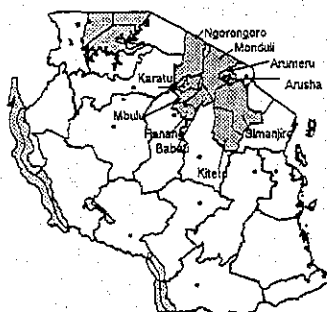


***Appendix J***  
***Socio-economic Profiles for Respective Regions***

REGIONAL IRRIGATION PROFILE				REGION NAME: ARUSHA				IRRIGATION														
SOCIO-ECONOMIC BACKGROUND				LAND USE				PRESENT CONDITION														
<b>Administrative Profile<sup>1</sup></b>				<b>Land Cover<sup>5</sup></b>				<b>Traditional Irrigation</b>														
District	Area (km <sup>2</sup> )	Administrative Units			Area (1,000)	ha	%	Arusha	Babati	Hanang	Karatu	Kiteto	Mbulu	Monduli	Ngongoro	Simanjiro	Total					
		Divisions	Wards	Villages																		
Arumeru	2,896	6	37	133	Forest	287.6	3.4															
Arusha	83	3	15	10	Woodland	1,845.4	21.9															
Babati	4,969	4	21	81	Bushland	2,478.6	29.5															
Hanang	3,436	5	21	53	Grassland	2,782.2	33.1															
Karatu	3,300	4	13	42	Cultivated Land	681.9	8.1															
Kiteto	16,305	7	14	44	Open Land	20.9	0.2															
Mbulu	4,352	3	16	56	Water Features	315.1	3.7															
Monduli	14,201	3	14	49	Others	3.8	0.0															
Ngongoro	14,036	3	14	31	Total	8,415.5	100.0															
Simanjiro	18,551	6	12	43	(Protected Area)	1,322																
<b>TOTAL</b>	<b>82,425</b>	<b>44</b>	<b>177</b>	<b>542</b>																		
<b>Population<sup>1,2,3</sup></b>				<b>AGRICULTURE</b>				<b>Improved Traditional Irrigation</b>														
Population (1988 Census)	1,348,170	persons				<b>Major Food Crops (1999/2000)<sup>4</sup></b>		<b>Nos. of Scheme</b>														
Population (2002 Projection)	2,155,000	persons *				Crop	Cultivated Area (1,000)	Production (1,000)	Unit Yield													
Population (2017 Projection)	3,399,000	persons *				Maize	139.9	42.0	0.3													
Population Density (2017 Proj.)	781.0	persons /km <sup>2</sup>				Sorghum	18.8	7.5	0.4													
Population Growth Rate	3.08	%				Millet	6.9	2.8	0.4													
Nos of Farm Household	242,349	Nos				Paddy	9.8	12.2	1.2													
<b>GDP<sup>1</sup></b>								Wheat	47.1	14.1	0.3											
RGDP (1994)	145,192	Tsh Mil.				S. Potato	22.0	50.7	2.3													
(US\$1.0= Tsh553.0)	263	US\$ Mil.				Pulses	62.5	37.5	0.6													
Per Capita RGDP (1994)	91,024	Tsh				Bananas	21.2	46.7	2.2													
	163	US\$				Cassava	8.5	15.4	1.8													
Contribution to NGDP (1980-1994)	7.90	%				Total	336.7															
	2	Ranking				<b>Number of Livestock (1999)<sup>6</sup></b>		<b>Nos. of Scheme</b>														
	2	Ranking				Total Cattle	1,856	heads	14.1													
	2	Ranking				Total Goats	2,719	heads	24.7													
	2	Ranking				Total Sheep	1,154	heads	32.5													
<b>Food Supply Self Sufficient Ratios (SSR) (2001/02)<sup>5</sup></b>								<b>Estimated Rice Demand-Production Balance in 2017</b>		<b>On-going</b>												
<b>Cereals</b>								Demand	78,900	ton												
Production	260,940	ton				Production	21,700	ton														
Requirement	359,822	ton				Balance	-57,200	ton														
SSR	72.5	%				<b>A Group</b>																
<b>Non-cereals</b>								<b>Nos. of Scheme</b>														
Production	158,603	ton				<b>Potential Area (ha)</b>																
Requirement	218,465	ton				<b>Nos. of Scheme</b>																
SSR	72.6	%				<b>Potential Area (ha)</b>																
<b>Total Food</b>								<b>Nos. of Scheme</b>														
Production	419,543	ton				<b>Potential Area (ha)</b>																
Requirement	578,287	ton				<b>Nos. of Scheme</b>																
SSR	72.5	%				<b>Potential Area (ha)</b>																
<b>Poverty Index<sup>6</sup></b>								<b>Excluded</b>														
Food Poverty (Total)	0.2506	%	6	Ranking	<b>Nos. of Scheme</b>																	
Food Poverty (Urban)	0.0934	%	10	Ranking	<b>Potential Area (ha)</b>																	
Food Poverty (Rural)	0.2811	%	5	Ranking	<b>Nos. of Scheme</b>																	
BHN Poverty (Total)	0.3984	%	9	Ranking	<b>Potential Area (ha)</b>																	
BHN Poverty (Urban)	0.1846	%	14	Ranking	<b>Nos. of Scheme</b>																	
BHN Poverty (Rural)	0.4280	%	8	Ranking	<b>Potential Area (ha)</b>																	
<b>Road Density<sup>1</sup></b>								<b>Total</b>														
	106	km/km <sup>2</sup>				<b>Nos. of Scheme</b>																
						<b>Potential Area (ha)</b>																



Data Source: 1: Regional Socio-Economic Profile, Dec. 1997

2: The Tanzanian Population and Development Website, URL: <http://www.tanzania.go.tz/population/>

3: District Integrated Agricultural Survey 1998/99

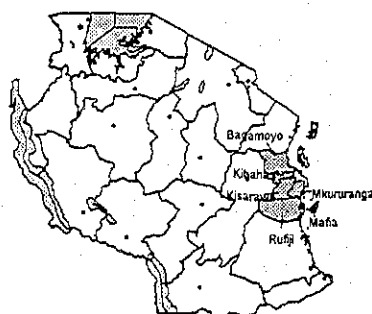
\*\* Population data are rounded by JICA Study Team

4: A Statistical Analysis of the 2000/01 Final Food Crop Production Forecast for Food Security, Food Security Department

5: National Reconnaissance Level Land use and Natural Resources Mapping Project, Final Report 1997


6: Basic Data Agricultural and Livestock Sector 1993/94-1999/2000

REGIONAL IRRIGATION PROFILE					REGION NAME: COAST															
<b>SOCIO-ECONOMIC BACKGROUND</b>					<b>LAND USE</b>					<b>IRRIGATION</b>										
<b>Administrative Profile<sup>1</sup></b>					<b>Land Cover<sup>5</sup></b>					<b>PRESENT CONDITION</b>										
District	Area (km <sup>2</sup> )	Administrative Units			Area (1,000)															
		Divisions	Wards	Villages		ha		%												
Bagamoyo	9,842	6	16	78	123.8	ha	3.9	%	Woodland	1,397.4	ha	43.9	%	<b>Traditional Irrigation</b>						
Kibaha	1,812	3	8	39	531.9	ha	16.7	%	Bushland	531.9	ha	16.7	%	<b>Modern Irrigation</b>						
Kisarawe	4,464	4	11	52	657.0	ha	20.6	%	Grassland	657.0	ha	20.6	%	<b>Improved Traditional Irrigation</b>						
Mafia	518	2	7	20	401.9	ha	12.6	%	Cultivated Land	401.9	ha	12.6	%	<b>On-going</b>						
Mkururanga	2,432	4	10	97	21.4	ha	0.7	%	Open Land	21.4	ha	0.7	%	<b>Water harvesting</b>						
Rufiji	13,339	6	19	91	49.9	ha	1.6	%	Water Features	49.9	ha	1.6	%	<b>Excluded</b>						
<b>TOTAL</b>	<b>32,407</b>	<b>25</b>	<b>71</b>	<b>377</b>	2.6	ha	0.1	%	Others	2.6	ha	0.1	%	<b>Total</b>						
					<b>3,185.9</b>	<b>ha</b>	<b>100.0</b>	<b>%</b>	<b>Total</b>	<b>3,185.9</b>	<b>ha</b>	<b>100.0</b>	<b>%</b>							
					(Protected Area)	511	ha													
<b>Population<sup>1,2,3</sup></b>					<b>AGRICULTURE</b>															
Population (1988 Census)	638,015	persons			<b>Major Food Crops (1999/2000)<sup>4</sup> (Including Dar es Salaam)</b>															
Population (2002 Projection)	881,000	persons			<b>Crop</b>															
Population (2017 Projection)	1,390,000	persons			<b>Cultivated Area (1,000)</b>															
Population Density (2017 Proj.)	42.9	persons /km <sup>2</sup>			<b>Production (1,000)</b>															
Population Growth Rate	3.08	%			<b>Unit Yield</b>															
Nos of Farm Household	151,724	Nos			<b>Maize</b>															
					<b>Wheat</b>															
GDP <sup>1</sup>					<b>Sorghum</b>															
RGDP (1994)	17,033	Tsh Mil.			<b>Millet</b>															
(US\$1.0=Tsh553.0)	31	US\$ Mil.			<b>Paddy</b>															
Per Capita RGDP (1994)	22,624	Tsh			<b>Wheat</b>															
	41	US\$			<b>S. Potato</b>															
Contribution to NGDP (1980-1994)	1.00	%			<b>Pulses</b>															
	20	Ranking			<b>Bananas</b>															
	20	Ranking			<b>Cassava</b>															
					<b>Total</b>															
					<b>Number of Livestock (1998)<sup>6</sup></b>															
					<b>Nos (1,000)</b>															
					<b>Total Cattle</b>															
					<b>Total Goats</b>															
					<b>Total Sheep</b>															
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					<b>Balance</b>															
					<b>Food Supply Self Sufficient Ratios (SSR) (2001/02)<sup>3</sup></b>															
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					<b>Road Density<sup>1</sup></b>															
					<b>11.5</b>															
					<b>km/km<sup>2</sup></b>															



Data Source: 1: Regional Socio-Economic Profile, Dec. 1997  
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REGIONAL IRRIGATION PROFILE			REGION NAME: DAR ES SALAAM																																																																																																																																																																																																																																																																																																																																																																																																				
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(US\$1.0=Tsh553.0)	-	US\$ Mil.	Per Capita RGDP (1994)	197,197	Tsh		357	US\$		1	Ranking	Contribution to NGDP (1980-1994)	20.33	%		1	Ranking	Cereals	Production	Requirement	SSR		104,431	553,668	18.9	Non-cereals	269,114	356,226	75.5	Total Food	373,545	909,894	41.1	Food Poverty (Total)	0.0750	%	19	Ranking	Food Poverty (Urban)	0.0750	%	15	Ranking	Food Poverty (Rural)	-	%	-	Ranking	BHN Poverty (Total)	0.1736	%	20	Ranking	BHN Poverty (Urban)	0.1736	%	20	Ranking	BHN Poverty (Rural)	-	%	-	Ranking		1.475	km/km <sup>2</sup>	<b>AGRICULTURE</b> <b>Major Food Crops (1999/2000)<sup>4</sup> (Including Coast)</b> <table border="1"> <thead> <tr> <th>Crop</th> <th>Cultivated Area (1,000 ha)</th> <th>Production (1,000 ton)</th> <th>Unit Yield</th> </tr> </thead> <tbody> <tr><td>Maize</td><td>55.3</td><td>44.2</td><td>0.8 ton/ha</td></tr> <tr><td>Sorghum</td><td>28.2</td><td>19.7</td><td>0.7 ton/ha</td></tr> <tr><td>Millet</td><td>76.8</td><td>53.7</td><td>0.7 ton/ha</td></tr> <tr><td>Paddy</td><td>39.1</td><td>60.2</td><td>1.5 ton/ha</td></tr> <tr><td>Wheat</td><td>-</td><td>-</td><td>-</td></tr> <tr><td>S. Potato</td><td>9.4</td><td>20.7</td><td>2.2 ton/ha</td></tr> <tr><td>Pulses</td><td>57.5</td><td>23.0</td><td>0.4 ton/ha</td></tr> <tr><td>Bananas</td><td>12.5</td><td>18.7</td><td>1.5 ton/ha</td></tr> <tr><td>Cassava</td><td>107.0</td><td>256.7</td><td>2.4 ton/ha</td></tr> <tr><td>Total</td><td>385.8</td><td>-</td><td>-</td></tr> </tbody> </table> <b>Number of Livestock (1998)<sup>4</sup></b> <table border="1"> <thead> <tr> <th></th> <th>Nos (1,000)</th> <th>%</th> </tr> </thead> <tbody> <tr><td>Total Cattle</td><td>17</td><td>0.1</td></tr> <tr><td>Total Goats</td><td>11</td><td>0.1</td></tr> <tr><td>Total Sheep</td><td>1</td><td>0.0</td></tr> </tbody> </table> <b>Estimated Rice Demand-Production Balance in 2017</b> <table border="1"> <tbody> <tr><td>Demand</td><td>86,900</td><td>ton</td></tr> <tr><td>Production</td><td>0</td><td>ton</td></tr> <tr><td>Balance</td><td>-86,900</td><td>ton</td></tr> </tbody> </table> 			Crop	Cultivated Area (1,000 ha)	Production (1,000 ton)	Unit Yield	Maize	55.3	44.2	0.8 ton/ha	Sorghum	28.2	19.7	0.7 ton/ha	Millet	76.8	53.7	0.7 ton/ha	Paddy	39.1	60.2	1.5 ton/ha	Wheat	-	-	-	S. Potato	9.4	20.7	2.2 ton/ha	Pulses	57.5	23.0	0.4 ton/ha	Bananas	12.5	18.7	1.5 ton/ha	Cassava	107.0	256.7	2.4 ton/ha	Total	385.8	-	-		Nos (1,000)	%	Total Cattle	17	0.1	Total Goats	11	0.1	Total Sheep	1	0.0	Demand	86,900	ton	Production	0	ton	Balance	-86,900	ton	<b>IRRIGATION</b> <b>PRESENT CONDITION</b> <table border="1"> <thead> <tr> <th></th> <th>Ilaala</th> <th>Kinondeni</th> <th>Temeke</th> <th>Total</th> </tr> </thead> <tbody> <tr><td><b>Traditional Irrigation</b></td><td></td><td></td><td></td><td></td></tr> <tr><td>Nos. of Scheme</td><td>-</td><td>1</td><td>1</td><td>2</td></tr> <tr><td>Existing Area (ha)</td><td>-</td><td>0</td><td>0</td><td>0</td></tr> <tr><td>Potential Area (ha)</td><td>-</td><td>130</td><td>12</td><td>142</td></tr> <tr><td><b>Water harvesting</b></td><td></td><td></td><td></td><td></td></tr> <tr><td>Nos. of Scheme</td><td>-</td><td>2</td><td>-</td><td>2</td></tr> <tr><td>Existing Area (ha)</td><td>-</td><td>4</td><td>-</td><td>4</td></tr> <tr><td>Potential Area (ha)</td><td>-</td><td>190</td><td>-</td><td>190</td></tr> <tr><td><b>Modern Irrigation</b></td><td></td><td></td><td></td><td></td></tr> <tr><td>Nos. of Scheme</td><td>4</td><td>1</td><td>2</td><td>7</td></tr> <tr><td>Existing Area (ha)</td><td>0</td><td>0</td><td>0</td><td>0</td></tr> <tr><td>Potential Area (ha)</td><td>3,400</td><td>1,760</td><td>25</td><td>5,185</td></tr> <tr><td><b>Improved Traditional Irrigation</b></td><td></td><td></td><td></td><td></td></tr> <tr><td>Nos. of Scheme</td><td>-</td><td>-</td><td>1</td><td>1</td></tr> <tr><td>Existing Area (ha)</td><td>-</td><td>-</td><td>0</td><td>0</td></tr> <tr><td>Potential Area (ha)</td><td>-</td><td>-</td><td>8</td><td>8</td></tr> <tr><td><b>Total</b></td><td></td><td></td><td></td><td></td></tr> <tr><td>Nos. of Scheme</td><td>4</td><td>4</td><td>4</td><td>12</td></tr> <tr><td>Existing Area (ha)</td><td>0</td><td>4</td><td>0</td><td>4</td></tr> <tr><td>Potential Area (ha)</td><td>3,400</td><td>2,080</td><td>45</td><td>5,525</td></tr> </tbody> </table> <b>FUTURE PLAN</b> <table border="1"> <thead> <tr> <th></th> <th>Ilaala</th> <th>Kinondeni</th> <th>Temeke</th> <th>Total</th> </tr> </thead> <tbody> <tr><td><b>On-going</b></td><td></td><td></td><td></td><td></td></tr> <tr><td>Nos. of Scheme</td><td>-</td><td>-</td><td>-</td><td>0</td></tr> <tr><td>Potential Area (ha)</td><td>-</td><td>-</td><td>-</td><td>0</td></tr> <tr><td><b>A Group</b></td><td></td><td></td><td></td><td></td></tr> <tr><td>Nos. of Scheme</td><td>-</td><td>-</td><td>-</td><td>0</td></tr> <tr><td>Potential Area (ha)</td><td>-</td><td>-</td><td>-</td><td>0</td></tr> <tr><td><b>B Group</b></td><td></td><td></td><td></td><td></td></tr> <tr><td>Nos. of Scheme</td><td>-</td><td>-</td><td>-</td><td>0</td></tr> <tr><td>Potential Area (ha)</td><td>-</td><td>-</td><td>-</td><td>0</td></tr> <tr><td><b>C Group</b></td><td></td><td></td><td></td><td></td></tr> <tr><td>Nos. of Scheme</td><td>4</td><td>2</td><td>1</td><td>7</td></tr> <tr><td>Potential Area (ha)</td><td>3,400</td><td>190</td><td>8</td><td>3,598</td></tr> <tr><td><b>D Group</b></td><td></td><td></td><td></td><td></td></tr> <tr><td>Nos. of Scheme</td><td>-</td><td>2</td><td>3</td><td>5</td></tr> <tr><td>Potential Area (ha)</td><td>-</td><td>1,890</td><td>37</td><td>1,927</td></tr> <tr><td><b>E Group</b></td><td></td><td></td><td></td><td></td></tr> <tr><td>Nos. of Scheme</td><td>-</td><td>-</td><td>-</td><td>0</td></tr> <tr><td>Potential Area (ha)</td><td>-</td><td>-</td><td>-</td><td>0</td></tr> <tr><td><b>Excluded</b></td><td></td><td></td><td></td><td></td></tr> <tr><td>Nos. of Scheme</td><td>-</td><td>-</td><td>-</td><td>0</td></tr> <tr><td>Potential Area (ha)</td><td>-</td><td>-</td><td>-</td><td>0</td></tr> <tr><td><b>Total</b></td><td></td><td></td><td></td><td></td></tr> <tr><td>Nos. of Scheme</td><td>4</td><td>4</td><td>4</td><td>12</td></tr> <tr><td>Potential Area (ha)</td><td>3,400</td><td>2,080</td><td>45</td><td>5,525</td></tr> </tbody> </table>				Ilaala	Kinondeni	Temeke	Total	<b>Traditional Irrigation</b>					Nos. of Scheme	-	1	1	2	Existing Area (ha)	-	0	0	0	Potential Area (ha)	-	130	12	142	<b>Water harvesting</b>					Nos. of Scheme	-	2	-	2	Existing Area (ha)	-	4	-	4	Potential Area (ha)	-	190	-	190	<b>Modern Irrigation</b>					Nos. of Scheme	4	1	2	7	Existing Area (ha)	0	0	0	0	Potential Area (ha)	3,400	1,760	25	5,185	<b>Improved Traditional Irrigation</b>					Nos. of Scheme	-	-	1	1	Existing Area (ha)	-	-	0	0	Potential Area (ha)	-	-	8	8	<b>Total</b>					Nos. of Scheme	4	4	4	12	Existing Area (ha)	0	4	0	4	Potential Area (ha)	3,400	2,080	45	5,525		Ilaala	Kinondeni	Temeke	Total	<b>On-going</b>					Nos. of Scheme	-	-	-	0	Potential Area (ha)	-	-	-	0	<b>A Group</b>					Nos. of Scheme	-	-	-	0	Potential Area (ha)	-	-	-	0	<b>B Group</b>					Nos. of Scheme	-	-	-	0	Potential Area (ha)	-	-	-	0	<b>C Group</b>					Nos. of Scheme	4	2	1	7	Potential Area (ha)	3,400	190	8	3,598	<b>D Group</b>					Nos. of Scheme	-	2	3	5	Potential Area (ha)	-	1,890	37	1,927	<b>E Group</b>					Nos. of Scheme	-	-	-	0	Potential Area (ha)	-	-	-	0	<b>Excluded</b>					Nos. of Scheme	-	-	-	0	Potential Area (ha)	-	-	-	0	<b>Total</b>					Nos. of Scheme	4	4	4	12	Potential Area (ha)	3,400	2,080	45	5,525
Population (1988 Census)	1,357,581	persons																																																																																																																																																																																																																																																																																																																																																																																																					
Population (2002 Projection)	2,374,000	persons *																																																																																																																																																																																																																																																																																																																																																																																																					
Population (2017 Projection)	3,744,000	persons *																																																																																																																																																																																																																																																																																																																																																																																																					
Population Density (2017 Proj.)	2,687.7	persons /km <sup>2</sup>																																																																																																																																																																																																																																																																																																																																																																																																					
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Nos of Farm Household	25,216	Nos																																																																																																																																																																																																																																																																																																																																																																																																					
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Maize	55.3	44.2	0.8 ton/ha																																																																																																																																																																																																																																																																																																																																																																																																				
Sorghum	28.2	19.7	0.7 ton/ha																																																																																																																																																																																																																																																																																																																																																																																																				
Millet	76.8	53.7	0.7 ton/ha																																																																																																																																																																																																																																																																																																																																																																																																				
Paddy	39.1	60.2	1.5 ton/ha																																																																																																																																																																																																																																																																																																																																																																																																				
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S. Potato	9.4	20.7	2.2 ton/ha																																																																																																																																																																																																																																																																																																																																																																																																				
Pulses	57.5	23.0	0.4 ton/ha																																																																																																																																																																																																																																																																																																																																																																																																				
Bananas	12.5	18.7	1.5 ton/ha																																																																																																																																																																																																																																																																																																																																																																																																				
Cassava	107.0	256.7	2.4 ton/ha																																																																																																																																																																																																																																																																																																																																																																																																				
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Data Source: 1: Regional Socio-Economic Profile, Dec. 1997

2: The Tanzanian Population and Development Website, URL: <http://www.tanzania.go.tz/population/>

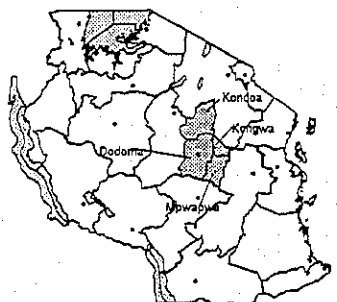
3: District Integrated Agricultural Survey 1998/99

\*: Population data are rounded by JICA Study Team

4: A Statistical Analysis of the 2000/01 Final Food Crop Production Forecast for Food Security, Food Security Department

5: National Reconnaissance Level Land use and Natural Resources Mapping Project, Final Report 1997

6: Basic Data Agricultural and Livestock Sector 1993/94-1999/2000

REGIONAL IRRIGATION PROFILE			REGION NAME: DODOMA		IRRIGATION																																																																																																																																																																																																																															
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Urban	2,572	4	30	38	Kondea	13,209	8	32	158	Mpwapwa	11,526	3	15	73	Kongwa		3	11	60	<b>TOTAL</b>	<b>41,311</b>	<b>26</b>	<b>136</b>	<b>453</b>	<table border="1"> <thead> <tr> <th>Land Cover<sup>2</sup></th> <th>Area (1,000 ha)</th> <th>%</th> </tr> </thead> <tbody> <tr> <td>Forest</td> <td>20.0</td> <td>0.5</td> </tr> <tr> <td>Woodland</td> <td>1,231.1</td> <td>29.2</td> </tr> <tr> <td>Bushland</td> <td>1,769.5</td> <td>42.0</td> </tr> <tr> <td>Grassland</td> <td>911.9</td> <td>21.6</td> </tr> <tr> <td>Cultivated Land</td> <td>234.3</td> <td>5.6</td> </tr> <tr> <td>Open Land</td> <td>3.3</td> <td>0.1</td> </tr> <tr> <td>Water Features</td> <td>41.1</td> <td>1.0</td> </tr> <tr> <td>Others</td> <td>3.8</td> <td>0.1</td> </tr> <tr> <td><b>Total</b></td> <td><b>4,215.0</b></td> <td><b>100.0</b></td> </tr> <tr> <td>(Protected Area)</td> <td>350</td> <td>ha</td> </tr> </tbody> </table>		Land Cover <sup>2</sup>	Area (1,000 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(ha)	5,470	100	11,890	14,894	7,145	39,499	<b>Modern Irrigation</b>							Nos. of Scheme	-	1	-	-	-	1	Existing Area (ha)	-	200	-	-	-	200	Potential Area (ha)	-	300	-	-	-	300	<b>Improved Traditional Irrigation</b>							Nos. of Scheme	-	-	3	-	1	4	Existing Area (ha)	-	-	192	-	1,045	1,237	Potential Area (ha)	-	-	740	-	0	740	<b>Total</b>							Nos. of Scheme	7	4	21	11	8	51	Existing Area (ha)	1,556	250	257	244	1,301	3,608	Potential Area (ha)	5,470	2,500	12,890	15,234	7,595	43,689
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Per Capita RGDP (1994)	39,604	Tsh		72	US\$	Contribution to NGDP (1980-1994)	17	Ranking		3.07	%		16	Ranking		Production	Requirement	SSR	<b>Cereals</b>	199,688	265,459	75.2	<b>Non-cereals</b>	99,922	163,159	61.2	<b>Total Food</b>	299,610	428,618	69.9	Food Poverty (Total)	0.1306	%	13	Ranking	Food Poverty (Urban)	0.0735	%	16	Ranking	Food Poverty (Rural)	0.1395	%	13	Ranking	BHN Poverty (Total)	0.3427	%	12	Ranking	BHN Poverty (Urban)	0.2155	%	11	Ranking	BHN Poverty (Rural)	0.3626	%	12	Ranking		103	km/km <sup>2</sup>	<b>AGRICULTURE</b> <b>Major Food Crops (1999/2000)<sup>6</sup></b> <table border="1"> <thead> <tr> <th>Crop</th> <th>Cultivated Area (1,000 ha)</th> <th>Production (1,000 ton)</th> <th>Unit Yield</th> </tr> </thead> <tbody> <tr> <td>Maize</td> <td>81.6</td> <td>40.8</td> <td>0.5 ton/ha</td> </tr> <tr> <td>Sorghum</td> <td>96.8</td> <td>77.4</td> <td>0.8 ton/ha</td> </tr> <tr> <td>Millet</td> <td>76.8</td> <td>53.7</td> <td>0.7 ton/ha</td> </tr> <tr> <td>Paddy</td> <td>1.5</td> <td>0.5</td> <td>0.3 ton/ha</td> </tr> <tr> <td>Wheat</td> <td>-</td> <td>-</td> <td>- ton/ha</td> </tr> <tr> <td>S. 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Nos of Farm Household	305,466	Nos																																																																																																																																																																																																																																		
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Data Source: 1: Regional Socio-Economic Profile, Dec. 1997  
2: The Tanzanian Population and Development Website, URL: <http://www.tanzania.go.tz/population/>  
3: District Integrated Agricultural Survey 1998/99  
4: Population data are rounded by JICA Study Team

5: A Statistical Analysis of the 2000/01 Final Food Crop Production Forecast for Food Security, Food Security Department  
6: National Reconnaissance Level Land use and Natural Resources Mapping Project, Final Report 1997  
6: Basic Data Agricultural and Livestock Sector 1993/94-1999/2000

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(1,000)				Forest	513.2	ha	8.7	%	Woodland	1,550.8	ha	26.2	%	Bushland	1,664.3	ha	28.1	%	Grassland	1,583.5	ha	26.7	%	Cultivated Land	343.6	ha	5.8	%	Open Land	0.7	ha	0.0	%	Water Features	268.8	ha	4.5	%	Others	2.5	ha	0.0	%	Total	5,927.4	ha	100.0	%	(Protected Area	646	ha)			<table border="1"> <tr> <th rowspan="2"></th> <th rowspan="2">Iringa</th> <th rowspan="2">Ludewa</th> <th rowspan="2">Makete</th> <th rowspan="2">Mufindi</th> <th rowspan="2">Njombe</th> <th rowspan="2">Total</th> </tr> <tr> <th colspan="6">PRESENT CONDITION</th> </tr> <tr> <td colspan="7"><b>Traditional Irrigation</b></td> </tr> <tr> <td>Nos. of Scheme</td> <td>53</td> <td>4</td> <td>-</td> <td>10</td> <td>8</td> <td>75</td> </tr> <tr> <td>Existing Area (ha)</td> <td>2,785</td> <td>435</td> <td>-</td> <td>32</td> <td>140</td> <td>3,392</td> </tr> <tr> <td>Potential Area (ha)</td> <td>9,527</td> <td>2,024</td> <td>-</td> <td>3,940</td> <td>490</td> <td>15,981</td> </tr> <tr> <td colspan="7"><b>Water harvesting</b></td> 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<td>Potential Area (ha)</td> <td>4,920</td> <td>0</td> <td>-</td> <td>120</td> <td>780</td> <td>5,820</td> </tr> <tr> <td>Total</td> <td>61</td> <td>6</td> <td>0</td> <td>11</td> <td>16</td> <td>94</td> </tr> <tr> <td>Existing Area (ha)</td> <td>4,116</td> <td>480</td> <td>0</td> <td>62</td> <td>881</td> <td>5,538</td> </tr> <tr> <td>Potential Area (ha)</td> <td>14,631</td> <td>2,174</td> <td>0</td> <td>4,060</td> <td>2,470</td> <td>23,335</td> </tr> </table>							Iringa	Ludewa	Makete	Mufindi	Njombe	Total	PRESENT CONDITION						<b>Traditional Irrigation</b>							Nos. of Scheme	53	4	-	10	8	75	Existing Area (ha)	2,785	435	-	32	140	3,392	Potential Area (ha)	9,527	2,024	-	3,940	490	15,981	<b>Water harvesting</b>							Nos. of Scheme	-	-	-	-	-	0	Existing Area (ha)	-	-	-	-	-	0	Potential Area (ha)	-	-	-	-	-	0	<b>Modern Irrigation</b>							Nos. of Scheme	1	1	-	-	1	3	Existing Area (ha)	125	5	-	-	690	820	Potential Area (ha)	184	150	-	-	1,200	1,534	<b>Improved Traditional Irrigation</b>							Nos. of Scheme	7	1	-	1	7	16	Existing Area (ha)	1,206	40	-	30	51	1,327	Potential Area (ha)	4,920	0	-	120	780	5,820	Total	61	6	0	11	16	94	Existing Area (ha)	4,116	480	0	62	881	5,538	Potential Area (ha)	14,631	2,174	0	4,060	2,470	23,335																																																																																																												
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(US\$1.0=Tsh533.0)	166	US\$ Mil.			Per Capita RGGDP (1994)	64,502	Tsh				117	US\$				4	Ranking			Contribution to NGDP (1980-1994)	5.53	%				6	Ranking			<table border="1"> <tr> <th colspan="5">Major Food Crops (1999/2000)<sup>5</sup></th> </tr> <tr> <th>Crop</th> <th>Cultivated Area (1,000)</th> <th>Production (1,000)</th> <th>Unit Yield</th> <th></th> </tr> <tr> <td>Maize</td> <td>203.8</td> <td>285.3</td> <td>ton</td> <td>1.4 ton/ha</td> </tr> <tr> <td>Sorghum</td> <td>48.6</td> <td>38.9</td> <td>ton</td> <td>0.8 ton/ha</td> </tr> <tr> <td>Millet</td> <td>2.6</td> <td>1.8</td> <td>ton</td> <td>0.7 ton/ha</td> </tr> <tr> <td>Paddy</td> <td>8.2</td> <td>12.6</td> <td>ton</td> <td>1.5 ton/ha</td> </tr> <tr> <td>Wheat</td> <td>13.9</td> <td>12.5</td> <td>ton</td> <td>0.9 ton/ha</td> </tr> <tr> <td>S. Potato</td> <td>31.4</td> <td>72.2</td> <td>ton</td> <td>2.3 ton/ha</td> </tr> <tr> <td>Pulses</td> <td>59.5</td> <td>59.5</td> <td>ton</td> <td>1.0 ton/ha</td> </tr> <tr> <td>Bananas</td> <td>8.0</td> <td>13.6</td> <td>ton</td> <td>1.7 ton/ha</td> </tr> <tr> <td>Cassava</td> <td>6.2</td> <td>13.7</td> <td>ton</td> <td>2.2 ton/ha</td> </tr> <tr> <td>Total</td> <td>382.2</td> <td>ha</td> <td></td> <td></td> </tr> <tr> <td colspan="5"><b>Number of Livestock (1998)<sup>6</sup></b></td> </tr> <tr> <td></td> <td colspan="4">Nos (1,000)</td> </tr> <tr> <td>Total Cattle</td> <td>568</td> <td>heads</td> <td>4.3</td> <td>%</td> </tr> <tr> <td>Total Goats</td> <td>239</td> <td>heads</td> <td>2.2</td> <td>%</td> </tr> <tr> <td>Total Sheep</td> <td>92</td> <td>heads</td> <td>2.6</td> <td>%</td> </tr> <tr> <td colspan="5"><b>Estimated Rice Demand-Production Balance in 2017</b></td> </tr> <tr> <td>Demand</td> <td>64,500</td> <td>ton</td> <td></td> <td></td> </tr> <tr> <td>Production</td> <td>21,600</td> <td>ton</td> <td></td> <td></td> </tr> <tr> <td>Balance</td> <td>-42,900</td> <td>ton</td> <td></td> <td></td> </tr> </table>					Major Food Crops (1999/2000) <sup>5</sup>					Crop	Cultivated Area (1,000)	Production (1,000)	Unit Yield		Maize	203.8	285.3	ton	1.4 ton/ha	Sorghum	48.6	38.9	ton	0.8 ton/ha	Millet	2.6	1.8	ton	0.7 ton/ha	Paddy	8.2	12.6	ton	1.5 ton/ha	Wheat	13.9	12.5	ton	0.9 ton/ha	S. Potato	31.4	72.2	ton	2.3 ton/ha	Pulses	59.5	59.5	ton	1.0 ton/ha	Bananas	8.0	13.6	ton	1.7 ton/ha	Cassava	6.2	13.7	ton	2.2 ton/ha	Total	382.2	ha			<b>Number of Livestock (1998)<sup>6</sup></b>						Nos (1,000)				Total Cattle	568	heads	4.3	%	Total Goats	239	heads	2.2	%	Total Sheep	92	heads	2.6	%	<b>Estimated Rice Demand-Production Balance in 2017</b>					Demand	64,500	ton			Production	21,600	ton			Balance	-42,900	ton			<table border="1"> <tr> <th rowspan="2"></th> <th rowspan="2">Iringa</th> <th rowspan="2">Ludewa</th> <th rowspan="2">Makete</th> <th rowspan="2">Mufindi</th> <th rowspan="2">Njombe</th> <th rowspan="2">Total</th> </tr> <tr> <th colspan="6">FUTURE PLAN</th> </tr> <tr> <td colspan="7"><b>On-going</b></td> </tr> <tr> <td>Nos. of Scheme</td> <td>2</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>2</td> </tr> <tr> <td>Potential Area (ha)</td> <td>1,000</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>1,000</td> </tr> <tr> <td colspan="7"><b>A Group</b></td> </tr> <tr> <td>Nos. of Scheme</td> <td>1</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>1</td> </tr> <tr> <td>Potential Area (ha)</td> <td>120</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>120</td> </tr> <tr> <td colspan="7"><b>B Group</b></td> </tr> <tr> <td>Nos. of Scheme</td> <td>10</td> <td>-</td> <td>-</td> <td>1</td> <td>2</td> <td>13</td> </tr> <tr> <td>Potential Area (ha)</td> <td>5,890</td> <td>-</td> <td>-</td> <td>13</td> <td>180</td> <td>6,083</td> </tr> <tr> <td colspan="7"><b>C Group</b></td> </tr> <tr> <td>Nos. of Scheme</td> <td>35</td> <td>3</td> <td>-</td> <td>7</td> <td>5</td> <td>50</td> </tr> <tr> <td>Potential Area (ha)</td> <td>6,197</td> <td>2,004</td> <td>-</td> <td>731</td> <td>310</td> <td>9,242</td> </tr> <tr> <td colspan="7"><b>D Group</b></td> </tr> <tr> <td>Nos. of Scheme</td> <td>5</td> <td>-</td> <td>-</td> <td>1</td> <td>-</td> <td>6</td> </tr> <tr> <td>Potential Area (ha)</td> <td>770</td> <td>-</td> <td>-</td> <td>56</td> <td>-</td> <td>826</td> </tr> <tr> <td colspan="7"><b>E Group</b></td> </tr> <tr> <td>Nos. of Scheme</td> <td>3</td> <td>-</td> <td>-</td> <td>1</td> <td>-</td> <td>4</td> </tr> <tr> <td>Potential Area (ha)</td> <td>460</td> <td>-</td> <td>-</td> <td>3,248</td> <td>-</td> <td>3,708</td> </tr> <tr> <td colspan="7"><b>Excluded</b></td> </tr> <tr> <td>Nos. of Schemes</td> <td>5</td> <td>3</td> <td>-</td> <td>1</td> <td>9</td> <td>18</td> </tr> <tr> <td>Potential Area (ha)</td> <td>194</td> <td>370</td> <td>-</td> <td>10</td> <td>1,980</td> <td>2,554</td> </tr> <tr> <td>Total</td> <td>61</td> <td>6</td> <td>-</td> <td>11</td> <td>16</td> <td>94</td> </tr> <tr> <td>Potential Area (ha)</td> <td>14,631</td> <td>2,174</td> <td>-</td> <td>4,060</td> <td>2,470</td> <td>23,335</td> </tr> </table>							Iringa	Ludewa	Makete	Mufindi	Njombe	Total	FUTURE PLAN						<b>On-going</b>							Nos. of Scheme	2	-	-	-	-	2	Potential Area (ha)	1,000	-	-	-	-	1,000	<b>A Group</b>							Nos. of Scheme	1	-	-	-	-	1	Potential Area (ha)	120	-	-	-	-	120	<b>B Group</b>							Nos. of Scheme	10	-	-	1	2	13	Potential Area (ha)	5,890	-	-	13	180	6,083	<b>C Group</b>							Nos. of Scheme	35	3	-	7	5	50	Potential Area (ha)	6,197	2,004	-	731	310	9,242	<b>D Group</b>							Nos. of Scheme	5	-	-	1	-	6	Potential Area (ha)	770	-	-	56	-	826	<b>E Group</b>							Nos. of Scheme	3	-	-	1	-	4	Potential Area (ha)	460	-	-	3,248	-	3,708	<b>Excluded</b>							Nos. of Schemes	5	3	-	1	9	18	Potential Area (ha)	194	370	-	10	1,980	2,554	Total	61	6	-	11	16	94	Potential Area (ha)	14,631	2,174	-	4,060	2,470	23,335
Population (1988 Census)	1,208,914	persons																																																																																																																																																																																																																																																																																																																																																																										
Population (2002 Projection)	1,761,000	persons *																																																																																																																																																																																																																																																																																																																																																																										
Population (2017 Projection)	2,777,000	persons *																																																																																																																																																																																																																																																																																																																																																																										
Population Density (2017 Proj.)	47.1	persons /km <sup>2</sup>																																																																																																																																																																																																																																																																																																																																																																										
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Nos of Farm Household	295,465	Nos																																																																																																																																																																																																																																																																																																																																																																										
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Maize	203.8	285.3	ton	1.4 ton/ha																																																																																																																																																																																																																																																																																																																																																																								
Sorghum	48.6	38.9	ton	0.8 ton/ha																																																																																																																																																																																																																																																																																																																																																																								
Millet	2.6	1.8	ton	0.7 ton/ha																																																																																																																																																																																																																																																																																																																																																																								
Paddy	8.2	12.6	ton	1.5 ton/ha																																																																																																																																																																																																																																																																																																																																																																								
Wheat	13.9	12.5	ton	0.9 ton/ha																																																																																																																																																																																																																																																																																																																																																																								
S. Potato	31.4	72.2	ton	2.3 ton/ha																																																																																																																																																																																																																																																																																																																																																																								
Pulses	59.5	59.5	ton	1.0 ton/ha																																																																																																																																																																																																																																																																																																																																																																								
Bananas	8.0	13.6	ton	1.7 ton/ha																																																																																																																																																																																																																																																																																																																																																																								
Cassava	6.2	13.7	ton	2.2 ton/ha																																																																																																																																																																																																																																																																																																																																																																								
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Potential Area (ha)	5,890	-	-	13	180	6,083																																																																																																																																																																																																																																																																																																																																																																						
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Potential Area (ha)	6,197	2,004	-	731	310	9,242																																																																																																																																																																																																																																																																																																																																																																						
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Potential Area (ha)	770	-	-	56	-	826																																																																																																																																																																																																																																																																																																																																																																						
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Potential Area (ha)	460	-	-	3,248	-	3,708																																																																																																																																																																																																																																																																																																																																																																						
<b>Excluded</b>																																																																																																																																																																																																																																																																																																																																																																												
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Potential Area (ha)	194	370	-	10	1,980	2,554																																																																																																																																																																																																																																																																																																																																																																						
Total	61	6	-	11	16	94																																																																																																																																																																																																																																																																																																																																																																						
Potential Area (ha)	14,631	2,174	-	4,060	2,470	23,335																																																																																																																																																																																																																																																																																																																																																																						
<table border="1"> <tr> <th colspan="5">Food Supply Self Sufficient Ratios (SSR) (2001/02)<sup>3</sup></th> </tr> <tr> <th colspan="5">Cereals</th> </tr> <tr> <td>Production</td> <td>392,468</td> <td>ton</td> <td></td> <td></td> </tr> <tr> <td>Requirement</td> <td>286,268</td> <td>ton</td> <td></td> <td></td> </tr> <tr> <td>SSR</td> <td>137.1</td> <td>%</td> <td></td> <td></td> </tr> <tr> <th colspan="5">Non-cereals</th> </tr> <tr> <td>Production</td> <td>129,827</td> <td>ton</td> <td></td> <td></td> </tr> <tr> <td>Requirement</td> <td>164,463</td> <td>ton</td> <td></td> <td></td> </tr> <tr> <td>SSR</td> <td>78.9</td> <td>%</td> <td></td> <td></td> </tr> <tr> <th colspan="5">Total Food</th> </tr> <tr> <td>Production</td> <td>522,295</td> <td>ton</td> <td></td> <td></td> </tr> <tr> <td>Requirement</td> <td>450,731</td> <td>ton</td> <td></td> <td></td> </tr> <tr> <td>SSR</td> <td>115.9</td> <td>%</td> <td></td> <td></td> </tr> <tr> <td colspan="5"><b>Poverty Index<sup>4</sup></b></td> </tr> <tr> <td>Food Poverty (Total)</td> <td>0.1025</td> <td>%</td> <td>16</td> <td>Ranking</td> </tr> <tr> <td>Food Poverty (Urban)</td> <td>0.0687</td> <td>%</td> <td>17</td> <td>Ranking</td> </tr> <tr> <td>Food Poverty (Rural)</td> <td>0.1056</td> <td>%</td> <td>16</td> <td>Ranking</td> </tr> <tr> <td>BHN Poverty (Total)</td> <td>0.2886</td> <td>%</td> <td>17</td> <td>Ranking</td> </tr> <tr> <td>BHN Poverty (Urban)</td> <td>0.1561</td> <td>%</td> <td>18</td> <td>Ranking</td> </tr> <tr> <td>BHN Poverty (Rural)</td> <td>0.3006</td> <td>%</td> <td>17</td> <td>Ranking</td> </tr> <tr> <td>Road Density<sup>1</sup></td> <td>113</td> <td>km/km<sup>2</sup></td> <td></td> <td></td> </tr> </table>					Food Supply Self Sufficient Ratios (SSR) (2001/02) <sup>3</sup>					Cereals					Production	392,468	ton			Requirement	286,268	ton			SSR	137.1	%			Non-cereals					Production	129,827	ton			Requirement	164,463	ton			SSR	78.9	%			Total Food					Production	522,295	ton			Requirement	450,731	ton			SSR	115.9	%			<b>Poverty Index<sup>4</sup></b>					Food Poverty (Total)	0.1025	%	16	Ranking	Food Poverty (Urban)	0.0687	%	17	Ranking	Food Poverty (Rural)	0.1056	%	16	Ranking	BHN Poverty (Total)	0.2886	%	17	Ranking	BHN Poverty (Urban)	0.1561	%	18	Ranking	BHN Poverty (Rural)	0.3006	%	17	Ranking	Road Density <sup>1</sup>	113	km/km <sup>2</sup>																																																																																																																																																																																																																																																																	
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Production	392,468	ton																																																																																																																																																																																																																																																																																																																																																																										
Requirement	286,268	ton																																																																																																																																																																																																																																																																																																																																																																										
SSR	137.1	%																																																																																																																																																																																																																																																																																																																																																																										
Non-cereals																																																																																																																																																																																																																																																																																																																																																																												
Production	129,827	ton																																																																																																																																																																																																																																																																																																																																																																										
Requirement	164,463	ton																																																																																																																																																																																																																																																																																																																																																																										
SSR	78.9	%																																																																																																																																																																																																																																																																																																																																																																										
Total Food																																																																																																																																																																																																																																																																																																																																																																												
Production	522,295	ton																																																																																																																																																																																																																																																																																																																																																																										
Requirement	450,731	ton																																																																																																																																																																																																																																																																																																																																																																										
SSR	115.9	%																																																																																																																																																																																																																																																																																																																																																																										
<b>Poverty Index<sup>4</sup></b>																																																																																																																																																																																																																																																																																																																																																																												
Food Poverty (Total)	0.1025	%	16	Ranking																																																																																																																																																																																																																																																																																																																																																																								
Food Poverty (Urban)	0.0687	%	17	Ranking																																																																																																																																																																																																																																																																																																																																																																								
Food Poverty (Rural)	0.1056	%	16	Ranking																																																																																																																																																																																																																																																																																																																																																																								
BHN Poverty (Total)	0.2886	%	17	Ranking																																																																																																																																																																																																																																																																																																																																																																								
BHN Poverty (Urban)	0.1561	%	18	Ranking																																																																																																																																																																																																																																																																																																																																																																								
BHN Poverty (Rural)	0.3006	%	17	Ranking																																																																																																																																																																																																																																																																																																																																																																								
Road Density <sup>1</sup>	113	km/km <sup>2</sup>																																																																																																																																																																																																																																																																																																																																																																										

1: Regional Socio-Economic Profile, Dec. 1997

2: The Tanzanian Population and Development Website, URL: <http://www.tanzania.go.tz/population/>

3: District Integrated Agricultural Survey 1998/99

4: Population data are rounded by JICA Study Team

5: A Statistical Analysis of the 2000/01 Final Food Crop Production Forecast for Food Security, Food Security Department

6: National Reconnaissance Level Land use and Natural Resources Mapping Project, Final Report 1997

6: Basic Data Agricultural and Livestock Sector 1993/94-1999/2000

REGIONAL IRRIGATION PROFILE			REGION NAME: KAGERA			IRRIGATION																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
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(US\$1.0= Tsh553.0)	146	US\$ Mil.	Per Capita RGDP (1994)	50,105	Tsh		91	US\$		12	Ranking	Contribution to NGDP (1980-1994)	4.60	%		9	Ranking	<b>Food Supply Self Sufficient Ratios (SSR) (2001/02)<sup>3</sup></b>			<b>Cereals</b>			Production	122,545	ton	Requirement	287,791	ton	SSR	42.6	%	<b>Non-cereals</b>			Production	459,430	ton	Requirement	185,297	ton	SSR	247.9	%	<b>Total Food</b>			Production	581,975	ton	Requirement	473,088	ton	SSR	123.0	%	<b>Poverty Index<sup>4</sup></b>			Food Poverty (Total)	0.0545	%      20      Ranking	Food Poverty (Urban)	0.0539	%      19      Ranking	Food Poverty (Rural)	0.0544	%      19      Ranking	BHN Poverty (Total)	0.1889	%      19      Ranking	BHN Poverty (Urban)	0.1413	%      20      Ranking	BHN Poverty (Rural)	0.1919	%      19      Ranking	Road Density <sup>1</sup>	104	km/km <sup>2</sup>	<b>Land Cover<sup>5</sup> Area (1,000)</b> <table border="1"> <tbody> <tr> <td>Forest</td> <td>65.5</td> <td>ha</td> <td>1.7</td> <td>%</td> </tr> <tr> <td>Woodland</td> <td>609.7</td> <td>ha</td> <td>15.5</td> <td>%</td> </tr> <tr> <td>Bushland</td> <td>734.8</td> <td>ha</td> <td>18.7</td> <td>%</td> </tr> <tr> <td>Grassland</td> <td>490.1</td> <td>ha</td> <td>12.5</td> <td>%</td> </tr> <tr> <td>Cultivated Land</td> <td>864.8</td> <td>ha</td> <td>22.0</td> <td>%</td> </tr> <tr> <td>Open Land</td> <td>0.1</td> <td>ha</td> <td>0.0</td> <td>%</td> </tr> <tr> <td>Water Features</td> <td>1,138.3</td> <td>ha</td> <td>29.5</td> <td>%</td> </tr> <tr> <td>Others</td> <td>2.1</td> <td>ha</td> <td>0.1</td> <td>%</td> </tr> <tr> <td><b>Total</b></td> <td><b>3,925.4</b></td> <td><b>ha</b></td> <td><b>100.0</b></td> <td><b>%</b></td> </tr> <tr> <td>(Protected Area)</td> <td>887</td> <td>ha)</td> <td></td> <td></td> </tr> </tbody> </table>			Forest	65.5	ha	1.7	%	Woodland	609.7	ha	15.5	%	Bushland	734.8	ha	18.7	%	Grassland	490.1	ha	12.5	%	Cultivated Land	864.8	ha	22.0	%	Open Land	0.1	ha	0.0	%	Water Features	1,138.3	ha	29.5	%	Others	2.1	ha	0.1	%	<b>Total</b>	<b>3,925.4</b>	<b>ha</b>	<b>100.0</b>	<b>%</b>	(Protected Area)	887	ha)			<table border="1"> <thead> <tr> <th></th> <th>Bukoba</th> <th>Biharamulo</th> <th>Karagwe</th> <th>Muleba</th> <th>Ngara</th> <th>Total</th> </tr> </thead> <tbody> <tr> <td><b>Traditional Irrigation</b></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Nos. of Scheme</td> <td>4</td> <td>3</td> <td>3</td> <td>4</td> <td>4</td> <td>18</td> </tr> <tr> <td>Existing Area (ha)</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>15</td> <td>15</td> </tr> <tr> <td>Potential Area (ha)</td> <td>6,700</td> <td>425</td> <td>210</td> <td>600</td> <td>9,231</td> <td>17,166</td> </tr> <tr> <td><b>Water harvesting</b></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Nos. of Scheme</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>0</td> </tr> <tr> <td>Existing Area (ha)</td> <td>-</td> 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Scheme	-	-	-	-	3	3	Potential Area (ha)	-	-	-	-	231	231	<b>C Group</b>							Nos. of Scheme	3	2	2	3	-	10	Potential Area (ha)	2,900	325	170	500	-	3,895	<b>D Group</b>							Nos. of Scheme	-	1	1	1	-	3	Potential Area (ha)	-	100	40	100	-	240	<b>E Group</b>							Nos. of Scheme	1	-	-	-	1	2	Potential Area (ha)	3,800	-	-	-	9,000	12,800	<b>Excluded</b>							Nos. of Scheme	-	-	-	-	-	0	Potential Area (ha)	-	-	-	-	-	0	<b>Total</b>	<b>4</b>	<b>3</b>	<b>3</b>	<b>4</b>	<b>4</b>	<b>18</b>	Potential Area (ha)	6,700	425	210	600	9,231	17,166
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2: The Tanzanian Population and Development Website, URL: <http://www.tanzania.go.tz/population/>  
3: District Integrated Agricultural Survey 1998/99  
\*: Population data are rounded by JICA Study Team

4: A Statistical Analysis of the 2000/01 Final Food Crop Production Forecast for Food Security, Food Security Department  
5: National Reconnaissance Level Land use and Natural Resources Mapping Project, Final Report 1997  
6: Basic Data Agricultural and Livestock Sector 1993/94-1999/2000





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Crop	Cultivated Area (1,000)	Production (1,000)	Unit	Yield																																																																																																																																																																																																																	
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Sorghum	7.2	3.6	ton	0.5 ton/ha																																																																																																																																																																																																																	
Millet	4.8	1.0	ton	0.2 ton/ha																																																																																																																																																																																																																	
Paddy	9.2	21.4	ton	2.3 ton/ha																																																																																																																																																																																																																	
Wheat	9.0	4.5	ton	0.5 ton/ha																																																																																																																																																																																																																	
S. Potato	6.3	14.9	ton	2.3 ton/ha																																																																																																																																																																																																																	
Pulses	56.4	22.5	ton	0.4 ton/ha																																																																																																																																																																																																																	
Bananas	60.5	108.9	ton	1.8 ton/ha																																																																																																																																																																																																																	
Cassava	8.0	12.1	ton	1.5 ton/ha																																																																																																																																																																																																																	
<b>Total</b>	<b>250.4</b>	<b>ha</b>	<b>ton</b>	<b>1.5</b>																																																																																																																																																																																																																	
	Hai	Rombo	Mwanga	Same	Moshi	Total																																																																																																																																																																																																															
<b>Traditional Irrigation</b>																																																																																																																																																																																																																					
Nos. of Scheme	54	-	25	76	257	412																																																																																																																																																																																																															
Existing Area (ha)	6,205	-	4,075	9,493	11,366	31,139																																																																																																																																																																																																															
Potential Area (ha)	14,030	-	8,624	23,932	46,403	92,989																																																																																																																																																																																																															
<b>Water harvesting</b>																																																																																																																																																																																																																					
Nos. of Scheme	-	-	-	-	-	0																																																																																																																																																																																																															
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Potential Area (ha)	-	-	-	-	-	0																																																																																																																																																																																																															
<b>Modern Irrigation</b>																																																																																																																																																																																																																					
Nos. of Scheme	2	-	-	-	7	9																																																																																																																																																																																																															
Existing Area (ha)	283	-	-	-	9,535	9,818																																																																																																																																																																																																															
Potential Area (ha)	451	-	-	-	13,399	13,850																																																																																																																																																																																																															
<b>Improved Traditional Irrigation</b>																																																																																																																																																																																																																					
Nos. of Scheme	6	-	1	5	6	18																																																																																																																																																																																																															
Existing Area (ha)	1,566	-	410	1,875	870	4,721																																																																																																																																																																																																															
Potential Area (ha)	2,022	-	700	3,984	2,028	8,734																																																																																																																																																																																																															
<b>Total</b>																																																																																																																																																																																																																					
Nos. of Scheme	62	0	26	81	270	439																																																																																																																																																																																																															
Existing Area (ha)	8,054	0	4,485	11,368	21,771	45,678																																																																																																																																																																																																															
Potential Area (ha)	16,503	0	9,324	27,916	61,830	115,573																																																																																																																																																																																																															
<b>GDP<sup>1</sup></b> RGDP (1994) 72,898 Tsh Mil. (US\$1.0= Tsh553.0) 132 US\$ Mil. Per Capita RGDP (1994) 55,716 Tsh 101 US\$ 8 Ranking Contribution to NGDP (1980-1994) 3.67 % 10 Ranking				<b>Number of Livestock (1998)<sup>5</sup></b> Nos (1,000) Total Cattle 473 heads 3.6 % Total Goats 483 heads 4.4 % Total Sheep 221 heads 6.2 %																																																																																																																																																																																																																	
<b>Food Supply Self-Sufficient Ratios (SSR) (2001/02)<sup>2</sup></b> <table border="1"> <thead> <tr> <th>Cereals</th> <th>Production</th> <th>Requirement</th> <th>SSR</th> </tr> </thead> <tbody> <tr> <td></td> <td>191,107 ton</td> <td>213,284 ton</td> <td>89.6 %</td> </tr> <tr> <th>Non-cereals</th> <th>Production</th> <th>Requirement</th> <th>SSR</th> </tr> <tr> <td></td> <td>147,859 ton</td> <td>138,951 ton</td> <td>106.4 %</td> </tr> <tr> <th>Total Food</th> <th>Production</th> <th>Requirement</th> <th>SSR</th> </tr> <tr> <td></td> <td>338,966 ton</td> <td>352,235 ton</td> <td>96.2 %</td> </tr> </tbody> </table>				Cereals	Production	Requirement	SSR		191,107 ton	213,284 ton	89.6 %	Non-cereals	Production	Requirement	SSR		147,859 ton	138,951 ton	106.4 %	Total Food	Production	Requirement	SSR		338,966 ton	352,235 ton	96.2 %	<b>Estimated Rice Demand-Production Balance in 2017</b> Demand 76,700 ton Production 32,700 ton Balance -44,000 ton																																																																																																																																																																																									
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Data Source: 1: Regional Socio-Economic Profile, Dec. 1997

2: The Tanzanian Population and Development Website, URL: <http://www.sarzanza.go.tz/population/>

3: District Integrated Agricultural Survey 1998/99

\*: Population data are rounded by JICA Study Team

4: A Statistical Analysis of the 2000/01 Final Food Crop Production Forecast for Food Security, Food Security Department

5: National Reconnaissance Level Land use and Natural Resources Mapping Project, Final Report 1997

6: Basic Data Agricultural and Livestock Sector 1993/94-1999/2000

REGIONAL IRRIGATION PROFILE				REGION NAME: LINDI					
<b>SOCIO-ECONOMIC BACKGROUND</b>				<b>LAND USE</b>					
Administrative Profile <sup>1</sup>				Land Cover <sup>5</sup> Area (1,000)					
District	Area (km <sup>2</sup> )	Administrative Units		Forest	105.4	ha	1.6 %		
		Divisions	Wards	Woodland	3,848.7	ha	57.3 %		
			Villages	Bushland	1,245.7	ha	18.5 %		
Kilwa	13,920	6	21	Grassland	1,203.5	ha	17.9 %		
Lindi	7,846	11	41	Cultivated Land	272.1	ha	4.1 %		
Liwale	36,084	3	15	Open Land	17.3	ha	0.3 %		
Nachingwea	7,070	5	27	Water Features	22.9	ha	0.3 %		
Ruangewa	2,080	3	12	Others	1.7	ha	0.0 %		
TOTAL	67,000	28	116	Total	6,717.3	ha	100.0 %		
				(Protected Area)	2,352	ha			
<b>AGRICULTURE</b>				<b>IRRIGATION</b>					
Population <sup>1,2,3</sup>				PRESENT CONDITION					
Population (1988 Census)	646,345	persons		Kilwa Lindi Liwale Nachingwea Ruangewa Total					
Population (2002 Projection)	835,000	persons		Traditional Irrigation					
Population (2017 Projection)	1,396,000	persons		Nos. of Scheme					
Population Density (2017 Proj.)	20.8	persons /km <sup>2</sup>		Existing Area (ha)					
Population Growth Rate	3.08	%		Potential Area (ha)					
Nos of Farm Household	154,318	Nos		Water harvesting					
				Nos. of Scheme					
				Existing Area (ha)					
				Potential Area (ha)					
				Modern Irrigation					
				Nos. of Scheme					
				Existing Area (ha)					
				Potential Area (ha)					
				Improved Traditional Irrigation					
				Nos. of Scheme					
				Existing Area (ha)					
				Potential Area (ha)					
				Total					
				Nos. of Scheme					
				Existing Area (ha)					
				Potential Area (ha)					
				Future Plan					
				On-going					
				Nos. of Scheme					
				Potential Area (ha)					
				A Group					
				Nos. of Scheme					
				Potential Area (ha)					
				B Group					
				Nos. of Scheme					
				Potential Area (ha)					
				C Group					
				Nos. of Scheme					
				Potential Area (ha)					
				D Group					
				Nos. of Scheme					
				Potential Area (ha)					
				E Group					
				Nos. of Scheme					
				Potential Area (ha)					
				Excluded					
				Nos. of Scheme					
				Potential Area (ha)					
				Total					
				Nos. of Scheme					
				Potential Area (ha)					

Data Source: 1: Regional Socio-Economic Profile, Dec. 1997

2: The Tanzanian Population and Development Website, URL: <http://www.tanzania.go.tz/population/>

3: District Integrated Agricultural Survey 1998/99

4: Population data are rounded by JICA Study Team

#### AGRICULTURE

##### Major Food Crops (1999/2000)<sup>6</sup>

Crop	Cultivated Area (1,000)	Production (1,000)	Unit Yield
Maize	69.2	76.1	1.1 ton/ha
Sorghum	34.4	34.4	1.0 ton/ha
Millet	-	-	- ton/ha
Paddy	9.9	15.2	1.5 ton/ha
Wheat	-	-	- ton/ha
S. Potato	-	-	- ton/ha
Pulses	10.1	7.1	0.7 ton/ha
Bananas	-	-	- ton/ha
Cassava	38.4	116.8	2.0 ton/ha
Total	182.0		

##### Number of Livestock (1998)<sup>6</sup>

Nos (1,000)	Ranking
Total Cattle	8 heads 0.1 %
Total Goats	27 heads 0.2 %
Total Sheep	11 heads 0.3 %

##### Estimated Rice Demand-Production Balance in 2017

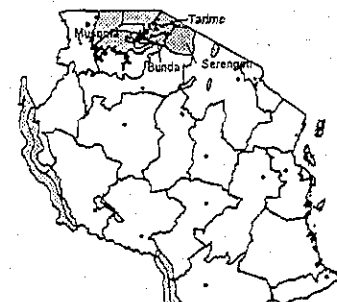
Demand	32,400 ton
Production	47,600 ton
Balance	15,200 ton



4: A Statistical Analysis of the 2000/01 Final Food Crop Production Forecast for Food Security, Food Security Department

5: National Reconnaissance Level Land use and Natural Resources Mapping Project, Final Report 1997

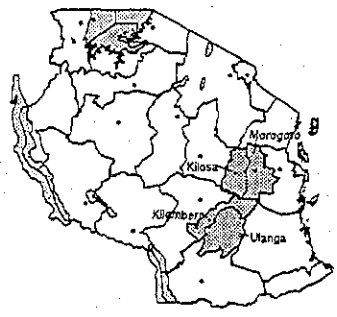
6: Basic Data Agricultural and Livestock Sector 1993/94-1999/2000

REGIONAL IRRIGATION PROFILE					REGION NAME: MARA																																																																																																																																																																																																																																									
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(1,000)				Forest	11.5	ha	0.4	%	Woodland	289.4	ha	9.5	%	Bushland	707.2	ha	23.2	%	Grassland	869.8	ha	28.5	%	Cultivated Land	270.2	ha	8.9	%	Open Land	1.7	ha	0.1	%	Water Features	899.5	ha	29.5	%	Others	1.4	ha	0.0	%	<b>Total</b>	<b>3,050.7</b>	<b>ha</b>	<b>100.0</b>	<b>%</b>	(Protected Area)	809	ha			<b>PRESENT CONDITION</b> <table border="1"> <thead> <tr> <th></th> <th>Bunda</th> <th>Musoma</th> <th>Tarime</th> <th>Serengeti</th> <th>Total</th> </tr> </thead> <tbody> <tr> <td><b>Traditional Irrigation</b></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Nos. of Scheme</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>0</td> </tr> <tr> <td>Existing Area (ha)</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>0</td> </tr> <tr> <td>Potential Area (ha)</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>0</td> </tr> <tr> <td><b>Water Harvesting</b></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Nos. of Scheme</td> <td>2</td> <td>5</td> 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<b>On-going</b>																																																																																																																																																																																																																																														
Nos. of Scheme	-	-	2	-	2																																																																																																																																																																																																																																									
Potential Area (ha)	-	-	430	-	430																																																																																																																																																																																																																																									
<b>A Group</b>																																																																																																																																																																																																																																														
Nos. of Scheme	-	-	-	1	1																																																																																																																																																																																																																																									
Potential Area (ha)	-	-	-	50	50																																																																																																																																																																																																																																									
<b>B Group</b>																																																																																																																																																																																																																																														
Nos. of Scheme	1	4	2	-	7																																																																																																																																																																																																																																									
Potential Area (ha)	150	1,860	260	-	2,270																																																																																																																																																																																																																																									
<b>C Group</b>																																																																																																																																																																																																																																														
Nos. of Scheme	3	5	-	-	8																																																																																																																																																																																																																																									
Potential Area (ha)	431	1,750	-	-	2,181																																																																																																																																																																																																																																									
<b>D Group</b>																																																																																																																																																																																																																																														
Nos. of Scheme	1	-	1	-	2																																																																																																																																																																																																																																									
Potential Area (ha)	180	-	15	-	195																																																																																																																																																																																																																																									
<b>E Group</b>																																																																																																																																																																																																																																														
Nos. of Scheme	-	3	1	-	4																																																																																																																																																																																																																																									
Potential Area (ha)	-	11,050	60	-	11,110																																																																																																																																																																																																																																									
<b>Excluded</b>																																																																																																																																																																																																																																														
Nos. of Scheme	2	1	1	1	5																																																																																																																																																																																																																																									
Potential Area (ha)	850	300	40	50	1,240																																																																																																																																																																																																																																									
<b>Total</b>																																																																																																																																																																																																																																														
Nos. of Scheme	7	13	7	2	29																																																																																																																																																																																																																																									
Potential Area (ha)	1,611	14,960	805	100	17,476																																																																																																																																																																																																																																									
<b>Food Supply Self Sufficient Rations (SSR) (2001/02)<sup>3</sup></b> <table border="1"> <tbody> <tr> <td><b>Cereals</b></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Production</td> <td>179,952</td> <td>ton</td> <td></td> <td></td> </tr> <tr> <td>Requirement</td> <td>216,382</td> <td>ton</td> <td></td> <td></td> </tr> <tr> <td>SSR</td> <td>83.2</td> <td>%</td> <td></td> <td></td> </tr> <tr> <td><b>Non-cereals</b></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Production</td> <td>180,808</td> <td>ton</td> <td></td> <td></td> </tr> <tr> <td>Requirement</td> <td>135,737</td> <td>ton</td> <td></td> <td></td> </tr> <tr> <td>SSR</td> <td>133.2</td> <td>%</td> <td></td> <td></td> </tr> <tr> <td><b>Total Food</b></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Production</td> <td>360,760</td> <td>ton</td> <td></td> <td></td> </tr> <tr> <td>Requirement</td> <td>352,119</td> <td>ton</td> <td></td> <td></td> </tr> <tr> <td>SSR</td> <td>102.5</td> <td>%</td> <td></td> <td></td> </tr> </tbody> </table>					<b>Cereals</b>					Production	179,952	ton			Requirement	216,382	ton			SSR	83.2	%			<b>Non-cereals</b>					Production	180,808	ton			Requirement	135,737	ton			SSR	133.2	%			<b>Total Food</b>					Production	360,760	ton			Requirement	352,119	ton			SSR	102.5	%			<b>Number of Livestock (1998)<sup>6</sup></b> <table border="1"> <thead> <tr> <th></th> <th>Nos (1,000)</th> <th></th> <th></th> </tr> </thead> <tbody> <tr> <td>Total Cattle</td> <td>970</td> <td>heads</td> <td>7.4 %</td> </tr> <tr> <td>Total Goats</td> <td>512</td> <td>heads</td> <td>4.6 %</td> </tr> <tr> <td>Total Sheep</td> <td>216</td> <td>heads</td> <td>6.1 %</td> </tr> </tbody> </table>						Nos (1,000)			Total Cattle	970	heads	7.4 %	Total Goats	512	heads	4.6 %	Total Sheep	216	heads	6.1 %																																																																																																																																																									
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<b>Estimated Rice Demand-Production Balance in 2017</b> <table border="1"> <tbody> <tr> <td>Demand</td> <td>52,700</td> <td>ton</td> </tr> <tr> <td>Production</td> <td>7,500</td> <td>ton</td> </tr> <tr> <td>Balance</td> <td>-45,200</td> <td>ton</td> </tr> </tbody> </table>					Demand	52,700	ton	Production	7,500	ton	Balance	-45,200	ton																																																																																																																																																																																																																																	
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<b>Food Poverty Index<sup>4</sup></b> <table border="1"> <tbody> <tr> <td>Food Poverty (Total)</td> <td>0.3330</td> <td>%</td> <td>1</td> <td>Ranking</td> </tr> <tr> <td>Food Poverty (Urban)</td> <td>0.2337</td> <td>%</td> <td>2</td> <td>Ranking</td> </tr> <tr> <td>Food Poverty (Rural)</td> <td>0.3503</td> <td>%</td> <td>2</td> <td>Ranking</td> </tr> <tr> <td>BHN Poverty (Total)</td> <td>0.4249</td> <td>%</td> <td>5</td> <td>Ranking</td> </tr> <tr> <td>BHN Poverty (Urban)</td> <td>0.3440</td> <td>%</td> <td>3</td> <td>Ranking</td> </tr> <tr> <td>BHN Poverty (Rural)</td> <td>0.4391</td> <td>%</td> <td>5</td> <td>Ranking</td> </tr> </tbody> </table>					Food Poverty (Total)	0.3330	%	1	Ranking	Food Poverty (Urban)	0.2337	%	2	Ranking	Food Poverty (Rural)	0.3503	%	2	Ranking	BHN Poverty (Total)	0.4249	%	5	Ranking	BHN Poverty (Urban)	0.3440	%	3	Ranking	BHN Poverty (Rural)	0.4391	%	5	Ranking	<b>Road Density<sup>1</sup></b> <table border="1"> <tbody> <tr> <td>Road Density</td> <td>130</td> <td>km/km<sup>2</sup></td> </tr> </tbody> </table>					Road Density	130	km/km <sup>2</sup>																																																																																																																																																																																																				
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Data Source: 1: Regional Socio-Economic Profile, Dec. 1997  
 2: The Tanzanian Population and Development Website, URL: <http://www.tanzania.go.tz/population/>  
 3: District Integrated Agricultural Survey 1998/99  
 4: Population data are rounded by JICA Study Team

4: A Statistical Analysis of the 2000/01 Final Food Crop Production Forecast for Food Security, Food Security Department  
 5: National Reconnaissance Level Land use and Natural Resources Mapping Project, Final Report 1997  
 6: Basic Data Agricultural and Livestock Sector 1993/94-1999/2000



REGIONAL IRRIGATION PROFILE				REGION NAME: MOROGORO																																																																																																																																																																																																																																																																																							
<b>SOCIO-ECONOMIC BACKGROUND</b>				<b>LAND USE</b>																																																																																																																																																																																																																																																																																							
<b>Administrative Profile<sup>1</sup></b> <table border="1"> <thead> <tr> <th rowspan="2">District</th> <th rowspan="2">Area (km<sup>2</sup>)</th> <th colspan="3">Administrative Units</th> </tr> <tr> <th>Divisions</th> <th>Wards</th> <th>Villages</th> </tr> </thead> <tbody> <tr> <td>Kilosa</td> <td>14,918</td> <td>9</td> <td>36</td> <td>132</td> </tr> <tr> <td>Kilombero</td> <td>14,245</td> <td>5</td> <td>19</td> <td>46</td> </tr> <tr> <td>Morogoro</td> <td>19,316</td> <td>11</td> <td>61</td> <td>214</td> </tr> <tr> <td>Ulanga</td> <td>24,460</td> <td>5</td> <td>24</td> <td>65</td> </tr> <tr> <td><b>TOTAL</b></td> <td><b>72,939</b></td> <td><b>30</b></td> <td><b>140</b></td> <td><b>457</b></td> </tr> </tbody> </table>				District	Area (km <sup>2</sup> )	Administrative Units			Divisions	Wards	Villages	Kilosa	14,918	9	36	132	Kilombero	14,245	5	19	46	Morogoro	19,316	11	61	214	Ulanga	24,460	5	24	65	<b>TOTAL</b>	<b>72,939</b>	<b>30</b>	<b>140</b>	<b>457</b>	<table border="1"> <thead> <tr> <th>Land Cover<sup>5</sup></th> <th>Area (1,000)</th> <th>ha</th> <th>%</th> </tr> </thead> <tbody> <tr> <td>Forast</td> <td>802.4</td> <td>ha</td> <td>11.6</td> </tr> <tr> <td>Woodland</td> <td>3,109.9</td> <td>ha</td> <td>44.9</td> </tr> <tr> <td>Bushland</td> <td>606.0</td> <td>ha</td> <td>8.8</td> </tr> <tr> <td>Grassland</td> <td>1,939.8</td> <td>ha</td> <td>28.0</td> </tr> <tr> <td>Cultivated Land</td> <td>430.0</td> <td>ha</td> <td>6.2</td> </tr> <tr> <td>Open Land</td> <td>2.4</td> <td>ha</td> <td>0.0</td> </tr> <tr> <td>Water Features</td> <td>36.4</td> <td>ha</td> <td>0.4</td> </tr> <tr> <td>Others</td> <td>3.1</td> <td>ha</td> <td>0.0</td> </tr> <tr> <td>Total</td> <td>6,924.0</td> <td>ha</td> <td>100.0</td> </tr> <tr> <td>(Protected Area)</td> <td>3,045</td> <td>ha</td> <td></td> </tr> </tbody> </table>				Land Cover <sup>5</sup>	Area (1,000)	ha	%	Forast	802.4	ha	11.6	Woodland	3,109.9	ha	44.9	Bushland	606.0	ha	8.8	Grassland	1,939.8	ha	28.0	Cultivated Land	430.0	ha	6.2	Open Land	2.4	ha	0.0	Water Features	36.4	ha	0.4	Others	3.1	ha	0.0	Total	6,924.0	ha	100.0	(Protected Area)	3,045	ha																																																																																																																																																																																																								
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<b>Population<sup>1,2,3</sup></b> Population (1988 Census) 1,222,734 persons Population (2002 Projection) 1,815,000 persons Population (2017 Projection) 2,863,000 persons Population Density (2017 Proj.) 39.3 persons /km <sup>2</sup> Population Growth Rate 3.08 % Nos of Farm Household 262,337 Nos  <b>GDP<sup>4</sup></b> RGDP (1994) 88,073 Tsh Mil. (US\$1.0=Tsh553.0) 159 US\$ Mil. Per Capita RGDP (1994) 59,370 Tsh 107 US\$ Contribution to NGDP (1980-1994) 4.67 % 8 Ranking				<b>AGRICULTURE</b> <b>Major Food Crops (1999/2000)<sup>6</sup></b> <table border="1"> <thead> <tr> <th>Crop</th> <th>Cultivated Area (1,000)</th> <th>Unit Yield</th> <th>Unit</th> </tr> </thead> <tbody> <tr> <td>Maize</td> <td>74.3</td> <td>89.2</td> <td>ton/ha</td> </tr> <tr> <td>Sorghum</td> <td>31.5</td> <td>31.5</td> <td>ton/ha</td> </tr> <tr> <td>Millet</td> <td>1.8</td> <td>0.8</td> <td>ton/ha</td> </tr> <tr> <td>Paddy</td> <td>67.1</td> <td>103.2</td> <td>ton/ha</td> </tr> <tr> <td>Wheat</td> <td>-</td> <td>-</td> <td>ton/ha</td> </tr> <tr> <td>S. Potato</td> <td>12.9</td> <td>29.6</td> <td>ton/ha</td> </tr> <tr> <td>Pulses</td> <td>25.4</td> <td>20.3</td> <td>ton/ha</td> </tr> <tr> <td>Bananas</td> <td>17.4</td> <td>31.3</td> <td>ton/ha</td> </tr> <tr> <td>Cassava</td> <td>38.6</td> <td>81.0</td> <td>ton/ha</td> </tr> <tr> <td>Total</td> <td>268.5</td> <td>ha</td> <td>2.1</td> </tr> </tbody> </table> <b>Number of Livestock (1998)<sup>6</sup></b> Nos (1,000) Total Cattle 444 heads 3.4 % Total Goats 255 heads 2.3 % Total Sheep 53 heads 1.5 %				Crop	Cultivated Area (1,000)	Unit Yield	Unit	Maize	74.3	89.2	ton/ha	Sorghum	31.5	31.5	ton/ha	Millet	1.8	0.8	ton/ha	Paddy	67.1	103.2	ton/ha	Wheat	-	-	ton/ha	S. Potato	12.9	29.6	ton/ha	Pulses	25.4	20.3	ton/ha	Bananas	17.4	31.3	ton/ha	Cassava	38.6	81.0	ton/ha	Total	268.5	ha	2.1																																																																																																																																																																																																																																								
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<b>Food Supply Self Sufficient Ratios (SSR) (2001/02)<sup>3</sup></b> <b>Cereals</b> Production 271,237 ton Requirement 237,409 ton SSR 105.4 % <b>Non-cereals</b> Production 162,762 ton Requirement 168,697 ton SSR 96.5 % <b>Total Food</b> Production 433,999 ton Requirement 426,106 ton SSR 101.9 %				<b>Estimated Rice Demand-Production Balance in 2017</b> Demand 66,400 ton Production 174,900 ton Balance 108,500 ton																																																																																																																																																																																																																																																																																							
<b>Poverty Index<sup>4</sup></b> Food Poverty (Total) 0.1362 % 12 Ranking Food Poverty (Urban) 0.0847 % 14 Ranking Food Poverty (Rural) 0.1514 % 10 Ranking BHN Poverty (Total) 0.2940 % 16 Ranking BHN Poverty (Urban) 0.2016 % 12 Ranking BHN Poverty (Rural) 0.3213 % 15 Ranking																																																																																																																																																																																																																																																																																											
<b>Road Density<sup>1</sup></b> 51 km/km <sup>2</sup>				<b>IRRIGATION</b> <b>PRESENT CONDITION</b> <table border="1"> <thead> <tr> <th></th> <th>Kilosa</th> <th>Kilombero</th> <th>Morogoro</th> <th>Ulanga</th> <th>Total</th> </tr> </thead> <tbody> <tr> <td><b>Traditional Irrigation</b></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Nos. of Scheme</td> <td>24</td> <td>8</td> <td>12</td> <td>6</td> <td>50</td> </tr> <tr> <td>Existing Area (ha)</td> <td>7,311</td> <td>66</td> <td>1,906</td> <td>52</td> <td>9,335</td> </tr> <tr> <td>Potential Area (ha)</td> <td>21,382</td> <td>93,250</td> <td>4,462</td> <td>3,590</td> <td>122,684</td> </tr> <tr> <td><b>Water harvesting</b></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Nos. of Scheme</td> <td>1</td> <td>-</td> <td>2</td> <td>-</td> <td>3</td> </tr> <tr> <td>Existing Area (ha)</td> <td>1,680</td> <td>-</td> <td>0</td> <td>-</td> <td>1,680</td> </tr> <tr> <td>Potential Area (ha)</td> <td>3,600</td> <td>-</td> <td>3,800</td> <td>-</td> <td>7,400</td> </tr> <tr> <td><b>Modern Irrigation</b></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Nos. of Scheme</td> <td>6</td> <td>4</td> <td>14</td> <td>7</td> <td>31</td> </tr> <tr> <td>Existing Area (ha)</td> <td>3,512</td> <td>6,020</td> <td>3,997</td> <td>0</td> <td>13,529</td> </tr> <tr> <td>Potential Area (ha)</td> <td>3,464</td> <td>15,320</td> <td>20,364</td> <td>4,550</td> <td>43,698</td> </tr> <tr> <td><b>Improved Traditional Irrigation</b></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Nos. of Scheme</td> <td>1</td> <td>1</td> <td>-</td> <td>2</td> <td>4</td> </tr> <tr> <td>Existing Area (ha)</td> <td>580</td> <td>20</td> <td>-</td> <td>0</td> <td>600</td> </tr> <tr> <td>Potential Area (ha)</td> <td>1,960</td> <td>330</td> <td>-</td> <td>660</td> <td>2,950</td> </tr> <tr> <td><b>Total</b></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Nos. of 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(ha)	21,382	93,250	4,462	3,590	122,684	<b>Water harvesting</b>						Nos. of Scheme	1	-	2	-	3	Existing Area (ha)	1,680	-	0	-	1,680	Potential Area (ha)	3,600	-	3,800	-	7,400	<b>Modern Irrigation</b>						Nos. of Scheme	6	4	14	7	31	Existing Area (ha)	3,512	6,020	3,997	0	13,529	Potential Area (ha)	3,464	15,320	20,364	4,550	43,698	<b>Improved Traditional Irrigation</b>						Nos. of Scheme	1	1	-	2	4	Existing Area (ha)	580	20	-	0	600	Potential Area (ha)	1,960	330	-	660	2,950	<b>Total</b>						Nos. of Scheme	32	13	28	15	88	Existing Area (ha)	13,083	6,106	5,903	52	25,144	Potential Area (ha)	30,406	108,900	28,626	8,800	176,732		Kilosa	Kilombero	Morogoro	Ulanga	Total	<b>On-going</b>						Nos. of Scheme	-	-	-	-	0	Potential Area (ha)	-	-	-	-	0	<b>A Group</b>						Nos. of Scheme	2	-	1	-	3	Potential Area (ha)	4,043	-	2,750	-	6,793	<b>B Group</b>						Nos. of Scheme	18	2	10	3	33	Potential Area (ha)	16,271	720	4,682	3,700	25,373	<b>C Group</b>						Nos. of Scheme	7	4	12	8	31	Potential Area (ha)	3,938	690	4,094	3,990	12,712	<b>D Group</b>						Nos. of Scheme	-	-	-	3	3	Potential Area (ha)	-	-	-	610	610	<b>E Group</b>						Nos. of Scheme	4	6	3	-	13	Potential Area (ha)	6,154	94,990	10,600	-	111,744	<b>Excluded</b>						Nos. of Scheme	1	1	2	1	5	Potential Area (ha)	0	12,500	6,500	500	19,500	<b>Total</b>						Nos. of Scheme	32	13	28	15	88	Potential Area (ha)	30,406	108,900	28,626	8,800	176,732
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Data Source: 1: Regional Socio-Economic Profile, Dec. 1997

2: The Tanzanian Population and Development Website, URL: <http://www.tanzania.go.tz/population/>

3: Districts Integrated Agricultural Survey 1998/99

4: Population data are rounded by JICA Study Team

4: A Statistical Analysis of the 2000/01 Final Food Crop Production Forecast for Food Security, Food Security Department

5: National Reconnaissance Level Land use and Natural Resources Mapping Project, Final Report 1997

6: Basic Data Agricultural and Livestock Sector 1993/94-1999/2000

REGIONAL IRRIGATION PROFILE					REGION NAME: MTWARA			IRRIGATION																																																																																																																																																																																																															
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REGIONAL IRRIGATION PROFILE				REGION NAME: MWANZA						
<b>SOCIO-ECONOMIC BACKGROUND</b>				<b>LAND USE</b>						
<b>Administrative Profile<sup>1</sup></b>				<b>Land Cover<sup>5</sup> Area (1,000)</b>						
District	Area (km <sup>2</sup> )	Administrative Units		Forest	ha	%				
		Divisions	Wards	Woodland	294.9	8.3	%			
Geita	6,775	7	27	Bushland	257.1	7.3	%			
Kwimba	3,902	5	25	Grassland	349.9	9.9	%			
Magu	3,070	6	27	Cultivated Land	1,013.0	28.7	%			
Misingwi	1,947	4	20	Open Land	0.0	0.0	%			
Mwanza	425	2	20	Water Features	1,577.7	44.7	%			
Sengerema	3,335	5	25	Others	2.4	0.1	%			
Ukerewe	640	4	24	Total	3,532.4	100.0	%			
TOTAL	20,093	33	168	(Protected Area)	204					
				<b>AGRICULTURE</b>						
<b>Population<sup>1,2,3</sup></b>				<b>Major Food Crops (1999/2000)<sup>4</sup></b>						
Population (1988 Census)	1,878,271	persons		Crop	Cultivated Area (1,000 Production (1,000)	Unit Yield				
Population (2002 Projection)	2,713,000	persons *		Maize	109.6	131.5	ton/ha			
Population (2017 Projection)	4,279,000	persons *		Sorghum	72.2	50.6	ton/ha			
Population Density (2017 Proj.)	212.9	persons /km <sup>2</sup>		Millet	10.4	8.3	ton/ha			
Population Growth Rate	3.08	%		Paddy	71.0	109.2	ton/ha			
Nos of Farm Household	347,494	Nos		Wheat	-	-	ton/ha			
				S. Potato	38.7	92.9	ton/ha			
				Pulses	42.9	42.9	ton/ha			
				Bananas	2.8	5.1	ton/ha			
				Cassava	46.3	92.6	ton/ha			
				Total	393.9					
<b>GDP<sup>1</sup></b>				<b>Number of Livestock (1998)<sup>6</sup></b>						
RGDP (1994)	107,553	Tsh Mil.		<b>Nos (1,000)</b>						
(US\$1.0=Tsh553.0)	194	US\$ Mil.		Total Cattle	1,358	heads	10.3 %			
Per Capita RGDP (1994)	48,508	Tsh		Total Goats	912	heads	8.3 %			
	88	US\$		Total Sheep	250	heads	7.0 %			
	14	Ranking		<b>Estimated Rice Demand-Production Balance in 2017</b>						
Contribution to NGDP (1980-1994)	7.87	%		Demand	99,300	ton				
	3	Ranking		Production	180,400	ton				
				Balance	81,100	ton				
<b>Food Supply Self Sufficient Ratios (SSR) (2001/02)<sup>2</sup></b>										
<b>Cereals</b>										
Production	305,307	ton								
Requirement	384,737	ton								
SSR	79.4	%								
<b>Non-cereals</b>										
Production	358,568	ton								
Requirement	252,143	ton								
SSR	142.2	%								
<b>Total Food</b>										
Production	663,875	ton								
Requirement	636,880	ton								
SSR	104.2	%								
<b>Poverty Index<sup>3</sup></b>										
Food Poverty (Total)	0.2299	%	8 Ranking							
Food Poverty (Urban)	0.2411	%	1 Ranking							
Food Poverty (Rural)	0.2276	%	8 Ranking							
BHN Poverty (Total)	0.4536	%	4 Ranking							
BHN Poverty (Urban)	0.3823	%	2 Ranking							
BHN Poverty (Rural)	0.4681	%	4 Ranking							
<b>Road Density<sup>1</sup></b>										
	319	km/km <sup>2</sup>								
				<b>IRRIGATION</b>						
				<b>PRESENT CONDITION</b>						
				Geita	Kwimba	Magu	Mwanza	Sengerema	Ukerewe	Total
<b>Traditional Irrigation</b>										
Nos. of Scheme	1	-	-	1	3	-	-	-	5	
Existing Area (ha)	200	-	-	31	21	-	-	-	224	
Potential Area (ha)	300	-	-	13	45	-	-	-	358	
<b>Water harvesting</b>										
Nos. of Scheme	5	10	4	8	-	3	-	-	30	
Existing Area (ha)	320	50	0	203	-	0	-	-	573	
Potential Area (ha)	1,450	3,580	1,060	11,805	-	1,800	-	-	19,495	
<b>Modern Irrigation</b>										
Nos. of Scheme	5	1	5	2	-	2	3	18		
Existing Area (ha)	0	200	70	0	-	0	0	270		
Potential Area (ha)	580	200	2,840	60	-	1,020	275	4,975		
<b>Improved Traditional Irrigation</b>										
Nos. of Scheme	-	-	-	-	3	-	-	3		
Existing Area (ha)	-	-	-	-	41	-	-	41		
Potential Area (ha)	-	-	-	-	58	-	-	58		
<b>Total</b>										
Nos. of Scheme	11	11	9	11	6	5	3	56		
Existing Area (ha)	520	250	70	206	62	0	0	1,108		
Potential Area (ha)	2,330	3,780	3,900	11,878	103	2,620	275	24,886		
				<b>FUTURE PLAN</b>						
				Geita	Kwimba	Magu	Mwanza	Sengerema	Ukerewe	Total
<b>On-going</b>										
Nos. of Scheme	-	-	-	-	-	-	-	-	0	
Potential Area (ha)	-	-	-	-	-	-	-	-	0	
<b>A Group</b>										
Nos. of Scheme	2	4	-	4	1	3	-	14		
Potential Area (ha)	900	1,500	-	4,600	10	1,600	-	8,610		
<b>B Group</b>										
Nos. of Scheme	9	6	4	4	2	2	1	28		
Potential Area (ha)	1,430	2,080	1,150	653	35	1,020	200	6,568		
<b>C Group</b>										
Nos. of Scheme	-	-	2	1	-	-	2	5		
Potential Area (ha)	-	-	135	20	-	-	75	230		
<b>D Group</b>										
Nos. of Scheme	-	-	1	-	-	-	-	1		
Potential Area (ha)	-	-	15	-	-	-	-	15		
<b>E Group</b>										
Nos. of Scheme	-	-	1	2	2	-	-	5		
Potential Area (ha)	-	-	2,400	6,605	30	-	-	9,035		
<b>Excluded</b>										
Nos. of Scheme	-	1	1	-	1	-	-	3		
Potential Area (ha)	-	200	200	-	28	-	-	428		
<b>Total</b>										
Nos. of Scheme	11	11	9	11	6	5	3	56		
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 2: The Tanzanian Population and Development Website, URL: <http://www.tanzania.go.tz/population/>  
 3: District Integrated Agricultural Survey 1998/99  
 4: Population data are rounded by JICA Study Team

4: A Statistical Analysis of the 2000/01 Final Food Crop Production Forecast for Food Security, Food Security Department  
 5: National Reconnaissance Level Land use and Natural Resources Mapping Project, Final Report 1997  
 6: Basic Data Agricultural and Livestock Sector 1993/94-1999/2000



REGIONAL IRRIGATION PROFILE				REGION NAME: RUVUMA			
<b>SOCIO-ECONOMIC BACKGROUND</b>				<b>LAND USE</b>			
Administrative Profile <sup>1</sup>				Land Cover <sup>5</sup> Area (1,000)			
District	Area (km <sup>2</sup> )	Administrative Units					
		Divisions	Wards	Villages			
Mbinga	11,396	6	33	168	210.5	ha	3.2 %
Songea	34,319	9	35	281	3,451.7	ha	53.0 %
Tunduru	18,778	7	24	98	1,058.5	ha	16.3 %
<b>TOTAL</b>	<b>64,493</b>	<b>22</b>	<b>92</b>	<b>547</b>	<b>792.0</b>	<b>ha</b>	<b>12.2 %</b>
					655.1	ha	10.1 %
					4.1	ha	0.1 %
					336.3	ha	5.2 %
					4.3	ha	0.1 %
					6,512.5	ha	100.0 %
					(Protected Area)	1,042	ha
<b>AGRICULTURE</b>				<b>IRRIGATION</b>			
Major Food Crops (1999/2000) <sup>4</sup>				PRESENT CONDITION			
Crop	Cultivated Area (1,000)	Unit	Yield				
Maize	110.7	ha	155.0	ton	1.4	ton/ha	
Sorghum	3.6	ha	2.8	ton	0.8	ton/ha	
Millet	3.2	ha	3.8	ton	1.2	ton/ha	
Paddy	15.9	ha	29.8	ton	2.1	ton/ha	
Wheat	-	ha	-	ton	-	ton/ha	
S. Potato	15.7	ha	31.4	ton	2.0	ton/ha	
Pulses	33.0	ha	33.0	ton	1.0	ton/ha	
Bananas	13.6	ha	27.1	ton	2.0	ton/ha	
Cassava	34.7	ha	79.9	ton	2.3	ton/ha	
<b>Total</b>	<b>228.4</b>	<b>ha</b>					
Number of Livestock (1998) <sup>6</sup>				FUTURE PLAN			
Nos (1,000)							
Total Cattle	52	heads	0.4	%			
Total Goats	465	heads	4.2	%			
Total Sheep	30	heads	0.8	%			
Estimated Rice Demand-Production Balance in 2017				On-going			
Demand	44,100	ton					
Production	50,900	ton					
Balance	6,800	ton					
				Mbinga Songea Tunduru Total			
				Traditional Irrigation			
Nos. of Scheme				3	6	2	11
Existing Area (ha)				100	68	30	198
Potential Area (ha)				5,800	1,400	650	7,850
Water harvesting							
Nos. of Scheme				-	-	-	0
Existing Area (ha)				-	-	-	0
Potential Area (ha)				-	-	-	0
Modern Irrigation							
Nos. of Scheme				-	-	-	0
Existing Area (ha)				-	-	-	0
Potential Area (ha)				-	-	-	0
Improved Traditional Irrigation							
Nos. of Scheme				-	-	-	0
Existing Area (ha)				-	-	-	0
Potential Area (ha)				-	-	-	0
Total				3	6	2	11
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Potential Area (ha)				5,800	1,400	650	7,850
On-going							
Nos. of Scheme				-	-	-	0
Potential Area (ha)				-	-	-	0
A Group							
Nos. of Scheme				1	1	-	2
Potential Area (ha)				1,500	1,200	-	2,700
B Group							
Nos. of Scheme				1	-	1	2
Potential Area (ha)				300	-	400	700
C Group							
Nos. of Scheme				-	-	-	0
Potential Area (ha)				-	-	-	0
D Group							
Nos. of Scheme				-	-	-	0
Potential Area (ha)				-	-	-	0
E Group							
Nos. of Scheme				1	4	-	5
Potential Area (ha)				4,000	100	-	4,100
Excluded							
Nos. of Scheme				-	1	1	2
Potential Area (ha)				-	100	250	350
Total				3	6	2	11
Potential Area (ha)				5,800	1,400	650	7,850
Poverty Index <sup>4</sup>				Road Density <sup>1</sup>			
Food Poverty (Total)				0.2735	%	4	Ranking
Food Poverty (Urban)				0.1835	%	5	Ranking
Food Poverty (Rural)				0.2905	%	4	Ranking
BHN Poverty (Total)				0.4127	%	6	Ranking
BHN Poverty (Urban)				0.2865	%	7	Ranking
BHN Poverty (Rural)				0.4365	%	6	Ranking
Production				179,950	ton		
Requirement				174,045	ton		
SSR				103.4	%		
Non-cereals							
Production				156,947	ton		
Requirement				114,063	ton		
SSR				137.6	%		
Total Food							
Production				336,897	ton		
Requirement				288,108	ton		
SSR				116.9	%		

Data Source: 1: Regional Socio-Economic Profile, Dec. 1997

2: The Tanzania Population and Development Website, URL: <http://www.tanzania.go.tz/population/>

3: District Integrated Agricultural Survey 1998/99

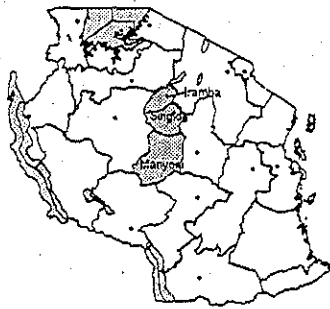
\*: Population data are rounded by JICA Study Team

4: A Statistical Analysis of the 2000/01 Final Food Crop Production Forecast for Food Security, Food Security Department

5: National Reconnaissance Level Land use and Natural Resources Mapping Project, Final Report 1997

6: Basic Data Agricultural and Livestock Sector 1993/94-1999/2000



REGIONAL IRRIGATION PROFILE				REGION NAME: SINGIDA		IRRIGATION			
<b>SOCIO-ECONOMIC BACKGROUND</b>				<b>LAND USE</b>		<b>PRESENT CONDITION</b>			
Administrative Profile <sup>1</sup>				Land Cover <sup>2</sup>		PRESENT CONDITION			
District	Area (km <sup>2</sup> )	Administrative Units		Area (1,000)		Iramba	Manyoni	Singida	Total
		Divisions	Wards						
Iramba	7,900	7	26	1.2	ha	0.0			
Manyoni	28,620	5	21	2,152.9	ha	44.1			
Singida	12,821	9	38	1,476.8	ha	30.2			
TOTAL	49,341	21	85	346					
Population <sup>1,3</sup>				Cultivated Land		Traditional Irrigation			
Population (1988 Census)	791,814	persons		218.2	ha	4.5			
Population (2002 Projection)	1,133,000	persons *		Open Land	1.8	ha	0.0		
Population (2017 Projection)	1,787,000	persons *		Water Features	112.0	ha	2.1		
Population Density (2017 Proj.)	36.2	persons /km <sup>2</sup>		Others	0.8	ha	0.0		
Population Growth Rate	3.08	%		Total	4,886.2	ha	100.0		
Nos of Farm Household	195,416	Nos		(Protected Area	2,494	ha)			
GDP <sup>4</sup>				AGRICULTURE		Improved Traditional Irrigation			
RGDP (1994)	51,995	Tsh Mil.		Major Food Crops (1999/2000) <sup>5</sup>		Nos. of Scheme			
(US\$1.0=Tsh553.0)	94	US\$ Mil.		Crop	Cultivated Area (1,000)	Production (1,000)	Unit Yield		
Per Capita RCDD (1994)	55,644	Tsh		Maize	58.2	ha	29.1	ton	0.5 ton/ha
	101	US\$		Sorghum	60.1	ha	36.1	ton	0.6 ton/ha
Contribution to NCDP (1980-1994)	9	Ranking		Millet	27.6	ha	11.0	ton	0.4 ton/ha
	2.87	%		Paddy	6.4	ha	2.9	ton	0.5 ton/ha
	17	Ranking		Wheat	-	ha	-	ton	- ton/ha
				S. Potato	16.0	ha	27.2	ton	1.7 ton/ha
				Pulses	26.7	ha	18.7	ton	0.7 ton/ha
				Bananas	-	ha	-	ton	- ton/ha
				Cassava	22.1	ha	48.7	ton	2.2 ton/ha
				Total	217.1	ha	-	-	-
				Number of Livestock (1998) <sup>6</sup>		Future Plan			
				Nos (1,000)		On-going			
				Total Cattle	940	heads	7.1	%	
				Total Goats	665	heads	6.0	%	
				Total Sheep	280	heads	7.9	%	
				Estimated Rice Demand-Production Balance in 2017		A Group			
				Demand	41,500	ton			
				Production	17,200	ton			
				Balance	-24,300	ton			
Food Supply Self Sufficient Ratios (SSR) (2001/02) <sup>7</sup>						B Group			
Cereals									
Production	99,788	ton							
Requirement	159,942	ton							
SSR	62.4	%							
Non-cereals									
Production	60,946	ton							
Requirement	104,820	ton							
SSR	58.1	%							
Total Food									
Production	160,734	ton							
Requirement	264,762	ton							
SSR	60.7	%							
Poverty Index <sup>4</sup>						C Group			
Food Poverty (Total)	0.2588	%	5	Ranking					
Food Poverty (Urban)	0.1320	%	8	Ranking					
Food Poverty (Rural)	0.2720	%	6	Ranking					
BHN Poverty (Total)	0.4782	%	2	Ranking					
BHN Poverty (Urban)	0.2456	%	9	Ranking					
BHN Poverty (Rural)	0.5024	%	2	Ranking					
Road Density <sup>1</sup>						D Group			
	66	km/km <sup>2</sup>							
						E Group			
						Nos. of Scheme			
						Potential Area (ha)			
						Excluded			
						Nos. of Scheme			
						Potential Area (ha)			
						Total			
						Nos. of Scheme			
						Potential Area (ha)			

Data Source: 1: Regional Socio-Economic Profile, Dec. 1997

2: The Tanzanian Population and Development Website, URL: <http://www.tanzania.go.tz/population/>


3: District Integrated Agricultural Survey 1993/99

\* Population data are rounded by JICA Study Team

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REGIONAL IRRIGATION PROFILE					REGION NAME: TABORA						
<b>SOCIO-ECONOMIC BACKGROUND</b>					<b>LAND USE</b>						
<b>Administrative Profile<sup>1</sup></b>					<b>Land Cover<sup>2</sup></b>						
District	Area (km <sup>2</sup> )	Divisions	Wards	Villages	Area (1,000)	ha	%				
Igunga	6,788	4	26	96	0.6	ha	0.0	%			
Nzega	6,961	4	37	131	4,379.8	ha	57.7	%			
Sikonge	21,000	2	8	31	527.3	ha	6.9	%			
Tabora	20,104	4	36	105	1,627.2	ha	21.4	%			
Urambo	21,299	4	26	91	882.0	ha	11.6	%			
<b>TOTAL</b>	<b>76,151</b>	<b>18</b>	<b>133</b>	<b>455</b>	0.1	ha	0.0	%			
Population <sup>1,2,3</sup>					<b>AGRICULTURE</b>						
Population (1988 Census)	1,036,294	persons			<b>Major Food Crops (1999/2000)<sup>4</sup></b>						
Population (2002 Projection)	1,470,000	persons			Crop	Cultivated Area (1,000)	Production (1,000)	Unit Yield			
Population (2017 Projection)	2,318,000	persons			Maize	78.3	101.8	1.3	ton/ha		
Population Density (2017 Proj.)	30.4	persons /km <sup>2</sup>			Sorghum	33.5	40.2	1.2	ton/ha		
Population Growth Rate	3.08	%			Millet	8.2	9.9	1.2	ton/ha		
No. of Farm Household	202,315	No.			Paddy	48.2	44.5	0.9	ton/ha		
					Wheat	-	-	-	ton/ha		
GDP <sup>1</sup>					S. Potato	20.0	42.0	2.1	ton/ha		
RGDP (1994)	55,012	Tsh Mil.			Pulses	24.0	24.0	1.0	ton/ha		
(US\$1.0=Tsh553.0)	99	US\$ Mil.			Bananas	-	-	-	ton/ha		
Per Capita RGDP (1994)	44,984	Tsh			Cassava	29.9	71.9	2.4	ton/ha		
	81	US\$			<b>Total</b>	<b>242.1</b>			<b>ton/ha</b>		
	13	Ranking			<b>Number of Livestock (1998)<sup>5</sup></b>						
Contribution to NGDP (1980-1994)	3.40	%			Nos (1,000)						
	12	Ranking			Total Cattle	929	7.1	%			
					Total Goats	363	3.3	%			
					Total Sheep	173	4.9	%			
<b>Food Supply Self Sufficient Ratios (SSR) (2001/02)<sup>7</sup></b>					<b>Estimated Rice Demand-Production Balance in 2017</b>						
<b>Cereals</b>					Demand	53,800	ton				
Production	189,535	ton			Production	51,400	ton				
Requirement	206,484	ton			Balance	-2,400	ton				
SSR	91.8	%									
<b>Non-cereals</b>											
Production	107,032	ton									
Requirement	135,222	ton									
SSR	79.1	%									
<b>Total Food</b>											
Production	296,567	ton									
Requirement	341,806	ton									
SSR	86.8	%									
<b>Poverty Index<sup>8</sup></b>											
Food Poverty (Total)	0.0821	%	18	Ranking							
Food Poverty (Urban)	0.1024	%	9	Ranking							
Food Poverty (Rural)	0.0789	%	18	Ranking							
BHN Poverty (Total)	0.3034	%	13	Ranking							
BHN Poverty (Urban)	0.1880	%	13	Ranking							
BHN Poverty (Rural)	0.3222	%	14	Ranking							
<b>Road Density<sup>1</sup></b>											
	56	km/km <sup>2</sup>									
<b>IRRIGATION</b>					<b>PRESENT CONDITION</b>						
					Igunga	Nzega	Sikonge	Tabora	Urambo	Total	
					<b>Traditional Irrigation</b>						
					Nos. of Scheme	2	4	-	-	2	8
					Existing Area (ha)	550	270	-	-	0	820
					Potential Area (ha)	1,000	6,080	-	-	900	9,980
					<b>Water harvesting</b>						
					Nos. of Scheme	2	4	7	14	23	50
					Existing Area (ha)	0	670	0	81	0	751
					Potential Area (ha)	2,060	7,100	3,120	5,580	4,620	22,480
					<b>Modern Irrigation</b>						
					Nos. of Scheme	1	-	-	-	-	1
					Existing Area (ha)	630	-	-	-	-	630
					Potential Area (ha)	1,500	-	-	-	-	1,500
					<b>Improved Traditional Irrigation</b>						
					Nos. of Scheme	-	3	-	-	-	3
					Existing Area (ha)	-	390	-	-	-	390
					Potential Area (ha)	-	920	-	-	-	920
					<b>Total</b>						
					Nos. of Scheme	5	11	7	14	25	62
					Existing Area (ha)	1,180	1,330	0	81	0	2,591
					Potential Area (ha)	4,560	16,100	3,120	5,580	5,520	34,880
					<b>FUTURE PLAN</b>						
					Igunga	Nzega	Sikonge	Tabora	Urambo	Total	
					<b>On-going</b>						
					Nos. of Scheme	1	1	-	-	-	2
					Potential Area (ha)	500	630	-	-	-	1,130
					<b>A Group</b>						
					Nos. of Scheme	-	-	-	-	-	0
					Potential Area (ha)	-	-	-	-	-	0
					<b>B Group</b>						
					Nos. of Scheme	2	-	-	1	21	24
					Potential Area (ha)	2,960	-	-	1,500	4,170	8,630
					<b>C Group</b>						
					Nos. of Scheme	2	6	7	10	4	29
					Potential Area (ha)	1,100	3,430	3,120	3,930	1,330	12,930
					<b>D Group</b>						
					Nos. of Scheme	-	1	-	3	-	4
					Potential Area (ha)	-	140	-	150	-	290
					<b>E Group</b>						
					Nos. of Scheme	-	3	-	-	-	3
					Potential Area (ha)	-	11,900	-	-	-	11,900
					<b>Excluded</b>						
					Nos. of Scheme	-	-	-	-	-	0
					Potential Area (ha)	-	-	-	-	-	0
					<b>Total</b>						
					Nos. of Scheme	5	11	7	14	25	62
					Potential Area (ha)	4,560	16,100	3,120	5,580	5,520	34,880

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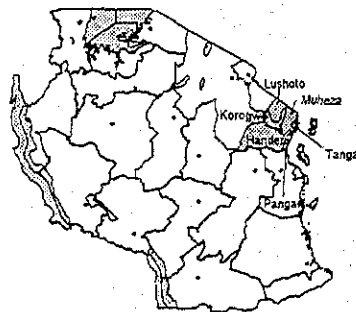
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REGIONAL IRRIGATION PROFILE				REGION NAME: TANGA		IRRIGATION									
SOCIO-ECONOMIC BACKGROUND				LAND USE		PRESENT CONDITION									
Administrative Profile <sup>1</sup>				Land Cover <sup>2</sup>		Handeni   Korogwe   Lushoto   Muheza   Pangani   Tanga   Total									
District	Area (km <sup>2</sup> )	Administrative Units			Area (1,000)	ha	%	Traditional Irrigation							
		Divisions	Wards	Villages				No. of Scheme							
Handeni	13,209	13	23	102	171.4	6.1	%	Existing Area (ha)							
Korogwe	3,756	4	20	132	1,322.6	47.4	%	Potential Area (ha)							
Lushoto	3,500	8	32	137	618.1	22.1	%	Water harvesting							
Muheza	4,922	6	27	140	313.9	11.2	%	No. of Scheme							
Pangani	1,425	2	13	23	356.8	12.8	%	Existing Area (ha)							
Tanga	536	4	21	23	0.2	0.0	%	Potential Area (ha)							
TOTAL	27,348	37	136	537	1.5	0.1	%	Modern Irrigation							
					8.8	0.3	%	No. of Scheme							
					2,795.2	100.0	%	Existing Area (ha)							
					219			Potential Area (ha)							
								Improved Traditional Irrigation							
								No. of Scheme							
								Existing Area (ha)							
								Potential Area (ha)							
								Total							
								No. of Scheme							
								Existing Area (ha)							
								Potential Area (ha)							
Population <sup>1,2,3</sup>				Major Food Crops (1999/2000) <sup>4</sup>		FUTURE PLAN									
Population (1988 Census)	1,280,262	persons	Crop			Handeni   Korogwe   Lushoto   Muheza   Pangani   Tanga   Total									
Population (2002 Projection)	1,809,000	persons *	Cultivated Area (1,000)	Production (1,000)	Unit Yield	On-going									
Population (2017 Projection)	2,853,000	persons *	ha	ton	ton/ha	No. of Scheme									
Population Density (2017 Proj.)	104.3	persons /km <sup>2</sup>				Potential Area (ha)									
Population Growth Rate	3.08	%				A Group									
Nos of Farm Household	261,125	Nos				No. of Scheme									
						Potential Area (ha)									
						B Group									
						No. of Scheme									
						Potential Area (ha)									
						C Group									
						No. of Scheme									
						Potential Area (ha)									
						D Group									
						No. of Scheme									
						Potential Area (ha)									
						E Group									
						No. of Scheme									
						Potential Area (ha)									
						Excluded									
						No. of Scheme									
						Potential Area (ha)									
						Total									
						No. of Scheme									
						Potential Area (ha)									
						Total									
						No. of Scheme									
						Potential Area (ha)									
						Total									
						No. of Scheme									
						Potential Area (ha)									
GDP <sup>5</sup>				Number of Livestock (1998) <sup>6</sup>		On-going									
RGDP (1994)	92,821	Tsh Mil.	Nos (1,000)			No. of Scheme									
(US\$1.0=Tsh553.0)	168	US\$ Mil.	Total Cattle	632	4.8	%	Potential Area (ha)								
Per Capita RGDP (1994)	60,021	Tsh	Total Goats	258	2.3	%	A Group								
	109	US\$	Total Sheep	109	3.1	%	No. of Scheme								
	5	Ranking					Potential Area (ha)								
	5.52	%					B Group								
	7	Ranking					No. of Scheme								
							Potential Area (ha)								
Food Supply Self Sufficient Ratios (SSR) (2001/02) <sup>7</sup>				Estimated Rice Demand-Production Balance in 2017		C Group									
Cereals				Demand		No. of Scheme									
Production	202,442	ton	66,200 ton		Potential Area (ha)										
Requirement	250,604	ton	Production		No. of Scheme										
SSR	80.8	%	65,701 ton		Potential Area (ha)										
Non-cereals				Balance		C Group									
Production	224,785	ton	-500 ton		No. of Scheme										
Requirement	164,237	ton			Potential Area (ha)										
SSR	136.9	%			D Group										
Total Food						No. of Scheme									
Production	427,227	ton			Potential Area (ha)										
Requirement	414,841	ton			E Group										
SSR	103.0	%			No. of Scheme										
Poverty Index <sup>4</sup>						Potential Area (ha)									
Food Poverty (Total)	0.1142	%	14	Ranking	Excluded										
Food Poverty (Urban)	0.0882	%	12	Ranking	No. of Scheme										
Food Poverty (Rural)	0.1162	%	14	Ranking	Potential Area (ha)										
BHN Poverty (Total)	0.3648	%	11	Ranking	Total										
BHN Poverty (Urban)	0.1880	%	13	Ranking	No. of Scheme										
BHN Poverty (Rural)	0.3789	%	11	Ranking	Potential Area (ha)										
Road Density <sup>1</sup>						Total									
	102	km/km <sup>2</sup>			No. of Scheme										
					Potential Area (ha)										



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