Required Labors	28.469	28,480	29,220	27,833	27,643	25.591	25,954	27,012	23,907	20,225	22,913	27.43
	Available Labors Balance of Labors	50,832 22,363	50.832 22.352	50,832 21,612	50,832 22,999	50,832 23,189	50.832 25,241	50,832 24,878	50,832 23,820	50,832 26,925	50,832 30,607	50,832 27,919	23,39
Kalungu	parance of tanois	22,303	ددو.شت	21,012		109،109		+4,0/ð	V20,02	C-20,00	30,007		~
	Required Labors	23,188	22.666	23,700	23,204	22,458	20,749	20,902	21,777	19.831	16,259	18,140	22.05
	Available Labors	61.196	61.196		61,196	61,196	61.196	61,196	61,196	61,196	61,196	61,196	61,19
	Balance of Labors	38.008	38.530		37,992	38.738	40,447	40.294	39,419	41,365	44.937	43,056	39,14
Lwemiyaga													
	Required Labors	7,312	7,153	7,770		7,529	7.958	7,548	7,388	6,670	5,523	6,508	7.92
	Available Labors	8.636	8.636 1.483	8,636	8.636 982	8.636 1.107	8,636 678	8,636 1,088	8,636 1,248	8,636 1,966	8,636 3,113	8,636	8,630
Mawagola	Balance of Labors	1.5.4	1.46.5	005	902	1.107	076	1,000	1,240	1,900	3.113	2,120	/1.
Nawagula	Required Labors	23.201	22.609	24.248	22.963	23,162	22,294	22,370	22,249	19,793	17,187	21,112	23.911
	Available Labors	49.351	49.351	49,351	49.351	49.351	49.351	49,351	49,351	49,351	49,351	49,351	49,351
	Balance of Labors	26.150	26,742	25.103	26,388	26,189	27.057	26,981	27,102	29,558	32,164	28:239	25,440
Busiro													
	Required Labors	34.647	30.809	32.698	30,945	31,732	32.543	34,283	31,723	28,512	21,695	25.611	32,470
	Available Labors	103.968	103.968	103.968	103.968	103.968	103.968	103,968	103.968	103,968	103,968	103,968	103.968
	Balance of Labors	69.321	73.159	71.270	73.023	72.236	71,425	69.685	72,245	75,456	82,273	78.357	71,498
Bulambara	Designed Laboration	15.659	12.900	14,196	13.828	13.961	14,779	15,908	14.426	12,703	8,670	9,686	14,028
	Required Labors Available Labors	25,885	25.885	25,885	25.885	25.885	25.885	25.885	25,885	25,885	25,885	25,885	25.88
	Balance of Labors	10.226	12.985	11.689	12.057	11.924	11.106	9.977	11,459	13.182	17.215	16.199	11,85
Gomba	Durance of Eartons												
	Required Labors	21.871	18.029	18.873	18.766	19.560	20,558	21.580	19.512	17.624	12.871	14,590	20.23
	Available Labors	41,716	41,716	41.716	41,716	41.716	41,716	41,716	41.716	41.716	41,716	41,716	41,710
	Balance of Labors	19.845	23.687	22,843	22.950	22.156	21.158	20.136	22,204	24,092	28,845	27,126	21.479
Kyadondo			26.000	26.031	24 (1)	26.641	27,194	20.226	26,144	23.357	17,470	21,000	27,113
	Required Labors	29.053 92.202	25,289 92,202	26.931 92.202	25.671 92.202	26.561 92.202	92.202	28,325 92,202	20,144	92.202	92.202	92,202	92,201
	Available Labors Balance of Labors	63.149	66.913	65.271	66.531	65,641	65.008	63,877	66.058	68.845	74,732	71,202	65,08
Mawokola	Dilance of Editors	V	00.710										
	Required Labors	29.629	25.652	28.015	26.137	27.121	27.983	28,924	26,708	24,450	18,033	21,242	27,450
	Available Labors	54.979	54,979	54.979	54.979	54.979	54.979	54,979	54,979	54,979	54.979	54.979	54.979
	Balance of Labors	25,350	29.327	26.964	28,842	27,858	26.996	26,055	28.271	30,529	36,946	33,737	27,529
BBaale							13 (00	1.62	10.035	10.227		10.00	12.00
	Required Labors Available Labors	13.876	12,037	12.233	11,418 33,735	12.620	13.588	14,844	12,837 33,735	10,327 33,735	8,163	10,550 33,735	13.922 33,73
	Balance of Labors	19.859	33,735 21,698	33,735 21,502	22,317	21.115	20,147	18.891	20,898	23,408		23.185	19.81
Buikwe	- autor of Eurola			~					_0,050				
	Required Labors	24.258	22.243	25.048	27,284	26.413	21.092	51.266	29,291	22,493	16.898	19,430	22.874
	Available Labors	99.021	99.021	99,021	99.021	99.021	99.021	99.021	99.021	99.021	99.021	99.021	99.02
	Balance of Labors	74,763	76.778	73.973	71,737	72.608	77,929	47.755	69,730	76,528	82.123	79,591	76.147
Buvuma													
	Required Labors	6.557	5.199	4.423	4.613	5.251	4.993	4.808	4,675		3,422		5,760
	Available Labors	8.904	8,904	8.904	8.904	8,904	8.904 3.911	8.904	8.904 4.229	8.904 3.967	8,904 5,482	8,904 5,194	8,904
Mukone	Balance of Labors	2.347	3.705	4.481	4.291	3.653	3.911	4.096	4.229	5,907	5,403	5,194	3.144
MONORC	Required Labors	33.618	32,095	33.357	27.714	29,725	27.427	32,522	30,168	23,045	20,457	28.723	32.228
	Available Labors	71,839	71.839	71,839		71.839	71,839	71,839	71,839	71,839		71.839	71.839
	Balance of Labors	38,221	39,744	38.482	44,125	42.114	44.412	39,317	41.671	48.794	51.382	43.116	39.61
Nakifuma													
	Required Labors	25,420	22.158	23.952	20.706	21.957	21.722	25.332	21.747	20,195	15,266	20,629	24.450
	Available Labors	52,738	52,738	52,738	52,738	52.738	52.738	\$2,738	52,738	52,738	52,738		52.738
Number	Balance of Labors	27,318	30,580	28,786	32.032	30,781	31,016	27,406	30,991	32,543	37,472	32.109	28,288
Nienjeru	Baunitard Labora	30.926	27,222	29.333	24.123	26,126	25,472	29.187	26,535	20,083	15,989	25.097	29,754
	Required Labors Available Labors	30.926 59,704	59.704	59.704	59,704	<u> </u>	25,472 59,704	29.187	26,335	59,704	59.704	59,704	59.704
	Balance of Labors	28.778	32.482	30,371	35,581	33,578	34,232	30,517	33,169	39.621	43,715	34,607	29,950
Total		_ 01770											
	Required Labors	528,538	486.242	512.901	485.944	494.792	484,8.14	556.334	500.192	428.397	3,39,281	413.642	511.621
	Available Labors	1.162.067	1.162.067	1.162.067	1,162.067	1.162.067	1,162,067	1.162.067	1.162.067	1.162,067	1.162.067	1,162,067	1.162.067
	Balance of Labors	633,529	675.825	649.166	676.123	667,275	677,233	605,733	661.875	733.670	822.786	748,425	650,446

							Unit : man
	Jaggary	Tea(Dry)	Cacao	Vanilla	Bananas	Cassava	Pineapples
Bamunanika	11,271	0	0	7,837	1,639	2,782	5,561
Buruli	3,895	0	0	0	1,618	1,304	0
Katikamu	3,951	0	0	7,849	1,641	2,174	5,569
Nakaseke	3,434	0	0	2,047	1,427	2,434	4,841
Bukoto	4,473	25	1,036	4,443	1,858	3,877	6,305
Bukoman-	1,600	15	618	3,179	665	1,067	2,256
Kalungu	763	7	295	1,516	317	1,208	1,075
Lwemiyaga	444	0	0	265	184	546	626
Mawagola	1,538	0	.0	917	639	1,759	2,168
Busiro	2,683	51	2,071	5,330	1,115	2,558	3,782
Butambara	612	12	473	1,216	254	682	863
Gomba	414	2	96	411	172	938	583
Kyadondo	590	11	455	1,171	245	2,045	831
Mawokota	1,237	12	478	1,229	514	2,301	1,744
BBaale	1,658	9	384	988	689	371	2,337
Buikwe	2,463	47	1,902	4,893	1,023	251	3,472
Buvuma	463	9	357	919	192	112	652
Mukono	2,981	56	2,302	5,922	1,238	1,776	4,202
Nakifuma	3,606	68	2,784	7,164	1,498	2,318	5,083
Ntenjeru	2,860	54	2,208	5,682	1,188	2,742	4,032
Total	50,935	379	15,458	62,976	18,116	33,245	55,982

Table A3.3.3.4 Required Labor for Agricultural Processing by County

	Tomatoes	Milk	Beef/Goat		Total	Rural	Urban
Bamunanika	198	12	3		29,303	3,609	25,694
Buruli	45	183	13		7,059	2,845	4,214
Katikamu	406	0	3		21,593	16,800	4,793
Nakaseke	253	165	13		14,614	5,706	8,908
Bukoto	806	0	4		22,828	22,828	0
Bukoman-	430	0	1		9,830	9,830	0
Kalungu	371	0	3		5,554	5,554	0
Lwemiyaga	81	31	2		2,179	836	1,343
Mawagola	140	28	. 4		7,192	7,192	0
Busiro	908	0	1		18,498	18,498	0
Butambara	654	0	1		4,765	4,765	0
Gomba	509	12	5		3,142	3,142	0
Kyadondo	763	0	1		6,113	6,113	0
Mawokota	799	0	1		8,314	8,314	0
BBaale	1	0	5		6,441	6,441	0
Buikwe	53	0	2		14,107	14,107	0
Buvuma	0	0	0		2,704	1,204	1,500
Mukono	95	0	1		18,572	18,572	0
Nakifuma	87	0	1		22,610	22,610	0
Ntenjeru	65	0	0		18,832	18,832	0
Total	6,662	431	64	0	244,249	197,798	46,451

### 3.3.4 Requirement of Farmland Improvement and Reclamation

										Unit : ha
		Bamuna-	Buruli	Katikamu	Nakaseke	Bukoto	Bukoman-	Kalungu	Lwemiyaga	Mawagola
		nika					sibi			
Improver	ncht	2,897	297	2,856	1,468	5,929	2,534	1,869	275	1,548
1)	By Individual Farmers	2,608	267	2,570	1,321	5,336	2,281	1,683	248	1,394
2)	By Groups	290	30	286	147	593	253	187	28	155
Reclamat	tion	15,372	16,277	16,277	15,372	0	0	0	1,808	0
3)	By Individual Farmers	13,835	14,649	14,649	13,835	0	0	0	1,627	0
4)	By Groups	1,537	1,628	1,628	1,537	0	0	0	181	0
F	Paddy Field Dev.	77	0	222	252	832	648	193	C	126
5)	By Groups	77	0	222	252	832	648	193	C	126
Small Sc	ale Irrigation	157	40	224	140	412	205	220	46	78
	(by Groups)								ļ	Į
6)	Under Impr. area	67	31	96	80	412	205	220	32	78
7)	Under Recl. area	90	8	128	60	0	0	0	14	0

# Table A3.3.4.1 Farmland Improvement and Reclamation Plan

(Conti.)												
	Busiro	Butambara	Gomba	Kyadondo	Mawokota	BBaalc	Buikwe	Buvuma	Mukono	Nakifuma	Ntenjeru	Total
Imp.	2,234	1,144	1,049	1,972	2,151	1,106	1,908	0	4,873	2,155	4,733	43,000
1)	2,010	1,030	944	1,775	1,936	995	1,717	0	4,386	1,939	4,260	38,700
2)	223	114	105	197	215	111	191	0	487	215	473	4,300
Rec.	7,234	0	3,617	2,713	0	4,521	0	1,808	0	0	0	85,000
3)	6,511	0	3,255	2,442	0	4,069	0	1,627	0	0	Ó	76,500
4)	723	0	362	271	0	452	0	181	0	0	0	8,500
Wetland	687	193	0	435	1,064	0	242	0	339	77	2	5,390
										j .		
5)	687	193	0	435	1,064	0	242	0	339	77	2	5,390
Irrigation	210	149	115	173	180	17	22	18	35	31	27	2,500
6)	42	149	29	38	180	12	22	13	35	31	27	1,800
7)	168	0	86	135	- 0	- 6	0	6	0	0	0	700

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Appendix 3.4 Livestock Plan

3.4.1 Livestock Production

Table A3.4.1.1 Livestock Production and Consumption

(1) Beef, Milk

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		Demand	and			Dairy Cattle					Bool Cattle	9	·	Total	الله الله الله الله الله الله الله الله	Balance	36
Counties	Fopulation (2007)	Beef	Milk		Head	Cow	Production	tion		Head	_ Co⊮ _	Production	-lion	Bcct 1 N	Milk	Beef 1	Milk
	,	ton	20	0	Head	41.8%	Bcel	UIK .	Inc Ratio	Hcad	34.6%	Bcci'	Mälk	ton	ton	ton	ton
uwero	733,000	3,826.3	21,161.7	ŀ	5,348	2,236	236.8	6,171.4	╞	532,359	184,195	15,244.6	58,279.6	15,481.4	64,451.0	11.655.11	43,289.3
Buruń	163,459	853.3	4,719.1	3.1	3,531	1,476	156.3	4,073.8	1.4	214,992	74,387	6,156.5	23.536.1	6,312.8	27,609.9	5,459.5	22.890.8
Katikamu	240.424	1,255.0	6,941.0	3.1	375	157	16.6	433.3	2.7	43,975	15,215	1,259.3	4,814.3	1,275.9		20.9	-1 693 4
Vakaseke	153,197	1.667	4,422.8	3.1	856	358	37.9	988.1	5.9	219,645	75.997	6,289.8	24,045.5	6,327.7	25,033.6	5,528.0	20,610.8
Wabusana	175,920	918.3	5,078.8	3.1	586	245	26.0	676.2	2.1	53.747	18,596	1,539.0	5,883.7	1,565.0	6.559.9	646.7	1,481.1
Macaba	1 267 000	7 125 8	20 465 2	╞	3,640	1 575	141 <	1 211 2 1	1	010 992	07 215	7 640 2	1 000 00	V 274. L	A 171 CS	5005	< 001 0
Bukomansihi	206 417			1	254	199	1010	702 6	-	112.50	8 204	679.01	2 505 2	6 009	7 888 4	387.31	2 070 0
Bukoto	597,379		17,246.3	3.1	818	342	36.2	943.9		76,402	26,435	2.187.8	8,364,3	ļ	9.308.2	543	-7.938.1
calungu	247,427	Γ		3.1	536	224	23.7	618.2	=	50,057	17,320	1,433.5		1,457.2	6,098.2	165.6	-1.045.0
Lwemiyaga	34,175				397	166	17.6	458.2	1.2	40.237	13,922	1,152.2	4,404.7	1,169.8	4,862.9	991.4	3,876.3
Mawogola	200,949		Ċ	3.1	822	344	36.4	949.4	1.1	76,403	26,435	2,187.8	8.364.3	2,224.2	9,313.7	1,175.2	3,512.3
Masaka M.	80,653	421.0	2,328.5	1.	822	344	36.4	949.4	0							-421.0	-2,328.5
	1 100 000	0	12 016 1		0100	001 1	124.6	710711		071 701	120 CF	2 554 ()	12 COD 5 1	2 000 5	0 110 10	2 700 4	10 101 4
Entebbe M	70.020	242	2 100 6	4	105	2011. 201	12-4-C+	2725,11	ſ	2 151 2 151	144	121-00-0	2726101	Į		7.001.0	1 460 (
Busiro	415.710	2.170.0	12 001 5		784	328	34.8	905.3	1.8	15,491	5.360	443.6	16569.1		6	1.691.6	9 400 3
Bulanbara	120,690		3,484.3	3.1	784	328	34.8	905.3	F	9,467	3,276	271.1				-324.1	-1.542.6
Gomba	195,190	1,018.9	5,635.1	3.1	6,479	2,708	286.7	7,474.1	1.1	760,87	27,022	2,236.4	8,549.6	~	16,023.7	1,504.2	10,388.6
Kyadondo	432,100		12,474.7	3.1	784	328	34.8	905.3		9,467	3,276	271.1	1.036.4	305.9		-1,949.7	-10.533.0
Mawokota	256,280	1,337.8		3.1	784	328	34.8	905.3	1.1	9.467	3,276	271.1	1,036.4		1,941.7	-1.031.9	-5,457.1
							Ŀ÷		<u> </u>								
Mukono	1,343,000	7	38,772.4		13,561	7,758	821.1	21,412.1	Π	128,625	44.504	3.683.5	<b>[</b> →			-2,505.8	-3,279.2
Bbale	139,672		4,032.3		4,455	1,862	197.1	5,139.1	4	72,296	25,014	2.070.3				1,538.3	9,021.3
Buikwe	408,272	5	11,786.8		6,495	2,715	287.3	7,493.4		26.357	9,120	754.8	2,885.6	1,0	10.379.0	-1.089.1	-1,407.8
Buvuma	29,546		853.0	3.1	741	310	32.8	855.6	0.7	2,108	624	60.4	230.5			-61.0	
Mukono	295,460		8,529.9	3.1	3,711	1,551	164.2	4,280.8	-	15,061	5,211	431.3	1,648.9			-946.8	
Nakifuma	224,281	1,170.7	6,475.0	3.1	1,857	176	82.1	2,141.8	1	1531	2,606	215.7	824.4			-872.9	-3.508.8
Ntenjeru	245,769	1,282.9	7,095.4	3.1	1,302	544	57.6	1,501.4	-1	5,272	1,824	151.0	577.2	208.6	2,078.6	-1,074.3	-5,016.8
Total	4,933,000	25,750.4	142,415,6		37,368	15,622	1,654.0	43,116.8		1.051,934	363,969	30.123.3	115,160.0	31,740.9	157,327.4	5,990.5	14,911.8
Kampala	1,261,935	9,918,8	73,482.5														
				1													
Ratio to				F													
escnt	1.63	2.072	2.047		3.169	3.127	3.751	3.127		1.606	1.455	1.967	1.836	2.015	2.056	1.8	2.148

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(2) Goat m	(2) Goat meet, Mutton, Pork, Chicken, Egg	n, Pork, (	Chicken	1, Egg																	
	Population		Demand					Goats & Sheep	dəə			રુશ્વે			104	Poultry			Balance	3	
Counties	(2007)	Goat Meat	Pork	Chicken	Egg			Head		PRODUCT.	Н	Head IN	Production	ľ	Head	Production	tion	Goat Meat	Pork	Chicken	Egg
		+Mutton ton	tot	tot	ton	lnc ton Ratio	Goat Head	Sheep Head	Goat+ Sheen	Meat	Inc Inc Inc	Head	Pork	\$	Head	Chicken ton	Egg Ion	+Mution ton	no	ton	qo
Luwero	733,000	T	1,840	1,408	741		322,368	22,816	345,184	1.696		55,796	2,510		1,209,952	1.852	696	486	670	4	228
Burní	163,459		410	314	165	7.36	171,503	12,137	183,640		1.48	18,245	821	1_	470.670	720	377	. 632	411		
Kaukamu	240,424	•	603	462	243	7.36	39,648	2,804	42,452		•	13.335	<b>60</b> 0	3.5	214,162	328	171	-188	Ϋ́.		Γ
Nakaseke	153,197	253	385	294	155		14,830	1,052	15,882	78.	1.48	11,383	512		131,884	202	106	-175	127		
Wabusana	175,920		442	338	178	7.36	96.387	6,823	103.210	507	1,48	12,833	577	3.5	393,236	602.	315	217	135		
Masaka	1 367 000	2.256	3 430	2626	1 380		680 376	69 567	749 893	2 703	╉	40.849	1 8 3 8		1.362.198	2.085	1.080	1 447	1 542	-540	102-
Bukomanstbi	206.417		518	396	208	3.68	56,481	5.774	62.255	307	1.48	15,155	682	3.5	288,785	442	231	-34	164		
Bukoto	597,379	ŀ	1,499	1,147	603		234,416	23,972	258,388	1.276		11,969	539		382,778	586	306	290	096-		
kalungu	247,427		621	475	250	3.68	112,538	11,507	124,045			9,599	432	3.5	348,723	534	279	205	-189		
Lwemiyaga	34,175	56	86	66	35	7.36	95,128	9,730	104,858	518	1.48	654	29		108,976	167	87	462	-57		
Mawogola	200,949		504	386	203	7.36	181,763	18,584	200,347	686	1.48	3.472	156	3.5	232,936	356	186	657	-348		
Masaka M.	80,653		202	155	81	3.68	0											-133	-202		
								-											·	·····	
Mpigi	1,490,000	2.459	3,740	2,861	1,505		185,431	34,316	219,747	1,098		65,417	2,943		2.352.701	3.601	1,882	-1.361	-797	740	377
Entebbe M.	70,030	116	176		11	7.36	868	162	1,030	5		327	15		7,060	[]	6	111-	-161		
Busiro	415,710		1,043	798	420	1.84	31,755	5.877	37,632	188		29,372	1,322	3.5	776,391	1,188	621	-498	279		****
Butanbara	120,690	661	303		122	3.68	23,408	4,331	27,739	139		4,252	191		308,203	472	247	99	-112		
Gomba	195,190	:	490		197	3.68	71,962	13,318	85,280	426		8,112	365		555,237	850	444	104	-125		
Kyadondo	432,100	113	1,085	830	436	436 3.68	28,719	5,314	34,033	170	1.48	11,677	525		352,905	540	282	-543	-560		
Mawokota	256,280		643	492	259	3.68	28,719	5,314	34,033	170	1.48	11,677	525	3.5	352,905	540	282	-253	-118		
									-												
Mukono.	1,343,000	2	3,372	2.579	1,356		254,350	86,150	340,500	1,734		114,110	5,135		1.267,351	1,940	1,013	-48.3	1,763	-639	-34.3
Bbaie	139.672	.230	351	268	141	141 3.68	86,517	29,304	115.821	590		165.0	288	1	130,536	200	104	360	Ŷ		
Buikwe	408,272	Ŷ	1,025	784	412	0.92	47,503	16,090	.	С		41.878	1,885		441,039	675	353	-350	860		
Buvuma	29.546		74		30	30 0.92	2,875	973	3,848			2,054	92	3.5	19,012	29	15	-29	18		
Mukono	295,460		742		298	298 3.68	70.089	23,740	93,829			24,305	1,094		210,382	322	168	-10	352		
Nakifuma	224,281	370	563	431	227	0.92	23,546	7,975	31,521	160		22,366	1,006		258,538	396	207	-210	443		
Ntenjeru	245,769		617	472	248	0.92	23,820	8,068	31,888	162	1.48	17,116	770	3.5	207,844	318	<u>8</u>	-244	153		
Total	4,933,000	8,142	12.382	9,473	4,982		1,442,475	212,849	212,849 1,655,324	8,231		276,172	12,426		6,192,202	9,478	4.953	68	44	5	-29
Kampala	774,241	2,183	1,107	2,005	1.796												└ <u></u>				LAUGYER
Ratio to Present	1.63	2.072	2.122	2.083	2.033		3.932	2.793	3.736	4.185		1.48	1.48		3.5	3.501	3.498				
Moto - (1)		-	3		Ļ	1															]

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Note : (1) Consumption per Capital Rural Beef : 5.22kg, Milk : 28.87kg, Goat meat + maton : 1.65kg, pork : 2.51kg, Chicken : 1.92kg, Egg : 1.01kg Kampala Beef : 7.86kg, Milk : 58.23kg, Goat meat + maton : 2.82kg, pork : 1.43kg, Chicken : 2.59kg, Egg : 2.32kg

3.4.2 Livestock Husbandry

Table A3.4.2.1 Requirement of Grass and Grassland

(1) Requirement of Grass and Hay

County			Dates Caute	-		ğ	Beef Cattle		Goats	Goats & Sheep		
County			Grass	Hay				Hay		Grass	Total Grass	Total Hay
	Total		cment	Requirement	Total		Requirement	Requirement		Requirement	Requirement	Requirement
	Hcad	41.8%	(ton)	(ton)	Hcad	34.6%	(ton)	(ton)	Hcad	<u>ج</u>	(ton)	(ton)
	Θ	0	() 16.026kg 1.	(会)=(と)× 1,084kg	Ø	6	22,461kg	@=@× 975kg	0	, Kg	0+0+0 0+0+0	(1)=(1)+(8)
Luwero	5,348	2,236		2,424	532.359	184,196	4,137,233		345,184		4,731,575	182.016
Bururi	3,531	1.476			214,992	74,387	1.670,811		183.639	297.129	1,991,594	14.128
Katikamu	375	157		0/1	43,975	15215	341,753	14.835	42,453	68.688	412.957	15.005
Nakaseke	856	358		388	219,645	75,997	1,706,973	74.097	15 883		1.738.409	74,485
Wabusana	586	245		266	53,747	18.597	417,696	18,132	103.209		588.615	18.398
		1 500			10 0 220	21.00						
Masaka	5.049	07C'T	907 1	-	1010007	01076	Ÿ				Ŷ	
Bukomansiði	407	00		C11	11/177	207.02		ŀ	CC7 70			
Bukoto	818	342			76,402	26,435	593,759		228.388			
kalungu	536	224		243	50,057	17.320	389.018		124,045		593.313	3 17,130
Lwcmiyaga	397	166			40.237	13.922	312.702			169,660	485.022	2 I3.754
Mawogola	822	344			76,403	26,435	593,766	25.775	200.347	324.161	26 	0 26,148
Masaka M.	822	344	5.513	373	0	0	0	0	0	0	5.513	37:
					<b></b>							
Mpigi	9.810	4,102	65,740	4,448	124,140	42,953	964.755	41,880	219.747	355,552	1,386.047	1 46.328
Entcbbc M.	195	82	1.314		2.151	744	16.715	726	1.030	1.667	969'61	518 515
Busiro	784	328			15,491	5,360		5.226		60.888		
Butanbara	784	328		356	9,467	3,276			27,740		123.713	3,550
Gomba	6,479	2,708	43,398	2.935	78,097	27,022	606.932	26,346		137.984	1288.314	1 29.281
Kyadondo	784	328			9,467	3.276			34,033			
Mawokota	784	328	5.257	356	9,467	3.276	73,573	3,194		55.065	133.895	5 3,550
	1.2.2.1	020 2			202.001	24 604						
Mukono	195,81	8C/./			C70,821	40044					-1	
Bbalc	4,455	1,862		2,018	72.296	25,014	561.848	(1	115.821			
Buikwc	6,495	2.715	7		26,357	9,120		Ś		Ĭ		1
Buvuma	741	310		336	2,108	729						8 1.04
Mukono	3,711	1.551	1 24.856	1.681	15.061	5,211	I	5.081	93.829	9 151.815	5 293.718	8 6.762
Nakifuma	1,857	776			7.531	2.606	58.527			1 51.001	121.964	
Ntenjeru	1,302	544	t 8,718	590	5,272	1,824	40.971	1.778	31.888	51.595	101.284	4 2.368
Total	37,368	15.622	250,358	16.936	1.051.934	363,969	8,175,112	354,873	1.655.324	2,678,316	11.103.786	5 371.809

Grass requirement in Table A3.4.2.2 (1),(4)

(2) Grass	(2) Grass Production	Ľ								-										
				Private	Private Land						NRP					H	Public Land	and		
County	Private	Availab. Grass	<u>بر</u>	Land	- <u>-</u>	Grass	En la	Grass to be	Grass		Grass	Eat	Grass to be	Public	ند	Land	9	Grass	Eat	Grass to be
	Grassland	land	Ņ		ton/ha		rate ]	Fed		ton/ha	and ton/ha Production		Fed	Grassland	Ş.	type It	on/ha P1	type ton/ha Production		Fed
	(m) ()	@= 0×90%		(%)	30	je@	() () ()	ଞ	(ha)	£⊗	(ton) (ton) (ton)	Ê9	(uol)	(ha)		)(%)	<u></u>	(tou) (tou)	£.	(tot) (tot)
Luwero	174.300	156,870				8		2,636,484	122.276		3.056,900		1.445,914	73 030				1.847.203	╞	525,373
Burni	108.660	97,794	Δ		35	3,42	47.3	1.618,913	19,215	25		47.3	227,217		۵		25	1,430,250	28.44	406.785
Katikamu	14.030		ļ.	41.3		\$	47.3	219,613	10,481	2		47.3	123,938			41.3	25	68,777	28,44	19,561
Nakaseke	30,750	27.675	A	78.1	35	68	47.3	466,847	83,846	25	64				Δ	78.1	25	211.156	28.44	60.056
Wabusana	20,860			23.5		700	47.3	331,111	8,734	2	218,350	47.3	103,280			23.5	25	137,020	28.44	38,971
Masaka	185.850	167,265				5,856,533		2,770,139	1.747	Γ	38.434		18,179	79.540		F	┢	1.924.369		547,320
Bukomansibi	14,260	12,834	4		38	487	47.3	230,606		28		47.3	0	7.100	a.	-	28	198.800	28.44	56,542
Bukoto	45,150	40,635	1	42.7	35	1,491	47.3	705,665		25		47.3	0	25,380	6	42.7	25	678,129	28.44	192,870
kalungu	42,980	38,682	۵.		38	1,469	47.3	695,234		28		47.3	0		ዋ		28	56.560	28.44	16.087
Lwemiyaga	26,920		F		32	775	47.3		1,747	22	38,434	47.3	18,179		Т		22	348,920	28.44	99.238
Mawogola	55.910	50	ч		32	1,610	47.3			22		47.3	0		T		22	641.960	28.44	182,583
Masaka M.	630	267	a,		38	21	47.3	10.245		28		47.3	0					0	28.44	0
							 								-					
Mpigi	54.080	48.672	4			2.011.186		951.291	1.747		48,916		23.137	63,490	Ь	_		1.626.064		462,476
Entchbe M.	2.970		ρ,		38		47.3	53.383		28		47.3	0		Р		28	0	28.44	0
Busiro	9,250	8,325			38	351	47.3	166.260	1.747	28	48.916		23,137		ġ		28	17.360 28.44	28.44	4.937
Butanbara	6,380		4		38	261	47.3	123,661		28		47.3	0	1.980	P.		28	55.440 28.44	28.44	15.768
Gomba	17.570		н	83.2	35		47.3	295,060		25		47.3	0	60,760	۲	83.2	25	1.549.624 28.44	28.44	440.736
Kyadondo	8,760	7.884	ሲ		38	332,880	47.3	ł		28		47.3	0		P	-	28		28.44	0
Mawokota	8.650				8	328	47.3	155.475		28		47.3	0	130	٩.		28	3,640	28.44	1.035
Multono	26.750	127 VS			Ţ	012 202	T	000 772	166.21	T	202 075		105 201	02000		+		011018	+	201.408
	1007 10		۴		20	1	47.2			20	202 005	17.2	102 001	0110	ſ	-+-	4	10 750 75 75	11 00	202.002
Rukwe	13 890	12.501	20		N.C.		- I -			282			0				28	266.840	28.44	75 893
Bavama	1 460		J		38		1			28		47.3	0		6		28		28.44	14 335
Mukono	11.970	10.773	<b>P</b> .		38	454,860	1			28		47.3	0		۵.		28	166.880 28.44	28.44	47,463
Nakifuma	4.000		ļ.		38	L	i i			28		47.3					28	149.240	28.44	42,446
Ntenjeru	3,450	3,105	Р.		38	131	47.3			28		47.3			а,		28	98.000 28.44	28.44	27.873
Total	470,490	423,441				15.515,093		7.338.637	141,491		3,537,275		1.673.131	245.330				6.207.746		1.765.577
Note : Land	types P: Fen	Note : Land types P : Pennisetum purpurcum grass, D : Dry hyparthenia grass, T : Themeda triandra grass	purcu	m grass		Dry hyparthe	nia en	ass. T : The	meda triand	ra 2135	SS									

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Note : Land types P : Pennisetum purpureum grass. D : Dry hyparthenia grass. T : Themeda triandra grass

COUNTY Resultant         Constitued (mot)         Constitued (mot) <thconstitued (mot)         <thconstitued (mot)<th>10/ Induited Class</th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th></thconstitued </thconstitued 	10/ Induited Class												
Clearcest         Thread         Total         Total         Constant         Carastand				<b>Brass Product</b>	ion to be Fed			Grass /	Adjustment	Grassland	Grass k	und Requirement Necessary Hay	for Hay (Ref)
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	COUNTY	GRASS REOUIREMENT	Private Grassland	VRP Grassland	돌품				Public land	Requirement	Hay Rcq.		NRP(EP)+ Private
4.73]         575         265.634         1.445.914         255.373         4.607.71         123.607         556.634         1.445.914         255.373         5.603         7.41255         7.4435         7.01541           3311.05         2770.019         18.179         93.356.63         2.54.73         2.54.73         2.56.58         91.664         1.3094           3331.10         705.665         0         55.745         11.800         28         4.51         7.1129         7.531         2.1119         7.1139           3311.1         705.665         0         16.687         7.11.311         11.8008         2.431         7.1129         7.531         2.1119         7.531         2.1199         7.531         7.1139         7.531         7.1139         7.531         7.5131         7.5131		(ton)	(ton) (	(10n) (10n)		- 0 	(ton) (100)		(ha) (ha)	0	(lool)	∕@=0	tand(10%) (ha)
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	Luwero	4,731,575	2,636,484	1	1		123,804		4,952	374.558	182.016	26,003	34.230
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	Burni	1.991.594	<b> </b>		406,785	2	-261.321	52	-10453	174,632	74,128		13.506
1.738.409         466.847         99.1479         6.0056         15.832         2.20027         2.5         8801         13.16.67         74.455         10.641           3.311.10         103.280         38,971         473.362         115.253         25         4610         39.224         13.398         2.628           3.311.266         2.770.139         18.179         54.73.20         335.658         2.437         25.5         26.558         91.664         13.094           1.017.3617         2.36.656         0         65.542         2.87.148 $2.437$ 2.8.12         71.129         2.447           933.313         695.234         0         192.583         944.277         2.0.7387         2.8.13         2.6.18         3.7.35           935.313         695.234         16.087         93.258         944.277         2.0.7387         2.8.145         1.1.199           935.313         595.313         151.566         13.558         244.162         3.7.58         3.44.162         3.7.58           935.311         17.516         8.3.58         13.1.566         13.5.56         3.3.56         3.3.56         3.3.16           135.669         53.3.566         2.3.557         2.5.58	Katikamu	412,957			19,561		49,845	ร	1994	29,075	15,005		
588.615         3311.10         103.280         38,971         473.362         115.253         25.65.82         91.664         13.094           1         2170.139         18,179         547,320         335.538         -451         75.58         26.582         91.664         13.094           1         2170.139         18,179         547,320         335.538         -451         75.88         31.1.19         3.1.304         3.1.304         3.3.35         3.3.35.538         -451         75.88         91.664         13.094         3.3.35           55313         665743         18.179         95.535         16.078         71.132         13.5.841         3.1.75         2.447         3.7.75           55313         665743         18.179         95.238         444.162         860         22         39         44.56         13.7.54         1.966         3.7.55           953.440         71.251         71.251         860         23         37.56         1.966         3.7.55         56.18         3.7.75           158.647         15.3661         0         10245         -5.333         -5.5.71         2.5.7.18         3.7.75         57.1         57.1         57.1         57.1         57.1	Nakaseke	1.738.409			60,056	_	220.027	2	8801	131,627	74,485		
3.3.11.296         2.770.139         18.179         547.320         3.35.638 $2.4.342$ $255.52$ $21.6667$ $13.094$ $11.30$ 1.017.311         7256.667         0         19.55.44         0         19.55.42 $287.148$ $-451$ $75.281$ $21.159$ $3.335$ 1.017.311         755.667 $16.087$ $711.321$ $11.8076$ $22$ $475$ $12.148$ $3.135$ 935.312 $655.244$ $18.179$ $992.38$ $484.162$ $860.72$ $294.375$ $11.30726$ $45.66$ $13.754$ $1.1966$ $55.312$ $10.245$ $0.10.245$ $-4.732$ $25.33$ $-35.137$ $45.166$ $3.735$ $955.417$ $92.358$ $944.277$ $-20.787$ $22.2948$ $3.735$ $56.18$ $3.735$ $1.386.047$ $951.291$ $23.517$ $49.377$ $25.188$ $44.566$ $13.754$ $11.66$ $1.386.047$ $951.245$ $12.3537$ $13.3587$ $12.3567$ $25.188$ $44.566$ $13.754$	Wabusana	588,615	331,111	103,280	38,971	473,362	115,253	25	4610	39,224	18,398		3,286
xi         286.697         230.606         0         56.542         287.148         451         28         416         21.344         8.114         1.159           1.017.311         705.665         0         192.870         886.555         118.776         23         4751         75.281         3.755           933.312         566.745         1.8.179         99.238         74.167         23         451         26.148         1.305           923.440         761.644         10         182.553         94.227         20.341         56.137         24.156         3.755           923.440         761.644         10         182.533         94.227         20.841         3.753         26.148         3.755           923.440         55.137         462.476         143.604         -50.857         -1.591         117.726         46.328         56.618           1.386.047         951.291         23.137         462.476         194.354         -56.81         3.755         57.5         56.148         3.755         57.5         57.5         56.18         3.755         57.5         57.5         57.5         57.5         57.5         57.5         57.5         57.7         57.7         57.7	Masaka		2,770,139	18,179	547,320		-24,342	T	-555	266.582	91,664		14,528
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	Bukomansibi	286,697	230,606	0	56.542	287,148	451	28	-16				
593.313         665.234         0         16.087         711.321         -118.008         28         -42.15         40.785         17.1.30         2.447           485.002         366.743         18.179         99.238         484.162         860         22         39         44.566         13.754         1.965           5.513         10.245         0         10.245         -4.732         25         -169         461         373         55           5.513         10.245         0         10.245         -4.732         25         -169         441         55         55         56         55         55         56         55         55         56         55         56         55         55         56         55         55         57         55         57         55         57         55         77         55         57         55         56         57         56         55         56         57         55         57         55         57         55         56         55         57         55         57         56         57         55         57         56         55         57         55         57         55         55	Bukoto	1,017,311	705.665		192,870		118,776		4751				4.515
485.022         366.74s         18.179         99.238         484.162         860         22         345.66         13.754         1965           923.440         761.644         0         18.753         944.257         -0.73         25.13         10.245         6.618         3.755           5.513         10.245         0         10.245         -4.752         26.0857         -1.591         117.726         46.328         56.618         3.755           1.386.047         951.291         23.137         4.62.476         1,436.604         -50.857         -1.291         117.726         46.328         56.618         373           1.986.561         0         10.245         -3.355         -33.687         28         -1203         11.726         46.328         56.618         779           18.5.51         0         157.68         194.334         7380         25.518         28.01         7919         3.550         507           18.5.31         255.661         0         10.35         156.510         -22.518         28.01         709         3.722         357         507         507           133.585         157.452         0         10.35         25.665         23 <td< td=""><td>kalungu</td><td>593.313</td><td></td><td></td><td>16,087</td><td></td><td>-118,008</td><td>28</td><td>4215</td><td></td><td></td><td></td><td>·</td></td<>	kalungu	593.313			16,087		-118,008	28	4215				·
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	Lwemiyaga	485.022			99,238		. 860	22	39	995.44.566			2.932
5.513         10.245         0         0         10.245         0         10.245         0         10.245         5 </td <td>Mawogola</td> <td>923,440</td> <td>~</td> <td></td> <td>182,583</td> <td>6</td> <td>-20.787</td> <td></td> <td>-945</td> <td></td> <td></td> <td></td> <td>165.5</td>	Mawogola	923,440	~		182,583	6	-20.787		-945				165.5
M.         1.366.047         951.291         23.137         462.476         1.436.904         -50.857         -1.591         117726         46.328         6.618           M.         19.6696         53.333         0         53.335         -3.3687         -1.591         117726         46.328         6.618           a         113.711         156.60         23.137         42.977         19.439         -1.579         11.772         46.328         6.618           a         133.713         135.610         0         4.977         19.439         -3.587         35.778         -3.587         35.777         35.778         -3.577         38.28         -3.577         35.778         -3.577         35.778         -3.577         38.28         -3.577         35.778         -3.557         35.77         35.778         -3.576         5.718         -3.576         5.718         -3.576         5.718         -3.576         5.710         -3.570         5.710           a         133.385         155.475         0         1.5735         2.56.51         -2.26.51         2.8601         48.962         5.801         7.400           a         133.385         2.5574         2.86         2.8         9.112         2.	Masaka M.	5.513			0	10.245	4.732		-169				. 63
M.         1.386.047         951.291         23.137         462.476         1.456.904         -50.857         -1.591         117.726         46.328         6.618           M.         19.606         53.333         0         0         53.383         -33.687         28         -1203         117.726         46.328         6.618           a         135.534         166.260         23.137         462.476         1.457.88         139.429         -15.516         28         -279         11.7726         46.328         6.618           a         133.895         123.511         23.5576         25.5578         25.5         2101         80.431         29.2981         4.183           a         133.895         155.475         0         1.0736         7.573         23.556         7.972         3.550         507           a         133.895         155.475         0         1.0753         23.556         255.520         255.610         23.557         255.610         23.561         6.618           a         133.895         155.475         0         1.0784         1.397.035         255.520         255.618         255.618         255.618         255.618         255.618         255.618         255.							-						
M.         19,666         53.383         0         53.383         -33.687         28         -1203         1.757         815         116           a         123.713         133.661         0         15.768         139.4334         -7.800         25         -2.79         11.338         5.582         797           a         123.713         133.661         0         140.736         735.796         22.518         25         2101         80.431         295.03         507           box         133.895         157.452         0         1.035         155.16.510         -22.518         25         2101         80.431         295.03         507           box         133.895         155.475         185.901         239.405         1.397.032         277.836         797         3.550         507           box         1.674.868         980.723         185.901         237.635         255.686         25         917         24.37         1.691           col         1.33.895         1.55.440         0         14.335         40.577         -12.999         28.03         3.792         3.720           col         27578         26.406         27.568         28.61	Mpigi	1.386.047	951,291	23,137	462,476	1.4			-1.591	117.726			I
a $186.534$ $166.260$ $23.137$ $4.937$ $194.334$ $7.800$ $28$ $-561$ $8.298$ $5.582$ $791$ a $123.713$ $123.661$ 0 $40.736$ $73.796$ $255.18$ $255$ $212$ $3.550$ $507$ $507$ box $188.314$ $295.060$ 0 $40.736$ $73.796$ $225.557$ $28$ $-561$ $8.298$ $3.550$ $507$ tax $133.895$ $157.452$ $0$ $1.037$ $156.510$ $-22.5615$ $28$ $-841$ $7.919$ $3.550$ $507$ tax $1.574.868$ $980.723$ $185.901$ $220.305$ $55761$ $135.901$ $27.726$ $35.576$ $357.67$ $355.96$ $350$ $507$ tax $257.38$ $26.347$ $185.901$ $223.398$ $55.661$ $28.961$ $48.962$ $26.407$ $3.772$ tax $27578$ $26.324$ $0$ $14.332$ $25.552$ $25.6$	Entcbbc M.	19,696		0	0	53.383			-1203				297
a         123.713         123.713         123.561         0         15.768         139,429 $:5.716$ 28 $:561$ 8.299 $:3.550$ $507$ b         133.895         157.452         0         157.452 $:23.557$ 28 $:841$ $7.919$ $:3.550$ $:507$ a         133.895         157.452         0         1.075         156.510 $:22.518$ $:25$ $:841$ $7.919$ $:3.550$ $:507$ a         1.57.452         0         1.075         156.510 $:22.5153$ $:28$ $:808$ $:3.72$ $:3.72$ a         1.57.4368         980.722         185.901         230.405 $:27.836$ $:27.83$ $:24.607$ $:3.772$ $:5712382         245.575         155.572         25.586         28         917         2.357         :3.740 :577.836 :577.836 :38611 :24.357 :1.6112.995 :51.801 :7.400 :577.836577 :38640.66 :0 :7.373 :2.406 :3.7106 :25738$	Busiro	186,534			4,937				-279			•	1.165
788.314         295,060         0         440,736         735,796         52.518         25         2101         80,431         29.281         4.183           10         133,895         157,452         0         0         157,452         -23.557         28         -841         7.919         3.550         507           10         133,895         157,452         0         1.035         156,510         -22.615         28         -841         7.919         3.550         507           10         1.57,452         0         1.035         1.56,510         -22.615         28         -841         7.919         3.550         507           16,74.868         980,723         185,901         230,408         1.397,032         277,836         10.244         11.875         1.610           351,238         245,577         185,901         230,408         1.397,032         25.801         27         24.3,969         3.7,97         1.691         3.7,400           351,238         245,677         12,399         28         28         24         2.796         1.047         1.501         1.601         28         1.601         28         1.601         26         2.6407         3.715	Butanbara	123,713			15,768				-561				
b         133.895         157.452         0         157.452         -23.557         28         -841         7.919         3.550         507           a         133.895         155.475         0         1.035         156.510         -22.615         28         -841         7.919         3.550         507           a         1.674.868         980.723         185.901         230.408         1.397.032         277.836         10.844         112.095         51.801         7.400           779.086         355.767         185.901         230.408         1.397.032         277.836         26.407         3.770           7557         25573         256.405         215.029         25         8601         48.962         26.407         3.770           7573         249.657         0         1.397.032         255.552         25.686         28         11.11         19.041         6.762         966           271.964         1.1855         0         27.466         11.4.312         7.557         2.368         338           291.964         62.010         0         27.813         11.401         28         407         7.557         2.368         338           a	Gomba	788,314			440,736	735,796	а 1		2101	Ĩ			1.757
ua         133.895         155.475         0         1.035         156.510         -22.615         28         -508         7.972         3.550         507           1.674.868         980.723         185.901         230.408         1.397.032         277.836         10.844         112.095         51.801         7.400           779.086         355.767         185.901         22.0588         564.066         215.020         25         8601         48.962         26.407         3.772           7578         249.559         0         75.893         325.553         255.652         215.099         28         161         24.337         1.691         3.772           293.718         215.149         0         47.465         114.342         7.652         28         111         19.041         6.762         966         3.772           293.718         215.149         0         47.465         114.342         7.652         28         2772         9602         3.763         4.83           101.284         62.010         0         27.813         19.432         7.652         28         4.83         56         3.56         3.56         3.56         3.58         3.58         3.58	Kyadondo	133,895			0	157,452	-23,557		-841				. 876
1.674.868         980.723         185.901         230.408         1.397.032         277.836         10.844         112.095         51.801         7.400           779.086         355.767         185.901         23.398         564.066         215.020         25         8601         48.962         26.407         3.772           351.738         235.5767         185.901         72.398         564.066         215.020         25         8601         48.962         26.407         3.772           351.738         235.542         0         14.335         40.577         -12.999         28         411         19.041         6.762         966           271.964         71.5578         215.446         114.342         7.622         28         111         19.041         6.762         966           33         101.284         62.010         0         47.453         26.512         31.166         28         277         9602         3.352         483           at         101.284         62.010         0         27.873         89.883         11.401         28         277         9602         3.358         483           at         11.03.786         7.338.637         1.677.345	Mawokota	133,895			1,035		-22,615		-808				
779.086       355.767       185.901       22.398       564.066       215.020       25       8601       48.962       26.407       3.772         351.238       249.659       0       75.893       325.552       25.686       28       917       24.337       11.835       1.691         27.578       26.242       0       14.335       40.577       -12.999       28       -464       2.796       1.047       150         293.718       215.149       0       47.465       262.612       31.106       28       1111       19.041       6.762       966         293.718       215.149       0       47.465       262.612       31.106       28       1111       19.041       6.762       966         211.02.784       62.010       0       27.873       89.883       11.401       28       407       7.357       2.368       338         al       11.103.786       7.338.637       1.673.131       1.765.577       10.777.345       326.441       13.5630       870.961       371.809       53.115         Note: $\hat{0}= 0$ in Table A3.4.2.2 (1) $\hat{0}= -6$ in Table A3.4.2.2 (2) $\hat{0}= -6$ in Table A3.4.2.2 (2) $\hat{0}= -6$ <td< td=""><td>Makono</td><td>1,674,868</td><td></td><td></td><td>230,408</td><td>1.397.032</td><td>277,836</td><td></td><td>10.844</td><td></td><td></td><td></td><td>7.786</td></td<>	Makono	1,674,868			230,408	1.397.032	277,836		10.844				7.786
351.238       249.659       0       75,893       325.552       25.686       28       917       24.337       11,835       1.691         27.578       26.242       0       14,335       40.577 $-12.999$ 28 $-464$ $2.796$ $1.047$ $150$ 27.578       26.242       0       47.463 $26.5612$ $31.106$ $28$ $1111$ $19.041$ $6.762$ $966$ 29       121.964       71.896       0 $47.463$ $262.612$ $31.106$ $28$ $1111$ $19.041$ $6.762$ $966$ at       121.964       71.896       0 $42.446$ $114.342$ $7.622$ $28$ $2772$ $9.602$ $3.382$ $483$ at       101.284       62.010       0 $27.873$ $89.883$ $11.401$ $28$ $407$ $7.357$ $2.368$ $33.6$ at       11.103.786 $7.338.637$ $1.673.131$ $1.765.577$ $10.777.345$ $326.441$ $13.569$ $870.961$ $371.809$ $53.115$ Note: $(11.733.636)$ in Tablc A3.4.2.2 (1) $(2) = (1)$	Bbale	779,086			22,398			25	8601				
27.578       26.242       0       14.335       40.577       -12.999       28       -464       2.796       1.047       150         a       293.718       215.149       0       47.463       262.612       31.106       28       1111       19.041       6.762       966         a       121.964       71.896       0       47.465       14.342       7.622       28       2772       9.602       3.382       483         a1       101.284       62.010       0       27.873       89.883       11.401       28       407       7.357       2.368       338         a1       11.103.786       7.338.637       1.673.131       1.765.577       10.777.345       326.441       13.650       870.961       371.809       53.115         Note:       ①=①       in Table A3.4.2.2 (1)       ②=⑤       in Table A3.4.2.2 (2)       ③       13.650       870.961       371.809       53.4.2.2       2.3.4.2.2 (2)       16.7.1.806       53.115	Buikwe	351,238			75,893	ŀ			116				1.389
293.718         215.149         0         47.463         262.612         31.106         28         1111         19.041         6.762         966           a         121.964         71.896         0         42.446         114.342         7.622         28         272         9.602         3.382         483           a         121.964         71.896         0         42.446         114.342         7.622         28         272         9.602         3.382         483           a         101.284         62.010         0         27.873         89.883         11.401         28         407         7.357         2.368         338           ai         11.103.786         7.338.637         1.673.131         1.765.577         10.777.345         326.441         13.650         870.961         371.809         53.115           vote :         ①=①         in Table A3.4.2.2 (1)         ②=⑥         in Table A3.4.2.2 (2)         483         63.4.2.2	Buvuma	27,578			14,335		-12,999	-	-464				146
a         121.964         71.896         0         42.446         114.342         7.622         28         272         9.602         3.382         483           101.284         62.010         0         27.873         89,383         11.401         28 $407$ 7.357         2.368         338           al         11.103.786         7.338.637         1.673.131         1.765.577         10.777.345         326.441         13.650         870.961         371.809         53.115           vote :         ①=①         in Table A3.4.2.2 (1)         ②=⑥         in Table A3.4.2.2 (2)         ③=①         in Table A3.4.2.2 (2)         ④=①         in Table A3.4.2.2 (2)         10.56.577         10.777.345         in Table A3.4.2.2 (2)         11.600         371.809         53.115	Mukono	293,718							1111	19,041			1.197
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	Nakifuma	121,964	•										. 400
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	Ntenjeru	101,284						28					
: ①=① in Table A3.4.2.2 (1) ②=⑥ in Table A3.4.2.2 (2) ③=① ④=颀 in Table A3.4.2.2 (2) ④=①+①+① in Table A3.4.2.2 (2) + ⑧	Total	11.103,786			1.765.577				13,650	i			56.545
in Table A3 4 2 2 (2) ( $\mathfrak{g}=(\mathfrak{h}+\mathfrak{O}+\mathfrak{O}+\mathfrak{O})$ in Table A3 4 2 2 (2) + ( $\mathfrak{B}$ ( $\mathfrak{D}=\mathfrak{O}$ )	Note		in Table A	3.4.2.2 (1)	()=() ()	6	in Table	A3.4			() () () ()	in Table A3.	4.2.2 (2)
		(4)=(10)	in Table A	<b>V3.4.2.2</b> (2)	6	0+0+0	in Tablo	43 d		@	(j)-(j)	in Table A3	11007

Hay production = 7ton/ha (grass yield : so ton/ha, hay made rate : 20%, harvest loss : 30%)

Table A 3.4.2.2 Grass Requirement for a Unit Animal

(a) Beef Cattle

(nm (360kg) 4 10 40 40 Poduini

Wood and a tot ar as in to mama trabau		10		
	Grass	Grass nutritive value	value	
	Feeding	DM	DCP	TDN
Nutrient maintenance	(kg) [	(g)	(g)	(g)
ration (day)		7500	200	2600
Nutrient Requirement				
/day		7500	396	3953
Wet season garss/day	36	7488	576	3960
164 days	5904			
Dry season garss/day	19	7732	398.5	3863
201 days	3819			
Total grass/year	9723			

Total Requirement for a beef cattle (converted for a cow)

	E E		3	3	6	~	4	8	ເດ	ശ	5	თ	
	Requiremen	Grass(kg)	9,723	193	366	342	1,244	1,098	1,465	3,536	1,355	3,139	22,461
ו רבת זחו מ	CompositionRequirement	of head	1	0.0154	0.205	0.205	0.186	0.186	0.186	0.367	0.186	0.369	
	s	(kg) (	9723	12543	1784	1667	6689	5902	7876	9635	7283	8508	
	TDN ratio	(%)	100	129	36.7	34.3	68.8	60.7	81	99.1	74.9	87.5	
TOT DO TOANON ATAON TOA A TOA A TOA AND TINKOU TOANT			Cow	Bull	Cow calf 0-6	Bull calf 0-6	Cow calf 7-12	Bull calf 7-12	Cow calf 13-18	Heifer cow 19-30	Bullock 13-18	Bullock 19-30	Total grass

(b) Dairy Cattle

**B** 

		NDT	2) (8	410		784	789		
	ve value	DCP	(Z)	294		829.5	1468		
(510kg)	Grass nutritive value	ΜQ	(g)	9600		9600	13968		
for a Cow	Gra	Feeding	(¥g)				39	6396	~
Requirement of Grass for a Cow (510kg)			Nutrient maintenance	ration (day)	Nutrient Requirement		Wet season garss/day	164	

7895 7895

7864.5

1229

14377

20 4020

Dry season garss/day 201

10416

Total grass/year

(g) 4100

Total Requirement for a Dairy cattle (converted for a cow)

	Ĭ	r a vairy c	arrie (co	TOLAL REQUIREMENT LOF & DAIRY CALLE (CURVERED IOF & COW)	
(kg)           00         10,416           .8         837.4           .5         765.6           .1         4,750           .1         6,468           .1         5,739           .1         6,468           .1         5,739           .1         5,427	<u> </u>	TDN ratid	Grass	Composition	Requirement
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$		<b>%</b> )		of head	Grass(kg)
8         837.4         0.207           5         765.6         0.207           6         4,750         0.197           1         4,177         0.197           1         5,739         0.098           1         6,468         0.292         1,           1         5,427         0.197         1           1         5,427         0.197         1		100	10,416	1	10,416
5         765.6         0.207           6         4,750         0.197           1         4,177         0.197           1         5,739         0.098           1         6,468         0.292         1,           1         5,427         0.197         1,           1         5,427         0.197         1,		26.8	837.4	0.207	173
6         4,750         0.197           1         4,177         0.197           1         5,739         0.098           1         5,739         0.292         1,           1         5,427         0.197         1,           1         5,427         0.197         1,	-	24.5	765.6	0.207	158
1         4,177         0.197           1         5,739         0.098           1         5,739         0.098           1         6,468         0.292         1,           1         5,427         0.197         1,		45.6	4,750	0, 197	936
1         5,739         0.098           1         6,468         0.292         1,           1         5,427         0.197         1,		40.1	4,177	0, 197	823
1         6,468         0.292         1           1         5,427         0.197         1           1         5,427         0.197         1	-	55.1	5,739	0, 098	562
1         5,427         0.197         1.           1         5,427         0.197         1.		62.1	6,468	0.292	1,889
16,026		52.1	5,427	0.197	1,069
					16,026

(d) Sheep

Requirement of Grass (She-Goat 25kg)

(c) Goat

	Grass	Grass nutritive value	e value	
	Feeding	DM	DCP	TDN
Nutrient Requirement				
(day)		940	40	460
Wet season garss(day)	4.4	915.2	70.4	484
164 Day	722			
Dry season garss(day)	4.4	1355.2	35.2	624.8
201 Day	884			
-				
Iotal grass(year)	GNGT			

Total Grass Requirement for a Goat

	live	live TDN ratio	Grass	Composition	ComposítionRequirement
	weig.	(%)	(kg)	of head	Grass(kg)
She-goat	25	100	1606	31.8	511
Buck	27	96.4	1548	1.3	20
Kid 0-2	4 8	36.7	295	8 <b>.</b> 5	25
Kid 3-6	11.1	84.8	1362	16,3	222
Female Kid 7-12	16.1	83.3	1338	10.2	136
Female kid 13-18 21.9	21.9	113.6	1824	11.7	213
Buckling Kid 7-1219.4	919.4	124.2	1995	10.2	203
Suckling 13-18	26.7	170.9	2745	10	275
Total grass					1605

Goat ratio Sheep ratio	79.5 20.5	1276 342	
Grass	/ Head		
		1618	

	e value	DCP	
	Grass nutritive value	MQ	
(Ewe 30kg)	Grass	Feeding	
Requirement of Grass (			Nutrient Requirement

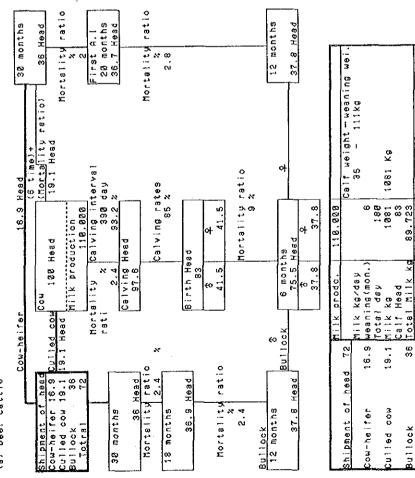
Reeding         DM         DC P         T D N           Nutrient Requirement         (day)         5.5         1144         88         605           Wet season garss(day)         5.5         1144         88         605           Dry season garss(day)         4.9         1509.2         39.2         695.8           Total grass(year)         1887         1887         1887			490	605	00	•
Feeding         DM         DC           v)         5.5         1144           902         1509.2           985         1509.2           1887         1887		TDN	4	ŝ	695	
Feedin	DALEV D	DCP	50	88	39.2	
Feedin	אות הדיריאי	MQ	1000	1144	1509.2	
	00 10	Feeding		5.5	4.9	985 1887
		- -	trient Requirement (day)	t season garss(day)	y season garss (day)	201 Day Total grass(year)

40 4 ρ Totol 2.

	live FDN	TDN ratio	Grass	CompositionReguirement	Recuirement
	weig.		(kg)	of head	Grass(kg)
Ewe	30	100	1,887	40	755
Ram	32	26	1,830	1.6	29
Lamb 0-2	5	36	340	9°9	34
Ewe lamb 3-6	12.7	82	1,547	9.5	147
Ewe lamb 7-12	18.7	82	1,547	14.2	220
Ewe lamb 13-18	25.8	113	2,132	14.1	301
Ram lamb 3-6	13.1	85	1,604	9.5	152
Ram lamb 7-7.5	25	135	2,548	1.2	31
Total grass			-	-	1669
					1669

Unit
Animal
Raising
æ
õ
Composition
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TABLE

(a) Beef Cattle



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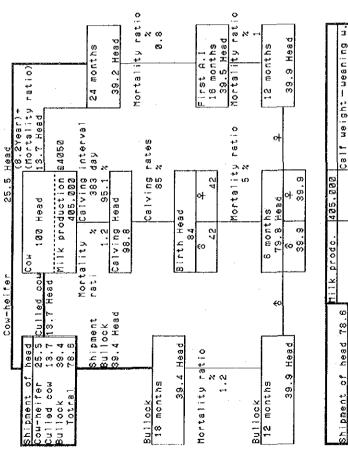
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Bullack

ITEM	Herd	8	Remarks	AUG.	49 4
		C Deet	( Dey	ш <b>О</b> П	243194
	100	181	X 365 / 365	-0	368
	0	8	X 365 / 365		423
<u>♀</u> 8~6	20.5	41.5 >	(182/365	3	78.5
& B~6	20.5	41.5 >	(188 / 365	(1) 12	64.2
۹ ۲~12	18.6	37.8 >	X 180 / 365	0 0	153.6
\$ 7~12	18.6	37.8 >	X 180 / 365	6 6	131.2
fer Calf 13~18	18.6	37.8 >	<180 / 365 V	15	216.1
Cow-heifer 19~30	36.7	36.7 >	X 365 / 365	24	292
lock Calf 13~18	18.6	37.8	X 188 / 365	15	183.7
100K 13~38	36.9	36.9 >	X 365 / 365	24	246
		Cowk			
10101	080	() ()			

(b) Deiry Cattle



	Calf weight — weaning w	40 - 104kg	5 Avg 72 X0.12	= 8.6 l	1298			
405.000		8.6	ŋ	150	1230	84	108.360	296, 540
<u>Milk prode.</u> 485.888		Milk kg/day	25.5 weaning(mon.)	day	¢ X	Head	39.4 Total Milk kg108.360	Shipmont Milk296,540
× E		х Ц	insem	Total day	13.7 Milk kg	Calf Head	Total	Shipm
	78.6		25.5		13.7		39.4	
	head							
	Shipment of head 78.6		Cou-heifer		Culled cow		Bullock	

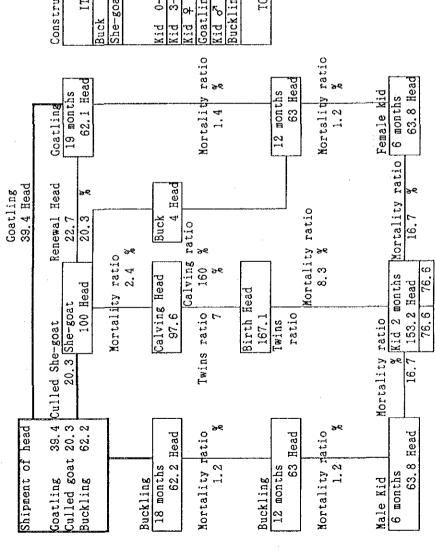
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CONSTRUCTION OF NORD CONSTRUCTION NORD	Herd	ead) Rømarks	
		неад Х Day	<u>AUG. kg</u>
			mon weight
	1 80	100 X 365 / 365	510
4 81 ∼6	20.7	42 X180 / 365	3 91.7
ଓ ଅ∼େ	20.7	42 X 180 / 365	3 96 7
<u>♀ 7~12</u>	19.7	39.9 × 180 / 365	9 220 2
\$ 7~12	19.7	39.9 × 180 / 365	9 213.6
Heifer Calf 13~15		39.9 × 38 / 365	13.5 388.5
Cow-Heifer 18∼25	29.2	39.5 ×270/365	28 392.7
Bullock 13~18	19.7	39.9 ×180 /365	15 314.3
тотас	239.5	Cow? 41.8	

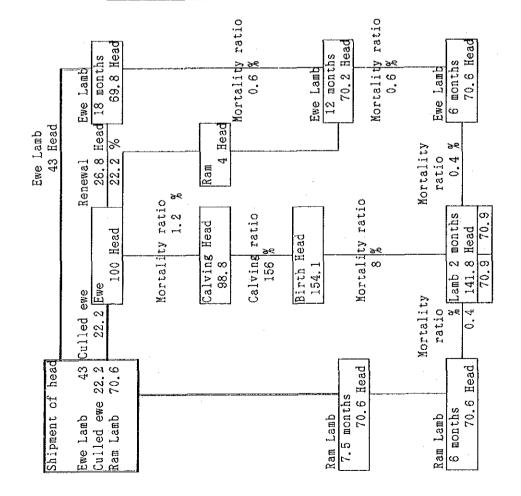
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(c) Goat



Construction of head	head				
	Head			AVG.	W. Kg
ITEN	કર	Herd	Remarks	цоц	weight
Buck	1.3	4			27
She-goat	31.8	100			25
			167.1 + 153.2		
			(Birth Head+Kid 2		
Kid 0-2	ອີ	26.7	months × 1/2×2/12	+1	4.8
Kid 3-6	16.3	51.1	153.2 Head×4/12	4	11.1
Kid <b>♀</b> 7-12	10.2	31.9	63.8 Head×6/12	တ	16.1
Goatling 13-19 11.7	11.7	36.8	63 Head × 7/12	<u>1</u> 2 2	21.9
Kid of 7-12	10.2	31.9	63.8 Head×6/12	တ	19.4
Buckling 13-18	10	31.5	63 Head × 6/12	15	26.7
			She-goat%		
TOTAL	100	313.9	31.9		
					.

Construction of head	ion o	f hea	q			I
		Head			AVG.	₩. Kg
ITEM		ઝર	Herd	Remarks	uou	weight
Ram		1.6	4			32
Ewe		40	100			30
				154.1 141.8		
				(Birth Head+Lamb 2		
Lamb 0-2		ი ი	24.7	months) $\times 1/2 \times 2/12$	<b>r~~1</b>	ດ. ເ
Ewe Lamb 3-6	3-6	9. 5	23.6	70.9 Head × 4/12	4	12.7
Ewe Lamb 7-12 14.2	7-12	14.2	35.3	70.6 Head×6/12	თ	18.7
Ewe Lamb 13-1814.	13-18	14.1	35.1	70.2 Head×6/12	15.5	25.8
Ram Lamb	3-6	9. 5	23.6	70.9 Head×4/12	4	13.1
Ram Lamb 7-7.5	7-7.5	1.2	2.9	70.6 Head × 0.5/12	7.5	25
				Ewe%		
TOTAL		100	249.2	40.1		



(d) Sheep

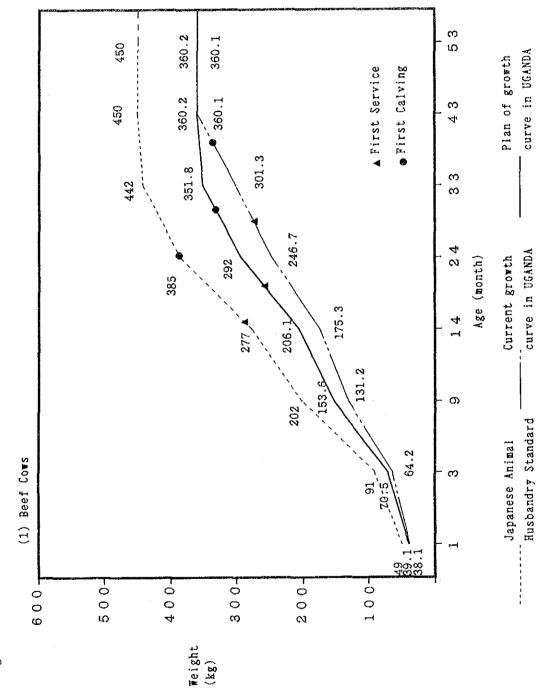
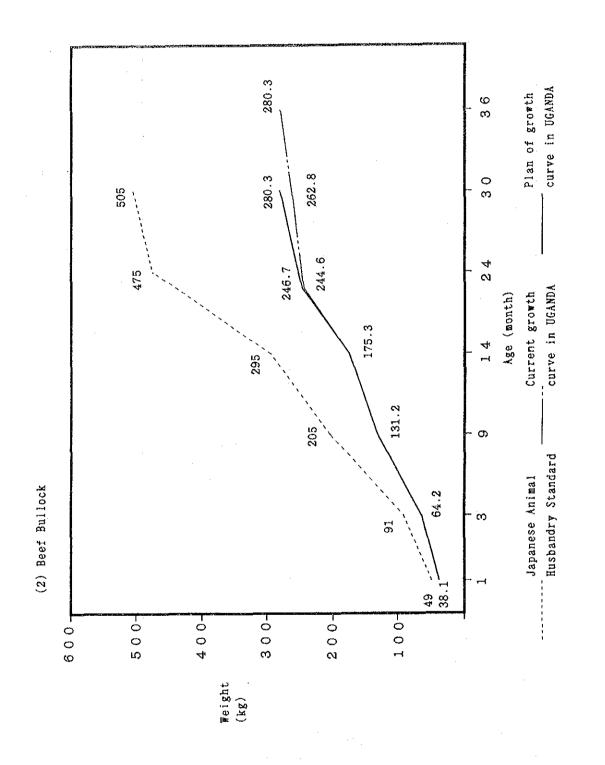
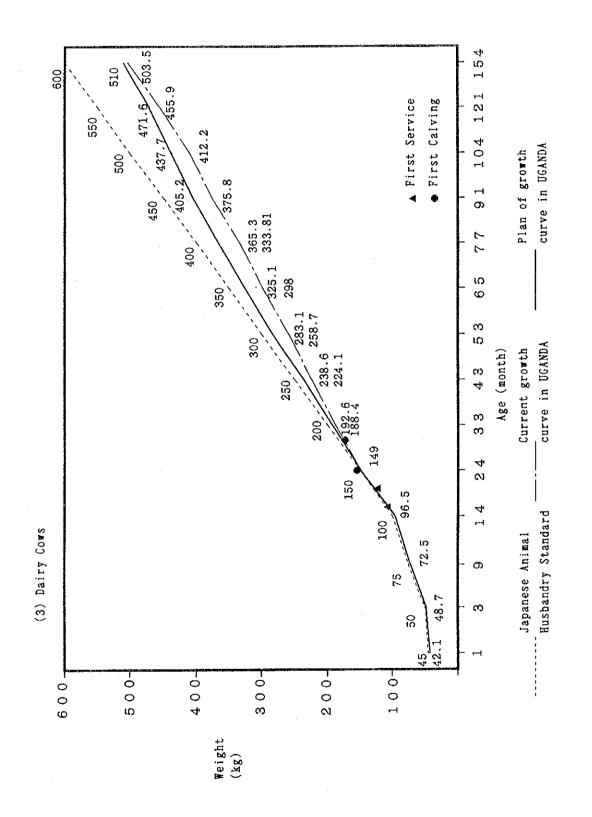


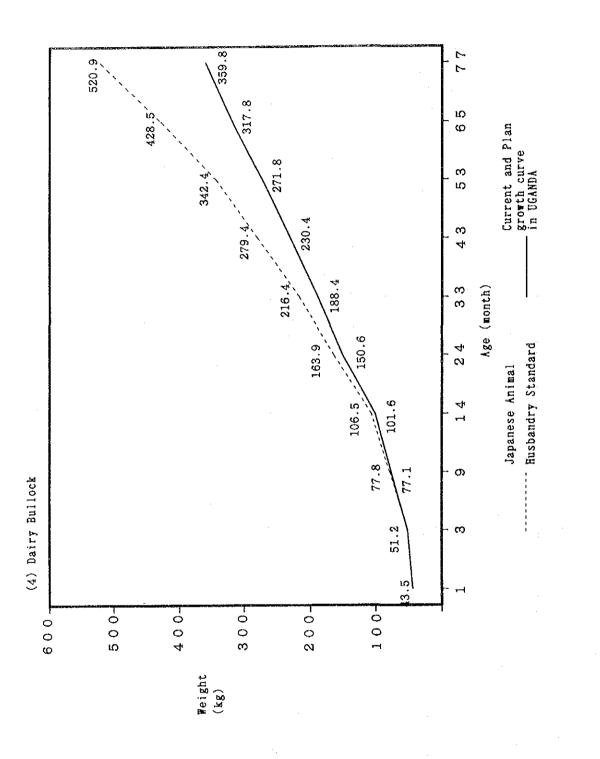
Figure A 3.4.2.1 Animal Growth Curves

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# Appendix 3.5 Processing and Marketing Plan

# 3.5.1 Processing

# Table A3.5.1.1 Agricultural Processing Plan by District

(1) Crop Cultivatio	n Area for Agricultu	ral Processing	5		Unit : ha
<u></u>	Total	Luwero	Masaka	Mpigi	Mukono
Sugar cane	43,609	15,225	8,818	5,535	14,031
Tea	1,456	0	184	337	936
Cacao	7,078	0	892	1,636	4,550
Vanilla	11,808	3,325	1,935	1,754	4,794
Banana	3,355	1,171	678	426	1,079
Cassava	4,908	1,284	1,249	1,258	1,118
Pineapples	5,246	1,497	1,165	731	1,853
Tomatoes	1,196	162	328	653	54

(2) Facility				Unit : No	of Facility
	Total	Luwero	Masaka	Mpigi	Mukono
Total of Facility	380	81	108	94	97
For Sugar Cane/Vanilla	17	3	4	5	5
For Cacao/Tea	14	3	3	3	5
Solar Drying House	380	81	108	94	97
Collection Centre	25	8	6	5	6
Collection Sub-centre	200	73	47	41	39
Tractor Centre	250	100	54	47	49

(3) Production of Ag	ricultural Processii	ng			Unit : Ton
	Total	Luwero	Masaka	Mpigi	Mukono
Sugar cane	127,338	56,379	22,044	13,838	35,077
Tea	946	0	119	219	608
Cacao	5,521	0	696	1,276	3,549
Vanilla	3,936	1,108	645	585	1,598
Bananas	9,058	3,163	1,832	1,150	2,914
Cassava	16,623	4,347	4,228	4,262	3,785
Pineapples	13,996	3,993	3,107	1,951	4,945
Tomatoes	833	113	228	454	37
Milk	53,873	44,981	7,388	1,504	C
Beef Slaughter	15,966	7,788	3,906	2,006	2,266
Goat Slaughter	10,287	2,095	2,759	2,012	3,421

(4) Gross Benefit of A	gricultural Proce	ssing		Unit : M	illion USH
· · · · · · · · · · · · · · · · · · ·	Total	Luwero	Masaka	Mpigi	Mukono
Jaggary	30,561	13,531	5,291	3,321	8,418
Tea(Dry-Leave)	201	0	25	47	129
Cacao	4,704	0	593	1,087	3,024
Vanilla	132,053	37,184	21,636	19,620	53,613
Bananas	9,511	3,321	1,923	1,207	3,060
Cassava	11,636	3,043	2,960	2,983	2,650
Pineapples	26,452	7,547	5,873	3,687	9,345
Tomatoes	3,789	513	1,039	2,067	170
Total	218,907	65,138	39,340	34,019	80,410
Milk	21,549	17,992	2,955	602	0
Beef Slaughter	19,159	9,346	4,687	2,408	2,719
Goat Slaughter	15,431	3,142	4,139	3,019	5,131
Total	56,140	30,481	11,781	6,028	7,850

(5) Production Cost o	f Agricultural Pro	ocessing		Unit : M	illion USH
	Total	Luwero	Masaka	Mpigi	Mukono
Jaggary	24,449	10,825	4,232	2,657	6,735
Tea(Dry-Leave)	161	0	20	37	104
Cacao	3,763	0	474	870	2,419
Vanilla	105,642	29,747	17,309	15,696	42,890
Bananas	4,982	1,739	1,007	632	1,603
Cassava	9,142	2,391	2,326	2,344	2,082
Pineapples	13,996	3,993	3,107	1,951	4,945
Tomatoes	1,582	214	434	863	71
Total	163,718	48,909	28,910	25,050	60,848
Milk	18,748	15,653	2,571	523	0
Beef Slaughter	12,949	6,316	3,168	1,627	1,837
Goat Slaughter	12,777	2,602	3,427	2,499	4,249
Total	44,473	24,571	9,166	4,650	6,086

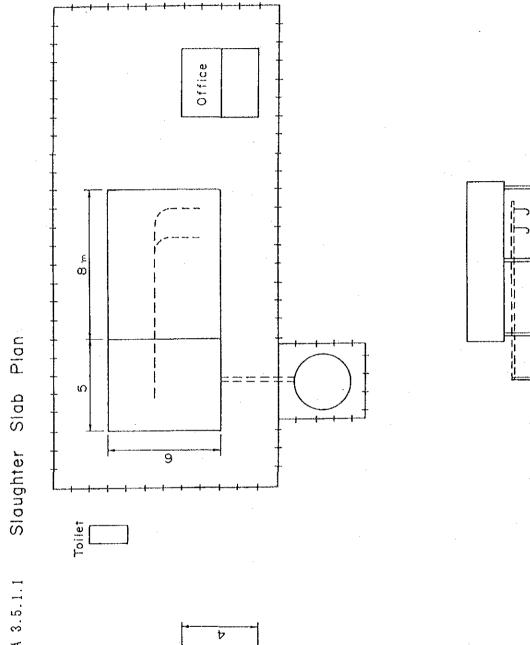
(6) Net Benefit of Agr	icultural Processi	ng		Unit : M	illion USH
<u></u>	Total	Luwero	Masaka	Mpigi	Mukono
Jaggary	6,112	2,706	1,058	664	1,684
Tea(Dry-Leave)	40	0	5	. 9	26
Cacao	941	0	119	217	605
Vanilla	26,411	7,437	4,327	3,924	10,723
Bananas	4,529	1,581	916	575	1,457
Cassava	2,493	652	634	639	568
Pineapples	12,456	3,554	2,766	1,736	4,401
Tomatoes	2,207	299	605	1,204	99
Total	55,189	16,229	10,430	8,969	19,562
Milk	2,801	2,339	384	78	0
Beef Slaughter	6,211	3,030	1,519	781	881
Goat Slaughter	2,654	540	712	519	883
Total	11,666	5,909	2,615	1,378	1,764
Agricultural Processing	Production				
in Rural Area	45,144	6,810	10,173	8,969	19,193
in Urban Area	10,045	9,419	257	0	369

(7) Labour use plan for	Agricultural P	rocessing			Unit : Man
	Total	Luwero	Masaka	Mpigi	Mukono
Jaggary	50,935	22,552	8,818	5,535	14,031
Tea(Dry-Leave)	379	0	48	87	243
Cacao	15,458	0	1,948	3,573	9,937
Vanilla	62,976	17,733	10,318	9,357	25,568
Bananas	18,116	6,325	3,663	2,300	5,829
Cassava	33,245	8,694	8,457	8,524	7,571
Pineapples	55,982	15,972	12,430	7,803	19,778
Tomatoes	6,662	902	1,827	3,634	300
Milk	431	360	59	12	0
Beef/Goat	64	31	16	8	: . 9
Total Required Labour	243,754	72,178	47,508	40,812	83,256
Capacity of					
Labor	512,767	28,960	177,916	168,550	137,341
For Rural Process	197,798	28,960	46,240	40,832	81,765
	1	0	1	1	1
For Urban Process	46,451	43,609	1,343	0	1,500
	0	1	0	0	0



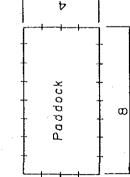
					Unit	: Number
	Suger Cane	Cacao	Solar Dry	Collection		Tractor
	Vanilla		House	Centre	Sub-Centre	Centre
Luwero	2	2	92	8	73	8.
Bamunanika			30	• 3	27	30
Buruli			9	1	8	
Katikamu	1	1	31	3	28	3
Nakaseke	1	1	22	1	10	1
Masaka	4	4	106	6	47	5
Bukoto	1	- 1	10	1	4	
Bukoman-	1	1	38	2	17	1
Kalungu	1	1	14	1	6	
Lwemiyaga	1	1	14	1	6	
Mawagola			30	1	14	1
Mpigi	4	3	92	5	41	4
Busiro	1	1	24	1	11	1
Butambara	-1		8	1	3	
Gomba			30	1	14	1
Kyadondo	1	1	10	1	4	
Mawokota	.1	1	20	· 1	9	1
Mukono	5	6	90	6	39	4
Bbale		. 1	20	1	9	1
Buikwe	1	1	22	1	10	1
Buvuma	1	1	6	1	2	
Mukono	1	1	18	1	8	
Nakifuma	1	1	14	1	6	
Ntenjeru	1	1	10	1	4	
Total	15	15	380	25	200	22

Table A3.5.1.2 Required Facilities for Agricultural Processing, Marketing and Farming

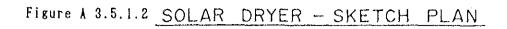


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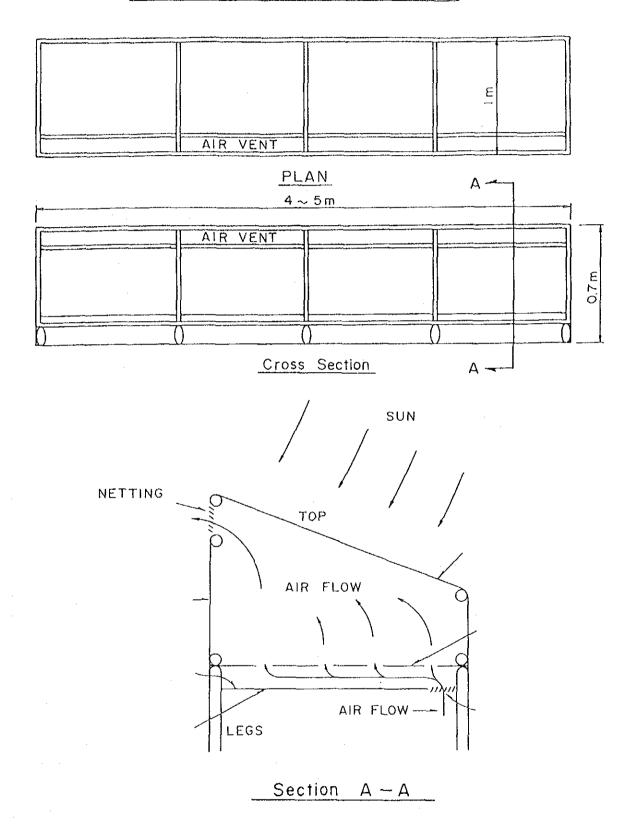




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## 3.5.2 Marketing

 Table A3.5.2.1 Food Production and Consumption Balance in Luwero

# (1) Production and Consumption Balance

	Agr	icultural Produ	ction Volume				
					Unit : ton		
Items	Bamunanika	Buruli	Katikamu	Nakaseke	Total		
Banana/Tubers	160,195	121,701	143,305	142,683	567,884		
Banana	73,532	34,133	63,431	65,100	236,196		
Tubers	86,663	87,568	79,874	77,583	331,688		
Cereals	21,584	17,325	22,156	15,678	76,743		
Riec(Paddy)	377	0	1,088	1,235	2,700		
Pulses	9,897	8,773	9,841	8,208	36,719		
Oilseeds	2,792	9,762	2,632	4,750	19,936		
Vegetables	8,539	1,925	13,966	8,725	33,155		
Fruits	39,494	4,012	32,445	30,937	106,888		
Items		ood Consumpti		Nakaseke	Unit : ton Total		
Items	Bamunanika	Buruli	Katikamu	Nakaseke	Total		
Banana/Tubers	68,542	63,722	93,394	59,479	285,137		
Banana	46,341	43,082	63,143	40,213	192,779		
Tubers	22,201	20,640	30,251	19,266	92,358		
Cereals	21,673	20,149	29,531	18,807	90,160		
Rice(Paddy)	529	491	720	459	2,199 21,258		
Pulses 5,110 4,751 6,963 4,434							
Oilseeds	2,114	1,966	2,881	1,835	8,796		
Vegetables 3,524 3,276 4,802 3,058					14,660		
Fruits 8,105 7,535 11,044 7,033 33,717							
Balance of Production and Consumption Volume Unit : tor							
Items	Bamunanika	Buruli	Katikamu	Nakaseke	Total		
Banana/Tubers	91,653	57,979	49,911	83,204	282,747		
Dununa Tubbio	1			04.0071	43,417		
Banana	27,191	-8,949	288	24,887			
Banana Tubers	64,462	66,928	49,623	58,317	239,330		
Banana Tubers Cereals	64,462	<u> </u>	49,623 -7,375	58,317 -3,129	239,330 -13,417		
Banana Tubers	64,462 -89 -152	66,928 -2,824 -491	49,623 -7,375 368	58,317 -3,129 776	239,330 -13,417 501		
Banana Tubers Cereals	64,462 -89 -152 4,787	66,928 -2,824 -491 4,022	49,623 -7,375 368 2,878	58,317 -3,129 776 3,774	239,330 -13,417 501 15,461		
Banana Tubers Cereals Rice(Paddy) Pulses Oilseeds	64,462 -89 -152 4,787 678	66,928 -2,824 -491 4,022 7,796	49,623 -7,375 368 2,878 -249	58,317 -3,129 776 3,774 2,915	239,330 -13,417 501 15,461 11,140		
Banana Tubers Cereals Rice(Paddy) Pulses	64,462 -89 -152 4,787	66,928 -2,824 -491 4,022	49,623 -7,375 368 2,878	58,317 -3,129 776 3,774	239,330 -13,417 501 15,461		

(2) Food Production								in Luwero (Plan)	o (Flan)		
Itcm	Yicld/ha	E	Bamunanika	В	Buruli	Kati	Katikamu	Nak	Nakasckc	Ţ	Fotat
		Arca	Production	Arca	Production	Arca	Production	Arca	Production	Arca	Production
	ton	ha	ton	ha	ton	ha	ton	ha	lon	ĥa	ton
Cash Crops											
Coffec(Robsta)	1.75	8,100	14.175	270	473	7,020	12.285	2.700	4.725		31,658
Sugar Canc	50.00	5.091	254,550	4.966	248,300	5,113	255,650		199,400	19,158	957,900
Tca	5.00	0	0	0	0	0	0	0	0	0	0
Cacao	0.78	69	54	0	0	23	18	0	0	92	72
Cotton	0.79	644	615	1,797	1,420	759	009	069	545	4,025	3,180
Vanilla	2.50	161	478	0	0	194	485	46	115	431	1 078
Food Crops											
Banana/Tubers		16,066	160.195	11,727	-	14.373	143,305	-	142,683		567,884
Banana	8.10	9.078	73,532	4,214		7,831	63,431		65,100		236,196
Tubers		6.988	86,663	7.513		6.542	79.874		77,583		331,688
Cassava	13.26	4,107	54,459	1.926	25,539	3.209	42.551		47.656	12.836	170.205
Sweet Potatos	11.08	2.759	30,570	5.519		3,173	35.157		25,983		152.861
Irish Potatos	14.00	104	1.456	50		142	1,988	269	3,766		7.910
Yams	9.87	18	178	18	178	18	178	18	178	72	712
Cercals		11.549	21,584	9,647	17,325	11.857	22,156	8.525	15.678		76.743
Maizc	1.87	11.046	20,656	4,846	9.062	11,344			11,702		62,633
Finger Millet	1.54	129	661	2,681	4,129	139	214	1.085	1.671		6.213
Sorghum	1.95	374	729	2,120	4,134	374			2,305		7.897
Rice	2.45	44	377	0	0	222			1,235	ŧ	2.700
Pulses		7,172	9,897	6,357	8,773	7.131			8,208	26,608	36.719
Bcans	1.38	7,172	9.897	6,357	8,773	7,131	9,841		8.208	26,608	36.719
Field Peas	0.84	0	ō	0	0	0		0	0	0	ō
Cow Pcas	0.66	0	0	0	0	0	3	0	0	0	ō
Pigcon Pcas	1.10	0	0	0		0	0	0	0	0	Ċ
Oilseeds		1,684	2,792	600'9		1.592	2,632	2,903	4.750	12,188	19,936
Groundnuts	1.64	576	945	4,912		582	954	1.826	2,995	7,896	12,950
Simsim	0.85	50	17	67	57	8	17	26	22	133	113
Soyabcan	1.69	1,067	1,803	802		961	1.624,	944	1,595	3,774	6.377
Sunflowers	1.29	21	27	228	294	53		;	138	385	496
Vegetables		1.381	8.539	313	1,925	2,058		-	8.725	5,040	33,155
Tomatocs	10.91	325	3,546	74	807	664		413	4.506	1.476	16.103
Onions	9.11	62	565	12	109	107			610		2.259
Cabbages	4.48	675	3.024	125	560	1.048			3,006		11,285
Greens	4.40	319	1,404	102	449	239		137.	603	L61	3,508
Fruits		1,232	39,494	227	4,012	1,044			30,937	3,447	106,888
Pincapplcs	37.35	86	36,977	68	2,540	801			29.357	2,645	98,791
Passionfruits	11.41	185	2,111	84	958	186			1.232	563	6,423
Avocado	10.00	00 0	8	00 0	8	00 0	000	5	8	88	0000
J.Inuits/Faw-paw/Mango	10.00	× ;	SS.	χ	22	×	SU SU SU	0	8	ŝ	
Others(Iruits)	0.0	41	240	5	554	41	246	38	877	6/1	1,0/4

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Item	Cconsump.	Bamunanika	anika		ili	- <b>X</b>	amu	<b>G</b> 1	sckc	51	al
	/Capita Kg	Popula.	Consump. ton	Popula.	Consump. ton	Popula.	Consump. ton	Popula.	Consump. ton	Popula.	Consump. ton
Cash crops Coffee(Robsta)											
Sugar Cane				+							
Tca											
Cacao											
Cotton											
Vanilla											
Food crops Banana/Tubers			68.542	:	63,722		93,394			0	285,137
Banana	0.263	176.201	46,341	163,811	43,082	240,087	63,1431 20 751	152.901	40.213	733,000	192.779
Cascaura	071.0	1/0/1	102,22	110,001	040,02	100,042	107'00	104'701		MN/651	,00.26
Cassava Sweet Potatos											
Yams											
Cereals	0.123	176.201	21,673	163,811	20,149	240,087	29,531	152.901	18,807	733,000	90,160
Maixe											
Finger Millet Sorghum				•							
Rice	0.003	176.201	529	163,811	491	240.087	720			733,000	
Pulses	0.029	176.201	5.110	163,811	4,751	240,087	6,963	152,901	4,434	733,000	21,258
Bcans											
Ficia Fcas											
Cow Peas Pieron Peas	:				. <u> </u>						
Oilseeds	0.012	176,201	2,114	163,811	1,966	240,087	2,881	152,901	1,835	733,000	8,796
Groundnuts			· ·								
Simsim					te						
Soyabean											
Sunflowers								.			
Vegetables	0.020	176,201	3,524	163,811	3,276	240,087	4.802	152.901	3,058	733,000	14,660
Tomaloes											
Onions											
Cabbagcs											
Greens						1		ł		i	
Fruits	0.046	176,201	8,105	163.811	7,535	240,087	11,044	152,901	7,033	733,000	33,717
Pincapples Precionfanite											
J.fruits/Paw-paw/Mango											
Others/fravite)	_					_					

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## (1) Production and Consumption Balance

Items Banana/Tubers Banana Tubers Cereals Riec(Paddy) Pulses Oilseeds Vegetables Fruits Items Banana/Tubers Banana Tubers Cereals Rice(Paddy) Pulses	Bukoto 349,536 243,543 105,993 14,976 4,077 10,908 8,290 26,236 51,626 Bukoto 267,323 180,735 86,588	153,851 40,715 7,481 3,175 6,162 2,369 13,293 22,733 Food Consum Bukomansimbi 80,233	148,821 98,512 50,309 7,123 946 5,112 1,825 13,523 11,130 pption Volur Kalutanga	42,049 26,276 15,773 4,045 0 1,480 1,394 2,871 4,025 ne	168,954 121,411 47,543 6,316 617 4,254 2,793 4,849 9,054	Total 903,9 643,5 260,3 39,9 8,8 27,9 16,6 60,7 98,5
Banana Tubers Cereals Riec(Paddy) Pulses Oilseeds Vegetables Fruits Fruits Banana/Tubers Banana Tubers Cereals Rice(Paddy)	243,543 105,993 14,976 4,077 10,908 8,290 26,236 51,626 Bukoto 267,323 180,735	153,851 40,715 7,481 3,175 6,162 2,369 13,293 22,733 Food Consum Bukomansimbi 80,233	98,512 50,309 7,123 946 5,112 1,825 13,523 11,130 pption Volur Kalutanga	26,276 15,773 4,045 0 1,480 1,394 2,871 4,025 ne	121,411 47,543 6,316 617 4,254 2,793 4,849 9,054	643,5 260,3 39,9 8,8 27,9 16,6 60,7 98,5
TubersCerealsRiec(Paddy)PulsesOilseedsVegetablesFruitsItemsBanana/TubersBananaTubersCerealsRice(Paddy)	105,993 14,976 4,077 10,908 8,290 26,236 51,626 Bukoto 267,323 180,735	40,715 7,481 3,175 6,162 2,369 13,293 22,733 Food Consum Bukomansimbi 80,233	50,309 7,123 946 5,112 1,825 13,523 11,130 nption Volur Kalutanga	15,773 4,045 0 1,480 1,394 2,871 4,025 ne	47,543 6,316 617 4,254 2,793 4,849 9,054	260,3 39,9 8,8 27,9 16,6 60,7 98,5
Cereals Riec(Paddy) Pulses Oilseeds Vegetables Fruits Items Banana/Tubers Banana Tubers Cereals Rice(Paddy)	14,976 4,077 10,908 8,290 26,236 51,626 51,626 Bukoto 267,323 180,735	7,481 3,175 6,162 2,369 13,293 22,733 Food Consum Bukomansimbi 80,233	7,123 946 5,112 1,825 13,523 11,130 nption Volur Kalutanga	4,045 0 1,480 1,394 2,871 4,025 ne	6,316 617 4,254 2,793 4,849 9,054	39,9 8,8 27,9 16,6 60,7 98,5
Riec(Paddy)PulsesOilseedsVegetablesFruitsFruitsBanana/TubersBananaTubersCerealsRice(Paddy)	4,077 10,908 8,290 26,236 51,626 Bukoto 267,323 180,735	3,175 6,162 2,369 13,293 22,733 Food Consum Bukomansimbi 80,233	946 5,112 1,825 13,523 11,130 pption Volur Kalutanga	0 1,480 1,394 2,871 4,025 ne	617 4,254 2,793 4,849 9,054	8,8 27,9 16,6 60,7 98,5
Pulses	10,908 8,290 26,236 51,626 Bukoto 267,323 180,735	6,162 2,369 13,293 22,733 Food Consum Bukomansimbi 80,233	5,112 1,825 13,523 11,130 nption Volur Kalutanga	1,480 1,394 2,871 4,025 ne	4,254 2,793 4,849 9,054	27,9 16,6 60,7 98,5
Oilseeds Vegetables Fruits Items Banana/Tubers Banana Tubers Cereals Rice(Paddy)	8,290 26,236 51,626 Bukoto 267,323 180,735	2,369 13,293 22,733 Food Consum Bukomansimbi 80,233	1,825 13,523 11,130 pption Volur Kalutanga	1,394 2,871 4,025 ne Lwemiyaga	2,793 4,849 9,054	16,0 60,7 98,5 Unit :
Vegetables Fruits Items Banana/Tubers Banana Tubers Cereals Rice(Paddy)	26,236 51,626 Bukoto 267,323 180,735	13,293 22,733 Food Consum Bukomansimbi 80,233	13,523 11,130 pption Volur Kalutanga	2,871 4,025 ne Lwemiyaga	4,849 9,054	60,7 98,5 Unit :
FruitsItemsBanana/TubersBananaTubersCerealsRice(Paddy)	51,626 Bukoto 267,323 180,735	22,733 Food Consum Bukomansimbi 80,233	11,130 uption Volur Kalutanga	4,025 ne Lwemiyaga	9,054	98,: Unit :
Items Banana/Tubers Banana Tubers Cereals Rice(Paddy)	Bukoto 267,323 180,735	Food Consun Bukomansimbi 80,233	ption Volur Kalutanga	ne Lwemiyaga		Unit :
Banana/Tubers Banana Tubers Cereals Rice(Paddy)	267,323 180,735	Bukomansimbi 80,233	Kalutanga	Lwemiyaga	Mawagola	
Banana/Tubers Banana Tubers Cereals Rice(Paddy)	267,323 180,735	80,233			managona	
Banana Tubers Cereals Rice(Paddy)	180,735			13,395	77,927	535,2
Tubers     Cereals     Rice(Paddy)						361,8
Cereals Rice(Paddy)				4,339	25,241	173,
Rice(Paddy)	84,526		30,477	4,235	24,640	169,2
	2,062		743	103	601	4,
	19,929		7,186	999	5,809	39,9
Oilseeds	8,246		2,973	413	2,404	16,
Vegetables	13,744		4,956	689	4,007	27,
Fruits	31,612		11,398	1,584	9,215	63,
		e of Production a				Unit :
ltems	Bukoto	Bukomansimbi				Tota
Banana/Tubers	82,213					368,
Banana	62,808		· · ·			281,
Tubers	19,405		19,089	11,434	22,302	86,9
Cereals	-69,550					-129,
Rice(Paddy)	2,015		203	-103	16	4,
Pulses	-9,021	181	-2,074	481	-1,555	-11,
Oilseeds	44				389	
Vegetables	12,492				842	33, 35,
Fruits	20,014	13,245	-268	2,441	-161	



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. Item	Yicld/ha	Bi	Bukoto	Buko	Bukomansibi	Kalı	Kalulanga	Lwc	Lwcmiyaga	Mav	Mawagola	T	Total
	·		Production	Arca	Producti	Arca	١ž.	Arca	1.5	Arca	ΙĔ	Arca	Producti
	ton	ha	ton	ha	lon	ha	ton	lat	ton	ha	ton	ha	ton
Lash Lrops Coffec(Robsta)	1.75	14,135		5.302	9.279	2.749	4.811	117	205	4,498	7,872	26.801	46,903
Sugar Cane	50.00	4 7 69		1249		683	34 100	525	26.250	1.125		7 850	392,500
Tra	200	427	257 6	150		175	275		C.			103	4 105
	000	101		010	- CC -							170	
Lacao	0./8	126		248	193	951	101	S		C	5	ŝ	
Cotton	0.79	584		0		<del>(1</del> )	57	4	58	153	121	814	642
Vanilla	2.50	61	198	45	113	24	09	9	15	12	30	166	
Food Crops													
Banana/Tubers	•••	38.497	349.536	22.350		16.343	148.821	4,495	42,049	18.756	168.954	100.441	903.926
Banana	8.10	30.067	243.543	18.994	153,851	12.162	98.512	3.244		14.989			
Tubers		8.430	105.993	3.356		4.181	50.309	1.251	15.773	3.767			
Cassava	13.26	× 77 ×		1 575		1 783	73 643	806	10.689	7 597			
Current Detection	0011	2440				2265	100.70	202	575 F	101			
	00.11	000	Ċ.	1,140		00,014	107'07	120		171.1	174.71	ó	n
ITISH FOLAROS	14.00	5	010	2	04	Ĵ,	704	<u>.</u>	74/	44	090	2	7,5/0
Yams	9.87	0	0	0	0	0		0		0		. 1	
Cercats		8,191	-	4,000	7,481	3,759		2,320					
Maize	1.87	4,596		2.651	4.957	2,583	4,830	799		1,571			
Finger Millet	1.54	1,535		258	397	0	0	1,010			1,602	3,843	
Sorghum	1.95	2,060		1,091		1.176		511	966				
Rice	2.45	832		648		193				ĺ		1	
Pulses		7,920		4,482		3,709			1.480	3.085	4	20.271	
Beans	1.38	7,882	10.877	4,439		3,698	5,103			3,078			27,829
Ficld Peas	0.84	35		39		10			**	6	Ś	95	
Cow Peas	0.66	ŝ	10	4	e	1		I		-4	7	10	00
Pigcon Pcas	1.10	0		0		0	Ö	ō	0	0	0	0	
Oilscods		5,048	8,290	1,432	2,369	660'1	1,825	845	1,394	1,700	2.793	10,124	16,671
Groundnuts	1.64	4,051	6,644	998	1,637	656	1.076	431	107	1.151	1,888	7,287	11,952
Simsim	0.85		'n	6		0	0	S	4	Ś	4	15	н
Soyabcan	1.69	903	1,526	432	. 730	443	749	388	656	497	840	2,663	
Sunflowers	1.29			0		0		21		47			·
Vegetables		3,991		1,966	13.293	2,166	_	454	5	758		9.335	60.772
Tomatoes	10.91	1,318	14.379	703		ŝ	6,611	132	1,440	229	2,498		
Onions	9.11			0	0	0	0			0	÷	0	
Cabbages	4.48	-		830		607	2,719			298			13,949
Greens	4.40	1,472		433		953				231		3,233	
Fruits		-		673		324				269			
Pincapples	37.35	÷	4	581		287	ğ	2	3,8	233	య	~	O
Passionfruits	11.41		<u> -</u>	83	947	32		~			217		ω.
Avocado		12	120	4	40	C1	20	1	10	4		23	230
J.fruits/Paw-paw/Mango	10.00			4		5		-	10	4	40		
Others(fruits)				1	v	1	Ŷ	ŝ	30			. '	

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(3) Food Consumption		·								in Masaka (Plan)	lan)		
ltcm	Cconsump.	Bukoto	010	Bukomansibi	ansibi	Kalutanga	nga	Lwcmiyaga	iyaga	Mawagola	igola	Total	lai
	/Capita kg	Popula.	Consump. ton	Popula.	Consump.	Popula.	Consump.	Popula.	Consump. ton	Popula.	Consump. ton	Popula.	Consump ton
Cash crops Coffee(Robsta)													Ī
Sugar Cane													
Tca													
Cacao				-			-						
Cotton							<b> </b>						
Vanilla													
Food crops Ranana/Tubers			767 272		20 732		06 306		13 305		700 LL		225 761
Banana	0.263	687 207	180.735	206.254	54 245	747 780	65166	250 25	9.056	200326	57 686	1 376 000	341 282
Tubore	2010	200 282	06 200	102002	25 20 20	001.114	000100	CCV VC	0000	202002	140.40	00000101	000100
Cassava	07170	104(100	00000	1000	00/17		07710			070'007	117607	00000 / C* T	
Sweet Potatos													
Irish Potatos													
Yams													
Cercals	0.123	687,207	84,526	206,254	25,369	247.780	30,477	34,433	4,235	200,326	24.640	1.376,000	169.247
Maizc				•••									
Finger Millet			<del>(</del>	•									******
Sougnum		LUC 107		202 202	017	000 010	175	CC7 70		200.000	102	000 200 1	
KICC	0.003	107.180	700'7	200,234	019	241.180	/43	54.455	105	200.320	100	1.3/6,000	
Pulses	0.029	687,207		206.254	5,981	247,780	7,186	34,433		200,326	5.809	1,376,000	39,904
Beans													
Ficid Peas				•							·		
Cow Pcas													•
Pigcon Pcas				•							~~~~		
Oilseeds Groundhuts	0.012	687,207	8,246	206,254	2,475	247,780	2,973	34,433	413	200.326	2,404	1,376,000	16.511
Simsim													
Sovabcan											L		
Sunflowers													
Vegetables	0.020	687,207	13,744	206.254	4,125	247.780	4,956	34,433	689	200.326	4.007	1.376,000	27,521
Tomatocs													
Onions				••••									****
Cabbages				- *-									
Greens				1						• ••			
Fruits	0.046	687,207	31.612	206,254	9,488	247.780	11,398	34,433	1,584	200.326	9.215	1,376,000	63.297
Pincapples													
Passionfruits													
Avocado							•						inereral de
J.fruits/Paw-paw/Mango													
Others(fruits)													

Table A3.5.2.3 Food Production and Consumption Balance in Mpigi

(1)	Production	and	Consumption	Balance

	·	Agricultural I	Production V	olume		
						Unit : ton
Items	Busiro	Butambara	Gomba	Kyadondo	Mawokota	Total
Banana/Tubers	194,681	75,100	96,169	174,287	181,393	721,630
Banana	93,255	28,747	35,932	85,180	78,019	321,133
Tubers	101,426	46,353	60,237	89,107	103,374	400,497
Cereals	16,214	4,643	7,071	12,845	11,979	52,752
Rice(Paddy)	3,366	946	0	2,132	5,214	11,658
Pulses	11,786	7,247	9,519	10,622	11,215	50,389
Oilseeds	2,265	1,998	2,278	1,750	2,047	10,338
Vegetables	18,721	13,506	10,503	15,740	16,519	74,989
Fruits	13,903	3,075	5,172	8,353	7,331	37,834
		East Cons	umption Vol	1173.0		
		rood Collsa				Unit : ton
Items	Busiro	Butambara	Gomba	Kyadondo	Mawokota	Total
Banana/Tubers	189,129	46,975	75,827	167,866	99,813	579,610
Banana	127,869	31,759	51,266	113,493	67,483	391,870
Tubers	61,260	15,216	24,561	54,373	32,330	187,740
Cereals	59,802	14,853	23,976	53,079	31,560	183,270
Riec(Paddy)	1,459	362	585	1,295	770	4,471
Pulses	14,100	3,502	5,653	12,514	7,441	43,210
Oilseeds	5,834	1,449	2,339	5,178	3,079	17,879
Vegetables	9,724	2,415	3,899	8,631	5,132	29,801
Fruits	22,365	5,555	8,967	19,851	11,803	68,541
		of Production		-		Unit : ton
Items	Busiro	Butambara	Gomba	Kyadondo	Mawokota	Total
Banana/Tubers	5,552	28,125	20,342	6,421	81,580	142,020
Banana	-34,614	-3,012	-15,334			-70,737
		01 1001	35,676	34,734	71,044	212,757
Tubers	40,166	31,137				100 010
Cereals	-43,588	-10,210	-16,905	-40,234	-19,581	
Cereals Rice(Paddy)	-43,588 1,907	-10,210 584	-16,905 -585	-40,234 837	-19,581 4,444	-130,518 7,187
Cereals Rice(Paddy) Pulses	-43,588 1,907 -2,314	-10,210 584 3,745	-16,905 -585 3,866	-40,234 837 -1,892	-19,581 4,444 3,774	7,187 7,179
Cereals Rice(Paddy) Pulses Oilseeds	-43,588 1,907 -2,314 -3,569	-10,210 584 3,745 549	-16,905 -585 3,866 -61	-40,234 837 -1,892 -3,428	-19,581 4,444 3,774 -1,032	7,187 7,179 -7,541
Cereals Rice(Paddy) Pulses	-43,588 1,907 -2,314	-10,210 584 3,745	-16,905 -585 3,866	-40,234 837 -1,892	-19,581 4,444 3,774	7,187 7,179

licm	Yicld/ha	Bu	Busiro	Buta	Butambara	00 C	Gomba	Kya	Kyadondo	Mav	Mawokota		Totał
	L	Arca	Production	Arca	Production	Arca	Production	Arca	Production	Arca	Production	Arca	Production
	ton	ha	ton	ha	ton	ha	ton	ha	ton	ha	lon	ha	ton
Cash Crops		2.0 4	0		0.0								
COLLCC KODSLA)	C/-1	4.61.0	07470	1.00 1	C02.7	1.92	0/00	004,4	06/')	765.4	8,/30	97911	51.199
Sugar Cane	50.00	3,134	156,700	1.392	009.69	1.604	80.200	2.203	110,150	1.970	98	10.303	515.150
Tca	5.00	221	1,105	2	350	63	315	14]	705	81	405	576	2,880
Cacao	0.78	982	766	137	107	101	62	676	527	445		2.341	1,826
Cotton	0.79	0	0	7	3	111	88	0	0	C-1	P	115	6
Vanilla	2.50	61	861	12	30	15	38	43	108	17		166	417
Food Crops													
Banana/Tubers		19,903	194,681	7,518	75,100	9.588	96,169	17,944	174,287	18,269	181.393	73,222	721.630
Banana	8.10	11.513	93.255	3.549	28,747	4,436	35,932	10.516	85,180		78,019	39,646	321,133
Tubers		8.390	101,426	3.969	46.353	5,152	60.237	7,428	89,107		103.374	33,576	400,497
Cassava	13.26	3,776	50.070	1,006	13.340	1.385	18,365	3.020	40.045		45.044	12,584	166,864
Sweet Potatos		4,489	49.738	2.855	31,633	3,676	40,730	4.287	47,500	5,102	56,530		226,131
Irish Potatos	14.00	93	1,302	76	1.064	59	826	89	1.246		1.484		5.92
Yams	9.87	32	316	32	316	32	316	32	316		316	160	1.580
Cereals		8.662	16,214	2.476	4,643	3.804	7,071	6.861	12,845		11,979	28,199	52,752
Maize	1.87	8.462	15,824	2,313	4,325	3.334	6.235	6.670	12,473	6.170	11,538	26,949	50:395
Finger Millet	1.54	0	0	Õ	0	196	302	0	0	0	0	196	302
Sorghum	1.95	200	390	163	318	274	534	191	372	226	14	1,054	2,055
Rice	2.45	687	3,366	193	946	0	0	435	2,132		5.214	2.379	11,658
Pulses		8.543	11.786	5,254	7,247	6,900	9.519	7,699	10,622	8,129	11,215	36,525	50,389
Beans	1.38	8,537	11,781	5.248	7.242	6.894	9.514	7,695	10,619		11.210	36.497	50,36
Field Peas	0.84	9	vn i	ý ·	<u>v</u> -	0	2	4	<del>.</del> Э	9	Ś	58	~
Cow Peas	0.66	0	0	0	0	ö	0	0	0	0	0	õ	
Pigcon Pcas	1.10	0	0	0	0	0	0	0	0	0	ō	0	
Oilsceds		1,353	2,265	1.194	1,998	1,373	2.278	I.048	1,750	1.228	2,047	6,196	10,338
Groundnuts	1.6	424	695	404	663	567	026	424	695	464	761	2,283	3,744
Simsim	0.85	0	0	0	0	6	8	<u> </u>	0		Ś	. 15	
Soyabcan	1.69	929	1,570	790	1,335	780	1.318	624	1.055	758	1,281	3,881	6,559
Sunflowers	1.29	0	0	0	0	17	22	0	0	0		17	7
Vegetables		2.028	18,721	1,466	13,506	1,140	10,503	1.708	15,740	1,792		8.134	74,989
Tomatocs	10.01	1.486	16,212	1,070	11,674	833	9,088	1,249	-		-	5,946	64,871
Onions	9.11	8	164	13	118	6	82	[] []	118		2	11	646
Cabbages	4.48	485	2,173	349	1,564	272	1.219	407				1.940	8,692
Greens	4.40	39	172	34	150	26	114	39	172	39		177	780
Fruits	•	429	13,903	102	3.075	157	5.172		8.353			1.147	37,834
Pincapplcs	37.35	348	12,998	74	2,764	132	4.930		7,993	061	2	958	35,782
Passionfruits	11.41	<u>6</u>	1664	25	285	4	160		274	5	148		1,666
Avocado	10.00	<u>v</u> ,	50	T	10	6	20	4	<del>0</del>	4	4		
J.fruits/Paw-paw/Mango	10.00	S	50	1	10	7	20	4	4	4	64	16	160
Others(fruits)	6.00		6	1	Q	7	42	1	•	1	\$	11	-

(2) rood Consumption										in Mpigi (Plan)	an)		
Item	Cconsump.	Busiro	tiro	E	bara	E	ba	Kyadondo	opuc	Mawokota	okota	Total	al
	/Capita [ kg]	Popula.	Consump. ton	Popula.	Consump. ton	Popula.	Consump.	Popula.	Consump. ton	Popula.	Consump.	Popula.	Consump. ton
Cash crops Coffee(Robsta)													
Sugar Canc													
Tca													Ī
Cacao									+				
Cotton							}						
Vanilla													
Food crops													
Banana/Jubers			189.129	010 001	46,975		75,827		167,866	000 000	59,813	000000	579,610
Banana	0.205	480,194	608.121	86/.021	KC/.16	194,920	007.14	430,154	115,495	880.002		1,490,000	0/2,145
I ubers	0.126	480,194	61,200	120,/28	15,216	97.9.70	24,561	450,154	54,575	220.062	32.330	1,490,000	181.740
Cassava													
Sweet Potatos													
Irish Potatos													
rams	00.0	101201		010 00.		200.01	20.00	102 .01	000 92		ļ	1000000	000 000
Cereals	671.0	480,194	208.40	86/.071	14,855	076.941	0/6/57	450,154	610,50	880.007	100,10	1,490,004,1	183.2/0
Maize					_12.92		••••						• • •
Finger Millet													
Sorghum													
Rice	0.003	486.194		120,758	362	194,926	585	431,534	1,295	256.588		1,490,000	4.471
Pulses	0.029	486,194	14,100	120.758	3,502	194,926	5,653	431.534	12.514	256,588	7,441	1,490,000	43.210
Bcans							•				-		
Field Peas								с. <u> </u>					
Cow Peas		•											
Pigcon Pcas	·											- 1	
Oilsceds	0.012	486.194	5,834	120.758	1,449	194,926	2,339	431,534	5,178	256.588	3,079	1,490,000	17,879
Cromonuts												<b>Ler he</b>	
Simsim											*****	<u>e</u>	, <b>20 2</b>
Soyabcan													
Sunflowers												ŧ	
Vegetables	0.020	486,194	9.724	120,758	2,415	194,926	3,899	431.534	8.631	256,588	5,132	1,490,000	29,801
Tomatocs										-104-			
Onions													
Cabbagcs	±.#												
Greens													
Fruits	0.046	486,194	22,365	120,758	5,555	194,926	8,967	431,534	19,851	256,588	11,803	1,490.000	68,541
Pincapples													
Passionfruits													
Avocado													
J.fruits/Paw-paw/Mango				•									
Others(Iruits)						_							

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## Table A3.5.2.4 Food Production and Consumption Balance in Mukono

### (1) Production and Consumption Balance

		Agricult	ural Produc	tion Volume	e		
							Unit : ton
Items	Bbale	Buikuwe	Buvuma	Mukono	Nakifuma	Nutenjeru	Total
Banana/Tubers	42,607	91,413	30,658	182,580	117,713		607,490
Banana	17,674	70,300	28,431	132,872	54,489	65,910	369,676
Tubers	24,933	21,113	2,227	49,708			237,814
Cereals	7,077	6,926	1,532	7,288	10,014	11,911	44,748
Riec(Paddy)	0	1,186	0	1,661	377	10	3,234
Pulses	4,229	4,267	3,581	4,466	6,200	6,142	28,885
Oilseeds	1,833	866	215	1,015	1,130		6,630
Vegetables	60	1,348	0	2,248			7,277
Fruits	9,116	14,909	2,879	20,369	17,359	28,650	93,282
Itoma	Bhala		Consumptio		Nakifuma	Nutenieru	Unit : ton
Items	Bbale	Buikuwe	Buvuma	Mukono	Nakifuma		Total
Banana/Tubers	54,070	158,712	11,710	115,113			522,428
Banana	36,556	107,304	7,917	77,827			353,209
Tubers	17,514	51,408	3,793	37,286			169,219
Cereals	17,097	50,184	3,702	36,398	27,592	30,216	165,189
Rice(Paddy)	417	1,224	90	888	673	737	4,029
Pulses	4,031	11,832	873	8,582	6,505	7,124	38,947
Oilseeds	1,668	4,896	361	3,551	2,692	2,948	16,116
Vegetables	2,780	8,160	602	5,918	4,487	4,913	26,860
Fruits	6,394	18,768	1,385	13,612	10,319	11,300	61,778
		nce of Produ		-			Unit : ton
Items	Bbale	Buikuwe	Buvuma	Mukono		Nutenjeru	Total
Banana/Tubers	-11,463	-67,299	18,948	67,467			85,062
Banana	-18,882	-37,004	20,514	55,045			16,467
Tubers	7,419	-30,295	-1,566	12,422			68,595
Cereals	-10,020	-43,258	-2,170	-29,110			-120,441
Rice(Paddy)	-417	-38	-90	773			-795
	1 100	-7,565	2,708	-4,116			-10,062
Pulses	198				-1,562	-1,377	-9,486
Pulses Oilseeds	165	-4,030	-146	-2,536			
Pulses		-4,030 -6,812 -3,859	-146 -602 1,494	-2,536 -3,670 6,757		-3,326	-19,583 31,504

and the state of the second state of the

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(2) Food Production												in Mukono (Plan)	o (Plan)		
· Itcm	Y icld/ha	Bt	Bbalc	Bu	Buikwc	Bur	Buvuma	Mu	Mukono	Na	Nakifuma	ÑN.	Ntcnjcru		Total
		Arca	Production	Arca	Production	Arca	Production	Arca	Production	Arca	Production	Arca	Production	Arca	Production
	ha	ton	ha	ton	ton	ha	lon	ha	ton	ha	ton	ha	ton	ha	ton
Cash Crops	1 76	104.4	CUL 1	2 0.67	22011	~~~		U7V 01	000 00	2 000	13 007	012 21	700 00	25 576	
Current Cana		1 764	10/10	10017	1025 200 1	063	72.050	104.01	2007 200	1 570	2222	V2L C		00000	c
Sugar Carlo	00.00	; ;	-007"/Q	20,14/	000,00,1	700	006'07	1760'4	2041/00	1.02	000.022		-	070*44	1
LC2	00.0	5	C77	80/	<i><b>c</b><i>tt</i><b>. 4</b></i>	4	C52	200 200	4,000	1,492	1,400			104.5	
Cacao	0.78	288	225	2.301	1.795	709	553	1,226	956	3.865	3.015	-15		9.969	7
Cotton	0.79	334	264	0	0	õ	ō	0	0	21	17	76		431	341
Vanilia	2.50	20	50	64	198	21	53	101	253	106	265	93	233	420	1,052
Food Crops															
Banana/Tubers		4,325	42,607	10.512	91,413	3,679	30,658	20,373	182.580	11,758	117.713	14,255	142.519	64.902	607.490
Banana	8.10	2,182	17.674	8,679	70,300	3.510	28,431	16,404	132.872	6,727	54.489	8,137	65.910	45.639	369.676
Tubers		2,143	24,933	1,833	21,113	169	2,227	3.969	49,708	5,031	63.224	6.118	76,609	19.263	237,814
Cassava	13.26	548	7.266	371	4.919	165	2.188	2.622	34,768	3,423	45,389	4.049		11.178	
Swcct Potatos	11.08	1.591	17,628	1.458	16.155	ò	0	1.336	14.803	1,596	17,684	2.065		8,046	89,150
Irish Potatos	14.00	0	0	0	0	0	0	7	86	80	112	0	0	15	210
Yams	9.87	4	39	4	39	4	39	4	39	4	39	4	39	24	
Cereals		3.982	7.077	3.715	6.926	819	1.532	3.897	7.288	5.351	10.014		116.11	24.202	44.748
Maizc	1.87	2,443	4,568	3.489	6.524	819	1.532	3.711	6,940	5,098	9.533	5.855		21.415	
Finger Millet	1.54	1.200	1,848	96	148	0	0	35	54	31	48			1.789	
Sorghum	1.95	339	661	130	254	0	0	151	294	222	433	_	304	866	
Rice	2.45	0	0	242	1,186	0	0	339	1.661	11	377	:	10	880	
Pulses		3,067	4,229	3,098	4.267	2.595	3.581	3.242	4,466	4,497	6.200			20.955	
Bcans	1.38	3,060	4,223	3.084	4,256	2,595	3,581	3.230	4.457	4,487	6.192	4	6,134	20.901	
Field Peas	0.84	7	9	5-	6	0	0	~	9		9	4		32	
Cow Pcas	0.66	0	0	7	\$	6	0	5	3	Ś	6	-		22	15
Pigcon Pcas	1.10	0	0	0	0	0	õ	0	0	0	0			¢	
Oilseeds		1,163	1,833	538	866	147	215	628	1.015	669	-		1,571	4,158	
Groundnuts	1.64	705	1,156	197	323	0	0	259	425	246	403		-	1.883	3,088
Simsim	0.85	58	49	0	¢	0	0	0	0	v				5	
Soyabcan	1.69	279	472	258	436	2	108	286	483	364		384	-	1,635	
Sunflowers	1.29	121	156	8	107	83	107	8	107	83				536	691
Vegetables		11	8	173	1,348	0	0	270	2,248	242			1.587		
Tomatocs	10.91		11	87	949	0	¢	155	1.69.1	142	- 1	8 8			5.356
Onions	9.11	-	6	3	27	0	0	6	82	8					
Cabbages	4.48	¢	27	81	363	Ö	0	8	444	8	403	LL		353	
Greens	4.4	m	13	2	6	0	ō			8		-			102
Fruits		268	9,116	450	14,909	87	2,879	614		521		826		2,766	
Pincapples	37.35	237	8.852	378	14,118	5	2,727		ę	4	10		21.		
PassionIruits	11.41	10	114	ŝ	605	11	126			65			~~~	(1	
Avocado	10.00	'n	30	6	8	1	10		99	~	20	9	60		
J.fruits/Paw-paw/Mango	10.00	m	30	<u>о</u> ,	8		10	Ŷ	8	r~- '	70	9		33	320
Others(fruits)	6.00 6	5	8	-	0	-	9		\$		۵ 		¢	N.	

			Total Consump.	uoj -								353,209				100.31				4.029					16,116				26.860				61.778				
			Tc Poputa.									1.343.000				1 240 000				1.343.000	1.343.000				1.343.000				1,343,000				1,343,000				
		(Plan)	Consump.	ton							95.560					210.00	017:00				7,124				2,948				4.913	-			11.300				-
		in Mukono (Plan)	Popula. Co									245.655				745 256	0000047			245.655	ł				245.655				245,655				245,655				
			uma Consump.	ton							87.263	58,998 28,265				77 503	760.17	*		673	6.505				2.692				4.487				10.319				
			Popula Con									224.327				Let ice	170.477			224.327	224,327				224.327				224,327				224,327				
<b>~~</b> **			ono Consump.	ton							115.113	37 286				000 76	0				8.582				3.551				5,918				13,612				
			Mukono Popula, Coi									295.920				705 000	076.067			295.920	295.920				295.920				295.920				295.920				
			uma Consump.	ton							11.710	1.917				COL L	201.0			90	873				361				602				1,385				
			Buvuma Popula.   Coi									30,101					101.00			30.101	30,101			_,	30,101				30,101				30.101				
			Insu	fon							158,712	107,304				20104	101'00"			1.224	11.832				4,896				8,160				18,768				
8			Buikwc Popula. Co									407,999				JONG LUY	6667104			407,999	407,999				407,999				407,999		-		407,999				
			tle Consump.	ton							54,070	36,556				500 E1	1 20.11			417	4.031				1,668				2,780	u			6,394				
			Bbalc Popula. C									138,998	)			000 001	066'061		<b>-</b> -	138,998	138,998				138,998				138,998				138,998				
			Cconsump.	Y <sup>cc</sup>								0.263					C7110			0.003	0.029				0.012				0.020				0.046				
• • :	·	(3) Food Consumption	licm	rions	Coffec(Robsta)	Sugar Cane		cao	Vanilla	crops	Banana/Tubers	Tubore	Cassava	Sweet Potatos	Irish Potatos	X ams	Maize	Finger Millet	Sorghum	č.	Pulses	Beans Tri T	Field Peas Cow Pras	Pigcon Pcas	Oilseeds	Groundnuts	Sunsim	Sunflowers	Vegetables	l omatocs Onione	Cabhages	Greens	Fruits	Pincappics Porcionfratio	A VOCACIO	J.fruits/Paw-paw/Mango	Others(fruits)
		(3) Fo		Cash crons	0 0	Sus	Lca	Cacao		Food crops	Ba	άF		•)	, 1=4 , 1		ξΣ	Ē	й	Rice	172	mí i	τ C	) ፈ 	6	00	50 	ი დ -	N 8			<del>ت</del> ر	F	م <u>م</u>	. 4		2

District	ton (Cooperati County	The number	r of present	The numb storage fac	er of planed	The tota storage f	l number o	ſ	Planed production	Required storage	Balance
		storage faci Number	Capacity	Number	Capacity	Number	Capacity	0	volume	capacity (2)	0.0
	ļ	Rumber	lon	Tumoci	ton			ton	ton	ton	tor
Luwero	Bamunanika	17	136	5	40	22	1	176		114	62
Luwero	Buruli	15	525	6	- 48	21		573	3,031	1,516	-94
	Katikamu	10	80	5	40	13		120		75	4
	Nakaseke	20	160	8	64	28		224	377	189	3.
	Sub-total	62	901	24	192	86		,093	3785	1,894	-80
Masaka	Bukoto		Contraction Carl Contraction States						27	14	-14
	Bukomansimbi	·			·				0	0	
	Kalungu						·		9	5	
	Lwemiyaga								27	14	-14
	Mawoggola								18	9	
	Sub-total						<u> </u>		81	42	-42
Mpigi	Busiro								0		
	Butambala								9		
	Gomba						[		0	0	
	Kyadondo						<u> </u>		0	0	
	Wawokota								9	3	-10
	Sub-total							-	18	10	
Mukono	Bbale						L		191	96	-9(
	Buikwe								0	0	
	Buvuma						L		0	0	(
	Mukono								0	0	
	Nakifuma	· ·					L		41	21	-2
	Nutenjeru						]		154		-7
	Sub-total								386		-194
Tota	d l								4,270	2,140	-2,14

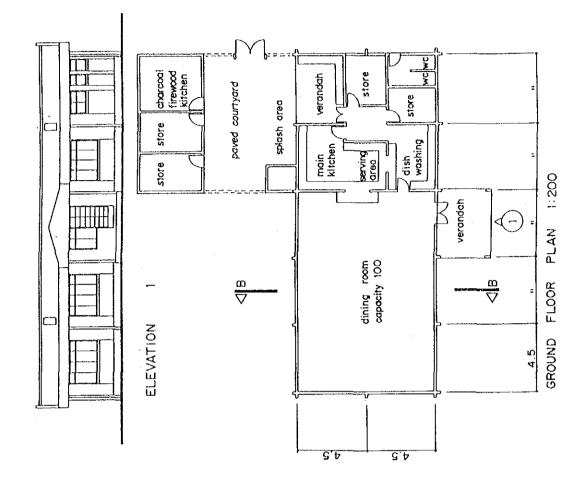
# Table A3.5.2.5 Production Plan and Required Storage Capacity

(1) Cotton (Cooperative society)

(2) Coffee and Grain

.

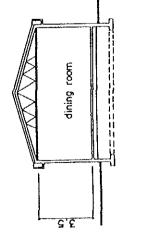
		[	Coffe	e				Grain		
District	County	Present pro-	Planed pro-	Increment	Required sto-		Sun			Required sto-
		duction volume	duction volume		rage capacity	Cercals	Pulses	Oil seed	Total	rage capacity
		ton	ton	ton	ton	ton	ton	ton	ton	toi
Luwero	Bamunanika	12,150	14,504	2,354	235		2,669	0	2,669	13.
	Buruli	405	483	78	8	4,420	794	1,952	7,166	35
	Katikamu	10,530	12,570	2,040	204	0	533	0	533	2
	Nakaseke	4,050	4,835	785	79	3,027	2,506	0	5,533	27.
	Sub-total	27,135	32,392	5,257	526	7,447	6,502	1,952	15,901	79:
Masaka	Bukolo	18,204	21,731	3,527	353	0	. 0	0	0	(
	Bukomansimbi	10,953	13,075	2,122	212	0	1,527	856	2,383	119
	Kalungu	6,374	7,609	1,235	124		0	0	0	(
	Lwemiyaga	176	210	34	3	4,151	392	600	5,143	25.
	Mawoggola	4,497	5,368	871	87	0	0	0	0	(
	Sub-total	40,204	47,993	7,789	779	4,151	1,919	1,456	7,526	376
Mpigi	Busiro	3,852	4,598	746	75	Ó	0	0	0	((
••	Butambala	1,710	2,041	331	33	0	9,373		11,553	578
	Gomba	1,143		221	22	0	4,015	818	4,833	242
	Kyadondo	3,564	4,254	690	69	0	1,020	0	1,020	
	Wawokota	3,994	4,768	774	$\eta$	0	7,362	357	7,719	386
	Sub-total	14,263	17.025	2,762	276	0	21,770		25,125	1,257
Mukono	Bbale	7,042	8,406	1,364	136	.0	85	1,378	1,463	73
i	Buikwe	18,307	22,093	3,586	359	0	0	0	0	(
	Buvuma	0	0	0	0	. 0	4,957	2,049	7,006	35(
	Mukono	22,339	26,667	4,328	433	0	0	0	0	(
	Nakifuma	12,797	15,276	2,479	248	0	-	431	431	22
	Nutenjeru	28,237	33,708	5,471	547	0	0	972	972	49
	Sub-total	88,922	106,130	17,228	1,723	0	3,042	4,830	9,872	494
Tol	3	170,524	203,560	33,036	3,304	11,598	35,233	11,593	58,424	2,922



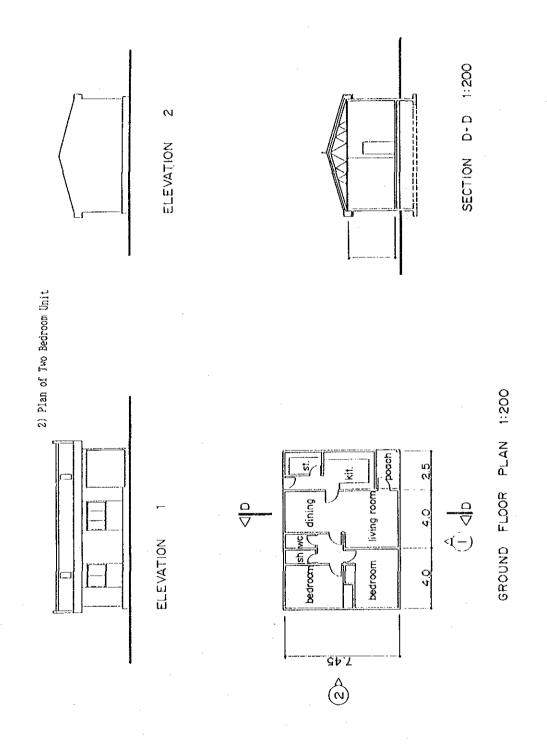
Appendix 3.6 Agricultural Support

3.6.2 Extension

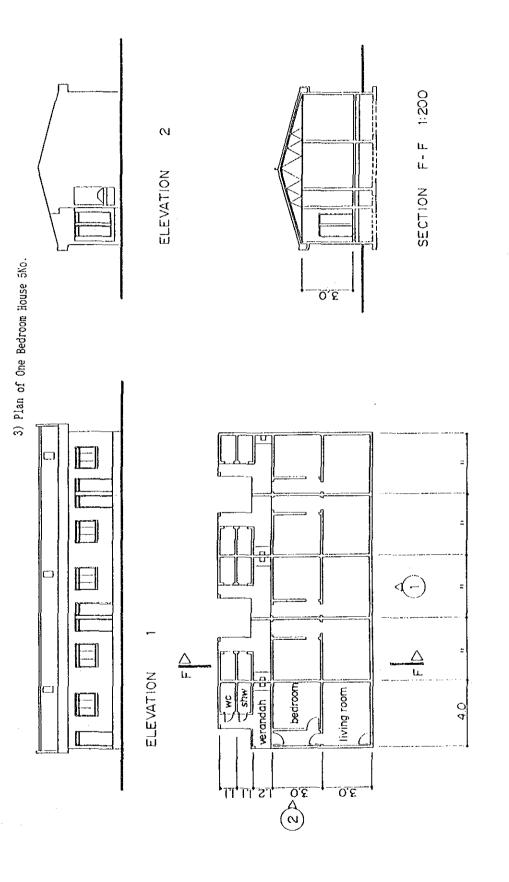
Figure A3.6.2.1 Plan of District Farm Institute 1) Plan of Dining Hall



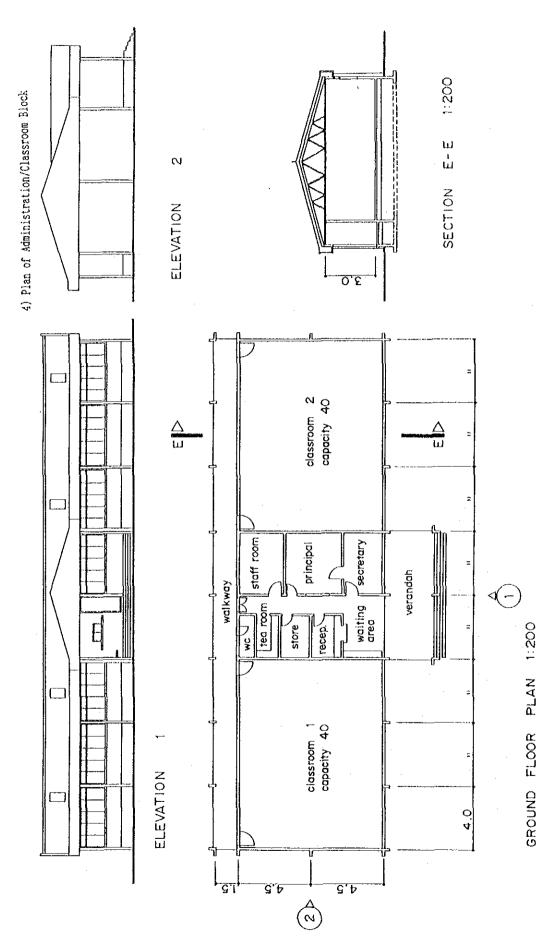
SECTION B-B 1:200



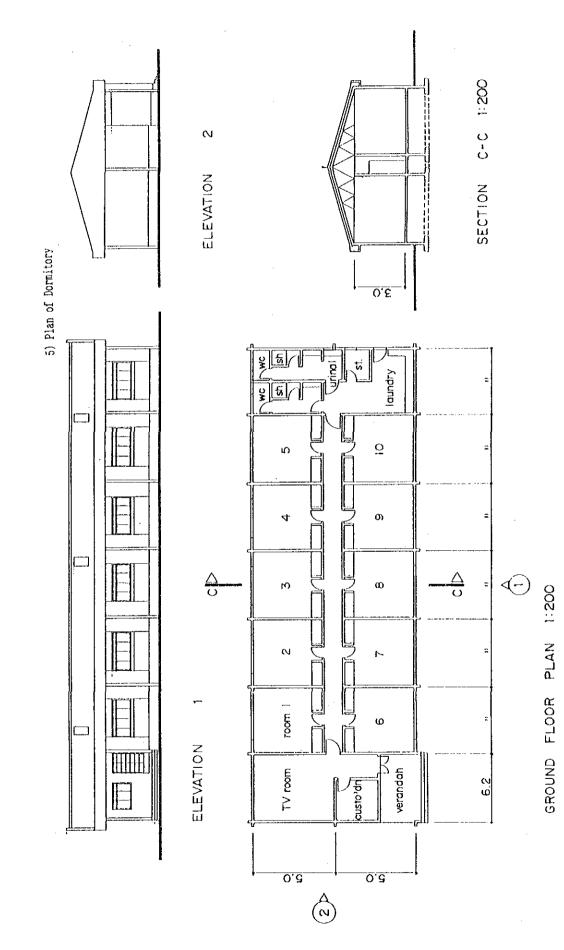
-320-



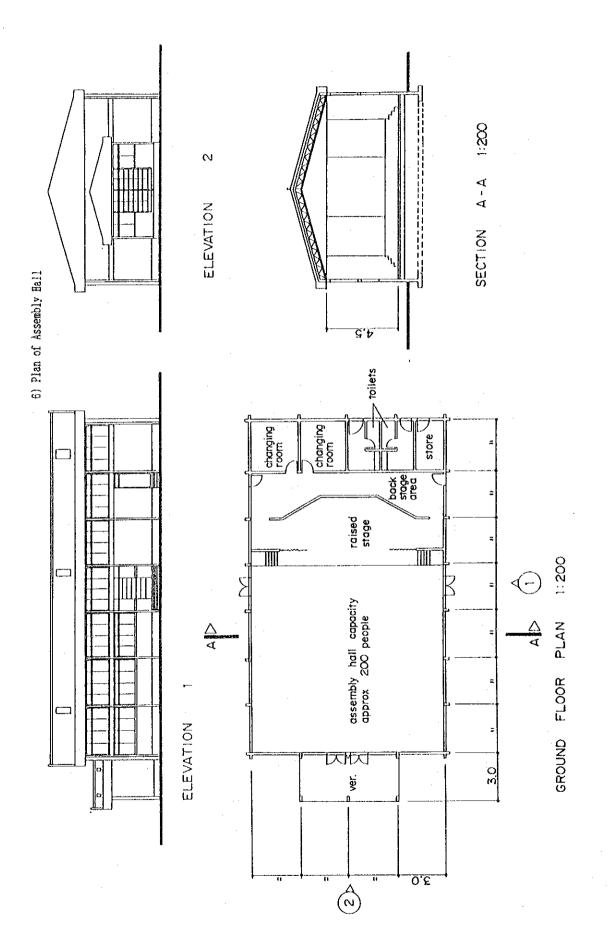
GROUND FLOOR PLAN 1:200



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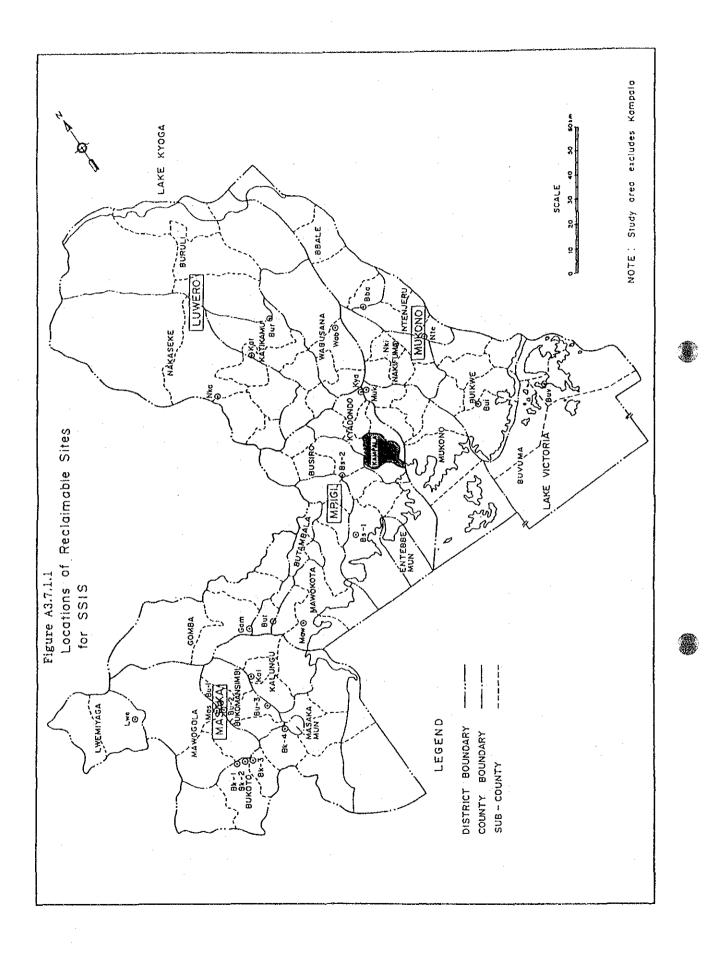
Appendix 3.7 Irrigation and Drainage Plan

**\$** 

3.7.1 Irrigation and Drainage

Table A3.7.1.1 Inventory of Reclaimable Sites for SSIS (Small Scale Irrigation Scheme)

					M N							
N2 JI					N2 11 11 11 11 11 11 11 12 11 11	N22 N2 P1 P1 P1 P1 P1 P1 P1 P1 P1 P1 P1 P1 P1	N2 N2 N2 N2 N2 N2 N2 N2 N2 N2	27 11 12 13 14 14 14 15 14 14 14 14 14 14 14 14 14 14 14 14 14		N2 N2 F2 P1 P1 P1 P1 P1 P1 P1 P1 P1 P1	N2 N2 P1 P1 P1 P1 P1 P1 P1 P1 P1 P1	N2 N2 P1 P1 P1 P1 P1 P1 P1 P1 P1 P1
560 112	560 112 100 100	70 70 70 70	220 260 100 100 70 70 70 70 70	220 560 112 100 100 70 70 70 78 78 78 78 78 78	220 112 100 100 100 70 70 73 78 78 78 78 78 78 78 78 78 78 78 78 78	220 112 100 100 100 100 100 100	560           560           112           100           70           100           173           180	560 112 100 100 65 70 70 70 70 70 70 70 70 70 100 110 115 115 113 113 113 113	560           112           100           100           100           100           70           65           65           70           110           110           113           113           113           113           113           113           113           113           113           113           113           113           133     <	560         112           112         100           100         100           70         70           70         70           70         100           100         100           110         110           1150         110           1150         1153           1173         1173           113         123           123         123           180         18           18         18           18         18	560           112           100           100           100           100           70           65           65           65           70           150           110           110           110           110           110           110           110           110           110           110           110           1130           1130	560         112           112         100           100         100           70         70           70         100           111         100           100         100           1150         110           1150         110           1150         115           1153         115           1153         115           1153         123           123         133           133         134
200	200 100 150	200 100 150 >100 >100	200 100 100 100 100 100 200 200 200	200 100 130 >100 >130 >130 >130 >130	200 100 100 5100 5100 5100 5100 5100 510	200 100 100 150 >130 >130 >130 >130 >130 >130 >130 >13	200 100 150 >100 >100 >100 >150 >150 >150	200 100 100 150 >100 >100 >100 >100 >100	200 100 150 >100 >100 >100 >100 >130 >130 >130 >13	200 100 150 >100 >100 >100 >100 >100 >100	200 100 100 100 100 200 200 200	200 100 100 100 200 200 200 200
Bk-1	Bk-1 Bk-2 Bk-3 Bk-4	Bk-1 Bk-2 Bk-3 Bk-4 Bu-2 Bu-2 Bu-3	Bk-1 Bk-2 Bk-3 Bk-4 Bu-1 Bu-1 Bu-2 Bu-2 Bu-3 Lwc Lwc	Bk-1 Bk-2 Bk-3 Bk-4 Bk-4 Bu-1 Bu-2 Bu-2 Bu-3 Kal Lwe Mag	Bk-1 Bk-2 Bk-3 Bk-4 Bk-4 Bu-1 Bu-2 Bu-3 Bu-3 Bu-3 Kal Lwe Mag Ss-1 Bs-1 Bs-2	Bk-1         Bk-2           Bk-3         Bk-4           Bk-4         Bk-4           Bk-4         Bk-4           Bk-1         Bk-4           Bk-3         Bk-4           Bk-4         Bk-4           Bk-4         Bk-4           Bk-4         Bk-4           Bu-1         Bu-2           Bu-2         Bu-3           Bu-3         Bu-3           Bs-1         Bs-1           But         Gom	Bk-1         Bk-2           Bk-3         Bk-4           Bk-4         Bu-i           Bk-4         Bu-i           Bu-2         Bu-i           Bu-2         Bu-3           Bu-3         Com           Bs-1         Bs-1           But         Gom           Kya         Maw	Bk-1         Bk-2           Bk-3         Bk-3           Bk-4         Bu-1           Bk-3         Bk-4           Bu-1         Bu-1           Bu-2         Bu-2           Bu-2         Bu-2           Bu-1         Bu-2           But         Gom           Kya         Maw	Bk-1         Bk-2           Bk-3         Bk-4           Bk-4         Bk-4           Bk-1         Bk-4           Bk-1         Bk-4           Bk-1         Bk-4           Bu-1         Bu-2           Bu-2         Bu-3           Bu-2         Bu-3           Bu-2         Bu-3           But         But           But         Kya           But         Bba           But         Bba	Bk-1         Bk-2           Bk-3         Bk-4           Bk-1         Bk-4           Bk-1         Bu-1           Bk-1         Bu-1           Bu-2         Bu-1           Bu-3         Kal           Lwe         Mag           Mag         But           Bau         Bau           But         Gom           Bui         Bui           Bui         Bui           Bui         Bui           Bui         Bui	Bk-1         Bk-3           Bk-4         Bk-4           Bk-4         Bk-4           Bk-4         Bk-4           Bk-4         Bk-4           Bu-2         Bu-2           Bu-3         Kal           Lwe         Mag           Maw         Buil           Buil         Baba           Buil         Buil           Buil         Buil	Bk-1 Bk-3 Bk-3 Bk-4 Bu-1 Bu-1 Bu-1 Bu-2 Bu-3 Bu-3 Bu-3 Bu-3 Bu-3 Bu-1 Bu-1 Bu-1 Bu-3 Bu-1 Bu-3 Bu-1 Bu-1 Bu-3 Bu-3 Bu-3 Bu-1 Bu-1 Bu-1 Bu-1 Bu-1 Bu-1 Bu-1 Bu-1
			Dwa	Dwa	DWa	DWa bkc	Dwa Dwa bwa bwa	Dwa Dwa kc Ia	Ma ka	Dwa Dwa Ia a	Ma San San San San San San San San San Sa	Waa Waa Lita
		ansimbi	ansimbi u vaga	ansimbi u yaga bi a	ansimbi u vaga ola	ansimbi u vaga cola bil	ansimbi u vaga jola il bala bala oata	unsimbi aga ala do do	nsimbi la la l	unsimbi aga do do	nsimbi la la l	a a a a a a a a a a a a a a a a a a a
		Buļ	Kal Buk	Kal Buk Ma Sut	But Kal	Goi But Kal	Ma But Ka But		Mpign But Mukono Buukono Buukono Buukono Buukono Buukono	BURNER		NERRE BEREFERENCE BEREFERENCE



Remarks																		 	 	 	
Soil	Map	(sym.)	Buk	Buk	Buk	Buk	1		-	Mul	Mul	Buk			Kak						
I and Hee	Map	(symbol)	Ъ С	SW	SW	SD				SS	SS	SW			SD						
Veoetation	Map	(symbol)	N3	X1/X2	- op -	- op -				X1/X2	- op -	- op -			X1/X2						
	Vegetation		P.Swamp	S.Swamp	P.Swamp	S.Swamp			     	S.Swamp	- op -	- op -		;	S.Swamp		-		 -		
	Altitude	(H)	3,700	3,800	3,750	3,500				3,600	3,600	3,600			3,600		 	 	 	 	
Jan (1/50.000	Paddy	Area (na)	50	50	100	60		260		60	150	50	260		80	600		 			
<u>Топоятаріїс Мар (1/50.000</u>	C.Area	(sq.km)	18	10	30	12				10	25	9			10		 	 	 		
1	NO.		TUG-1	LUG-2	LUG-3	LUG-4				MAY-1	MAY-2	MAY-3			SEZ-1	 		 	 		
	Local Name				Lumansi	Katensule				Kagoye		Kizikibi			Lwamirindi						
District District			Luwero							Luwero					Luwero	(Luwero)		 		 	
(1) Luwero District Main I District	Swamp		Lugogo					Subtotal		Mayanja			 Subtotal		Sezibwa	 Total			 		

Table A3.7.1.2 Inventory of Reclaimable Swamps for WUS (Wetland Utilization Scheme)

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Remarks	*						2 dams																						NAMES AND A ROOM A ROOM A ROOM AND A ROOM		
Soil	Map	(sym.)	Mul	Mul	Mul	Mul	Mul	Mul	Mul	Mul	Muľ	Mul	Mul				Kif	Kif	Kif	Kif	Kif	Mul	Kif	Kif	Kif	Kif					
Land Use	Map	(symbol)	SW	SS	SS	SS	SW	SW	SS	SS	SS	FC	SS				SW	FC	FC	FC	FC	FC	FC	R	л С	<del>Л</del> С		and the second sec			
Vegetation	Map	(symbol)	1	1		X2/X1	X2/X1				1	1					X2/X1	- op -		1		4	X2/X1			3					
	Vegetation	-	S.Swamp	- qo -	- op -	P.Swamp	- op -	S.Swamp	- op -	- op -	- op -	- op -	- op -				P.Swamp	S.Swamp	- op -	- op -	- qo -	- qo -	- do -	- op -	- op -	۱ do ۱	-				
	Altitude	(tt)	4,000	4,000	4,000	4,000	4,000	4,000	4,000	4,000	4,000	4,000	4,000				80 3900-4000	3900~4000	4,000	4,000	4,000	3900~4000	3,900	3,900	3,900	3,900					
ap (1/50,000	Paddy	Area (na)	100	90	130	200	200	100	80	20	120	120	80		1,240		80	80	100	20	30	100	80	80	80	80		730		 1,970	-
Topographic Map (1/50,000)	C.Area	1					30	i	12				ļ	-			23	11	15	9	10	20	16	16	14	7					
T	NO.		KYL-1	KYL-2	KYL-3	KYR-1	KYR-2	KYR-3	KYR-4	KYR-5	KYR-6	KYR-7	KYR-8				NAL-1	NAL-2	NAL-3	NAL-4	NAL-5	NAL-6	NAR-1	NAR-2	NAR-3	NAR-4					
	Local Name		Lwenswera	Bukumbula	Kattabaganga	Muchwankwa		Katabana	Kasabwera		Kabirobiro	Naalagge					Gambuze	Nabirabusa	Lusamatu	Byonyonywa	Kataba			Kitante	Kabuka						
District	<b></b>		Masaka			<u> </u>	<u></u>	h <u>-</u>	<b></b>	•		·		• • • •			Masaka													(Masaka)	
Main Distric	Swamp		Kyogya												Subtotal	-	Nabajuzi	•										Subtotal		 Total	

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Remarks																								 	 
Soil	Map	(sym.)	Küf	Kif	Rif Kif	Kif	Kif	Kak			Kak	Kak	Kak	Kak	Küf		Kak	Kak	Kak						 
Land Use	Map	(symbol)	FC	SS	FC	SW	FC	FC			SW	SW	SW	FC	SW		FC	FC	FC						
Vegetation	Map	(symbol)	X2/X1	- op -	- qo -	- op -		1			X2/X1	- op -	- op -	- op -	X2		XI	- op -	- op -						
	Vegetation		P.Swamp	- op -	- op -	- op -	- op -	Tree Swamp			Tree Swamp	- op -	P.Swamp	- op -	- op -		P.Swamp	- op -	- op -			 		 	 
	Ë	(tt)	3,800	3,800	3,750	3,800	3,800	3,750			3,900	3,850	3,800	3,800	3,700		3,700	3,700	3,700	-		 	+	 	 
ap (1/50,000)	Paddy	Area (ha)	1001	400	400	200	150	200	 1,450	-	200	140	120	150	200	810	100	100	150		350	 2.610			 
Topographic Map (1/50,000	C.Area	(sq.km)	11	40	42	32	19	15			21	]4	12	24	48		14	16	33			 	+		 
Ţ	NO.		MP-1	MP-2	MP-3	MP-4	MP-5	MP-6			MA-1	MA-2	MA-3	MA-4	MA-5		LW-l	LW-2	LW-3			 		 	 
	Local Name		Kasemulamba	Kibukuta	Nawandigi	Nakyetema	Kiganja	Kamirangoma			Kasenso	Nawaya		Lubigi			Kattabana	Namagombe	Nakalere						
District			Mpigi								Mpigi					 	Mpigi				_	(Mnioi)	1.9.1	 	 
Main Distri	Swamp		Kasemulamba	Kibukuta	Nawandigi	Nakyetema	Kiganja	Kamirangoma	Subtotal		Mayanja					 Subtotal	Lwajali				Subtotal	Total	INIAT		 

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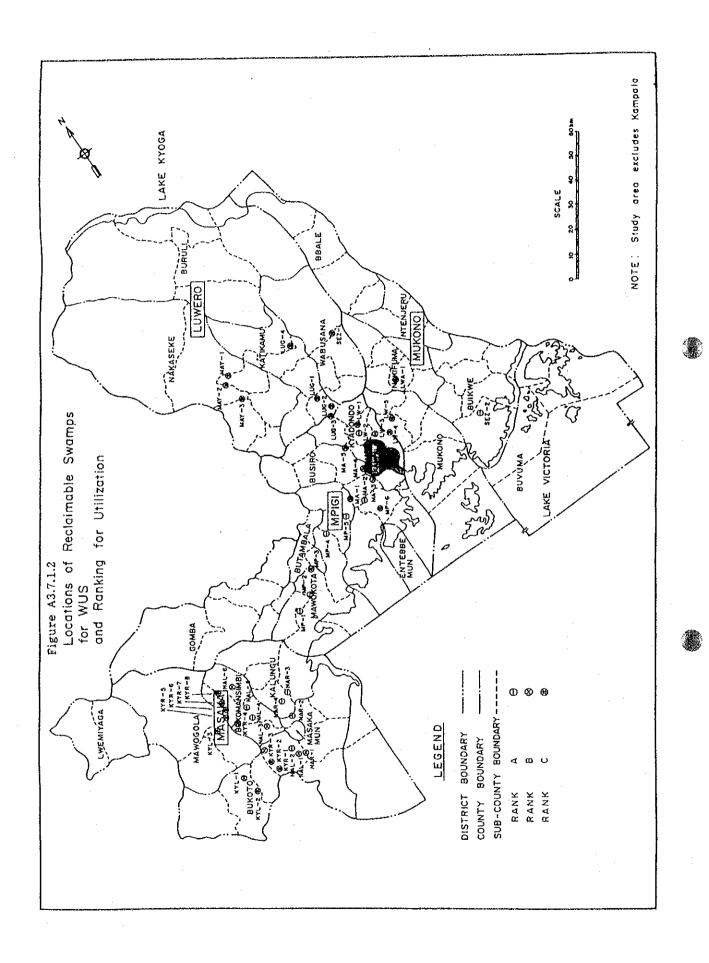
(4) Mukono District Main   District	District District			Tonographic Man (1/50 000)	Jan (1/50 000			Vecetation		Soil	Remarks
Swamp		Local Name	NO.	C.Area	Paddy	Altitu	Vegetation	Map	' <u>S</u>	Map	
I waiali	Miikono	Nakvania	1 W-4	(sq.km)	Area (ha)	(ft) 3 700	P Swamn	(symbol)	(symbol)	(sym.) Kak	
-			<u>LW-5</u>	<u>53</u>	240	3.700	- do -	- do -	SW	Kak	
	• • •	Matumbwe	LWA-1	36	80	3,650	- do -	<u>X1/X2</u>	SS	Kak	
		_									
Subtotal					470						
Sezibwa	Mukono		SEZ-2	49	250	3,900	P.Swamp	X1/X2	FC	Kif	
					- <del></del>			!			
Total	(Mirkono)				720						
G. Total		an and a second s			5,900		· · ·				
					<b>7</b> 74, <b>81</b> 80						
									-		
				- - -							
					* .						

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	Remarks																													
Total	Paddy Area (ha)								1,710									1,260									2,930	5,900		
	F.S.		0																0										ble,	
Mukono	Paddy Area (ha)		250						250												80						470	720	:Least feasible,	out
M	No.		SEZ-2																LW-4	LW-5	LWA-1								Rank C	x :not carried out
	F.S.	1-	0	0	¢	0	0	0			0	0	×	0					0	0	• •	0								×
Mpigi	(ha)		100	400	200	150	140	100	1,090		120	150	200	150				620	400	200	200	100					906	2,610	ble,	
V	No.		MP-1	MP-2	MP-4	MP-5	MA-2	LW-2			MA-3	MA-4	MA-5	LW-3					MP-3	MP-6	MA-1	LW-1							:Moderately feasible,	d out
	F.S.		0	×	×	0	0	0			×	×	×	0	0	×	×		×	×	0	0	×	×	×	×			Mode	o :carried out
	(ha)		80	20	30	80	80	80	370		100	100	80	80	100	100	80	640	8	130	200	200	20	120	120	80	096	1,970	Rank B :	0
	No.		NAL-2	NAL-4	NAL-5	NAR-2	NAR-3	NAR-4		1	KYL-I	KYR-3	KYR-4	NAL-1	NAL-3	NAL-6	NAR-1		KYL-2	KYL-3	KYR-1	KYR-2	KYR-5	KYR-6	KYR-7	KYR-8				
	F.S.		• •																×	×	×	×	×	×	×	×			ble, L	ey
Luwero	Paddy ] Area (ha)								1		-								50	50	100	99	60	150	50	80	600	600	:Most feasible,	:Field Survey
Γ	No.																		LUG-1	LUG-2	LUG-3	LUG-4	MAY-1	MAY-2	MAY-3	SEZ-1			Note : Rank A	F.S.
	Rank		¥						Total	. 1	20							Total	U								Total	G.TTL	Note :	

Table A3.7.1.3 Wetlands Ranking for Utilization

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Table A3.7.1.4 Water Requirement for Each Crop

(1) Applied for Luwero and Mpigi District

Data : NAMULONGE 1991

TOTAL	937						1,082	1,257
Dec.	36	4.2	130	98		1.0	98	1.4 137
Nov.	81	4.1	123	92		1.0	22	1.4 129
Oct.	161	3.8	118	88		1.0	80	1.4 123
Sep.	48	4.0	120	8		1.0	8	1.4 126
Aug.	50	3.7	115	86		1.0	86	1.4
Jul.	14	3,6	112	84		1.0	84	
Jun.	.48	3.5	105	<i>6L</i>		1.0	79	1.4
May	134	3.5	109	81		1.0	81	1.4 113
Apr.	193	4.4	132	66		1.0	66	1.4 139
Mar.	95	4.7	146	109		1.0	109	1.4 153
Feb.	65	3.6	101	76		1.0	76	1.4 106
Jan.	12	4.3	133	100		1.0	100	
Unit	mm/mon.	mm/day	mm/mon.	mm/mon.			mm/mon.	mm/mon.
Process	ଷ	Ą	c=b*Days	d=c*0.75		ų.,	g=d*f	l*b≍m
Item	Rainfall(Standard year)	Epan (Evaporation)		ETo	HORTICULTURE (Banana)	Kc = ETc/ETo (SSIS)	Water Regirement	Rice Kc = ETc/ETo (WUS) Water Reqirement

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(2) Applied for Masaka District

Data : KATIGONDO 1969

TOTAL	1,008		935	1,105
Dec.	61 3.2 99	74	1.0 74	1.4 104
Nov.	123 3.5 105	79	1.0 79	1.4
Oct.	141 3.5 109	18	1.0 81	1.4 113
Sep.	70 3.3 99	74	1.0 74	1.4 104
Aug.	14 4.0 124	93	1.0 93	1.4 130
Jul.	52 3.2 99	74	1.0	
Jun.	23 3.1 93	70	1.0	1.4 98
May	81 2.5 78	58	1.0 58	81
Apr.	106 3.6 108	81	1.0 81	1.4
Mar.	160 3.6 112	84	1.0 84	1.4 118
Feb.	77 4.5 126	95	1.0 95	1.4
Jan.	100 3.1 96	72	1.0	
Unit	mm/mon. mm/day mm/mon.	mm/mon.	mm/mon.	mm/mon.
Process	a b c=b*Days	d=c*0.75	រ ពេ 14 14	l m=d*l
Item	Rainfall(Standard year) Epan (Evaporation)	ETo	HORTICUL TURE (Banana) Kc = ETc/ETo (SSIS) Water Reqirement	Rice Kc = ETc/ETo (WUS) Water Reqirement

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Item	Process	Unit	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	TOTAL
Rainfall(Standard year)	ন্য	mm/mon.	33	20	61	208	166	2	58	133	16	171	94	38	1,137
Epan (Evaporation)	þ	b mm/day	3.8	4.7	4.5	3.3	3.1	2.8	2.8	3.1	3.5	3.8	3.6	3.3	
	c=b*Days	mm/mon.	118	132	140	66	96	84	87	96	105	118	108	102	·
	d=c*0.75	mm/mon.	88	66	105	74	72	63	65	72	62	88	81	<i>LL</i>	
HORTICULTURE (Banana) Kc = ETc/ETo (SSIS)	نبع		1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	
Water Regirement	g=d*f	mm/mon.	88	66	105	74	72	63	65	72	79	88	81	LL	963
											Ţ				
Kc = ETc/ETo (WUS)	1			1.4	1.4	1.4	1.4	1.4		1.4	1.4	1.4	1.4	1.4	
Water Regirement	l*b=m	mm/mon.	·	139	147	104	101	88		101	111	123	113	108	1,135

(3) Applied for Mukono District

Data : JINJA 1983

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Table A3.7.1.5 Hydraulic Calculation of Pump Capacity for SSIS

Station		No. 0	No. 1	No. 2	No. 3	No. 4	No. 5
Interval	m	0	200	200	200	200	200
Accum.L	m	0	200	400	600	800	1,000
Altitude	m	0	10	15	30	30	30
Hyd. Pres.	m	40.0	40.0	40.0	40.0	40.0	40.0

\* Pipe : Steel Pipe D=100mm Irrigation Area 20ha

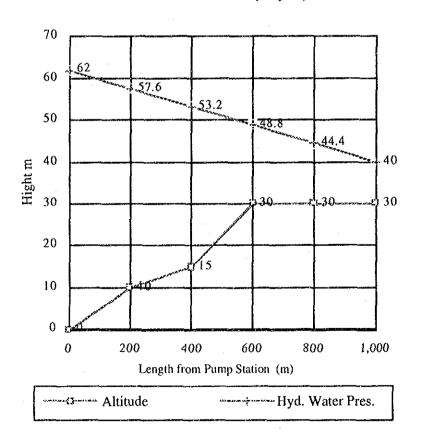
Max.Wate	r Req.	Qmax	I(Hyd.Grd)	V(Velocity)
mm/mon.	mm/day	m <sup>3</sup> /sec	(non.D)	m/sec
138~153	5	0.0116	0.022	1.48

I = 10.67 \* C^-1.85 \* D^-4.87 \* Q^1.85

V = 0.355 \* C \* D^0.63 \* I^0.54 (m/s)

D≦150→C=140, D>150→C=100

Calculation Trial for Pump Capacity



Appendix 3.9 Rural Social Infrastructure Plan

3.9.1 Water Supplies

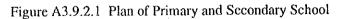
Table A3.9.1.1 Difference of Basic Design Figures between Water Supply Projects

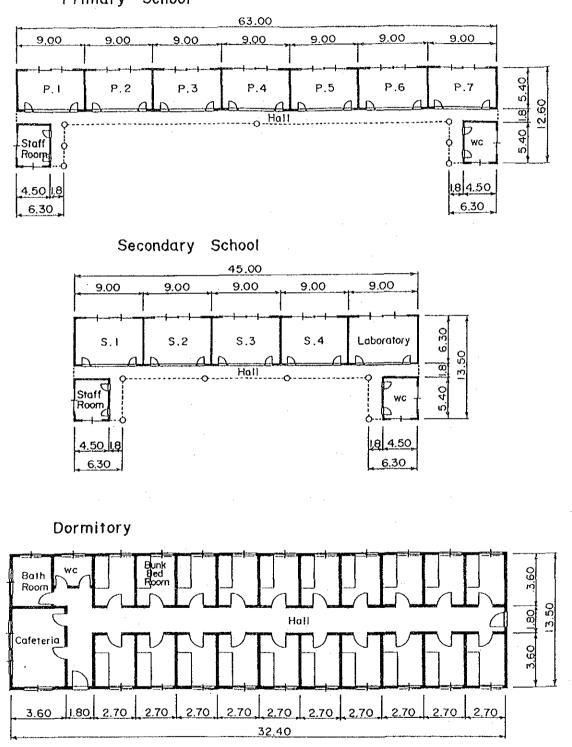
	NRWP	RUWASA	SWIP	ODA
Daily Water consumption per capita	25L/D	30L/D	20L/D	20L/D
Water Supply Capacity	150~SP,DW,AW	150~SP	150~SP 200_AW	150~SP
	250~BH	300 ~BH,DW,AW	250~BH,DW	300~BH,DW,AW
Distance between house and water	1.5km	1.5km~BH		1.0km
		500m~SP		
Basic Year	1990	1661	1661	1661
Target Year	2000	1995	2000	2000
Rate of people with safe water in Target Year (%)	100, 75, 50	20	75	100, 85, 75

Source : NRWP : DANIDA(July1991) National Rural Water Supply Programme RUWASA : RUWASA Project (Sep1992) Draft Plan of Operation

SWIP: Unicef (Dec, 1992) South-West Integrated Programme, Masaka District ODA : Halcrow Rural Management (Aug, 1992) District Rural Water Supply and Sanitation

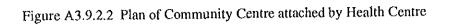
Project ODA Financed Feasibility Study. Note : SP : Spring, BH : Borehole, DW : Dug Well, AW : Augered Well 3.9.2 Education, Health Care and Hygien

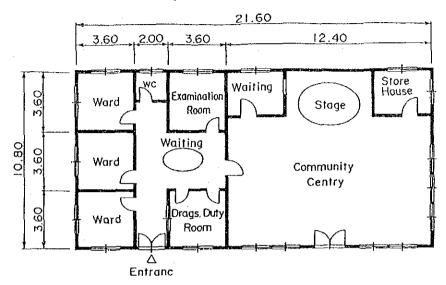




Primary School

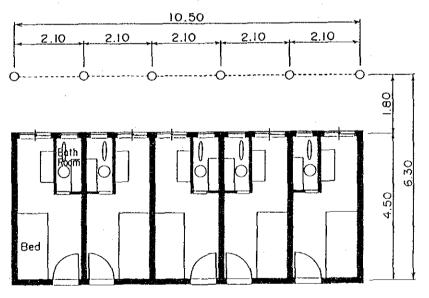
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Community Centre and Health Centre

Accommodation



Appendix 3.10 Environment and Social Issues

### 3.10.1 Soil Conservation

### 1) Soil Erosion

Uganda, situated on the central eastern plateau of Africa, is confined by central and east African rifts. Accordingly, it has a great geographical diversity ranging from the mountainous areas (5,000 meters) to low-ground wetland (600 meters above sea level). Here, people are engaged in agricultural activities in many types of areas including slopes of the undulating areas and the gentle plains.

The study area consists of the areas around Lake Victoria, where small isolated hills of around 100 meters high are found here and there whereas further inland from the Lake, there are relative gentle terrains.

Due to lack of a soil policy to address, among others, regulations for soil conservation practices, soil erosion has become a big problem not only for sustainable agriculture but also sustainable environment management.

Aggravated by the heavy rains, overgrazing related to other factors soils are eroded from the sloped farmlands in the Lake Victoria Crescent zone and grasslands in the inlands.

This leads to depletion of the farmlands fertility, siltation of many dams and tanks built in the valleys.

In spite of the size of the soil degradation problem, no coordinated research programmes have been put in place to address it in the Study area; only soil losses transported by the water to Lake Kyoga and Lake Victoria have been reported (UNEP).

Given its disastrous effects, soil erosion is a grave problem that must urgently be addressed.

2) Estimation of Soil Loss

A) Method to Estimate Soil Loss

Since there is no survey data about the actual situation of soil erosion from the farmlands in the study area, the only way to find it out is to estimate it indirectly by using parameters which represent the conditions involved in the area.

This may be done by using the widely used Universal Soil-Loss Equation, (USLE, USDA-SEA) which is an empirical equation constructed in USA. The USLE gives us dependable results, provided appropriate parameters are given.

The equation is presented in the form

A = R \* K \* L \* S \* C \* P

Where A is soil loss in tons per hector during specified period,

R is the rainfall erosivity index,

a number which indicated the erosivity of the rain on a scale based on the EI index described below,

K is the soil erodibility factor,

a number which reflects the liability of a soil type to erosion.

L is the length factor

a ratio which compares the soil loss with that from a field of specified length (22.6m)

S is the slope factor

a ratio which compares the soil loss with that from a field of specified slope (9%)

C is the crop management factor

a ratio which compares the soil loss with that from a field under a standard treatment (1.0 for cultivated bare fallow)

P is the conservation practice factor

a ratio which compares the soil loss with that from a field with no conservation practice

B) Computation Method of USLE Parameters

(a) R (Rainfall Erosivity)

This was drawn from test results that show soil erosion is influenced by the compound effect of mechanical energy and intensity of the rain. It is obtained by dividing the product of E and I by 1,000.

#### R = E \* I / 1,000

Here, E is the product of the amount of rain (mm) and the corresponding intensity converted to energy. When a series of rain is less than 13mm in total, soil erosion would be extremely small and thus would be excluded from calculation. While, I indicates rain intensity per hour (mm/h) derived from the hardest 30 minute rainfall amount being doubled.

Below is an example of the calculation of R in a series of rain. Depending on the time period for calculating soil loss, R is to be the accumulation of the period.

1	2	3	. 4
Intensity	Amount	Energy	Total
(mm/h)	(mm)	(J/m <sup>2</sup> /mm)	(Col2 x Col3)
0-25	30	22.0	660
25-50	25	26.0	650
50-75	15	28.0	420
>75	10	28.3	283
			2,013 J/m <sup>2</sup> =E

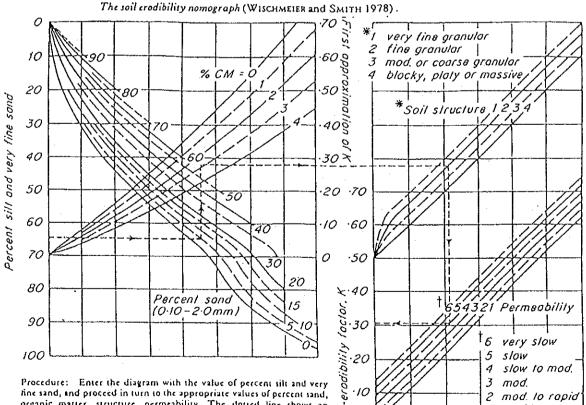
I is derived from rain gauge charts Using a typical value of say 20mm/h

E x I30 2,013 x 20 - = 40.26 erosivity units (2) EI = -1,000 1,000

Energy  $(Col3) = 11.9 + 8.7 \log I.(Col1)$ 

K (Soil Erodibility) (b)

This is the factor of soil resistance to erosion. It is governed by soil particle distribution, organic matter contents, structure, and percolation. The homograph below is used. The homograph is constructed in foot-tons / acre-inch units; and to convert it into metric units (tonsmeter / hector-centimeter), it should be multiplied by 1.3.



Procedure: Enter the diagram with the value of percent silt and very tine sand, and proceed in turn to the appropriate values of percent sand, organic matter, structure, permeability. The dotted line shows an example with  $S + vf_s \delta S''_{n_1}$  sand  $S''_{n_2} OM 2.8''_{n_3}$  structure 2, permeability 4. Solution K = 0.31

10

0

Soil-

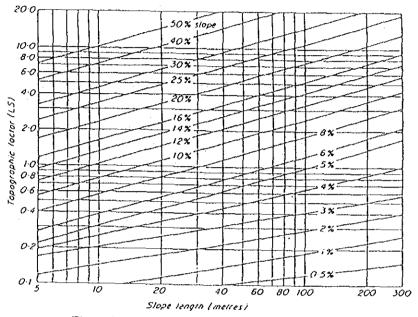
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### (c) L (Length Factor) and S (Slope Factor)

In principle, L and S are independent of each other, however, when conservation work such as terracing is to be done, L which relates to the span between the work is regulated by S. Therefore, L and S hold a close relationship, and it is common to treat them together as a topographical factor LS. This LS can be extracted from the homograph below.



The combined Slope-Length factor

### (d) C (Crop Management Factor)

This factor relates to cultivation management and crop covering. No covering results in 1.0, and thick grass results in 0. It relates more to vegetation density than to types of crops, but here it follows the crop classification shown below which is used in Japan for its simplicity.

pasture:	0.02
sugar canes, wheat:	0.2
dry field rice, potatoes, vegetables:	0.3 to 0.4
corns:	0.4
beans:	0.5

### (e) P (Conservation Practice Factor)

Conservational agricultural techniques such as plowing, breaking soil, and planting on the directions of contours are preconditions here. The effect of these management of soil conservation vary according to the slope as shown below.

Together with the agricultural conservation techniques, building of contour ditches is also effective. It is said to cut the soil erosion in half, but these ditches are not necessarily maintained through the year. Therefore, the effective period should be taken into consideration.

Slope(5)	P value
1 to 2	0.40
2 - 7	0.50
7 - 12	0.60
12 - 18	0.80
18 - 24	0.90

Values of conservation practice factor P

Table A3.10.1.1 Basic Data for Soil Loss Estimates

(1) Rainfall erosivity

R = EI = E\* I / 1,000 = 17,566 \*20 / 1,000 = 351(note1) (note 2)

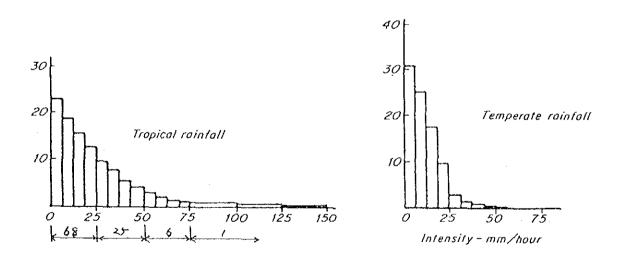
note 1 : from the table below

note 2 : Tropical common rainfall intensity (20mm/hour)

1	2 3 Intensity (mm/hour)	4 5 Distribution (%)	Amount (mm)	Energy	Total (Column 3 * Column 4)
	0-25 25-50 50-75 >75	68 25 6 1	510 188 45 7	22.0 26.0 28.0 28.3	11,220 4,888 1,260 198
	Total		750		17,566

(%)

(%)



### Source : Norman Hudson ; Soil Conservation

note 3 : Column 2 : The distribution of rainfall at different intensities common in tropical rainfalls.
 Column 3 : Annual average rainfall for 5 years in Jinja station accumulation of daily rainfall more than 13mm. (Table A3.10.1.1 (2))

(2) Annual Average Rainfall (Jinja Station)

lt lt	Item	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Total
1992	Total	25	5	4	100	160	94	113	6	135	129	198	140	1.190
	>13mm/d	í	ľ	1	41	93	68	80	41	106	57	159	92	737
1991	Total	40	88	127	176	198	74	130	33	122	101	70	52	1,210
	>13mm/d	15	47	76	133	158	- 37	115	'	98	68	17	36	800
1990	Total	44	122	200	176	68	5	11	- 57	142	134	63	611	1,141
	>13mm/d	24	80	140	129	26	1	1	19	117	112	27	86	760
1987	Total	58	148	194	206	168	83	7	100	232	144	101	33	1,472
-	>13mm/d	24	107.	159	147	121	36	-	73	188	66	30	29	1,013
1984	Total	LL	19	37	118	17	21	73	127	60	75	179	56	918
	>13mm/d	57	1	19	14	34	16	4	103	20	53	87	23	440
Total	Total	244	379	562	776	671	274	334	407	691	583	611	400	5,932
	Mean	49	76	112	155	134	55	67	81	138	117	122	80	1,186
>13mm/d	Total	120	234	394	464	432	157	209	236	529	389	320	266	3,750
	Mean	24	47	79	93	86	31	42	47	106	78	64	53	750

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## (3) Classification of Soils (Soil Group)

Soil	Carbon		Pro	oportion (	%)		K	Remark
	%	Clay	Silt	Total	V.F.S	Sand	Factor	
[group 1]								
Mabira	4.76	46	6	52				
Nakabango	7.28	46	16	62				
Kifu	4.70	22	18	40				~
Kaku	5.61	29	3	32				
Sesse	3.24	- 30	. 5	35				
Sub Total	25.59	173	48	221				
average	5.12	34.60	9.60	44.20	37.00	19.00	0.18*1.30=0.23	
[group 2]								
Buganda	2.66	32	8	40				
Buyaga	2.70	32	8	40				<u>y</u>
Kabira	2.01	48	6	54				
Koki	2.61	28	13	41				
Bukora	2.07	24	28	52				
Sub Total	12.05	164	.63	227				
Average	2.41	32.80	12.60	45.40	37.00	18.00	0.24*1.30=0.31	
[group 3]								
Mirambi	1.68	15	7	22				
Mawogola	1.41	23	4	. 27				
Lukaya	1.71	27	4	31				
Mulembo	1.68	5	0	5				
Makole	1.49	20	8	28				
Buganda/Mirambi	-	-	-	-				
Sub Total	7.97	90	23	113				
Average	1.59	18.00	4.60	22.60	51.00	26.00	0.36*1.30=0.47	
[group 4]								
Buruli	0.96	12	6	18				
Lwampanga	0.44	15	6	21				
Sango	1.08	0	. 0	0				
Tolero	-	-	_	~				
Sub Total	2.48	27	12	39				
Average	0.83	9.00	4.00	13.00	58.00	29.00	0.50*1.30=0.65	

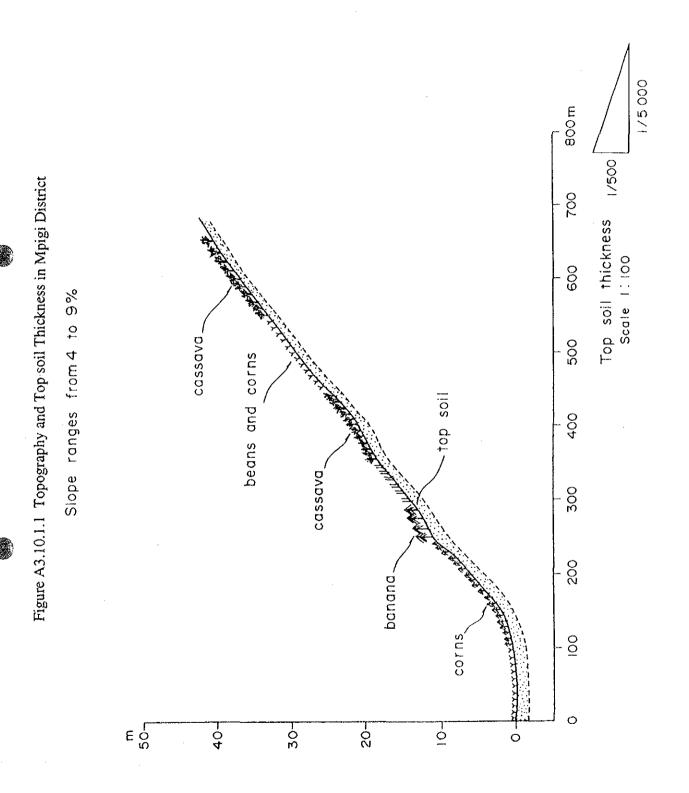
Note: V.F.S: Very Fine Sand

oup and Gradient
Soil Gr
ion by
Classificat
Land
<b>A3.10.1.2</b>
Table /

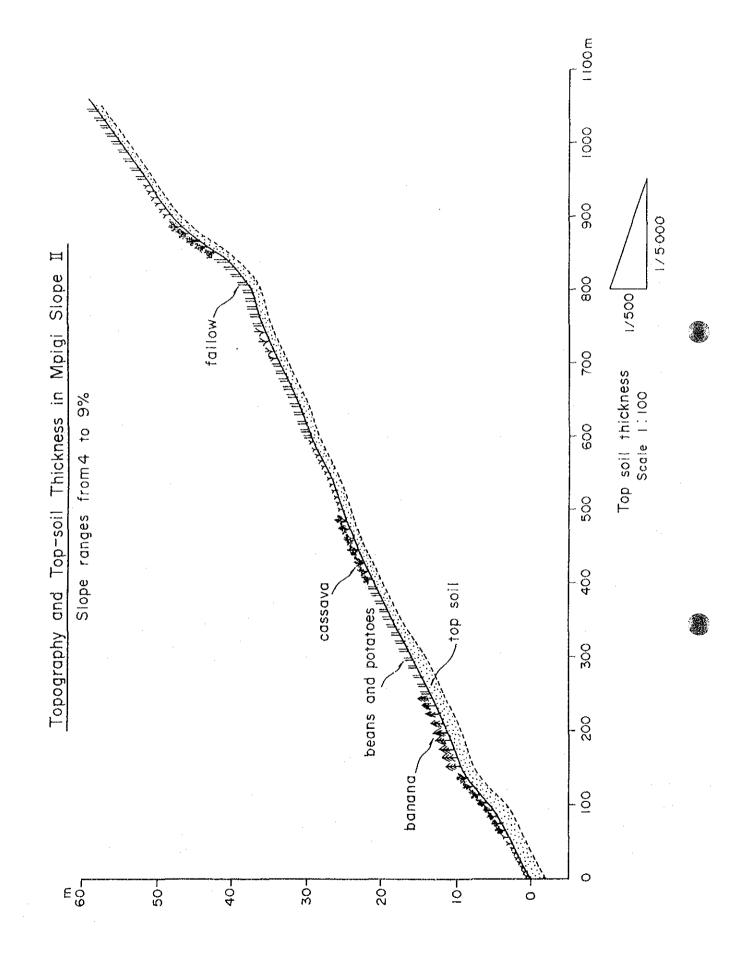
District	I < 6%					9% <= I	< 12%				12% <= I	I.				TOTAL				
County	GS1	GS2	GS3	GS4	Total	GSI	GS2	GS3	GS4	Totai	GSI	GS2	GS3	GS4	Total	GSI	GS2	GS3	GS4	Total
Luwero														••••						
Buruli	4.0	30.4	533.5	2,254.0	2.821.9	0.0	0.0	5.1	8.2	13.3	0.0	0.0	0.0	9.2	9.2	4.0	30.4	538.6	2.271.4	2,844
Katikamu	64.8	415.9	242.4	70.0	793.1	12.0	8.4	65.5	0.0	85.9	3.0	4.8	6.9	0.0	14.7	79.8	429.1	314.8	70.0	893.
Nakaseke	18.7	457.0	1,195.2	911.4	2,582.3		33.3	6.06	33.6	163.0	1.0	1.0	9.1	2.1	13.2	24.9	491.3	1.295.2	947.1	2,758.5
Wabusaana	210.4	279.0	104.9	323.3	917.6	5.3	24.1	10.7	7.0	47.1	1.0	13.0	1.9	1.0	16.91	216.7	316.1	1175	331.3	981.6
Total	297.9	1,182.3	2,076.0	3,558.7	7,114.9	22.5	65.8	172.2	48.8	309.3	5.0	18.8	17.9	12.3	54.0	325.4	1,266.9	2,266.1	3,619.8	7,478.2
Masaka																				
Bukomansimbi	20.0	24.3	223.9	0.0	268.2	18.9	22.5	91.2	0.0	138.6	1.8	0.6	23.5	0.0	34.3	40.7	55.8	344.6	00	441.1
Bukoto	65.6	449.3	229.3	208.5	952.7	21.7	116.5	132.8	18.1	289.1	6.9	123.5	27.2	100.1	257.7	94.2	689.3	389.3	326.7	1,499.5
Kalungu	37.4	73.0	161.6	14.6	286.6	31.1	49.3	53.9	0.0	134.3	25.2	33.2	20.6	0.0	0.67	93.7	155.5	236.1	14.6	499.9
Lwcmiyaga	0.0	0.0	382.0	0.0	382.0	0.0	0.0	205.1	0.0	205.1	0.0	0.0	57.0	0.0	57.0	0.0	0.0	644.1	0.0	644.1
Masaka Mun.	5.0	5.0	0.0	0.0	10.0	14.2	5.0	2.0	0.0	21.2	0-1	1.0	0.0	0.0	2.0	20.2	11.0	2.0	0.0	33.2
Mawoggola	0.7	0.0	754.8	16.1	6.117.9	0.0	0.0	188.4	0.0	188,4	0.0	0.0	25.1	0.0	25.1	0.7	0.0	968.3	1.6.1	991.4
Total	135.0	551.6	1,751.6	239.2	2,677.4	85.9	193.3	679.4	18.1	976.7	34.9	166.7	153.4	100.1	455.1	255.8	911.6	2,584.4	357.4	4,109.2
Mpigi																				
Busiro	61.2	136.3	51.2	0.0	248.7	23.6	101.1	12.2	1.0	137.9	22.6	47.9	4.1	0.0	74.6	107.4	285.3	67.5	1.0	461.2
Butambala	21.6	21.1	34.2	18.2	95.1	8.0	28.1	19.3	0.0	55.4	13.8	20.3	3.2	0.0	37.3	43.4	69.5	56.7	18.2	187.8
Entebbe Mun.	0.0	22.4	0.0	0.0	22.4	0.0	1.9	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	24.3	0.0	0.0	24.3
Gomba	20.7	81.0	563.1	108.1	772.9	4.0	54.3	218.9	19.2	296.4	8.9	50.7	72.4	1.0	133.0	33.6	186.0	854.4	128.3	1,202.3
Kyadondo	29.2	58.2	121.1	3.0	211.5	11.8	52.4	56.0	2.0	122.2	0.0	12.9	3.5	2.0	18.4	41.0	123.5	180.6	7.0	352.1
Mawokota	25.5	98.4	10.2	54.8	188.9	35.0	60.5	4.1	4.0	103.6	14.6	36.8	0.0	0.0	51.4	75.1	195.7	14.3	58.8	343.9
Total	158.2	417.4	779.8	184.1	1,539.5		1.9	310.5	26.2	717.4	59.9	168.6	\$3.2	3.0	314.7	300.5	884.3	1,173.5	213.3	2,571.6
Mukono																				
Bbale	130.6	123.5	27.8	573.6	\$55.5	0.0	1.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	130.6	124.5	27.8	573.6	856.5
Buikwe	51.1	159.9	2.1	0.0	213.1	49.8	115.7	0.0	0.0	165.5	13.2	67.7	0.0	0.0	80.9	114.1	343.3	2.1	0.0	459.5
Buvuna	105.6	0.0	0.0	0.0	105.6	57.2	1.9	0.0	0.0	59.1	22.4	0.0	0.0	0.0	22.4	185.2	6.1	0.0	0.0	187.1
Mukono	80.4	110.4	45.2	0.0	236.0	21.7	60.3	19.3	0.0	101.3	4.1	28.0	60	0.0	33.0	106.2	198.7	65.4	0.0	370.3
Nakifuma	146.3	287.6	28.3	0.0	462.2	3.0	5.1	3.0	0.0	11.1	0.0	0.0	1.0	0.0	1.0	149.3	292.7	32.3	0.0	474.3
Ntenjeru	18.1	412.7	19.1	11.8	461.7	0.0	1.1	2.1	0.0	3.2	0.0	0.0	0.0	0.0	0.0	18.1	413.8	21.2	11.8	464.9
Total	532.1	1,094.1	122.5	585.4	2,334.1	131.7	185.1	24.4	0.0	341.2	39.7	95.7	1.9	0.0	137.3	703.5	1.374.9	148.8	585.4	2,812.6
Cand Total	1 122 0	1.2400	0 000 1	1 527 1	10 222 61	3 000	1 0 1					0.00				0 202 1				

Note: As for soil groups (GS) refer to Table 6.10.1.1

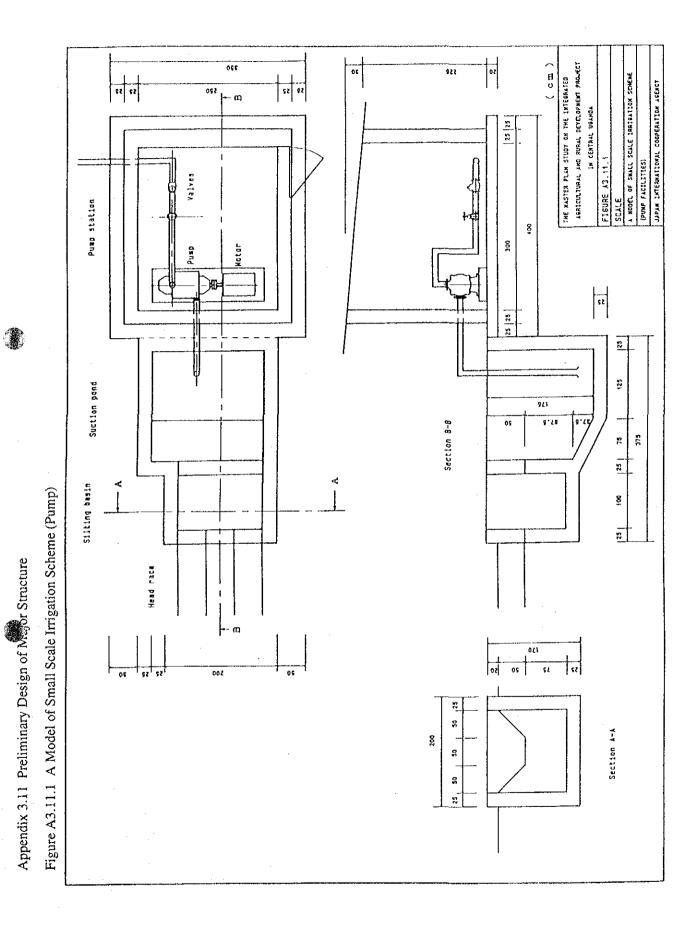
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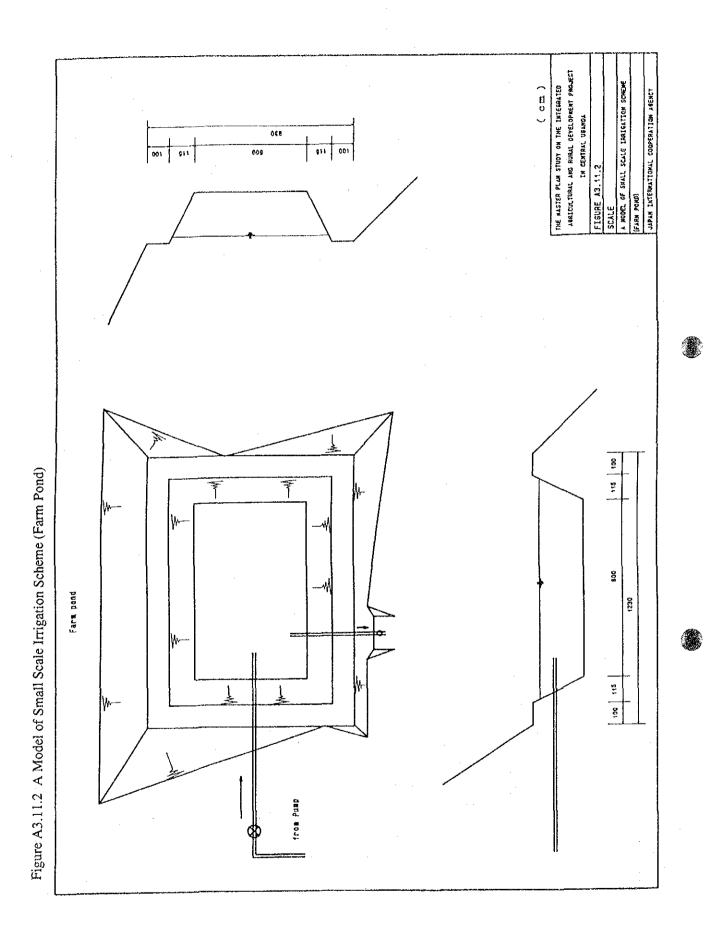
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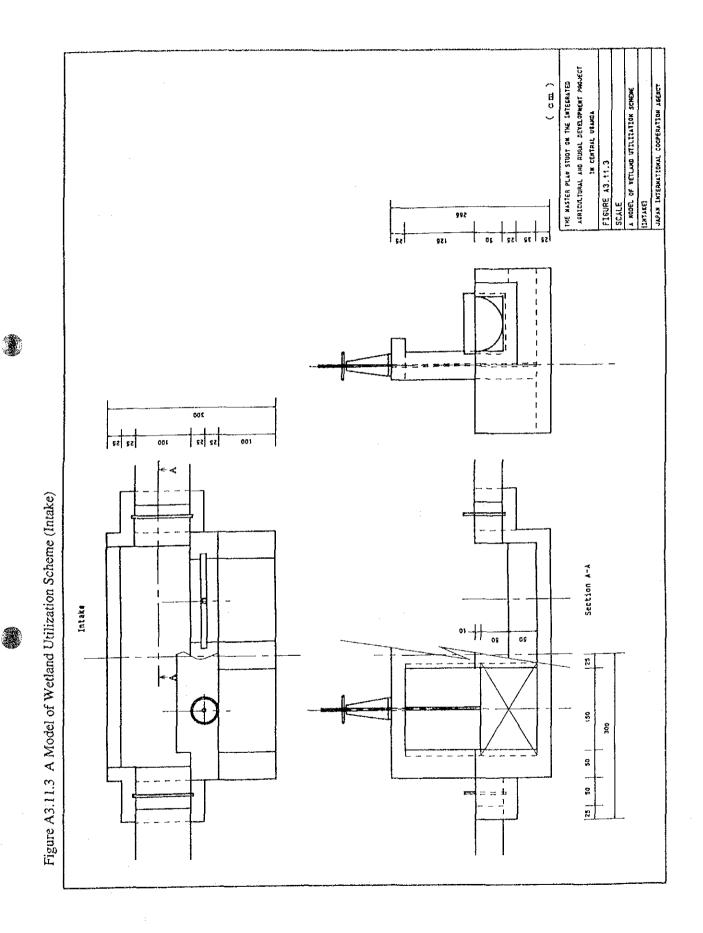
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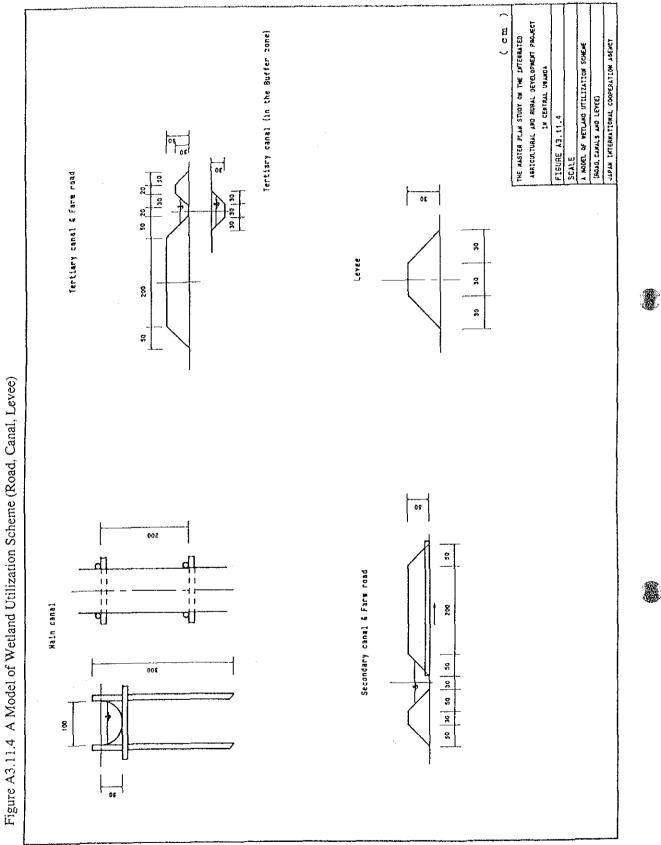
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# Appendix 4

## **Project Implementation**

# Appendix 4.1 Project Cost Estimates Table A 4.1.1 Project Costs

Ê.

(1) Agricultural Infrastructure	(1) A	gricultu	ral Infra	structure
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Item	Unit	Q'ty	Unit Price	Amount('000US\$)
I.Investment cost				
1.Agricultural infrastructure				
1)Farm land reclamation				86,11
Farm Land reclamation	ha	93,300	901	84,06
Farm road	km	6,375	322	2,05
2)Farm land improvement				35,82
Farm land improvement	ha	43,200	805	34,78
Farm road	km	3,225	322	1,03
3)Grass land development				6,92
Clearing & burning	ha	29,440	25	73
Tillage & land grading	ha	29,440	90	2,65
Soil amendment	ha	26,496	60	1,59
Fartilizing & seeding	ha	26,496	70	1,85
Farm road	km	294	322	9
4)Grass land improvement				9,90
Tillage & land grading	ha	47,100	90	4,23
Soil amendment	ha	42,390	60	2,54
Fartilizing & seeding	ha	42,390	70	2,96
Farm road	km	471	322	15
5)Small scale irrigation	ha	2,500	3,119	7,79
(only facilitiy)				
6)Paddy field development	ha	5,900	3,134	18,49
7)Livestock facility				18,48
Fence (A) 3-lines	km	4,860	420	2,04
Fence (B) 4-lines	km	2,700	480	1,29
Dipping & scale facility	place	1,310	745	97
Reservoir	place	1,310	1,320	1,72
Hay storage	place	10,480	250	2,62
House	place	10,480	800	8,38
Valley dam	place	36	22,220	80
Dipping facility	place	36	9,310	33
Bee hive	set	5,000	26	13
Bee protective	set	200	67	1
Processing & packaging material	set	16	2,010	3
Station wagon	car	4	31,000	12
Sub-Total				183,54

	Item	Unit	Q'ty	Unit Price	Amount('000US\$)
o	te and assume the				
1)Resea	ultural support				
	ARO Headquarters				3,135
• •	-	set	1	2,823,000	2,823
	uildings minment	set	1	312,000	312
E	luipment	501	•	0.1-1000	
(2) Ka	wanda agri. research institute				3,944
• •	nilding	set	1	2,960,000	2,960
	uipment	set	1	784,000	784
	rm improvement	set	1	200,000	200
(3) Na	amulonge agricultural & animal				
· ·	oduction research institute				2,740
•	nilding	set	1	1,236,125	1,236
	uipment	set	1	1,128,160	1,128
	rm improvement	set	1	16,189	16
	ccess road	km	9	40,000	360
(4)Kifu	forestry research institute				1,659
B	nilding	set	1	1,280,000	1,280
Ec	luipment	set	1	379,000	379
2)Exter	sion				
	ikalasa agri. college				3,235
	ilding	set	1	1,461,779	1,462
	Juipment	set	1	593,386	593
	rm improvement	set	1	779,806	780
	ccess road	km	10	40,000	400
(2) Es	tablishment of DFI				3,510
• •	ilding	set	2	994,150	1,988
	uipment	set	2	211,000	422
	rm improvement	set	2	350,000	700
	ccess road	km	10	40,000	400
(3) Re	habilitation of DFI				2,445
N° 7	uilding(Masaka)	set	1	526,665	527
	uipment(Masaka)	set	1	254,150	254
	rm improvement(Masaka)	set	1	444,037	444
	ccess road(Masaka)	km	10	40,000	400
	ilding(Mukono)	set	- 1	248,739	249
	uipment(Mukono)	set	1	160,150	160
	rm improvement(Mukono)	set	1	331,039	331
	ccess road(Mukono)	km	2	40,000	80
(4) Bi	anch extension office				4,113
• •	ilding	place	225	12,500	
	luipment	set	225	4,000	
	rm improvement	place	400	1,000	
1.9	in mprovement	Place	-00	1,000	007

Item	Unit	Q'ty	Unit Price	Amount('000US\$
				4.75
5)Improvement of working condition			2 (00 000	4,75 3,60
Building	set	1	3,600,000	
Training	set	1	984,000	98
Equipment	set	1	172,000	17
6)Improvement for plant protection				9
Training	set	1	68,200	6
Equipment	set	1	30,800	3
7)Tannary & foot wear training school				75
Leather production section	set	1	714,000	71
Leather goods production section	set	1	37,000	3
)Animal improvement				
1)Breed importation				6,26
Beef cattle	head	1,000	1,650	1,65
Milk cattle	head	4,000	600	2,40
Goat (milk)	head	500	400	20
Goat (meat)	head	3,000	300	90
Sheep (meat)	head	2,000	250	5(
Pig (meat)	head	500	250	12
Poultry (for farming)(layer)	head	70,000	4	
Poultry (for farming)(broiler)	head	70,000	2	
Poultry (for hatchery)(layer)	head	45,000	5	2
Poultry (for hatchery)(broiler)	head	45,000	5	22
2)ABC(Artificial breeding centre)				20
Infrastructure	set	1	41,250	4
Semen production equipment	set	1	13,000	
Office equipment	set	1	16,660	
Vehicle	set	1	41,660	•
Dairy bull calves	head	20	600	
Beef bull calves	head	20	600	
Semen staff residential house	house	3	21,700	(
3)AISC(Artificial insemination sub-cen	tre)			
Rehabilitation				13
Accommodation	place	10	6,670	(
Office building	place	10	4,170	,
Equipment	place	10	1,500	
AI kit	place	10	660	
Vehicle	car	10	5,050	
Construction				3
Accommodation	place	11	18,000	1
Office building	place	11	10,000	1
Equipment	place	11	1,500	
	place	11	660	
AI kit	place	**	000	

	Unit	Q'ty	Unit Price	Amount('000US\$)
(4)Veterinary centre				
Rehabilitation				139
Accommodation	place	8	6,670	53
Office building	place	8	4,170	33
Equipment	place	8	1,500	12
Vehicle	car	8	5,050	4(
Veterinary centre				
Construction				346
Accommodation	place	10	18,000	180
Office building	place	10	10,000	100
Equipment	place	10	1,500	15
Vehicle	car	10	5,050	51
5)Vaccine production laboratory				250
Office building	place	1	100,000	100
Viral unit	set	1	50,000	50
Bacterial unit	set	1	100,000	100
)Machinary service				
1)AA (Agricultural association)				9,151
Tractor (75HP)	set	225	18,120	4,077
Disk plow (3disks)	set	225	2,550	574
Truck (2t)	car	225	20,000	4,500
2)IA (Irrigation association)				11,382
Tractor (80HP)	set	247	18,120	4,470
Disk plow (3disks)	set	247	2,550	630
Disk harrow	set	247	3,310	818
Sprayer (back type)	set	2,470	210	519
Truck (2t)	car	247	20,000	4,94(
3)LA (Livestock association)				14,820
Tractor (75HP)	set	609	18,120	11,035
Disk plow (3disk)	set	87	2,550	222
Disk harrow	set	87	3,310	288
Packer	set	87	2,260	191
Rotary mower	set	87	3,600	313
Tedder	set	87	3,600	313
Rake	set	87	3,860	330
Trailer	set	87	4,320	370
Truck (2t)	car	87	20,000	1,740
Sub-Total				73,510

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ltem	Unit	Q'ty	Unit Price	Amount('000US\$)
3.Processing and marketing				
1)Slaughter slab	place	35	15,926	557
2)Slaughter house	place	2	63,636	127
3)Milk collection centre				415
Milik collection centre	place	6	4,218	25
Cooler(5,0001)	set	6	45,000	270
Vehicle	car	6	20,000	120
4)Livestock market(10,200sq.m)	place	10	80,165	802
5)Cereal warehouse(60t)				2,257
Coffee	ton	3,304	227	750
Grain	ton	2,922	227	663
Cotton	ton	1,189	710	844
6)Rice processing facility				662
Rice processing facility	place	47	9,547	449
Rice mill(5t/day)	set	47	4,545	214
7)Agricultural product collection cent	re			24,000
Collection centre unit	place	225	60,000	13,500
Juice factory	place	2	4,000,000	8,000
Processing factory	place	50	50,000	2,500
8)Rehabilitation of				
Masaka fruits factory	place	1	3,500,000	3,500
Sub-Total				32,321

	ltem	Unit	Q'ty	Unit Price	Amount('000US\$)
4.R	tural & social infrastructure				
1)	Bore hole				27,236
1)	Construction	place	3,981	6,800	27,071
	Rehabilitation	place	57	2,900	165
2)	Spring				31,059
·	Protection	place	3,280	1,700	5,576
	Dug well	place	3,081	4,400	13,556
	Augered well	place	3,727	3,200	11,926
3)	Primary school				1,720
	Building	place	60	20,273	1,216
	Equipment	set	60	7,096	426
	Accommodation	house	14	5,573	78
4)	Secondary school				709
	Building	place	19	24,785	471
	Equipment	set	19	9,914	188
	Dormitory	place	5	5,573	28
	Accommodation	house	4	5,573	22
5)	Feeder road				17,341
	Establishment(IV)	km	2,096	6,000	12,576
	Equipment(I~IV)	set	4	1,191,200	4,765
6)	Community centre				5,417
	Building	place	225	16,050	3,611
	Equipment	set	225	8,025	1,806
7)	Electrification				40,740
	Establishment(11KV)	km	110	13,273	1,460
	Establishment(433V)	km	2,096	14,112	29,579
	Establishment(240V)	km	950	10,178	9,669
	Transformer(11KV~433V)	place	3	10,736	32
	Sub-Total				124,222

	Item	Unit	Q'ty	Unit Price	Amount('000US\$)
5 In	ntegrated development centre				
1)	IDC				106
.,	Improvement	place	1	20,000	20
	Personal computer	set	1	2,800	
	Copy machine	set	1	2,520	
	Office material	set	1	1,500	2
	Vehicle(van)	car	2	14,500	29
	Vehicle(station wagon)	car	1	31,000	31
	Accommodation	house	5	3,500	18
2)	IDSC				169
	Improvement	place	4	10,000	4(
	Personal computer	set	4	2,800	1
	Copy machine	set	4	2,520	10
	Office material	set	4	1,500	(
	Vehicle(van)	car	4	14,500	58
	Vehicle(motorbike,125cc)	car	4	5,050	20
	Accommodation	house	8	3,000	24
3)	DAO,DVO,DCO				439
	Improvement	place	12	8,000	90
	Copy machine	set	12	2,520	3(
	Office material	set	12	1,500	18
	Vehicle(van)	car	12	14,500	174
	Vehicle(motorbike,125cc)	car	12	5,050	6
	Accommodation	house	24	2,500	60
	Sub-Total				714
I.In	vestment cost total				414,308
II.A	dministration cost				105,400
III.I	Physical contingency				41,43
IV.I	Engineering service				62,140
	Total				623,284
V.P	rice contingency				288,814
	Grand total				912,098

(5) Integrated Development Center (DIC)

Table A 4.1.2 Project Costs and Foreign Currency	(1/2)	('000US\$)
Item	Amount	F/C
I.Investment cost		
1.Agricultural infrastructure	86,118	62,292
1)Farm land reclamation	35,825	31,500
2)Farm land improvement	6,925	4,341
3)Grass land development	9,901	6,82
4)Grass land improvement	7,798	6,62
5)Small scale irrigation	18,493	13,31
6)Paddy field development	18,481	10,129
7)Livestock facility	10,401	10,12
Sub-Total	183,541	135,039
2.Agricultural support		
1)Research		
(1) NARO Headquarters	3,135	1,97
(2) Kawanda agri. research institute	3,944	2,60
(3) Namulonge agricultural & animal		
production research institute	2,740	2,07
(4)Kifu forestry research institute	1,659	1,10
2)Extension	,	
(1) Bukalasa agri. college	3,235	2,22
(2) Establishment of DFI	3,510	2,33
(3) Rehabilitation of DFI	2,445	1,71
(4) Branch extension office	4,113	2,73
(5)Improvement of working condition	4,756	2,58
(6)Improvement for plant protection	99	9)
(7)Tannary & foot wear training school	751	52
3)Animal improvement		
(1)Breed importation	6,267	5,64
(2)ABC(Artificial breeding centre)	202	14
(3)AI(Artificial insemination)	181	12
AISC(Artificial instition sub-centre)	387	24
(4)Veterinary center(Rehabilitation)	139	9
Veterinary center(Construction)	346	21
(5)Vaccine production laboratory	250	18
4)Machinary service	And 6.4 M	
(1)AA (Agricultural association)	9,151	8,17
(1)AA (Agricultural association) (2)IA (Irrigation association)	11,382	10,09
(3)LA (Livestock association)	14,820	13,24
Sub-Total	73,510	58,140

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Table A 4.1.2 Project Costs and Foreign Currency

Leona di Canada di Ca	(2/2)	('000US\$) F/C
Item	Amount	
3.Processing and marketing		
1)Slaughter slab	557	334
2)Slaughter house	127	76
3)Milk collection centre	415	305
4)Livestock market(10,200sq.m)	802	240
5)Cereal warehouse(60t)	2,257	677
6)Rice processing facility	662	372
7)Agricultural product collection centre	24,000	11,950
8)Rehabilitation of		
Masaka fruits factory	3,500	2,800
Sub-Total	32,321	16,755
4.Rural & social infrastructure		
1) Borehole	27,236	21,789
2) Spring	31,059	24,847
3) Primary school	1,720	694
4) Secondary school	709	293
5) Feeder road	17,341	8,842
6) Community centre	5,417	3,070
7) Electrification	40,740	28,518
Sub-Total	124,222	88,053
5.Integrated development centre		
1) IDC	104	75
2) IDSC	169	119
3) DAO,DVO,DCO	439	313
Sub-Total	713	508
I.Investment cost total	414,307	298,501
II.Administration cost	105,400	75,788
III.Physical contingency	41,431	29,850
V.Engineering service	62,146	44,775
Total	623,284	448,914
V.Price contingency	288,814	106,971
Grand total	912,098	555,884

#### Table A4.1.3 Cost of Agricultural Support Plan

#### 1) Costs of NARO Headquaters Construction Plan

								(values in USS)
Category	licm	Unit	Unit Cost	Q'ty	Sub Total		Remarks	
Buildings	Houses	unit	62,500	20	1,250.000	125sq.m		
		unit	40.000	25	1,000,000	80sq.m		
	Offices	unit	8,000	17	136,000	16sq.m		
		unit	4,000	14	56.000	8sq.m		
		vnit	2,000	15	30,000	4sq.m		
	Visiter's rooms	unit	8,000	4	32,000	16sq.m		
	Conference room	unit	58.000	1	58,000	115sq.m		
	Committee room	unit	15,000	2	30,000	30sq.m		
	Libr, & Doc. center	unit	50.000	1	50,000	100sq.m		
	Storage room	unit	60,000	1	60,000	120sq.m		
	Contingency	unit	50.000	1	50,000	100sq.m		
	Circul./Recep. etc	unit	71,000	1	71,000	143sq.m		
	Subtotal Buildings				2,823.000			
Equipment	Cars	саг	20,000	3	60.000	2,000cc		
	Pick up	car	30.000	3	90.000	2,000cc		
	Motorcycle	car	3.000	2	6.000	125cc		
	Microphone set	set	1,000		1,000			
	Computer	set	5,000	10	50.000			
	Xerox	set	5,000	3	15,000			
	Typewriter	set	3,000	5	15.000			
	Furnitures	set	1.000	50	50.000		·	
	Others	sct	25,000	ار	25.000			
	Ginera		25,000	1				
	Subtotal				312.000			
Total					3,135,000			

### 2) Costs of Improvement Plan for Kawanda Agricultural Research Institute

Category	Item	Unit	Unit Cost	Q'ty	Sub Total	Remarks
D 11 P	11		62,500	16	1,000,000	125sg.m
Buildings	Houses	unit unit	500,000	16	500,000	50 bedroomd gesthouse with catering and recreation facilities
	Dormitory Offices		8.000	0		16sq.m
		unit unit	500,000	1	500.000	Tosqui
	Laboratory	set	500,000	1	500.000	
	Repair (house) Repair (laboratory)	set	50,000	1	50.000	
	Conference room	unit	200.000	1	200,000	100 participants with audio-visual facility, canteen, etc.
	Emargency Power Generator	set	50.000	1	200,000	Too parterpans with aboro ristar mently, cancent etc.
	Water supply	set	160.000	1	160.000	
	and offer					
	Subtotal Buildings				2,960,000	
Farm	Irrigation facility	set	200.000	1	200.000	······································
improvemen						
					200.000	
Failemant	Cantal Fau austom		4,000		4.000	·
Equipment	Cental Fax system Repair (Agri, machine)	set set	80.000		80,000	
	Crawler Tractor	car	150.000	1	150,000	With heavy duty plough
	Tractor implements	set	20.000		20,000	2 plought, 2 disk harrows, 1 planter, 1 spray
	Mowing tractor	set	30,000		30,000	With 2 sets of Gang mowers
	Sericulture laboratory	set	500,000	. 1	500,000	Vehicles, Equipment, Chemicals
	Serieshure monitary		500.000	•	2001000	· · · · · · · · · · · · · · · · · · ·
	Subtotal Equipment				784.000	
Total	· · · · · · · · · · · · · · · · · · ·				3,944,000	

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3) Costs of Improvement Plan for Namulonge Agricultural and Animal Production Research Institute

						(values in USS
Category	ltein	Unit	Unit Cost	Qʻiy	Sub Total	Remarks
Buildings	Houses	unit	62,500	10	625,000	125sq.m
Sunongo	Laboratory, Library,	unit	512,000		512,000	1,024sg.m
	Conference room complex				0	
	Repair (house)	set		1	0	
	Water supply & Sewage	set	42.735	1	42,735	
	Communication facility	set	45,000	1	45,000	Fax, phone, telex facilities
	Emargency Power Generator	set	11,400	1	11,400	
	Subtotal Buildings				1,236,135	· · · · · · · · · · · · · · · · · · ·
Access road		km	40.000	9	360.000	
Farm	Irrigation facility	set	16,189	1	16,189	
improvemen	a					
					16,189	
Equipment	Plant protection lab.	set	792.452	1	792,452	
• •	Livestock laboratory	set	122.043	1	122,043	
	4 wheel drive double cabin	car	23,000	3	69,000	
	Motor cycle	car	3,000	10	30.000	
	5 t lorry	car	40.000	1	40,000	
	Tractor	car	23,069	2	46,138	83 HP
	Tractor implements	set	28,527	. 1	28,527	Disc harrow, 5 ton tipping trailor, 4 row planter, boom sprayer 40
	Subtotal Equipment				1,128,160	
Total					2,740.484	

#### 4) Costs of Establishment Plan for Kifu Forestry Research Institute

								(values in US
Category	Item	Unit	Unit Cost	Q'ıy	Sub Total		Remarks	
			100.000		100 000	200		
Buildings	House	unit	100,000		100,000	200sq.m		
		unit	25.000		175,000 480,000	125sq.m		
	• •	unit	40,000			80sq.m		
	Laboratory	unit	250,000		250.000	500sq.m		
	Workshop	unit	100,000		100.000	200sq.m		
	Offices	unit	125.000	1	125.000	250sq.m		
	Others	unit	50,000	1	50.000	100sq.m		
	Subtotal Buildings				1,280,000			
Equipment	Trucks	car	30,000	2	60.000			· ·
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	Car/Pick up	car	20,000		100,000			
	Tractor+Implements	car	15,000		15,000			
	Irrigation equipment	set	15,000		15,000			
	Others	sei	1,000					
	Computer	set	6,000		24,000			
	Xerox	set	6.000		6,000			
	Typewriter	set	3,000		9,000			
	Lab. Equipment	set	100,000		100.000			
	Lab. Equipment Furniture	set	1.000		35.000			
	Subtotal Equipment				379,000			
Total					1,659,000			

5) Costs of Rehabilitation Plan for Bukalasa Agricultural College

Category	Item	Unit	Unit Cost	Q'ty	Sub Total	Remarks
Buildings	Water supply and Sewage	set	189,700	1	189.700	water tanks, borcholes, plumbing
	Library	unit	14,987	1	14,987	Rehabilitation( repair. shelves, air condition, toilets)
	Laboratory(Home ecnomics)	unit	6,922	1	6.922	
	Classrooms	mit	56,102	l	56,102	6 Blacks
	Audio-Visual Centre	unit	515	1	515	
	Workshop	unit	53,442	1	53,442	
	House	set	625.000	1	625,000	Rehabilitation of 36 units
	House	set	400.000	L L	400.000	Newly constructed 10 houses
	Dispensary	set	218	1	218	Rehabilitation
	Assembly Hall	บแม่เ	19987	1	19.987	Rehabilitation
	Offices	set	48,906	1	48,906	Rehabilitation (Administration, lecturers' office, staff room)
	Recreation	set	46,000	1	46,000	Rehabilitation(students centre, swimming pool, staff canteen)
	Stores	unit	11.452	l	11,452	Rehabilitation
	Seculity lights	set	2,800	1	2,800	
					N.	
	Subtotal Buildings				1.461,779	
Farm	Crop section	set	465,700	ī	465,700	Ox-traction system, fertilizer, herbicides, equipments,
improvement						Irrigation facilities, stores, etc.
	Livestock unit	set	314,106	1	314,106	Dairy unit, Piggery unit, Poultry unit, Rabbit unit,
						Goat unit, Fish pond, Others
	Subtotal				779.806	• · · ·
A a spee B cod		km	40,000	10	400.000	Талпас
Access Road		KIII	40.000	10	400.000	1 Quant
Equipment	Library(books)	set	8,000	1	8.000	400books
•••	Library(furniture)	set	4,335	1	4,335	200 chairs & 30 big tables
	Laboratory	set	76,184	1	76,184	Biology, chemistry, Physics/soil, Home Economics, Furniture
	Classrooms(furniture)	set	4.200	- 1	4,200	
	Audio-Visual	set	5,470	1	5.470	TV, Video deck, Video camera, Slides projector, OHP
	Workshop	set	208.442	1	208,442	Mechanical, electrical, carpentry, brick making workshop
	House(furniture)	set	126.250	1	126,250	
	House(furniture)	set	59,100		59,100	Fro newly established houses
	Dispensary	set	850		850	Beds, mattresses and drugs
	Assembly Hall	set	7,500	1	7.500	500 chairs
	Offices	set	21,255	1	21,255	Chairs, desks, fans, carpets, cabinets
	Recreation	set	15,000		15,000	
	Bicycles	car	220	80	17.600	
	Motorcycles	car	3.000		1 1	
	•		21,200		21,200	14 seats
	Van	car	21,200	. 1	21,200	17 0000
	Subtotal Equipment				593,386	
Total					3,234,971	

(values in USS)

#### 6) Costs of Established Plan for District Farm Institute

Category	Item	Unit	Unit Cost	Q'ty	Sub Total	(values in USS) Remarks
Caregory	nem	Unit	Onicost	219	Sao rotat	iveniako
Buildings	Admi'n Block & Classroom	unit	156,000	2	312,000	312sg.m
	Assembly Hall	unit	131,000			•
	Dining Hall	unit	124,500			249sq.m
	Dormitorics	unit	73,500	4	294,000	147sq.m
	House(two bedroom)	unit	40,000	8	320,000	80sg.m
	House(one bedroom)	unit	15,000	10	150,000	30sq.m
	Electrical Installation	set	73.400	2	146,800	-
	Water supply & sewage	set	42.000	2		
	Soil & Waste water Drainage	set	44,300	2	88,600	
	Surface water Drainage	set	8300	2 2	16,600	
	Roads & car park	set	32,650	2	65,300	
	2-Stance Pit Latrines	set	15,900	2		
			<b> </b>			
	Subtotal Buildings				1,988,300	
Farm	Crop section	set	200.000	2	400,000	Ox-traction system, fertilizer, herbicides, equipments,
improvement	L					Paddy field, stores, etc.
	Livestock unit	set	150,000	2	300.000	Dairy unit, Piggery unit, Poultry unit, Rabbit unit,
						Goat unit, Fish pond, Others
	Subioial				700.000	
Access Road		km	40,000	10	400,000	Tarmac
		A.III	10.000		1001000	
Equipment	Trucks	car	30.000	2	60,000	
	Car/Pick up	car	20,000	2	40,000	
	Tractor+Implements	car	15,000	2	30.000	
	Others	set	1,000	30	30.000	
	Computer	set	6,000	4	24,000	
	Xerox	set	6.000		12,000	
	Typewriter	set	3.000	2		
	Agrometeorological station	set	30.000	2		
	Furniture	set	1,000	70		
	Motorcycles	car	3,000	10		
	Van	car	30.000	2		
	Audio-Visual	set	5,470	2	10,940	
	Soil analysis	sct	10,000	2	20,000	
	20 A				122.000	
	Subtotal Equipment				422,000	
Total			l		3,510.300	



#### 7) Costs of Rehabilitation Plan for District Farm Institute (Masaka)

Category	Item	Unit	Unit Cost	Q'ty	Sub Total	Remarks
	· · · · · · · · · · · · · · · · · · ·					
Buildings	Administration Block	set	20,000		20,000	
	Training Block	set	100,000		100,000	Classroom, library, recreation
	Dormitories	set	35.000	1	35.000	Rehabitation includes furniture
	Dormitories	unit	55,000	2	110.000	Newly established 2 blocks include furniture
	Kitchen and Dinning hall	set	64,000		64,000	
	Houses(principles)	set	5.000	1	5,000	
	Houses(Family staff)	set	10,000	· 1	10.000	
	Houses(Single staff)	set	6.000	1	6.000	
	Houses(Group employee)	set	61,700	1	61,700	
	Fencing	set	19,495	1	19,495	
	Water supply	set	60,970		60,970	
	Telecomunication	set	22,000		22,000	
	Power supply	set	12,500	l	12,500	
	Subtotal Buildings				526,665	
Farm	Crop & animal section	set	444.037	1	444,037	Ox-traction system, fertilizer, herbicides, equipments,
improvement	- t					Paddy field, stores, etc.
•			:			Dairy unit. Piggery unit, Poultry unit, Rabbit unit,
						Goat unit, Fish pond, Others
	Subtotal				444.037	
Access Road		km	40,000	10	400.000	Таппас
Equipment	Trucks	car	30,000		30.000	
Ецириси	Car/Pick up	car	20,000		20.000	
	Tractor+Implements	car	58,150	1	58,150	
	Others	set	1,000	20		
	Computer	set	6.000	20	12,000	
	Xerox	set	6,000	1	6,000	
	Typewriter	set	3.000		3.000	
	Agrometeorological station	set	30,000		30.000	
	Agrometeorological station		1.000	30		
		set	3,000	. 5		
	Motorcycles Van	car	30,000		30,000	30 scats
		car	5,470		5,470	TV, Video deck, Video camera, Slides projector, OHP
	Audio-Visual	set	5,470		5,470	iv, vieco deck, vieco camera, snocs projector, orir
•	Soil analysis	set	10,000	. 1	10,000	
	Subtotal Equipment				254,150	

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#### 8) Costs of Rehabilitation Plan for District Farm Institute (Mukono)

						(values in USS
Category	Item	Unit	Unit Cost	Q'ty	Sub Total	Remarks
Buildings	All building	set	203,322		203,322	3 classrooms, Kitchen, Dormitories, Staff quaters, Pit latrin
Dunoingo	Water supply system	set	45,417		45,417	
	Subtotal Buildings				248,739	
Farm	Crop & animal section	set	331,039	1	331,039	Ox-traction system, fertilizer, herbicides, equipments,
improvemen	it					Paddy field, stores, etc.
						Dairy unit, Piggery unit, Poultry unit, Rabbit unit,
						Goat unit, Fish pond, Others
	Subtotal				331,039	
• ·· · • • • • · ·		1	10.000		00.000	Terman
Access Road	1	km	40,000	2	80,000	Tarmac
Equipment	Lorry	car	40,000	1	40,000	7 ton
	Van	car	30,000	1	30,000	30 seats
	Tractor+Implements	car	58,150	1	58,150	
	Others	set	1,000	20	20,000	
	Computer	set	6.000	2	12,000	
	Xerox	set	6.000	1	6,000	
	Typewriter	set	3.000	1	3,000	
	Agrometeorological station	sci	30,000	1	30.000	
	Furniture	set	1,000			
	Motorcycles	car	3,000			
	Van	car	30,000		30,000	
	Audio-Visual	set	5,470		5,470	TV, Video deck, Video camera, Slides projector, OHP
	Soil analysis	set	10,000	1	10,000	
	Subtotal Equipment				160,150	
Total					819,928	

#### 9) Costs of Construction Plan for Branch Extension Office

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Category	Item	Unit	Unit Cost	Q'ty	Sub Total	Remarks
Buildings	Branch Office	unit	12,500	225	2,812,500	25sq.m
	Subtotal Buildings				2,812,500	
Farm	Demonstration Farm	place	1,000	400	400.000	Fartiliser, pesticide, seeds, panel, advertisement panel
improvemen	lt.					
	Subtotal				400.000	
Equipment	Furniture	set	1.000	225	225,000	Desk, chair. shelves
	Audio-Visual	set	3,000	225	675.000	TV, Video deck,
	Subtotal Equipment				900,000	
Total					4,112,500	

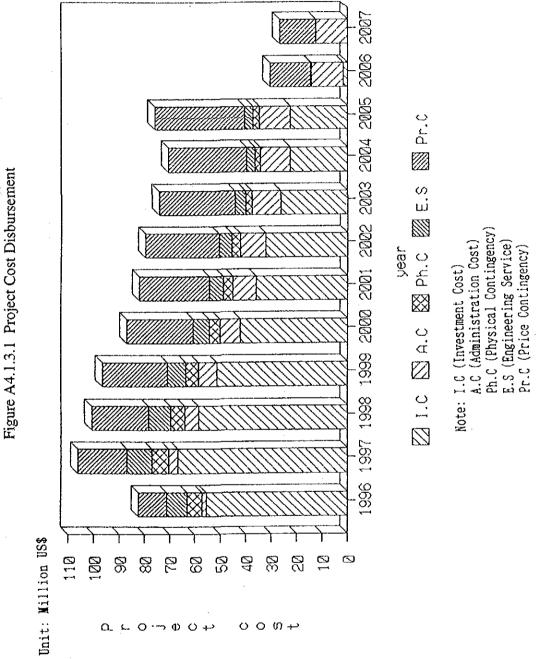
(values in USS)

#### 10) Costs of improvement of working condition

#### (values in USS) Remarks Q'ty Sub Total Unit Unit Cost Category ltein 40,000 90 3,600,000 80sq.m Buildings House unit 3,600,000 720,000 Subtotal Buildings 300\$/Month\*12month/year=3,600\$ 2person/year\*6year=12 3,600 22,000 200 Salaries Salaries person Training person 12 264,000 increase 984,000 Subtotal 22,000 Desk, chair, shelves Bicycle 220 100 car Equipment 150,000 125cc 3,000 50 Motorcycles car 172,000 Subtotal Equipment 4,756,000 Total

#### 11) Costs of improvement for Plant protection unit

Category	Item	Unit	Unit Cost	Q'ty	Sub Total	Remarks
Buildings	House	unit			0	
	Subtotal Buildings	M/M	10,700	. 6	0 64,200	·
Salaries increase	Chief Technical Adviser In service training	M/M M/M	500			
	Subtotal				68,200	
Equipment	Bicycle	car			0	
	Motorcycles	car	3,000	4	12,000	125cc
	Laboratory equipment	set	4,700	4	18,800	Dissecting microscope, Dissectiong set, scale, etc.
	Subtotal Equipment				30,800	
Total					99,000	



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Appendix 4.2 Selection of Priority Sub-County for Feasibility Study

Table A 4.2.1 Priority Sut-County by District

County	Sub-county	CI	C2	C3	C4	C5	Total	Mean	Order
Wabusana	Kikyusa Zirobwe Bamunanika Kalangala Kamira	2 2 3 2 2	2 2 3 2 1	4 4 4 4 4	1 4 2 4	3 2 3 2 2	12 14 17 12 13	2.4 2.8 3.4 2.4	15 10 4 15
Buruli	Nabiswera Lwampanga Wabinyonyi Kakooge Kalungi	4 2 4 4 1	3 2 4 4	4	4 2 2	2 2 3 3 2	17 14 16 16 10	2.8 3.2 3.2	10 6 6
Katikamu	Butuntumula Luwero Katikamu Nyimbwa Makulubita	4 4 4 4 3	4 4	3	3 4 1	4 4 3 4 3	20 18 18 16 15	3.6 3.6 3.2	2 2 6
Nakaseke	Ngoma Wakyato Kikamuro Kapeeka Nakaseke Semuto	1 1 2 1 3 1	1 1 2 1 3 1	4 4 4 4 4 4	4 1 1	1 1 3 3 2	11 11 13 10 14 9	2.2 2.6 2.0 2.8	17 13 19 10

(1) Luwero District

Note: Scores determined from criteria(C1 - C5), interviews with Sub-county chiefs and other considerations



#### (2) Masaka District

County	Sub-county	Cl	C2	C3	C4	C5	Total	Mean	Order
Masaka Muni.	Katwe-Butego Kimanya-Kyabakuza Nyendo-Ssenyange	4 4 4	4 4 4	333	1 1 1	4 4 4	16 16 16	3.2	
Bukoto	Bukakata Mukungwe Buwunga Kyanamukaka Kaswa Kisekka Lwengo Malango	4 4 2 2 4 4 4 4	3 4 3 2 4 4 3 3	3 3 3 4 4 4 4	4 2 3 4 1 2 4 4	2 3 2 3 2 2 3	16 16 14 13 16 16 17 18	3.2 2.8 2.6 3.2 3.2 3.4	3 10 13 3 3 2
Bukomansimbi	Bigasa Kitanda Butenga Kibinge	2 2 2 3	2 2 2 4	3 3 3 3	4 1 1 1	2 2 2 3	13 10 10 14	2.0 2.0	19 19
Kalungu	Lwabenge Kyamulibwa Bukulula Kalungu	2 2 3 3	2 2 3 3	3 3 3 3	2 1 2 1	2 2 3 2	11 10 14 12	2.8	19 10
Lwemiyaga	Lwemiyaga Ntuusi	1 1	1	4 4	4 2	1	11 9		
Mawogola	Mijwala Mateete Lwebitakuli	2 2 1	1 1 1	4 4 4	4 1 3	1 ] 1	12 9 10	1.8	23

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(3) Mpigi District

County	Sub-county	Cl	C2	C3	C4	C5	Total	Mean	Orde
Entebbe Muni.		4	4	1	1	3	13	2.6	]
Busiro	Masulita	2	2	3	2	2	11	2.2 2.8	2
	Namayumba Kakiri	3	3	3		3	14 15	2.8 3.0	
	Wakiso	3	3	3	1	3	13	2.6	
	Nsangi	4	4	3	3	2	16		
	Ssisa	4	3	3		3	16		
	Kasanje	2	3	3		3			
	Katabi	4	4	3	2	3	16	3.2	
Butambala	Kalamba	1	3	4	3	3	14	2.8	
Buumbulu	Kibibi	1	2	4	3	2 3	12	2.4	
	Budde	4	4	3	. 3		- 17	3.4	
	Bulo	1	2	4	1	2	. 10	2.0	
	Sabaddu-Ngando	1	2	4	1	2	10	2.0	
Gomba	Mpenja	1	1	4	4	1	11	2.2	
	Kegonza	1	1	4		1	10	2.0	
	Kabulasoke	1	1	4		1	11	2.2	
	Maddu	1	1	4	4	1	11	2.2	2
Kyadondo	Busukuma	2	3	4		3	13	2.6	1
•	Gombe	4	4	3	1	3 3 3	15	3.0	
	Nanagabo	2	4	3	1	3	. 13	2.6	
	Kira	4	4	3	-		15	3.0 3.0	
	Nabweru Makindye	4	4 4	3	1	3 3	15 15	3.0	
	Wakhuye	4				J 	Ļ,	5.0	
Mawokota	Muduuma	4	3	4		3	15		
	Kiringente	4	4	4		3	16		
	Mpigi	4	4	3		4			
	Kammengo	4	4	3.		3	15 15	3.0 3.0	
	Buwama Kituntu	4	4	3		3	15		
	Nkozi	2	3	4		- 3	15	3.0	
	Nkozi	4	3	4	1	- 3	. 15	3.0	

#### (4) Mukono District

(4) Mukono E	District							[	
County	Sub-county	C1	C2	C3	C4	C5	Total	Mean	Order
Bbaale	Galiraya Bbaale Kayonza Kitimbwa	1 1 1	2 2 2 2	4 4 4 4	4 4	3 3 3 3	14 14	2.8 2.8	19 19
Buikwe	Wakisi Najjembe Nyenga Kawolo Buikwe Ngogwe	4 4 4 4 2 1	3 4 4 3 2	3 3 3 3 3 3 3	4	3 3 3 3 3 3 3	18 18 18 15	3.6 3.6 3.0	2 2 2 15
Buvuma	Busamuzi Bweema Nairambi Bugaya	1 1 1 1	2 2 2 2 2	4 4 4 4	1	2 2 2 2	10 10	2.0 2.0	26 26
Mukono	Kyampisi Goma Kauga Nakisunga Ntenjeru Kome	4 4 4 3 1 1	4 4 3 3 2	3 3 3 4 4 4	3 4 4	3 3 3 3 3 2	17 17 17 15	3.4 3.4 3.4 3.0	6 6 6 15
Nakifuma	Seta-Namuganga Kasawo Ntunda Nabbaale Nakifuma Nagojje	2 4 2 3 3 3 3	3 3 3 3 3 4	3 3 3 3 3 3 3	2 3 4 4	3 3 3 3 3 3 3 3	15 14 16 16	3.0 2.8 3.2 3.2	15 19 10 10
Ntenjeru	Busaana Kayunga Nazigo Kangulumira	2 4 4 4	2 4 3 3	3 4 3 3	3	3 4 3 3	19 16	3.8 3.2	1 10

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### Appendix 5

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### **Project Evaluation**