JAPAN INTERNATIONAL COOPERATION AGENCY (JICA)
MINISTRY OF FOOD AND AGRICULTURE MONGOLIA (MOFA)

THE MASTER PLAN STUDY ON INTEGRATED AGRICULTURAL AND RURAL DEVELOPMENT IN CENTRAL REGION IN THE MONGOLIA

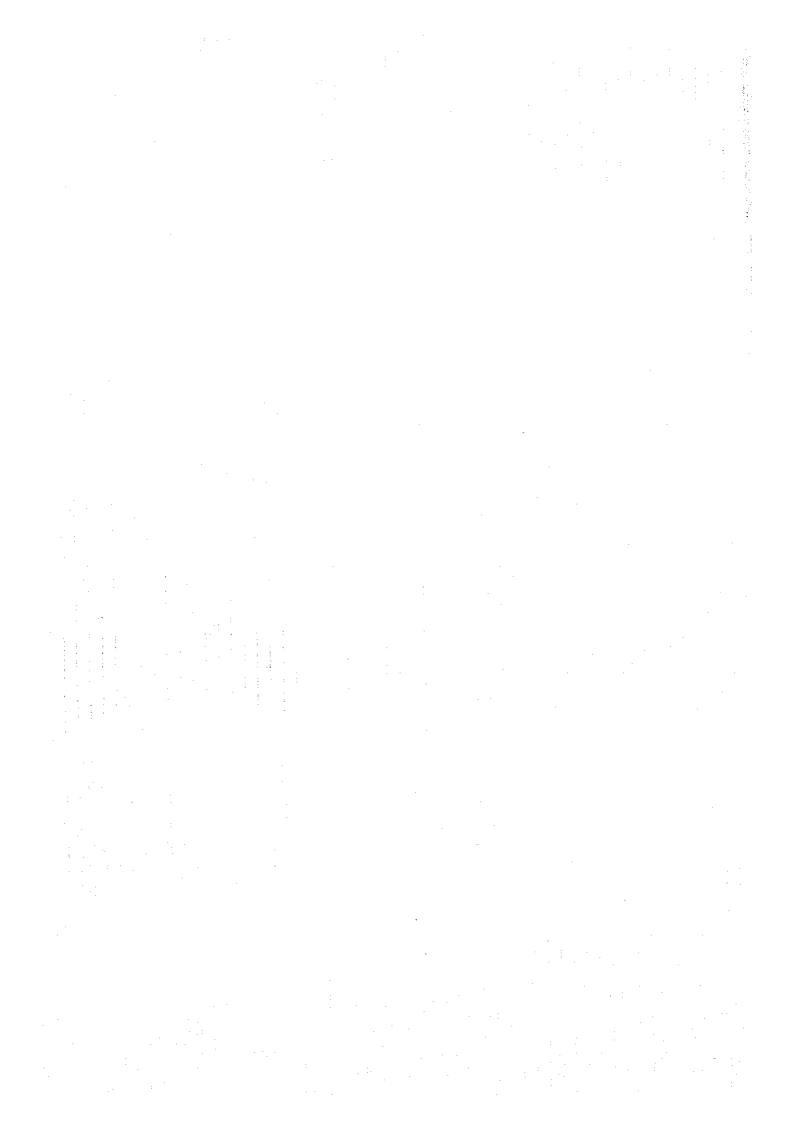
FINAL REPORT (SUPPLEMENTARY MATERIALS)

MARCH 1996



JAPAN AGRICULTURAL LAND DEVELOPMENT AGENCY (JALDA)

À	F	A	
		Ŗ	
9	6	6	6



1127469 (3)

CONTENTS

CHAPTER 1 INTRODUCTION

CHAPTER 2 BACKGROUND

•		
2.2 Present Econ	nomic Conditions	
Table 2.2.1	Movement of Exchange Rate	2-1
Table 2.2.2	GDP and Exchange Rate	2-2
Table 2.2.3	Domestic Income by Industry (1986 Currency Value)	2-2
Table 2.2.4	Domestic Income by Industry (Nominal Prices) · · · · · · · · · · · · · · · · · · ·	2-2
Table 2.2.5	Prices and Salary Income	2-2
Table 2.2.6	Agricultural Product Market Price Differential by Region · · · · · ·	2-3
Table 2.2.7	Household Average Income per Month and Composition · · · · · · · · · · · · · · · · · · ·	2-4
Table 2.2.8	Household Average Monetary Expenditure per Month and Composition · · ·	2-1
Table 2.2.9	Wages and Salaries Per capita in Aimag City	2-4
Table 2.2.10	Number of Unemployed Person By Region	2-5
Table 2.2.11	Number of Poor Household	2-5
Table 2.2.12	Monthly Income of Poor Household Group	2-5
Table 2.2.13	Offical Estimates of Poverty	2-5
Table 2.2.14	Number of Households Led by Widows	2-5
Table 2.2.15	Annual Average Number of Workers	2-5
Table 2.2.16	Misuel 2 for Ancarion to arrest to 111 mercanion	2-6
Table 2.2.17	External Trade , Foreign Exchange Reserves	2-6
Table 2.2.18	Price of Main Import Item	2-6
Table 2.2.19	Main Trading Countries	2-7
Table 2.2.20	Main Export Item	2-8
Table 2.2.21	Main Import Consumption Goods	2-8
CHAPTER 3 SITUA	TION	•
3.1.2 Climate		. :
Table 3.1.2.1	Average Monthly Temperature in Mongolia	3-1
Table 3.1.2.2	Rainfall Probability Calculation Table	3-2
Table 3.1.2.3	Monthly Average Number of Days of Rain in the Growing Season · · · ·	3-2
Table 3.1.2.4	Monthly Average Temperature	3-3
Table 3.1.2.5	Average Monthly Maximum Temperature	3-3
m.11. 0 1 0 £	Avenage Manthly Minimum Temperature	3-3

•	;			
	Table 3.1.2.7	Average Monthly Temperature in the Growing Season · · · · · · · · ·	3-4	
	Table 3.1.2.8	Average Monthly Maximum Temperature in the Growing Season	3-4	
	Table 3.1.2.9	Average Monthly Minimum Temperature in the Growing Season · · · · ·	3-4	
	Table 3.1.2.10	Average Annual Wind Vane	3-5	
	Table 3.1.2.11	Maximum Wind Speed Probability	3-5	
	Table 3.1.2.12	Humidity During the Growing Season	3-5	
	Table 3.1.2.13	Hours of Sunlight	3-6	
	Table 3.1.2.14	Hours of Sunlight in the Growing Season	3-6	
	Table 3.1.2.15	Days of Snowfall	3-7	
	Table 3.1.2.16	Evaporation Volume	3-8	
	Table 3.1.2.17	Monthly Ave. Min. Temperature at Eroo Meteorological Observatory · · ·	3-9	
	Table 3.1.2.18	Monthly Ave. Max. Temperature at Eroo Meteorological Observatory · ·	3-10	
	Table 3.1.2.19	Monthly Average Soil Temperature	3-11	
	Table 3.1.2.20	Central Region Meteorological Observatory Table	3-18	-
	Table 3.1.2.21	Meteorological Data Collection Table	3-19	
	Figure 3.1.2.1	Average Annual Rainfall at Baruunharaa	3-20	-
	Figure 3.1.2.2	Average Annual Rainfall at Bulgan	3-20	
	Figure 3.1.2.3	Average Annual Rainfall at Ulaanbaatar	3-20	
	Figure 3.1.2.4	Average Annual Rainfall at Arvaikheer	3-20	
	Figure 3.1.2.5	Average Temperatures at Baruunharaa	3-21	
	Figure 3.1.2.6	Average Temperatures at Ulaanbaatar	3-21	
÷	Figure 3.1.2.7	Average Temperatures at Arvaikheer	3-21	e e e e e e e e e e e e e e e e e e e
			3-21	
	Figure 3.1.2.9	Monthly Average Temperature	3-22	
	Figure 3.1.2.10	Monthly Average Soil Temperature	3-23	
	Figure 3.1.2.11	Location of Meteorological Observation Stations	3-27	
				•
	3.1.3 Hydrology		•	
	Table 3.1.3.1	Numbers of Rivers, Lakes, and Springs in Mongolia · · · · · · · · · · · · · · · · · · ·		
	Table 3.1.3.2	Monthly Ave. Discharge in the Study Area		
	Table 3.1.3.3	Monthly Ave. Discharge in the Study Area During the Growing Season · ·		
	Table 3.1.3.4	Flood/Drought Probability and Discharge Calculation Table		
	Table 3.1.3.5		3-34	
1	Table 3.1.3.6		3-35	
	Table 3.1.3.7		3-35	
	Table 3.1.3.8		3-36	
	Table 3.1.3.9		3-43	
	Table 3.1.3.10		3-48	
	Table 3.1.3.11	Comparison With Results of Past Water Quality Studies	3-50	
				•

	Dings 0 4 0 4 Annua Wanthly O Annual Dischange	3_52
	Figure 3.1.3.1 Average Monthly & Annual Discharge	
	Figure 3.1.3.2 Average Discharge (+) Average Rainfall	
	Figure 3.1.3.3 Water Content Observation Location Map	
	Figure 3.1.3.4 River System Map	
÷	Figure 3.1.3.5 Water Quality Study Sampling Location Map	3-65
	3.1.4 Topography and Soils	
•	3.1.4.1 Soil in Mongolia	•
	Table 3.1.4.1 The Per Cent of Soils Distributing in Mongolia	3-69
	Table 3.1.4.2 Characteristics of the Soils distributing in the Study Region · · · ·	3-71
	Table 3.1.4.3 Soil Sampling Sites	3-72
٠	Figure 3.1.4.1 Soils Distributing in Mongolia	3-70
:	Figure 3.1.4.2 Soils distributing in the Study Region · · · · · · · · · · · · · · · · · · ·	3-70
	Figure 3.1.4.3 Soil Sampling Sites · · · · · · · · · · · · · · · · · · ·	3-73
	3.2 Environment	٠
	Figure 3.2.1 Organizational Structure of the HNE · · · · · · · · · · · · · · · · · · ·	3-74
: :	Figure 3.2.2 National Nature Protection	3 - 75
	3.3 Agricultural Policies	9.3
	3.3.1 Action Program of the Government of Mongolia	
	Table 3.3.1.1 Prediction of Population by Aimag in 2010	3-77
	Figure 3.3.1.1 Trends of Total Population in Mongolia	3-78
	3.3.2 National Programme the Population's Food Supply	
	3.3.2.1 Foodstuff Demand Forecast	
	Table 3.3.2.1 Foodstuffs Consumption per Capita	3-79
	Table 3.3.2.2 Nutritional Norms by Zone · · · · · · · · · · · · · · · · · · ·	3-80
	Table 3.3.2.3 Coefficient of Conversion to Average Population · · · · · · · · · · · · · · · · · · ·	3-80
	Table 3.3.2.4 Projected Food Consumption per Capita by Aimag	3-81
	Table 3.3.2.5 Projected Food Consumption by Aimag	3-82
	Figure 3.3.2.1 Ratio of Calorie Supply of P,F and C · · · · · · · · · · · · · · · · · ·	3-83
	3.4 Foundation of Agricultural Economy	
	3.4.2 Agricultural Production	
	Table 3.4.2.1 Area of Grain Growing Land in the Study Area · · · · · · · · · · · · · · · · · · ·	3-84
	Table 3.4.2.2 Unit Grain Yields in the Study Area	3-84
	Table 3.4.2.3 Area of Wheat Growing Land in the Study Area	3-85
	Table 3.4.2.4 Unit Wheat Yields in the Study Area	

	Table 3.4.2.5	Area of Potato Growing Land in the Study Area 3-86	
	Table 3.4.2.6	Unit Potato Yields in the Study Area	
	Table 3.4.2.7	Area of Podder Crops Growing and Production in the Study Area · · · · 3-87	
	Table 3.4.2.8	Area of Vegetable Growing Land in the Study Area	
	Table 3.4.2.9	Unit Vegetable Yields in the Study Area 3-88	
	Table 3.4.2.10	Area of Fruit Growing Land and Total Production in the Study Area · · · 3-89	
	Table 3.4.2.11	Areas of Land Used to Grow All Vegetables in the Study Area · · · · 3-90	
	Table 3.4.2.12	Unit Yield of Main Vegetables in the Study Area 3-90	
		Composition of Farm Companies by Holding Share Size	
•		Number of Farm Companies by Arable of Land Size · · · · · · · 3-92	
		Number of Farm Companies by Agricultural Machineries Owned 3-93	
		Agricultural Machinery & Equipment by using years 3-94	
		Number of Farm Companies by Borrowed Loan Size 3-95	
		Number of Farm Companies by Employee Size 3-96	÷
	Table 3.4.2.19	Number of Employee Structure by Age 3-96	
	3.4.2.1 Present	State of Irrigated Areas	
÷,	Table 3.4.2.20	Irrigated Areas 3-97	
	Table 3.4.2.21	Mechanical Irrigation Facilities in the Study Area	1 .
	Table 3.4.2.22	Specifications of Irrigation Facilities in the Study Area 3-115	
	Table 3.4.2.23	Index for Wheat Farm management in 1993 3-116	
	Table 3.4.2.24	Index for Vegetable Farm management in 1993	
	3.4.3 Livestock	Production	
	3.4.3.1 Producti	vity of Natural Grasslands in Mongolia	
	Table 3.4.3.1	Classification of Natural Grassland in the Study Region 3-120	
	Table 3.4.3.2	Feed Balance in the Study Area	
	Table 3.4.3.3	Feed Balance by Aimag in the Study Area	
	Table 3.4.3.4	Conversion Rate of Fodder Unit	
	Table 3.4.3.5	Nutrient Analyses of Roughage 3-123	
	Table 3.4.3.6	Livestock Numbers in Mongolia 3-124	
	Table 3.4.3.7	Livestock Numbers in the Study Area	
	Table 3.4.3.8	Change of Private Livestock Numbers in Mongolia 3-126	
	Table 3.4.3.9	Reproduction and Culling Data for Mongolian Livestock	
	Table 3.4.3.10	Survival Rate of Younglings 3-127	
:	Table 3.4.3.11	Average Rate of Youngling Survivals Per 100 Female Stock · · · · · 3-128	
-	Table 3.4.3.12	Outline of Mechanized Dairy Farms in the Study Area 3-129	
	Table 3.4.3.13	Numbers of Nomadic Households and Age Composition of Nomads · · · · 3-130	
	4	Composition of Private Livestock Numbers by Nomadic Household · · · 3-130	

Table 3.4.3.15 Fodder Production in the Study Area 3-132 Table 3.4.3.16 Fodder Production in the Study Area 3-132 Table 3.4.3.17 Hay Harvesting and Yield per I Ha 3-134 Table 3.4.3.18 Productivity per Head of Livestock 3-135 Table 3.4.3.20 Livestock Breeds in Morgolia 3-135 Table 3.4.3.21 Numbers of Livestock Shelter 3-138 Table 3.4.3.22 Change of Livestock Shelter 3-139 Table 3.4.3.23 Outline of Dairy Farm Facilities 3-140 Table 3.4.3.25 Outline of Poultry Farm Facilities 3-141 Figure 3.4.3.1 Prode Balance by Aisag in the Study Area 3-121 Figure 3.4.3.2 Typical Life Cycle of Sheep 3-143 Figure 3.4.3.3 Typical Life Cycle of Sheep 3-144 Figure 3.4.3.4 Annual Work Schedule for a Monadic Mousehold 3-145 Figure 3.4.3.5 Seasonal Fluctuations of Livestock Body Weight 3-146 Figure 3.4.3.6 Seasonal Fluctuations of Livestock Body Weight 3-147 Figure 3.4.3.7 Locations of Feedmills, Haymaking Areas and SEFF Points 3-147			
Table 3.4.3.17 Hay Marvesting and Yield per 1 Ha 3-134 Table 3.4.3.18 Productivity per Hoad of Livestock 3-135 Table 3.4.3.20 Livestock Breeds and Productivity in Mongolia 3-136 Table 3.4.3.21 Numbers of Livestock Breeds and Productivity in Mongolia 3-136 Table 3.4.3.22 Change of Livestock Shelter 3-139 Table 3.4.3.23 Outline of Dairy Farm Facilities 3-140 Table 3.4.3.24 Outline of Pig Farm Facilities 3-140 Table 3.4.3.25 Outline of Poultry Farm Facilities 3-140 Table 3.4.3.25 Outline of Poultry Farm Facilities 3-141 Figure 3.4.3.1 Feed Balance by Aimag in the Study Area 3-121 Figure 3.4.3.2 Typical Life-Cycle of Cattle 3-142 Figure 3.4.3.3 Location Map of Big Farm and Processing Plant in the Study Area 3-143 Figure 3.4.3.4 Locations of Feedmills, Haymaking Areas and SEFF Points 3-144 Figure 3.4.3.5 Seasonal Fluctuations of Livestock Mabers and Livestock Products 3-147 Figure 3.4.3.10 Model Type of Livestock Shelter 3-147 Figure 3.4.4.2 Outpu	Table	3.4.3.15	Fodder Production in Mongolia
Table 3.4.3.17 Hay Marvesting and Yield per 1 Ha 3-134 Table 3.4.3.18 Productivity per Hoad of Livestock 3-135 Table 3.4.3.20 Livestock Breeds and Productivity in Mongolia 3-136 Table 3.4.3.21 Numbers of Livestock Breeds and Productivity in Mongolia 3-136 Table 3.4.3.22 Change of Livestock Shelter 3-139 Table 3.4.3.23 Outline of Dairy Farm Facilities 3-140 Table 3.4.3.24 Outline of Pig Farm Facilities 3-140 Table 3.4.3.25 Outline of Poultry Farm Facilities 3-140 Table 3.4.3.25 Outline of Poultry Farm Facilities 3-141 Figure 3.4.3.1 Feed Balance by Aimag in the Study Area 3-121 Figure 3.4.3.2 Typical Life-Cycle of Cattle 3-142 Figure 3.4.3.3 Location Map of Big Farm and Processing Plant in the Study Area 3-143 Figure 3.4.3.4 Locations of Feedmills, Haymaking Areas and SEFF Points 3-144 Figure 3.4.3.5 Seasonal Fluctuations of Livestock Mabers and Livestock Products 3-147 Figure 3.4.3.10 Model Type of Livestock Shelter 3-147 Figure 3.4.4.2 Outpu	Table	3,4,3,16	Fodder Production in the Study Area
Table 3.4.3.18 Productivity per Head of Livestock 3-135 Table 3.4.3.29 Numbers of Livestock by Breeds in Mongolia 3-135 Table 3.4.3.20 Livestock Breeds and Productivity in Mongolia 3-136 Table 3.4.3.21 Numbers of Livestock Shelter 3-138 Table 3.4.3.22 Change of Livestock Shelter 3-139 Table 3.4.3.23 Outline of Poiry Farm Facilities 3-140 Table 3.4.3.24 Outline of Poiry Farm Facilities 3-140 Table 3.4.3.25 Outline of Poultry Farm Facilities 3-141 Figure 3.4.3.3 Peed Balance by Aimag in the Study Area 3-121 Figure 3.4.3.1 Peed Balance by Aimag in the Study Area 3-142 Figure 3.4.3.2 Typical Life-Cycle of Cattle 3-142 Figure 3.4.3.3 Typical Life-Cycle of Cattle 3-144 Figure 3.4.3.4 Location Map of Big Farm and Processing Plant in the Study Area 3-144 Figure 3.4.3.5 Annual Work Schedule for a Monadic Household 3-145 Figure 3.4.3.6 Seasonal Fluctuations of Livestock Body Weight 3-146 Figure 3.4.3.7 Locations of Feedmills, Haymaking Areas and SEFF Points 3-147 Figure 3.4.3.8 Distribution of May by SEFF 3-147 Figure 3.4.3.9 Flow-chart of Livestock Numbers and Livestock Products 3-148 Figure 3.4.3.10 Model Type of Livestock Shelter 3-149 3.4.4 Processing and Marketing of Farm Products 3-151 Table 3.4.4.1 Output of Main Agricultural Products 3-152 Table 3.4.4.2 Output of Main Agricultural Products 3-152 Table 3.4.4.3 State Procurement Price of Agricultural Products 3-153 Table 3.4.4.4 Retail Price of Main Foodstuffs at the Free Market 3-154 Table 3.4.4.5 Agricultural Commodities Market Price 3-155 Table 3.4.4.6 Estimation of Recommodities Market Price 3-158 Table 3.4.4.7 Nain Import Commodities Market Price 3-168 Table 3.4.4.8 Nain Export Commodities Market Price 3-168 Table 3.4.4.10 Export Open Main Food Company in the Study Area 3-163 Table 3.4.4.10 Export Commodities Market Price 3-166 Figure 3.4.4.11 Export Journal Filos Study Area 3-166 Figure 3.4.4.11 Export Journal Filos Study Area 3-167 Figure 3.4.4.11 Export Journal Filos Study Area 3-166 Figure 3.4.4.11 Export Journal Filos Study Area 3-166 Figure 3.4.4.11 Exp			
Table 3.4.3.19 Numbers of Livestock by Breeds in Mongolia 3-135 Table 3.4.3.20 Livestock Breeds and Productivity in Mongolia 3-136 Table 3.4.3.21 Numbers of Livestock Shelter 3-138 Table 3.4.3.22 Change of Livestock Shelter 3-139 Table 3.4.3.23 Outline of Pig Farm Facilities 3-140 Table 3.4.3.24 Outline of Poultry Farm Facilities 3-141 Figure 3.4.3.1 Feed Balance by Aimag in the Study Area 3-121 Figure 3.4.3.2 Typical Life-Cycle of Cattle 3-142 Figure 3.4.3.3 Typical Life-Cycle of Sheep 3-143 Figure 3.4.3.4 Location Map of Big Farm and Processing Plant in the Study Area 3-144 Figure 3.4.3.5 Annual Work Schedule for a Momadic Mousehold 3-145 Figure 3.4.3.6 Seasonal Fluctuations of Livestock Body Meight 3-146 Figure 3.4.3.7 Locations of Feedmills, Haymaking Areas and SEFF Points 3-147 Figure 3.4.3.8 Distribution of May by SEFF 3-147 Figure 3.4.3.9 Flow-chart of Livestock Numbers and Livestock Products 3-148 Figure 3.4.4.1 Output of Certain Cate			
Table 3.4.3.20 Livestock Breeds and Productivity in Mongolia 3-138 Table 3.4.3.21 Numbers of Livestock Shelter 3-138 Table 3.4.3.22 Change of Livestock Shelter 3-139 Table 3.4.3.23 Outline of Dairy Farm Facilities 3-140 Table 3.4.3.24 Outline of Pig Farm Facilities 3-140 Table 3.4.3.25 Outline of Poultry Farm Facilities 3-141 Figure 3.4.3.2 Typical Life-Cycle of Cattle 3-142 Figure 3.4.3.3 Typical Life-Cycle of Sheep 3-143 Figure 3.4.3.4 Location Map of Big Farm and Processing Plant in the Study Area 3-144 Figure 3.4.3.5 Annual Work Schedule for a Nomadic Household 3-145 Figure 3.4.3.6 Seasonal Fluctuations of Livestock Body Weight 3-146 Figure 3.4.3.7 Locations of Feedmills, Haymaking Areas and SEFF Points 3-147 Figure 3.4.3.8 Bistribution of May by SEFF 3-147 Figure 3.4.3.9 Flow-chart of Livestock Numbers and Livestock Products 3-148 Figure 3.4.3.10 Model Type of Livestock Shelter 3-149 3.4.4 Processing and Marketing of Farm Products			
Table 3.4.3.21 Numbers of Livestock Shelter 3-138 Table 3.4.3.22 Change of Livestock Shelter 3-139 Table 3.4.3.23 Outline of Dairy Farm Facilities 3-140 Table 3.4.3.25 Outline of Pig Farm Facilities 3-140 Table 3.4.3.25 Outline of Pig Farm Facilities 3-141 Figure 3.4.3.1 Peed Balance by Aimag in the Study Area 3-141 Figure 3.4.3.2 Typical Life-Cycle of Cattle 3-142 Figure 3.4.3.3 Typical Life-Cycle of Sheep 3-143 Figure 3.4.3.4 Location Map of Big Farm and Processing Plant in the Study Area 3-144 Figure 3.4.3.5 Annual Work Schedule for a Nomadic Household 3-145 Figure 3.4.3.6 Seasonal Fluctuations of Livestock Body Weight 3-146 Figure 3.4.3.7 Locations of Feedmills, Haymaking Areas and SEFF Points 3-147 Figure 3.4.3.8 Distribution of May by SEFF 3-147 Figure 3.4.3.9 Flow-chart of Livestock Numbers and Livestock Products 3-148 Figure 3.4.3.10 Nodel Type of Livestock Shelter 3-149 3.4.4 Processing and Marketing of Farm Products Table 3.4.4.1 Output of Main Agricultural Products Table 3.4.4.2 Output of Certain Categories of Agricultural Products 3-152 Table 3.4.4.3 State Procurement Price of Agricultural Products 3-153 Table 3.4.4.4 Retail Price of Main Foodstuffs at the Free Market 3-155 Table 3.4.4.5 Agricultural Commodities Market Price 3-158 Table 3.4.4.7 Nain Insport Commodities Market Price 3-158 Table 3.4.4.8 Main Export Commodities Market Price 3-158 Table 3.4.4.9 Main Export Commodities Market Price 3-160 Table 3.4.4.10 Lipe of Main Food Company in the Study Area 3-163 Table 3.4.4.10 Lipe of Main Food Company in the Study Area 3-163 Table 3.4.4.10 Untline of Main Food Company in the Study Area 3-163 Table 3.4.4.11 Change of Milk Production of Main Plants 3-167 Figure 3.4.4.11 Change of Milk Production of Main Plants 3-166 Figure 3.4.4.14 Change of Milk Production of Main Plants 3-167			· · · · · · · · · · · · · · · · · · ·
Table 3.4.3.22 Change of Livestock Shelter 3-139 Table 3.4.3.23 Outline of Dairy Farm Facilities 3-140 Table 3.4.3.24 Outline of Pig Farm Facilities 3-140 Table 3.4.3.25 Outline of Poultry Farm Facilities 3-141 Figure 3.4.3.3 Typical Life-Cycle of Cattle 3-121 Figure 3.4.3.3 Typical Life-Cycle of Sheep 3-143 Figure 3.4.3.4 Location Map of Big Farm and Processing Plant in the Study Area 3-144 Figure 3.4.3.5 Annual Work Schedule for a Nomadic Mousehold 3-145 Figure 3.4.3.6 Seasonal Fluctuations of Livestock Body Weight 3-146 Figure 3.4.3.7 Locations of Feedmills, Haymaking Areas and SEFF Points 3-147 Figure 3.4.3.8 Distribution of May by SEFF 3-147 Figure 3.4.3.9 Flow-chart of Livestock Numbers and Livestock Products 3-147 Figure 3.4.3.10 Model Type of Livestock Shelter 3-149 3.4.4 Processing and Marketing of Farm Products 3-149 3.4.4 Output of Main Agricultural Products 3-151 Table 3.4.4.1 Output of Main Foodstuffs at the Free Market			
Table 3.4.3.23 Outline of Dairy Farm Facilities 3-140 Table 3.4.3.24 Outline of Pig Farm Facilities 3-140 Table 3.4.3.25 Outline of Poultry Farm Facilities 3-141 Figure 3.4.3.1 Feed Balance by Aimag in the Study Area 3-121 Figure 3.4.3.2 Typical Life-Cycle of Cattle 3-142 Figure 3.4.3.3 Typical Life-Cycle of Sheep 3-143 Figure 3.4.3.4 Location Map of Big Farm and Processing Plant in the Study Area 3-144 Figure 3.4.3.5 Annual Work Schedule for a Nomadic Mousehold 3-145 Figure 3.4.3.6 Seasonal Fluctuations of Livestock Body Weight 3-146 Figure 3.4.3.7 Locations of Peedmills, Haymaking Areas and SEFF Points 3-147 Figure 3.4.3.8 Distribution of May by SEFF 3-147 Figure 3.4.3.9 Flow-chart of Livestock Numbers and Livestock Products 3-148 Figure 3.4.3.10 Model Type of Livestock Shelter 3-149 3.4.4 Processing and Marketing of Farm Products 3-149 3.4.4 Processing and Marketing of Farm Products 3-153 Table 3.4.4.1 Output of Certain Categories of Agricultural Products 3-152 Table 3.4.4.	Table	3.4.3.22	Change of Livestock Shelter
Table 3.4.3.24 Outline of Pig Farm Facilities 3-140 Table 3.4.3.25 Outline of Poultry Farm Facilities 3-141 Figure 3.4.3.1 Feed Balance by Aimag in the Study Area 3-121 Figure 3.4.3.2 Typical Life-Cycle of Cattle 3-142 Figure 3.4.3.3 Typical Life-Cycle of Sheep 3-143 Figure 3.4.3.4 Location Map of Big Farm and Processing Plant in the Study Area 3-144 Figure 3.4.3.5 Annual Work Schedule for a Nomadic Mousehold 3-145 Figure 3.4.3.6 Seasonal Fluctuations of Livestock Body Weight 3-146 Figure 3.4.3.7 Locations of Feedmills, Haymaking Areas and SEFF Points 3-147 Figure 3.4.3.9 Plow-chart of Livestock Numbers and Livestock Products 3-147 Figure 3.4.3.10 Model Type of Livestock Shelter 3-148 Figure 3.4.3.10 Model Type of Livestock Shelter 3-149 3.4.4 Processing and Marketing of Farm Products 3-149 3.4.4 Processing and Marketing of Farm Products 3-151 Table 3.4.4.1 Output of Certain Categories of Agricultural Products 3-152 Table 3.4.4.2 Output of Certain Categories of Agricultural Products 3-153 <t< td=""><td></td><td></td><td></td></t<>			
Table 3.4.3.25 Outline of Poultry Farm Facilities 3-141 Figure 3.4.3.1 Feed Balance by Aimag in the Study Area 3-121 Figure 3.4.3.2 Typical Life-Cycle of Cattle 3-142 Figure 3.4.3.3 Typical Life-Cycle of Sheep 3-143 Figure 3.4.3.4 Location Map of Big Farm and Processing Plant in the Study Area 3-144 Figure 3.4.3.5 Annual Work Schedule for a Nomadic Bousehold 3-145 Figure 3.4.3.6 Seasonal Fluctuations of Livestock Body Weight 3-146 Figure 3.4.3.7 Locations of Feedmills, Haymaking Areas and SEFF Points 3-147 Figure 3.4.3.8 Distribution of May by SEFF 3-147 Figure 3.4.3.9 Flow-chart of Livestock Numbers and Livestock Products 3-148 Figure 3.4.3.0 Kodel Type of Livestock Shelter 3-149 3.4.4 Processing and Marketing of Farm Products 3-149 3.4.4 Processing and Marketing of Farm Products 3-151 Table 3.4.4.1 Output of Certain Categories of Agricultural Products 3-152 Table 3.4.4.2 Output of Certain Categories of Agricultural Products 3-153 Table 3.4.4.3 State Procurement Price of Agr	Table	3.4.3.24	Outline of Pig Farm Facilities · · · · · · · · · · · · · · · · · · ·
Figure 3.4.3.1 Feed Balance by Aimag in the Study Area 3-121 Figure 3.4.3.2 Typical Life-Cycle of Cattle 3-142 Figure 3.4.3.3 Typical Life-Cycle of Sheep 3-143 Figure 3.4.3.4 Location Map of Big Farm and Processing Plant in the Study Area 3-144 Figure 3.4.3.5 Annual Work Schedule for a Nomadic Mousehold 3-145 Figure 3.4.3.6 Seasonal Fluctuations of Livestock Body Weight 3-146 Figure 3.4.3.7 Locations of Feedmills, Haymaking Areas and SEFF Points 3-147 Figure 3.4.3.8 Distribution of May by SEFF 3-147 Figure 3.4.3.9 Flow-chart of Livestock Numbers and Livestock Products 3-148 Figure 3.4.3.10 Model Type of Livestock Shelter 3-149 3.4.4 Processing and Marketing of Farm Products Table 3.4.4.1 Output of Main Agricultural Products Table 3.4.4.2 Output of Certain Categories of Agricultural Products 3-152 Table 3.4.4.3 State Procurement Price of Agricultural Products 3-153 Table 3.4.4.4 Retail Price of Hain Foodstuffs at the Free Market 3-154 Table 3.4.4.5 Agricultural Commodities Ansket Price 3-155 Table 3.4.4.7 Main Import Commodities 3-158 Table 3.4.4.8 Main Export Commodities 3-159 Table 3.4.4.9 Main Export Commodities 3-160 Table 3.4.4.10 Outline of Main Food Company in the Study Area 3-163 Table 3.4.4.11 Outline of Main Food Company in the Study Area 3-164 Table 3.4.4.12 Outline of Vegetable Storage Companies in Ulaanbaatar 3-164 Table 3.4.4.13 Meat Storage Plants in the Study Area 3-165 Table 3.4.4.14 Change of Milk Production of Main Plants 3-166 Figure 3.4.4.1 Export-Import Flour 3-167	Table	3.4.3.25	Outline of Poultry Farm Facilities
Figure 3.4.3.2 Typical Life-Cycle of Cattle Figure 3.4.3.3 Typical Life-Cycle of Sheep 3-143 Figure 3.4.3.4 Location Map of Big Farm and Processing Plant in the Study Area 3-144 Figure 3.4.3.5 Annual Work Schedule for a Nomadic Mousehold 3-145 Figure 3.4.3.6 Seasonal Fluctuations of Livestock Body Weight 3-146 Figure 3.4.3.7 Locations of Feedmills, Haymaking Areas and SEFF Foints 3-147 Figure 3.4.3.8 Distribution of Hay by SEFF 3-147 Figure 3.4.3.9 Flow-chart of Livestock Numbers and Livestock Products 3-148 Figure 3.4.3.10 Model Type of Livestock Shelter 3-149 3.4.4 Processing and Marketing of Farm Products Table 3.4.4.1 Output of Main Agricultural Products Table 3.4.4.2 Output of Certain Categories of Agricultural Products 3-152 Table 3.4.4.4 Retail Price of Main Foodstuffs at the Free Market 3-154 Table 3.4.4.5 Agricultural Commodities Market Price 3-155 Table 3.4.4.6 Estimation of Economic Prices 3-156 Table 3.4.4.7 Main Import Commodities Table 3.4.4.9 Main Export Commodities(1) 3-160 Table 3.4.4.10 Export by Countries 3-162 Table 3.4.4.11 Outline of Main Food Company in the Study Area 3-163 Table 3.4.4.11 Outline of Main Food Company in the Study Area 3-165 Table 3.4.4.11 Change of Milk Production of Main Plants 3-166 Figure 3.4.4.11 Export-Import Flour 3-167	Figur	e 3.4.3.1	Feed Balance by Aimag in the Study Area 3-121
Figure 3.4.3.3 Typical Life-Cycle of Sheep Figure 3.4.3.4 Location Map of Big Farm and Processing Plant in the Study Area 3-144 Figure 3.4.3.5 Annual Work Schedule for a Nomadic Mousehold Figure 3.4.3.6 Seasonal Fluctuations of Livestock Body Weight 3-146 Figure 3.4.3.7 Locations of Feedmills, Haymaking Areas and SEFF Points 7-147 Figure 3.4.3.8 Distribution of May by SEFF 7-147 Figure 3.4.3.9 Flow-chart of Livestock Numbers and Livestock Products 7-148 Figure 3.4.3.10 Model Type of Livestock Shelter 3-149 3.4.4 Processing and Marketing of Farm Products Table 3.4.4.1 Output of Main Agricultural Products Table 3.4.4.2 Output of Certain Categories of Agricultural Products Table 3.4.4.3 State Procurement Price of Agricultural Products Table 3.4.4.4 Retail Price of Main Foodstuffs at the Free Market 3-153 Table 3.4.4.5 Agricultural Commodities' Market Price 3-155 Table 3.4.4.6 Estimation of Economic Prices 3-158 Table 3.4.4.7 Main Import Commodities Table 3.4.4.8 Main Export Commodities(2) 3-160 Table 3.4.4.10 Export by Countries 3-162 Table 3.4.4.11 Outline of Main Food Company in the Study Area 3-163 Table 3.4.4.12 Outline of Vegetable Storage Companies in Ulaanbaatar 3-164 Table 3.4.4.13 Meat Storage Plants in the Study Area 3-165 Table 3.4.4.1 Charge of Milk Production of Main Plants 3-167	Figur	e 3.4.3.2	Typical Life-Cycle of Cattle
Figure 3.4.3.4 Location Map of Big Farm and Processing Plant in the Study Area 3-144 Figure 3.4.3.5 Annual Work Schedule for a Nomadic Household 3-145 Figure 3.4.3.6 Seasonal Fluctuations of Livestock Body Weight 3-146 Figure 3.4.3.7 Locations of Feedmills, Haymaking Areas and SEFF Points 3-147 Figure 3.4.3.8 Distribution of Hay by SEFF 3-147 Figure 3.4.3.9 Flow-chart of Livestock Numbers and Livestock Products 3-148 Figure 3.4.3.10 Model Type of Livestock Shelter 3-149 3.4.4 Processing and Marketing of Farm Products 3-149 3.4.4 Processing and Marketing of Farm Products 3-151 Table 3.4.4.1 Output of Certain Categories of Agricultural Products 3-152 Table 3.4.4.2 Output of Certain Categories of Agricultural Products 3-153 Table 3.4.4.3 State Procurement Price of Agricultural Products 3-153 Table 3.4.4.4 Retail Price of Main Foodstuffs at the Free Market 3-154 Table 3.4.4.5 Agricultural Commodities' Market Price 3-155 Table 3.4.4.6 Estimation of Economic Prices 3-158	Figur	e 3.4.3.3	Typical Life-Cycle of Sheep · · · · · · · · · · · · · · · · · ·
Figure 3.4.3.5 Annual Work Schedule for a Nomadic Household 3-145 Figure 3.4.3.6 Seasonal Fluctuations of Livestock Body Weight 3-146 Figure 3.4.3.7 Locations of Feedmills, Haymaking Areas and SEFF Points 3-147 Figure 3.4.3.8 Distribution of Hay by SEFF 3-147 Figure 3.4.3.9 Flow-chart of Livestock Numbers and Livestock Products 3-148 Figure 3.4.3.10 Model Type of Livestock Shelter 3-149 3.4.4 Processing and Marketing of Farm Products Table 3.4.4.1 Output of Main Agricultural Products 3-151 Table 3.4.4.2 Output of Certain Categories of Agricultural Products 3-152 Table 3.4.4.3 State Procurement Price of Agricultural Products 3-153 Table 3.4.4.4 Retail Price of Main Foodstuffs at the Free Market 3-154 Table 3.4.4.5 Agricultural Commodities' Market Price 3-155 Table 3.4.4.6 Estimation of Economic Prices 3-168 Table 3.4.4.7 Main Import Commodities 3-169 Table 3.4.4.8 Main Export Commodities(1) 3-160 Table 3.4.4.10 Export by Countries 3-162 Table 3.4.4.11 Outline of Main Food Company in the Study Area 3-163 Table 3.4.4.13 Meat Storage Plants in the Study Area 3-165 Figure 3.4.4.11 Export-Import Flour 3-167			
Figure 3.4.3.6 Seasonal Fluctuations of Livestock Body Weight 3-146 Figure 3.4.3.7 Locations of Feedmills, Haymaking Areas and SEFF Points 3-147 Figure 3.4.3.8 Distribution of May by SEFF 3-147 Figure 3.4.3.9 Flow-chart of Livestock Numbers and Livestock Products 3-148 Figure 3.4.3.10 Model Type of Livestock Shelter 3-149 3.4.4 Processing and Marketing of Farm Products 3-149 3.4.4 Processing and Marketing of Farm Products 3-151 Table 3.4.4.1 Output of Main Agricultural Products 3-151 Table 3.4.4.2 Output of Certain Categories of Agricultural Products 3-152 Table 3.4.4.3 State Procurement Price of Agricultural Products 3-153 Table 3.4.4.4 Retail Price of Main Foodstuffs at the Free Market 3-154 Table 3.4.4.5 Agricultural Commodities' Market Price 3-155 Table 3.4.4.6 Estimation of Economic Prices 3-158 Table 3.4.4.7 Main Export Commodities' Market Price 3-169 Table 3.4.4.9 Main Export Commodities(2) 3-161 Table 3.4.4.10 Export by Countries 3-162			
Figure 3.4.3.7 Locations of Feedmills, Haymaking Areas and SEFF Points 3-147 Figure 3.4.3.8 Distribution of May by SEFF 3-147 Figure 3.4.3.9 Flow-chart of Livestock Numbers and Livestock Products 3-148 Figure 3.4.3.10 Model Type of Livestock Shelter 3-149 3.4.4 Processing and Marketing of Farm Products 3-149 3.4.4 Processing and Marketing of Farm Products 3-151 Table 3.4.4.1 Output of Certain Categories of Agricultural Products 3-152 Table 3.4.4.2 Output of Certain Categories of Agricultural Products 3-153 Table 3.4.4.3 State Procurement Price of Agricultural Products 3-153 Table 3.4.4.4 Retail Price of Main Foodstuffs at the Free Market 3-154 Table 3.4.4.5 Agricultural Commodities' Market Price 3-155 Table 3.4.4.6 Estimation of Economic Prices 3-158 Table 3.4.4.7 Main Import Commodities (1) 3-160 Table 3.4.4.8 Main Export Commodities(2) 3-161 Table 3.4.4.10 Export by Countries 3-162 Table 3.4.4.11 Outline of Main Food Company in the Study Area 3-163	Figur	e 3.4.3.6	Seasonal Fluctuations of Livestock Body Weight
Figure 3.4.3.8 Distribution of May by SEFF Figure 3.4.3.9 Flow-chart of Livestock Numbers and Livestock Products Figure 3.4.3.10 Model Type of Livestock Shelter 3.149 3.4.4 Processing and Marketing of Farm Products Table 3.4.4.1 Output of Main Agricultural Products Table 3.4.4.2 Output of Certain Categories of Agricultural Products 3.152 Table 3.4.4.3 State Procurement Price of Agricultural Products 3.153 Table 3.4.4.4 Retail Price of Main Foodstuffs at the Free Market 3.154 Table 3.4.4.5 Agricultural Commodities' Market Price 3.155 Table 3.4.4.6 Estimation of Economic Prices 3.158 Table 3.4.4.7 Hain Import Commodities 3.169 Table 3.4.4.8 Main Export Commodities(1) 3.160 Table 3.4.4.9 Main Export Commodities(2) 3.161 Table 3.4.4.10 Cutline of Main Food Company in the Study Area 3.163 Table 3.4.4.12 Outline of Vegetable Storage Companies in Ulaanbaatar 3.165 Table 3.4.4.14 Change of Milk Production of Main Plants 3.167			
Figure 3.4.3.9 Flow-chart of Livestock Numbers and Livestock Products Figure 3.4.3.10 Model Type of Livestock Shelter			
Figure 3.4.3.10 Model Type of Livestock Shelter 3-149 3.4.4 Processing and Marketing of Farm Products Table 3.4.4.1 Output of Main Agricultural Products 3-151 Table 3.4.4.2 Output of Certain Categories of Agricultural Products 3-152 Table 3.4.4.3 State Procurement Price of Agricultural Products 3-153 Table 3.4.4.4 Retail Price of Main Foodstuffs at the Free Market 3-154 Table 3.4.4.5 Agricultural Commodities' Market Price 3-155 Table 3.4.4.6 Estimation of Economic Prices 3-158 Table 3.4.4.7 Main Import Commodities 3-159 Table 3.4.4.8 Main Export Commodities 3-159 Table 3.4.4.9 Main Export Commodities(1) 3-160 Table 3.4.4.10 Export by Countries 3-162 Table 3.4.4.11 Outline of Main Food Company in the Study Area 3-163 Table 3.4.4.12 Outline of Vegetable Storage Companies in Ulaanbaatar 3-164 Table 3.4.4.13 Meat Storage Plants in the Study Area 3-165 Table 3.4.4.14 Change of Milk Production of Main Plants 3-166 Figure 3.4.4.1 Export-Import Flour 3-167			
3.4.4 Processing and Marketing of Farm Products Table 3.4.4.1 Output of Main Agricultural Products	Figu	e 3.4.3.10	Model Type of Livestock Shelter 3-149
Table 3.4.4.1 Output of Main Agricultural Products 3-151 Table 3.4.4.2 Output of Certain Categories of Agricultural Products 3-152 Table 3.4.4.3 State Procurement Price of Agricultural Products 3-153 Table 3.4.4.4 Retail Price of Main Foodstuffs at the Free Market 3-154 Table 3.4.4.5 Agricultural Commodities' Market Price 3-155 Table 3.4.4.6 Estimation of Economic Prices 3-158 Table 3.4.4.7 Nain Import Commodities 3-159 Table 3.4.4.8 Main Export Commodities(1) 3-160 Table 3.4.4.9 Main Export Commodities(2) 3-161 Table 3.4.4.10 Export by Countries 3-162 Table 3.4.4.11 Outline of Main Food Company in the Study Area 3-163 Table 3.4.4.12 Meat Storage Plants in the Study Area 3-164 Table 3.4.4.13 Change of Milk Production of Main Plants 3-166 Figure 3.4.4.1 Export-Import Flour 3-167			
Table 3.4.4.1 Output of Main Agricultural Products 3-151 Table 3.4.4.2 Output of Certain Categories of Agricultural Products 3-152 Table 3.4.4.3 State Procurement Price of Agricultural Products 3-153 Table 3.4.4.4 Retail Price of Main Foodstuffs at the Free Market 3-154 Table 3.4.4.5 Agricultural Commodities' Market Price 3-155 Table 3.4.4.6 Estimation of Economic Prices 3-158 Table 3.4.4.7 Nain Import Commodities 3-159 Table 3.4.4.8 Main Export Commodities(1) 3-160 Table 3.4.4.9 Main Export Commodities(2) 3-161 Table 3.4.4.10 Export by Countries 3-162 Table 3.4.4.11 Outline of Main Food Company in the Study Area 3-163 Table 3.4.4.12 Meat Storage Plants in the Study Area 3-164 Table 3.4.4.13 Change of Nilk Production of Main Plants 3-166 Figure 3.4.4.1 Export-Import Flour 3-167	3.4.4	Processing	and Marketing of Farm Products
Table 3.4.4.2 Output of Certain Categories of Agricultural Products 3-152 Table 3.4.4.3 State Procurement Price of Agricultural Products 3-153 Table 3.4.4.4 Retail Price of Main Foodstuffs at the Free Market 3-154 Table 3.4.4.5 Agricultural Commodities' Market Price 3-155 Table 3.4.4.6 Estimation of Economic Prices 3-158 Table 3.4.4.7 Main Import Commodities 3-159 Table 3.4.4.8 Main Export Commodities 3-159 Table 3.4.4.9 Main Export Commodities(1) 3-160 Table 3.4.4.10 Export by Countries 3-161 Table 3.4.4.11 Outline of Main Food Company in the Study Area 3-163 Table 3.4.4.12 Outline of Vegetable Storage Companies in Ulaanbaatar 3-164 Table 3.4.4.13 Meat Storage Plants in the Study Area 3-165 Table 3.4.4.14 Change of Milk Production of Main Plants 3-166 Figure 3.4.4.1 Export-Import Flour 3-167			
Table 3.4.4.3 State Procurement Price of Agricultural Products	Table	3.4.4.2	
Table 3.4.4.4 Retail Price of Main Foodstuffs at the Free Market	Table	e 3.4.4.3	
Table 3.4.4.5 Agricultural Commodities' Market Price 3-155 Table 3.4.4.6 Estimation of Economic Prices 3-158 Table 3.4.4.7 Main Import Commodities 3-159 Table 3.4.4.8 Main Export Commodities(1) 3-160 Table 3.4.4.9 Main Export Commodities(2) 3-161 Table 3.4.4.10 Export by Countries 3-162 Table 3.4.4.11 Outline of Main Food Company in the Study Area 3-163 Table 3.4.4.12 Outline of Vegetable Storage Companies in Ulaanbaatar 3-164 Table 3.4.4.13 Meat Storage Plants in the Study Area 3-165 Table 3.4.4.14 Change of Milk Production of Main Plants 3-166 Figure 3.4.4.1 Export-Import Flour 3-167	Table	e 3.4.4.4	
Table 3.4.4.6 Estimation of Economic Prices 3-158 Table 3.4.4.7 Main Import Commodities 3-159 Table 3.4.4.8 Main Export Commodities(1) 3-160 Table 3.4.4.9 Main Export Commodities(2) 3-161 Table 3.4.4.10 Export by Countries 3-162 Table 3.4.4.11 Outline of Main Food Company in the Study Area 3-163 Table 3.4.4.12 Outline of Vegetable Storage Companies in Ulaanbaatar 3-164 Table 3.4.4.13 Meat Storage Plants in the Study Area 3-165 Table 3.4.4.14 Change of Milk Production of Main Plants 3-166 Figure 3.4.4.1 Export-Import Flour 3-167	Table	e 3.4.4.5	Agricultural Commodities' Market Price
Table 3.4.4.7 Main Import Commodities	Table	e 3.4.4.6	Estimation of Economic Prices
Table 3.4.4.9 Main Export Commodities(2)	Table	e 3.4.4.7	Main Import Commodities · · · · · · · · · · · · · · · · · · ·
Table 3.4.4.10 Export by Countries	Table	e 3.4.4.8	Main Export Commodities(1) · · · · · · · · · · · · · · · · · · ·
Table 3.4.4.11 Outline of Main Food Company in the Study Area	Table	e 3.4.4.9	Main Export Commodities(2) · · · · · · · · · · · · · · · · · · ·
Table 3.4.4.12 Outline of Vegetable Storage Companies in Ulaanbaatar · · · · · · 3-164 Table 3.4.4.13 Meat Storage Plants in the Study Area · · · · · · · · · · · · · · · · · · ·	Table	e 3.4.4.10	
Table 3.4.4.13 Meat Storage Plants in the Study Area	Table	e 3.4.4.11	Outline of Main Food Company in the Study Area 3-163
Table 3.4.4.14 Change of Nilk Production of Main Plants	Table	e 3.4.4.12	Outline of Vegetable Storage Companies in Ulaanbaatar · · · · · · · 3-164
Table 3.4.4.14 Change of Nilk Production of Main Plants	Tabl	e 3.4.4.13	
Figure 3.4.4.1 Export-Import Flour			Change of Nilk Production of Main Plants 3-166
Figure 3.4.4.2 Export-Import Wheat + Flour · · · · · · · · · · · · · · · · · · ·	Figu	re 3.4.4.1	Export-Import Flour
	Figu	re 3.4.4.2	Export-Import Wheat + Flour · · · · · · · · · · · · · · · · · · ·

	÷	
	Figure 3 4 4 3	Export-Import Meat
	_	Export-Import Wool
. :	· ·	Livestock Delivery Route to Meat Processing Plants 3-168
	-	Milk Collection and Delivery Route to UB Milk Plants 3-169
	118010 0.11.110	This correction and perivery leader to the mine Flance
	3.6 Infrastructu	ге
	Figure 3.6.1	Road Network in Mongolia · · · · · · · · · · · · · · · · · · ·
	CHAPTER 4 DEVELO	PYENT PLAN
	4.1.1.1 Analysis	of Development Potential · · · · · · · · · · · · · · · · · · ·
	4.3 Agricultural	Development Plan
	4.3.2 Land Use C	ropping Plan 4-12
i	Figure 4.3.2.1	Rotation Cropping System for Irrigated Land •••••• 4-13
	Figure 4.3.2.2	Rotation Cropping System for Non-irrigated Land 4-17
	4.3.4 Production	Base Improvement Plan
		on Development Plan · · · · · · · · · · · · · · · · · · ·
: :	Table 4.3.4.1	Selection of Irrigation Areas (Surveyed Areas) · · · · · · · · 4-23
	Table 4.3.4.2	Areas to be developed by 2000 and 2010 4-29
	Table 4.3.4.3	Selection of Irrigation Areas (Unsurveyed Areas) · · · · · · · · 4-35
		Farming Management Plan
		Aimag adoptable to Farm Management Patterns
:	1	Outline of Model Farm Management Plan by Farming Type 4-39
		Wheat Management · · · · · · · · · · · · · · · · · · ·
		Vegetable Management (Open field) · · · · · · · · · · · · · · · · 4-51
		Vegetable Management (Greenhouse) · · · · · · · · · · · · · · · · · 4-65
		Fruit Management 4-76
	Table 4.3.5.7	Potato Management · · · · · · · · · · · · · · · · · · ·
		Compound Management (Wheat and Potato) · · · · · · · · · · · · · · · 4-98
	Table 4.3.5.9	Wheat Management (Small Scale)
1	and the second second	Balance of Farm Management Account 4-117
: "	Table 4.3.5.11	Agricultural Production Materials 4-120
•	4.4.2 Livestock	Feeding Plan
	Table 4.4.2.1	Main Standard Index of Livestock Development Plan 4-122
	Table 4.4.2.2	Livestock Feeding Plan · · · · · · · · · · · · · · · · · · ·

Table 4.4.2.3	Dairy Cattle Feeding Plan · · · · · · · · · · · · · · · · · · ·
Table 4.4.2.4	Pig Rearing Plan by Aimag · · · · · · · · · · · · · · · · 4-125
Table 4.4.2.5	Poultry Feeding Plan by Aimag 4-126
Table 4.4.2.6	Demand of Supplementary Feed
Table 4.4.2.7	Demand of Formula Feed · · · · · · · · · · · · · · · · · ·
Table 4.4.2.8	Production Plan of Supplementary Feed 4-129
4.4.3 Livestock	Farming Products Production Plan
Table 4.4.3.1	Milk Production Plan by Aimag 4-130
Table 4.4.3.2	Meat Production Plan by Aimag 4-131
Table 4.4.3.3	Egg Production Plan by Aimag · · · · · · · · · · · · · · · · · · ·
Table 4.4.3.4	Other Products Production Plan by Aimag 4-132
Table 4.4.3.5	Actual Production Quantity of Main Products · · · · · · · · · · · · · · 4-133
4.4.5 Livestock	Farming Management Plan
Table 4.4.5.1	Livestock Farming Management Plan by Farming Type 4-134
Table 4.4.5.2	Typical Pattern Farm Income Trial Calculation · · · · · · · · 4-135
Table 4.4.5.3	Outline of Farm Management Plan by Pattern (Nomadic Herder) · · · 4-136
Table 4.4.5.4	Outline of Farm Management Plan by Pattern (Dairy Farm) · · · · · · 4-138
Table 4.4.5.5	Outline of Farm Management Plan by Pattern (Pig Farm) · · · · · · · 4-140
Table 4.4.5.6	Outline of Farm Management Plan by Pattern (Poultry Farm) · · · · 4-142
Table 4.4.5.7	Location Plan of Intensive Livestock Farm
the second of the second of the second	/Livestock Farming Products Distribution/Processing Development Plan
and the second s	al Products Distribution/Processing Plan
4.5.2.1 Profitat	ility of the Sugar Processing Plant 4-145
Table 4.5.2.1	Outline of Production at 100ton-Scale-Sugarplant 4-147
Table 4.5.2.2	Estimation of Economic Prices of Sugar · · · · · · · · · · · · · · · 4-148
Table 4.5.2.3	Summary of the Study on the Small-scale Sugar Factory · · · · · · 4-148
Table 4.5.2.4	Financial Analysis of Sugar Plant
Table 4.5.2.5	Economic Analysis of Sugar Production
Table 4.5.2.6	Calculation of Bruno Ratio at case 4-151
	esearch System Enhancement Plan
4.6.3.1 Present	State of Testing and Research System
4.7 Agricultural	Village Infrastructure Development Plan
Table 4.7.1.1	Distribution Road Construction Cost Breakdown 4-158
Table 4.7.1.2	Agricultural Road Construction Cost Breakdown 4-158

CHAPTER 5 MAINTENANCE SYSTEM OF VARIOUS FACILITIES

CHAPTER 6 PRIORITY PROGRAMS/PROJECTS

6.1 Priority Pro	grams and Projects
6.1.1 Seed Multi	plication and Provision Project
Table 6.1.1.1	Pacilities for the Seed Multiplication Project 6-4
Table 6.1.1.2	Required Costs of Facilities Improvement for the Seed
	Multiplication Project 6-16
Table 6.1.1.3	Machineries and Equipment 6-1
Figure 6.1.1.1	Organization of the PSARI 6-12
Figure 6.1.1.2	Seed Multiplication & Distribution System 6-13
Figure 6.1.1.3	Greenhouse Structure Diagram 6-14
Figure 6.1.1.4	Irrigation Facility Location Map 6-13
6.1.2 Irrigated	Agriculture Technology Development Project
Table 6.1.2.1	Irrigated Agriculture Technology Development Project Costs · · · · 6-16
6.1.3 RIAH Techn	ology Development Project
Table 6.1.3.1	RIAH Technology Development Project Costs · · · · · · · · · · 6-17
Table 6.1.3.2	Calculation of Required Agricultural Machinery for RIAH 6-19
	Outline of Farming Plan by Sector 6-20
Table 6.1.3.4	Farm Income Trial Calculation by Sector · · · · · · · · · · 6-2
Table 6.1.3.5	Unit Price for Farm Income Trial Calculation 6-29
Figure 6.1.3.1	RIAH Technology Development Project Layout Plan 6-26
Figure 6.1.3.2	Pig Farrowing/Pregnant Sow Barn Construction Plan · · · · · · · 6-27
Figure 6.1.3.3	Pig Fattening Barn Construction Plan 6-28
Figure 6.1.3.4	Egg Laying Barn Construction Plan 6-29
Figure 6.1.3.5	Hatching Barn Construction Plan 6-30
	Cow Barn Construction Plan 6-3
the state of the s	Bunker Silo Construction Plan 6-32
Figure 6.1.3.8	Office Construction Plan 6-33
	Machine Storehouse Construction Plan 6-3
Figure 6.1.3.10	Compost Yard and Urine Tank Construction Plan 6-39
6.1.4 Herder's W	ater Supply Improvement Project
Table 6.1.4.1	Herder's Water Supply Improvement Project Costs 6-36
Figure 6.1.4.1	Water Facility Shed Related Design Drawings 6-3

	Figure 6.1.4.2	Water Facility Wind Powered Pump Related Design Drawings · · · · · · 6-48
	Figure 6.1.4.3	Water Facility Manual Pump Related Design Drawings 6-58
	Figure 6.1.4.4	Water Facility Supply Equipment Related Design Drawings · · · · · · 6-63
	6.1.5 Milk Produ	ction Increasing Project
	Table 6.1.5.1	Milk Production Increasing Project Costs 6-68
	Table 6.1.5.2	Improvement Facilities of Core Dairy Farm 6-69
	Table 6.1.5.3	Calculation of Required Agricultural Machinery for Dairy Farm · · · · 6-70
	Figure 6.1.5.1	Milk Production Improvement Project Location Map 6-71
	Figure 6.1.5.2	and the control of th
	Figure 6.1.5.3	
	Figure 6.1.5.4	General Plan of Dairy Farm (Cow 800 heads:200heads×4) · · · · · · 6-74
		Construction Plan for an Insulation Work of the Barns · · · · · · · 6-75
:		Construction Plan for a Compost Yard 6-76
:.		Construction Plan for a Cooler Station 6-77
	Figure 6.1.5.8	Problem Analysis for the Project · · · · · · · · · · · · · · · · · 6-78
	· ·	Objectives Analysis for the Project 6-79
	6.1.7 Constructi	on Work Systems in Mongolia 6-80
	Table 6.1.7.1	Breakdown of Construction Costs 6-89
	Table 6.1.7.2	State of Production of Principal Buildings Materials 6-90
	Figure 6.1.7.1	Structure of Construction Costs 6-89
:	Figure 6.1.7.2	Quality Control Flow Chart 6-91
	Figure 6.1.7.3	Bidding Procedure Flow Chart 6-91
	6.2.1 Environmen	ntal Impact Assessment
	Table 6.2.1	Project Description (PD) · · · · · · · · · · · · · · · · · · 6-92
	Table 6.2.2	Site Description (SD) 6-91
	Table 6.2.3	Screening Checklist
	Table 6.2.4	Scoping Checklist · · · · · · · · · · · · · · · · · · ·
	CHAPTER 7 RELATE	ED DOCUMENTS
	7.1 Exchange of	M/M Signatures · · · · · · · · · · · · · · · · · · ·
	7.2 Sub-contract	t Surveys in Mongolia · · · · · · · · · · · · · · · · 7-17
	7.2.1 Events Lea	ading Up to the Contract · · · · · · · · · · · · · · · · · · ·

7.2.2 Details	of the Surveys · · ·	• • • • • • •	• • • • •			7-18
7.2.3 Outline	f Survey Results •					7-19
and the second of the second	Water Quality Study	Sampling Location	n Map · ·			7-28
Table 7.2.3.	County Mayors' Surv	rey Results · ·			• • • • • • •	7-33
Table 7.2.3.						7-35
Table 7.2.3.	Results of the Stud	ly of Association	s and Soci	ety · · ·	• • • • • •	7-36
7.2.4 Specific	tion of Surveys · ·					7-39
				1		· · · ·
·						
			÷			

CHAPTER 1 INTRODUCTION

CHAPTER 2 BACKGROUND

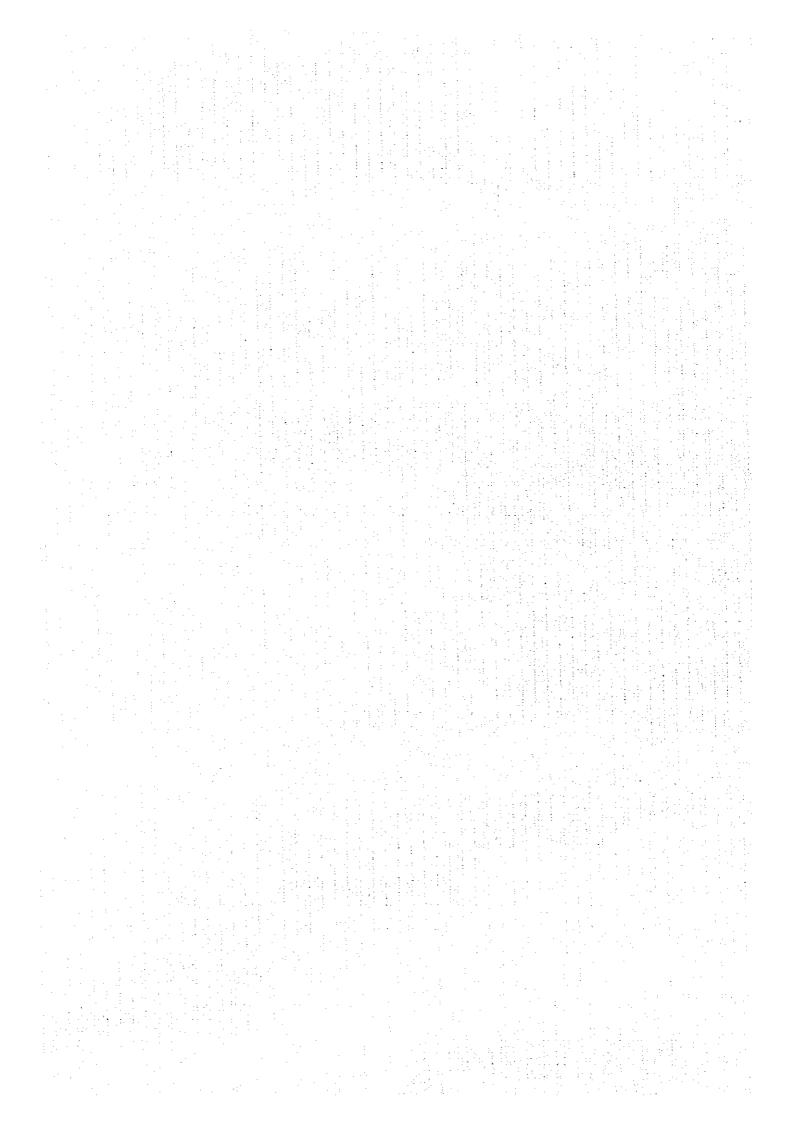


Table2.2.1 Movement of Exchange Rate

Year	Month	ExchangeRate	Remarks
1986	12	3.18	
1987	12	2.89	
1988	12	2.89	
1989	12	3.00	
1990	12	4.60	chang reat to lus\$=5.63Tg on July
1991	12	25.86	chang reat to lus\$=40.07g on June
1992	12	40.00	
	1	40.00	chang reat to lus\$=150Tg on January
	1	150.00	(Public Announcement
	5	150.00	the above mentioned)
	5	394.00	Free macket trade from May 28th
1993	6	398.00	The following is in free macket
	7	400.00	and published by Mongolian Bank
	8	392.00	1
	9	390.00	1
	10	389.80	
	11	395.00	
	12	395.00	
	1	400.00	
1994	2	403.00	l that are said
	3	408.80	
	4	409.32	
	5	410.48	
	6	411.58	
	7	413.67	
	8	415.90	
	9	415.80	
	10	410.43	
	11	411.96	
	12	414.09	
		424.00	
1995	3	432.75	
	4 5	446.45	
	5	448.44	

Source: Mongolian Bank

Table 2.2.2 Movement of GDP and Exchange Rate

	1989	1990	1991	1992	1993
GDP(mli.Tg, Estimate by SOOM*)	9,544	8,295	17,924	45,699	162,192
GDP per capita (us\$)	522	N.A.	N.A.	310	N.A.
GDP Growth rate(%, Estimate by IMF)	4.2	-2.0	-9.9	-7.6	-1.3
details	1		1		
Industry	11.4	-0.3	-12.7	-14.8	N.A.
Agriculture	13.8	-2.0	-5.1	-6.2	N.A.
Constractin	9.6	-25.1	-16.5	-10.4	N.A.
Transport	-1.5	-9.1	-43.3	-34.8	N.A.
Comunication	8.3	6.3	-23.5	-14.5	N.A.
Exchange Rate(per one US dollar)	3	4.67	25.86	40.00	150.00

* SOOM; Statistic Office of Mongolia

Table 2.2.3 Produced National Income, by economical sectories /at 1986 prices,

								Unit; mli.	Tg
1		Industry	Agricul-	Construc-	Transpor-	Communi-	Trade &	Other	Total
١			ture	tion	tation	cation	Procuremen	t	ľ
	1989	2,902.3	1,556.3	617.2	774.3	129.5	2,327.4	154.9	8,461.9
	1990	2,892.3	1,525.6	462.3	703.7	137.6	2,280.5	141.4	8.143.4
١	1991	2,514.7	1,448.0	383.4	397.1	105.3		152.8	6,988.9
1	1992	2,226.4	1,390.5	204.8	323.9	82.0	1	175.8	5,910.4
Į	1993	1,990.0	1,292.0	164.0	278.0	90.0		180.0	5,509.0

Source: SOOM(Statistic Office Of Mongolia)

Table 2.2.4 Produced National Income, by economical sectories /at current prices,

Unit; mli. Tg Industry Agricul- Construc- Transpor-Communi-Other Trade & Total ture tion tation cation Procurement 1989 2,919.8 1,722.9 617.2774.3 129.5 2,327.4 154.9 8,646.0 1990 2,915.1 1,686.9 462.3 703.7 137.6 2,280.5 141.4 8,327.5 1991 4,924.9 2,973.7 708.7 758.2 199.0 5,349.1 226.0 15,139.6 1992 13,857.7 13,777.2 920.9 1,475.6 396.6 7,615.1 39,135.2 1,092.1 1993 59,520.0 54,527.0 2,060.0 3,450.0 130.0 25,500.0 4.320.0 Source: SOOM

Table 2.2.5 Price Inflation and Salary Growth, 1989-1993

1			5		1	
		1989	1990	1991	1992	1993
1.	Consumer price index	100	100	154	650	1839
2	Trend of PNI* per capita	= 100	93	171	432	1715
3	Trend of Salary per capita	100	102	167	385	1297
4	(Culculation data)					
5	(a) PNI* (mli.Tg)	8646	8328	15140	39135	150507
6	(b) Employers(thous.Pers.)	548	569	561	574	556
7	(c) PNI per capita(a/b)	15.8	14.6	27.0	68.2	270.8
8	(thous.Tg)				00.1	2.0.0
9	Anunual salary(thous.TG) of		:			
10	Administrator in Company	6.2	6.3	10,4	24.0	80.6
11	(Reference data)					
12	Gross domestic product	100	97	87	91	96
13	GDP per capita	100	95	84	39	94
14	GNP per capita	100	95	84	77	75
	Noton: + Dill - Deading J M. L.					

Notes: * PNI; Produced National Income*

: The consumer price index in the table and Rows 6,7 and 12 are data in statistical yearbook of SOOM. Row 10 is Suervey data in Tob Aimag by The Study Team. Rows 13 and 14 are estimates prepared by the IMF.

Table 2.2.6 Price Variation of Agricultural Products by Region

والمتعاقب أحمارهم والمتلا المتلاف والمتعارض والمتعاوم والمتعاد المتعادد والمتعادد والمتعادد والمتعادد والمتعادد	Average of	Bulgan	Ovorhan-	Selenge	Tov	Ulaan-	Darhan	Orhon
	Mongolia		gai			baatar		<u> </u>
(Livestock Products)	%	%	X	. %	, %	, %	\	. %
Horse	100.0	89.3	89.3	98.2	164.3	125.0	125.0	***
Cattle	100.0	76.9	69.9	146.9	144.1	125.9	167.8	74.8
Sheep	100.0	71.0	71.0	125.8	134.2	116.1	161.3	70.3
Goat	100.0	80.4	80.4	93.8	138.4	142.9	187.5	85.7
Eggs	100.0	113.2	132.1	94.3	84.9	103.8	94.3	94.3
Milk	100.0	64.9	94.6	87.8	110.8	121.6	108.1	67.6
Batter	100.0	107.6	97.8	0.0	110.2	146.8	107.6	68.5
Sheep wool(big hair)	100.0	92.5	92.5	99.4	101.7	144.5	86.7	92.5
(short hair)		76.9	115.4	115.4	92.3	•••	61.5	• • •
Cashmere	100.0	73.3	96.5	78.2	84.5	152.8	72.4	115.8
(Farm Products)						9 1	:	
Wheat	100.0	80.5	107.3	85.4	109.8	***	97.6	90.2
Potatoes	100.0	78.9	105.3	63.2	115.8	189.5	105.3	63.2
Cabbage	100.0	94.9	160.6	73.0	110.9	175.2	109.5	87.6
Turnip	100.0	66.7	139.5	58.9	127.1	248.1	116.3	108.5

Source: National Program for the Food and Agriculture in 1995

Table 2.2.7 Hosehold Average Income per Month and Composition

(as of November of the year)

		1993						
Item	Ü	rban	Rural		Urban		Rural	
	(Tg)	(%)	(Tg)	(%)	(Tg)	(%)	(Tg)	(%)
Salaries	3,315	60.0	1,374	35.2	7,549	62.2	2,626	23.9
Pension	416	7.5	343	8.8	1,848	15.2	1,284	11.7
Products*	141	2.6	1,627	41.6	297	2.4	4,851	44.1
Others	1,655	29.9	566	14.5	2,439	20.1	2,235	20.3
Total	5,526	100.0	3,909	100.0	12,132	100.0	10,995	100.0

Source: SOOM

Note * Including income from individual farm, commercial income, sale of own products

Table 2.2.8 Hosehold Average Monetary Expenditure per Month and Composition

(as of November of the year)

						(uo or n	01011001	V- 1.40 J	
				1993					
Item	U	Urban		Rural		Urban		ural	
:	(Tg)	(%)	(Tg)	(%)	(Tg)	(%)	(Tg)	(%)	
Food	3,423	60.0	1,494	41.0	7,879	60.3	5,691	51.4	
Non-food*	1,594	28.0	1,844	50.6	3,099	23.7	4,422	39.9	
Services	672	11.8	225	6.2	1,955	15.0	763	6.9	
Saving	15	0.3	78	2.1	127	1.0	200	1.8	
Total	5,704	100.0	3,640	100.0	13,060	100.0	11,075	100.0	

Source: SOOM

Note * Including Clothes, Foot-wear, Cultural items, Furniture & equipment medical care, Fuel and others

Table 2.2.9 Wages and Salaries per capita in Aimag City

a. ULAANBAATAR (Tg/month)

Itea	1989	1990	1991	1992	1993	1994
Farm Company	546	581	1,146	2,124	3,859	10,515
Alcholic Company	513	541	1,138	2,039	6,726	13,567
Fure Processing Co.	598	653	1,580	3,203	5,600	8,900
Food Tranceport Co.	571	762	1,152	2,211	7,462	11,534
Administrator of Co	625	781	1,796	2,694	4,849	13,400

Source: Study data by The Team through the Aimag

b. TOV		1 1 1			(Tg/ m	onth)
Item	1989	1990	1991	1992	1993	1994
Farm Company	489	472	938	1,150	4,439	8,362
Food Processing Co.	350	388	788	1,629	6,194	9,417
Feed Processing Co.	363	375	788	2,758	5,679	6,915
Hotel & Service Co.	438	452	753	1,255	3,728	8,960
Administrator of Co	518	526	863	1,996	6,719	10,813
Others .	267	450	800	1,369	3,559	6,558

Source: Same as the above

c. SELENC	c. SELENGE						
Item	1989	1990	1991	1992	1993	1994	
Farm Company		550	788	778	7,017	8,942	
Food Processing Co.	:	850	1,050	1,208	9,500	11,500	
Cemical Co.	2 -	933	1,033	1,175	8,042	11,000	
Non-Food Proce. Co.		1,100	1,625	2,667	11,033	14,000	
Alcholic Company		1,183	1,556	2,638	10,704	14,103	
Hotel & Service Co.		400	542	592	3,000	5,000	
Administrator of Co.		400	542	592	3,000	5,000	
Aimag Officer		750	758	917	6,000	8,600	
Others		450	633	683	3,217	5,417	

Source: Same as the above

Table 2.2.10 Number of Unemployed Person by Region

والمراقب	Unemplo	yment(man)			Chang Worker
Aimag	1992-1-1	1993-1-1	1994-1-1	Femel	Total
BUlgan	1,079	1,065	2,962	1,230	360
Ovorhangai	2,591	3,669	3,806	2,320	265
Selenge	1,714	1,841	1,689	775	739
Tov	2,381	2,844	6,491	3,223	912
Darhan	2,990	1,246	1,220	657	293
Ulaanbaatar	13,766	8,405	9,673	4,507	4,664
Erdenet	1,220	1,629	1,168	659	490
Total	29,666	33,352	44,903	25,044	10,972
Total of Mongol	55,407	54,042	71,912	38,415	18,695

Source: NDP

Table 2.2.11 Number of Poor Houshold

lousehold 1993	Rate
81,575	100.0
5,827	7.1
36,072	44.2
26,957	33.0
12,719	15.7
	81,575 5,827 36,072 26,957

Souce ; Statistical Office of Mongolia (SOOM)

Tabl 2.2.12 Monthly Income of
Poor Houshold Group

Item	1993	Rate	Remarks
Total	81,575	100.0	: :
600TG	33,380	40.9	
601~	16,684	20.5	
901~1	14,267	17.5	
1301~1	7,042	8.6	
1501~1	4,151	5.1	
1801~2	2,491	3.1	1
2001TG	3,560	4.3	

Souce; SOOM

Table 2.2.13 Official Estimates of

roverty, march	1334
Number of Poor	As a % of 1
449,859	20.3
137,423	6.2
587,282	26.5
	Number of Poor 449,859 137,423

Source; Poverty and the transition to a market economy in Mongolia (Jun 1994)

Table 2.2.14 Number of Households Led by Widows

Iten	1993	Rate	Remarks	
loushold	35,649	100.0		
3Children	14, 125			
3-5 Chi.	12,928	36.3		
6 over C.	8,596	24.1		

Source; Poverty and the transition to a market economy in Mongoria. (Jun 1994)

Tabe 2.2.15 Annual Average Number of workers

Unit; thous.

		1.0		uni e, anous	
ĺ	Year	Total	Capable Numb.	Worker of	Worker of
ı		4	to Work	Children	Pensions
İ	1989	899.3	879.4	2.8	17.1
ı	1990	946.2	927.4	2.5	16.3
1	1991	1,001.6	976.4	5.2	20.0
1	1992	1,059.9	1,027.7	7.4	24.8
1	1993	1,080.9	1,049.7	6.0	25.2

Source; Poverty and the transition to a market economy in Mongolia (Jun 1994)

Table 2.2.16 Answers for Question related to Privatization

	بروها بولينون <u>وا</u> برسان، مها، ورا بروان غلوانه به با باز الإنتراقة سال مية بالاشتانية الكفافات الانتهاب فيقين المارينة المتاريخة.	No. of	As a X
[i		Ansswer	of Total
Survey ;Merit	t & Demerit Under Privatization		
Soum	1 To get Private Property	36	52.17
lead man	2 To be no-privatization	1	1.45
	3 Doing unnecessary privatization	3	4.35
	4 Misconduct on going privatizat.	29	42.03
	6 Trouble of inspection	25	36.23
Survey ;Merit	& Demerit Under Privatization		
Agricul.	1 To get Private Property	45	39.47
Company	2 To be no-privatization	4	3.51
Head man	3 Doing unnecessary privatization	0	0.00
	4 Misconduct on going privatizat.	58	50.88
·	6 Trouble of inspection	32	28.07
Survey ;Meril	& Demerit Under Privatization		
Partner-	1 To get Private Property	32	76.19
ship	2 To be no-privatization	0	0.00
Company	3 Doing unnecessary privatization	1	2.38
Head man	4 Misconduct on going privatizat.	6	14.29
	6 Trouble of inspection	21	50.00
	7	1	2.38
Survey ;Meril	& Demerit Under Privatization		
Herder	1 To get Private Property	54	61.36
	2 To be no-privatization	2	2.27
	4 Misconduct on going privatizat.	26	29.55
	6 Trouble of inspection	18	20.45

Source; Study team

Table 2.2.17 External trade,

Foreign Exchang Reserves(mli.US\$)

		OLOIGI DA	THOUSE THOUSE	· CO(MILION	Ψ)
	1989	1990	1991	1992	1993
Total Turnover	1,684.5	1,584.8	708.9	806.8	722.4
Export	721.5	660.8	348.0	388.5	360.9
Import	963.0	924.0	360.9	418.3	361.5
Trade Balance	-241.5	-263.2	-12.9	-29.8	-0.6
Foriegn E.R.	103	49.3	20.5	14.4	27.1
	3.5	~~~~			

Source; NDP

Table 2.2.18 Price of Main Import Item

					and the second
	Unit	1990ዣ	1991年	1992年	1993年
Total of Impor	mli.US\$	924.0	360.9	418.3	361.5
Producers' Good	mli.US\$	720.0	283.7	349.1	272.6
(Oil,Fuels)	mli.US\$	(156.3)	(130.1)	(88.3)	(87)
Consumption G.	mli.US\$	204.0	77.2	69.2	88.9

Source; NDP and Others

Table 2.2.19 Main Trading Countries

	(a) the Movement	of Countries on	export	
	1990	1991	1992	1993
1	U.S.S.R	Russian	Russian	Russian
	(78.3%)	(67.6%)	(57.1%)	(37.5%)
2	Chechoslovakia	China	China	China
	(4.5%)	(15.2%)	(16.8%)	(30.9%)
3	Bulgaria	Jpan	Jpan	Kazakstan
	(2.5%)	(3.2%)	(5.1%)	(15.3%)
4	Hungary	Germany	Switzerland	Jpan
	(2.1%)	(2.9%)	(4.6%)	(2.9%)
5	Germany	Hungary	Germany	Switzerland
	(2.1%)	(2.6%)	(3%)	(2.6%)
6	China	Italy	Italy	Italy
	(1.7%)	(1.4%)	(2.2%)	(2.6%)
7	Poland	Chechoslovakia	Bulgaria	U.S.A
	(1.7%)	(1.2%)	(1.8%)	(1.1%)
8	Romania	Hong kong	Belgium	Germany
	(1.5%)	(1.1%)	(1.3%)	(0.8%)
9	Јарал	Afganistain	Chechoslovakia	Belgium
	(1.2%)	(0.9%)	(1.1%)	(0.7%)
10	Italy	England	U.S.A	Finland
	(0.8%)	(0.5%)	(1.1%)	(0.5%)
	Other	Other	0ther	Other
L	(3.6%)	(3.4%)	(5.9%)	(3.0%)

	1990	1991	1992	1993
1	U.S.S.R	Russian	Russian	Russian
	(77.5%)	(73.8%)	(52.4%)	(59.7%)
2	Сеглапу	Austraria	Chaina	Chaina
• •	(4.1%)	(4.8%)	(12.2%)	(16.7%)
-3	Chechoslovakia	Chaina	Japan	Japan
	(3.7%)	(4.5%)	(10%)	(5.1%)
4	Chaina	Germany	Germany	U.S.A
:	(2.4%)	(3.5%)	(5.4%)	(4.7%)
5	Hungary	Chechoslovakia	Austraria	Hong Kong
	(2.2%)	(2.7%)	(4.8%)	(2.7%)
6	Roumania	Korea	Hong Kong	Germany
;	(1.8%)	(2.0%)	(2,3%)	(1.7%)
7	Poland	Switzerland	Korea	France
	(1.4%)	(1.8%)	(2.0%)	(1.2%)
8	Austraria	Hungry	France	Denmark
	(1.1%)	(0.9%)	(1.8%)	(1.0%)
9	Japan	Japan	Singapore	Singapore
:	(1.1%)	(0.8%)	(1.4%)	(0.9%)
10	Yugoslavia	Itary	Chechoslovakia	India
	(0.9%)	(0.6%)	(1.3%)	(0.9%)
: •	Other	Other	0ther	0ther
	(3.8%)	(5.6%)	(6.4%)	(5.2%)

Souce: Ministry of Trade and Industry in Mongolia
(): i as a % of Externar Trade Tunover

Table 2.2.20 Main Export Item

Item	Unit	1990	1991	1992	1993
Copper Concentrate	thu.ton	347.5	243.5	346.0	394.5
Molobdenium concent.	ton	3,990.4	3,167.2	2,975.1	2,908.7
Fluor spar concent.	thu.ton	111.6	120.2	97.2	77.2
Sawn Wood	thu.m3	42.5	90.2	87.6	68.1
Scorred sheep wool	ton	2,840.0	2,212.5	7,320.6	5,568.6
Spun woolen thread	ton.	273.6	203.7	- 108.4	94.5
Inufactured goat down	ton	53.4	33.0	1,690.4	1,453.9
Camel wool	ton .	1,913.7	101.4	1,735.1	2,913.3
Cashimere	ton	376.3	617.8	26.4	28.6
eather jaket	thous.	(n.a.)	113.3	108.6	68.0
eather coat	thous.	(n.a.)	2.5	19.6	17.4
Sheepskin coat	thous.	106.8	(n.a.)	38.7	12.3
Carpet	thu.m2	1,672.5	67.6	405.7	425.2
Down goods	thous.	275.7	(n.a.)	132.7	77.1
Camel woolen blanket	thous.	23.2	(n.a.)	44.9	12.2
Intestine	thous.	2,163.8	495.6	3,523.8	1,301.8
Horse hide	thous.	105.2	78.5	13.5	154.5
Sheep skin	thous.	130.0	(n.a.)	1,633.3	3,300.7
	thous.	113.2	(n.a.)	265.0	509.4
	thous.	30.6	(n.a.)	68.9	393.3
	ton	42.3	(n.a.)	347.3	272.7
	thu.ton		(n.a.)	23.9	36.3
Aluminium waste	ton	821.7	(n.a.)	2,241.6	3,284.1
1 -	ton	485.3	(n.a.)	2,166.4	522.2
	ton	957.1	1,032.9	3,233.0	1,620.6
letal waste	ton	(n.a.)	(n.a.)	8,218.6	5,309.1

Table 2.2.21 Main Import Item

Iten	Unit	1990	1991	1992	1993
Suger	thu.ton	34.7	32.0	17.6	19.4
butter	ton	2.2	1.7	1.6	7.0
Flour	thu.ton	27.7	39.0	20.3	84.7
Green tea	thu.ton	6.9	4.1	3.7	8.9
Rice	thu.ton	19.1	14.7	4.6	30.2
Vegetable oil	thu.ton	4.7	1.1	0.9	0.8
Printed cotton fabric	thu.m	5,845.4	1,408.0	6,380.1	4,909.4
Synthetic fablics	thu.m	1,721.0	(n.a.)	3,747.6	1,475.3
Silk	thu.m	5,174.5	667.5	444.7	1,078.8
Footwear	thous.	1,112.2	193.9	212.5	209.8
Tarpaulin	thu.m	2,252.7	80.0	738.7	1,624.0
Electric Battery	thu.US\$	1,291.0	223.1	2,348.5	841.8
Tabacco/sigarettes	ton	964.0	486.6	722.2	235.1
Candle	thu.US\$	1,069.0	164.3	706.4	91.2
swing machins	nli.cas	2.3	(n.a.)	37.7	8.4
Sewing mathine	stand	1,099.0	2,000.0	335.0	7,448.0
Fridge	stand	3,500.0	6,700.0	19.0	1,391.0
Vacum cleaner	stand	2,000.0	4,000.0	29.0	1,674.0
ΙV	stand	24,500.0	,	6,250.0	7,991.0
Motor cycle	stand	3,510.0	1,050.0	775.0	2,533.0
Soap	ton	218.9	58.4	4,078.3	2,288.2
Cake	ton	1,503.7	282,2	462.9	798.1
Fluit	ton	3,894.4	3,070.0	529.2	812.6
Yeast	ton	192.0	82.9	464.0	148.2
Cotton wool	thu.n	(n.a.)	(n.a.)	267.6	544.8

Souce: Ministry of Trade and Industry in Mongolia and othre

Note:data of 1993 is prompt reports by SOOM

CHAPTER 3
PRESENT STATE IN THE STUDY AREA

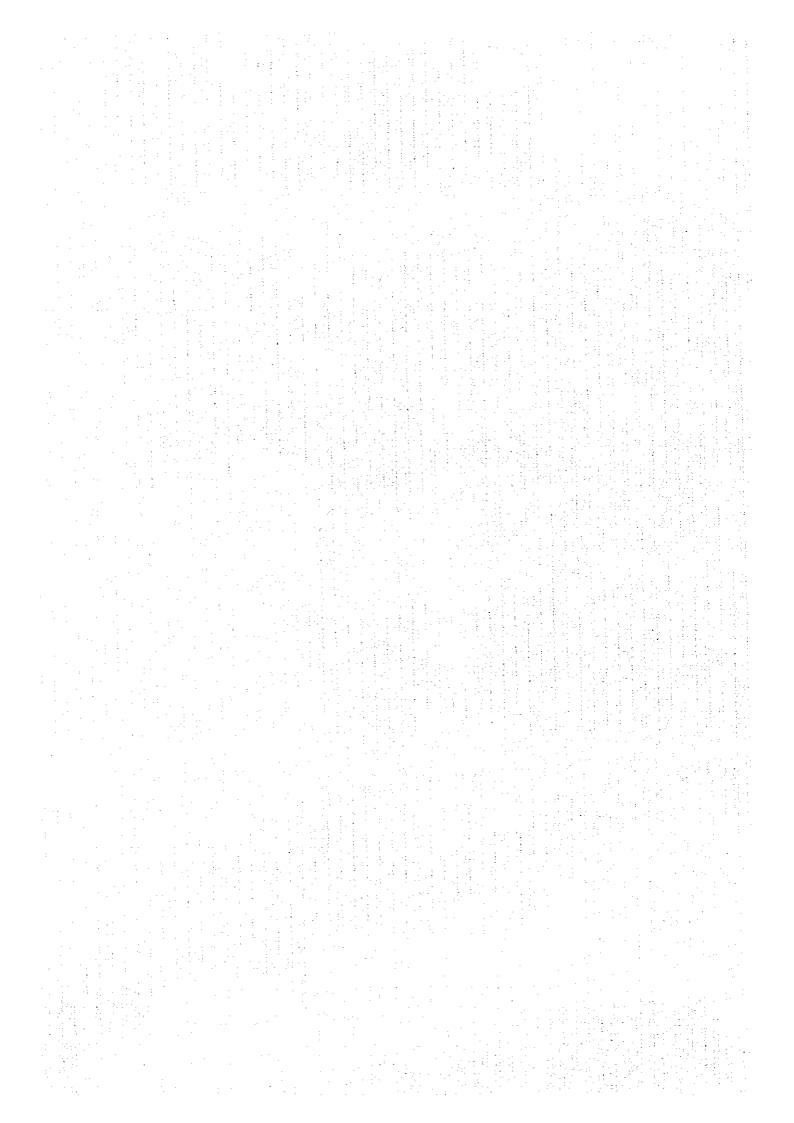


Table 3, 1, 2, 1 A	Average month	ly temper	ature in	MONGOLI	(2)	(1961–199	(2)		:	:				
Station	Aimag	Jan.	Feb.	Mar.	April	Мау	June	10,	Aug.	S	Oct.	No.	Dec.	Average
Altai	Govi altai	-18.1	-16.6	-9.5	-0,6	7.3	12.6	13.7	5:4		1.4	-10.6	-15.9	-1: 4
Arvaiheer	Ovorhangai	-14.7	-13.2	90 90 -	1	9.2	14.1	15.4	3.9	-	1, 6	-7.3	-12.6	0.8
Saitag	Hovd	-20.6	-16.7	35,4	5.9	13.7	19.2	20.4	18.6		ත ත්	-8.3	-17.9	 :i
Sayndelger	Subbaatar	-20 6	-17.2	-7.5	တ	12.1	18.1	20.5	18.6		3.0	6. 9.	-17.5	1.3
Baynhongor	Baynhongor	-18 3	-16.2	8.3	1.3	9.5	14.9	16.2	14.5		0	0	-16 6	4.0
Bayn-0voo	Hentii	-21.0	-18.2	98.	61 63	. 10. 7	16.6	18.7	16.7		1.2	-10.8	-18.0	ဝှ
Bayn uul	Zavhan	-31.8	-29.1	-18, 3	-2.6	8	14:1	15.4	3.3		٠ ج	-17.9	-28.3	6. 1.
Baruunharaa	Selenge	-24.9	-21.3	ις 20 Ι	2.7	10.7	16.5	18,5	16.5	1	0.7	-11.2	-20.9	-1.0
Baruunturuun	UVR	-31.3	-29.5	-18.5	-1.4	10.1	15.9	17.1	15.4		ا د ج	-14.3	-26.4	1, 13,
Baruun-urt	Sukhbantar	-21.5	-18.0	ရာ က	3.0	11 3	17.5	19.9	17.9		 .;	10.2	-18.5	2.5
Binder	·	-21.1	-17.9	æ; æ;	1.0	9.3	14.8	17.1	4 9		ဝှ	-11.8	-18.8	-1.1
Bulgan	Bulgan	-20.4	-18.1	œ,	1.1	9.0	14.2	16.0	13.9	1	-1.1	-11.0	-16.6	-1.2
Tsetserlk	÷	-14.9	-13.6	-7.0	1.7	8.8	13.2	14.4	12.9		0.7	-7.7	-13.0	0.5
Choibalsan	- 73	-20.3	-17.8	∞ ∞	2.7	11 3	17.7	20.0	18.0		1.8	%.6 <u>-</u>	-17.7	0.7
Choir	Dornod	-20.5	-17.3	٠. م:	; :	6.01	16.7	18, 7	16.9		1.3	-10.4	-18.3	0.2
Tsogt-0voo		#16.1	-12.6	44.1	S. 3	S: 23	19.7	21.4	19.8		ري م	-6.4	-14.2	3.7
Dadal	Hentii	-19.7	-16.9	ж. 6.	1.2	2.5	14.8	16.8	14.6		0.1	-10.6	-17.3	-0.7
Dalanzadzad	Umnegovi	-14.9	-11.3	-3.3	ري دع	14.2	19.3	21.0	19.4		0	rs võ	-12.6	4.3
Porto Lin	Zavhan	-24.4	-20.2		3.2	11.6	17.6	16.	17.2		· ·	-10.5	-20.6	-0.2
Frdenotesan	Sukhhaatar	- 10.3	-17.0	30	2.4	10.5	16.4	19,2	17.2		2, 1	ဆ	9.97	9.0
Twonomondo	Arhangai	2. 2.	-16.5	7		(c)	13	14.6	2.8		-0.3	6	-16.3	0
The Contract of the Contract o		27 1	-23.2	(r.	1 1	90	16.0	18.2	5.9		-0.7	-13.1	23.3	ea ea
Galunt	Raynhongor	-25.2	-22.4	-13.3	-1.9	6.5	90	13.1	11.3		-3.4	-15.4	-22. 4	-4.7
(20 H 00)	Dornod	586	-2.3	6.01-	6	10.7		20.0	7.7		:3	-11.0	-20.2	-0.6
Total Son	11.00	200	0 -	o o		6	15.0	16.3	14.4		-0.5	8.0.	-19.7	1, 55
Lotter Lo	200	2 6	0.067	0 61	- 2	4	o	11.7	10.2		6.0	-13.7	-20.3	8.4
Here's	House	1 1 1 1	200	, (-)) in	0.21		9	6			6.6	-20.1	9.1
200	Overhangai	21.6-		0.6	0.7	œ	17.3	14.6	12.9		-0.7	-11.2	-18.4	-1.5
Bread	Bul yan	-23.8	-19.2	-7.2	6 6	11.1	16.0	17.5	15.3		0.3	-11.3	-20.4	8.0
Magnit	Tov	-21 9	-19.5	-10.6	-0.1	8.6	14, 5	16.3	14.4		-1.7	-13.1	-20.2	-2.2
Mandal 20vi	Dundzovi	-17.8	-14.8	φ. 8	ۍ د ن	12	16.8	18.8	17.0		1.9	8.9	-15.9	:3
Noron	Hovszul	-22.7	-18.3.	53.5 5.13	ن د - ۱	6	15.3	16.6	14.5		6.0-	-11.6	-19.7	-1:3
01211	Baynulgii	-22.4	-19.3	0-6	2.1	10.4	16.5	18.6	9.91		9.0	-11:5	-19.8	9.0
Ondorhaan	Hentii	-17.2	8.51	6-9-	1.9	9,6	14.7	16.4	14.7		် ပ	-8.7	-15,1	0
Saihan	Umnugovi	-13.7	-10.7	-2.5	7.0	12, 1	20.5	22. 1	20.5		လ လ	-4.6	-11,6	ν. (3)
Saishand	Dornogova	-17.9	-13.8	4.4	-+ 90	14.5	20.1	22.9	21.0		4.6	-7.1	-15,6	r- (*)
Erdenesant	Tov	18,1	-16.2	7.7	9 1	10.0	15.0	16.7	15.0	ļ	1.1	6 8	1,5	0
Tarialan	Hovsgul	-20.0	-16.8	7.7	9	8.6	14.8	16.0	7.7		0.0	& o-	-17.7	-0
Toorol	Covialtai	-17.9	12.5	∞ 1-	7.9	16.4	21.9	23.5	21.6		() ()	-6.2	-14.8	6
Tosontsengel	Zavhan	-31.9	-29.0	-18.3	ម ក្	6.9	. 12.5	3.8	11.8	:	က်	20	-28.0	æ P
Ulaanbaatar	Ulaanbaata	-20.2	-17.9	-10 0	S 0	2.5	13.7	5.6	13.8	į	9	-11.2	18.	9 1
Ulaangom	Uvs	33.5	-30.1	20	7 0	11.5	17.6	19.0	16.8		0	o .	25.8	6 ·
Uliastai	Zavhan	-22.7	-50:0	50.5	က ဝ	သ က	14. 1	2.0	13.4		e i	13.2	707	4 L
Zamiin uud	-Dornogovi	-18.7	-14.6	9,7	ა -	14.5	20°	6 63 61	S 1	က်	γ (γ	7 9 .	15.9	, .
Zunnmod	Tov	-20.2	-17.9	-10 0	-0.3	2. 8. 7.	13. 7	5.6	13.7	-	- C 2	- 1	1.61	0 4
Average														-U.3

	43
	_
	ion Table
	7
	-
	•
	-
	ä
	.≃
•	Probability Calculation
	**
-	=
	-
	Q
-	
٠	ď
	C
÷	Probability (
÷	>
	ب
٠,	-
٠,	-
-	-
j	n
٠.'	77
	ö
-	~:
	\sim
	χ,
	,,,
	_
1	
	.03
	٧
	П
•	-
	๙
	œ
	S
	-
	S
	1.2.2 Rainfall
	~
	٠.
•	$\overline{}$
4	-
	Table 3 1.2 2

Arvaiheer						משלמת
Ranking	Year	Preciptation	Probable	Probability		Ranking
:			year	Preciptation		
1	1978	108.1	1/100	110.8	:	
			1/50	119.2	:	2
7	1970	124.8	1/30	126.4		n
			1/20	133.0		4
က	1986	139.9	1/10	146.5		w
4	1988	153.6	1/7	155.0		9
S	1980	158.9	1/7	155.0		
9	1979	159.6	1/7	155.0		

179.6 189.6 198.6 217.2 228.9 242.0

181.2 1/50 189.7 1/30 192.6 1/20 218.1 1/10 230.3 1/7 238.1 1/5

1980 1969 1977 1978 1978 1986

Probable year 1/50 1/30 1/20

Preciptation

Year

01820083	Ranking				_		7	
		:		:				
	Probability	Preciptation	110.4	124.0	130.6	140.2	167.6	193.1
	Probable	year	1/200	1/75	1/50	1/30	1/10	1/5
	Preciptation		107.6	126.7		137.2	153.8	195.1
	Year		1980	1979		1986	1977	1981
מי ישוויות ימ	Ranking			2		ო	4	5

Ranking	Year	Preciptation	Probable	Probability
			year	Preciptation
	1979	119.6	1/50	114.8
	:		1/30	122.8
	1972	134.8	1/20	130.1
	1980	139.3	1/20	130.1
L	1989	145.1	1/10	145.4
L	1977	159.7	1/7	155.3

Table 3.1.2.3	Table 3.1.2.3 Monthly average number of days of rain in the growing season	e number of	days of r	ain in the	growing se	eason (Day
Station	May	June	July	-Sny	Sept.	Total
Erdenesant	7	13	16	14	8	28
Eroo	20	23	13	14	01	29
Hutag	7	14	17	14	∞	09
Hulirt	б ,	13	∞	. 15	တ	49
Maant	2	12	135	.E3	~	54
Arvaikheer	6	12	15	14	00	99
Barumkharaa	10	13	16	14	10	63
Bulgan	10	16	20	17-	Ħ	74
Bogd	₩.	∞	13	10	5	40
Average	-	13	16	14	8	29

Table 3.1.2.4 Monthly average temperature (°C)

Station	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov	Dec.	Average
Erdenesant	-18.1	-16.2	-7.7	1.6	10.0	15.0	16.7	15.0	8.7	1.1	-8.9	-15.5	0.1
Maani t	-21.9	-19.5	-10.6	-0.1	8.6	14.5	16.3	14.4	7.2	-1.7	-13.1	-20.2	-2.2
Baruunkharaa	-24.9	-21.3	-8.5	2.7	10.7	16.5	18.5	16.5	9.4	0.7	-11.2	-20.9	-1.0
Ulaanbaatar	-20.2	-17.9	-10.0	-0.3	8.2	13.7	15.6	13.8	7.4	-0.5	-11.2	-18.1	-1.6
Eroo	-27.1	-23.2	-9.5	1.7	9.8	16.0	18.2	15.9	8.4	-0.7	-13.1	-23.3	-2.2
Hutag	-23.8	-19.2	-7.2	2.9	11.1	16.0	17.5	15.3	8.8	0.3	-11.3	-20.4	-0.8
Bulgan	-20.4	-18.1	-8.7	1.1	9.0	14.2	16.0	13.9	7.2	-1.1	-11.0	-16.6	-1.2
Hujirt	-21.1	-18.1	-9.0	0.7	8.2	17.3	14.6	12.9	7.0	-0.7	-11.2	-18.4	-1.5
Arvaikheer	-14.7	-13.2	-6.8	1.5	9.2	14.1	15.4	13.9	8.5	1.6	-7.3	-12.6	0.8

Table 3.1.2.5 Average monthly Maximum temperature (°C)

Station	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov	Dec.	Average
Erdenesant	-5.4	-2.7	6.5	17.4	24.1	28.0	28.1	27.3	22.4	16.1	5.3	-2.9	13.7
Maani t	-9.5	-5.7	3.8	16.2	24.1	27.6	27.7	26.4	21.5	13.9	0.7	-7.2	11.6
Baruunkharaa	-7.3	-3.0	6.6	16.5	25.8	28.7	28.2	27.0	22.3	15.4	4.1	-4.6	13.3
Ulaanbaatar	-8.4	-5.4	2.6	14.4	22.8	25.7	26.7	24.7	20.1	12.9	1.8	-6.2	11.0
Eroo	-12.3	-6.8	6.2	18.9	27.5	30.5	30.4	28.9	23.8	15.9	2.1	-8.7	13.0
Hutag	-7.9	-3.7	8.6	19.4	27.4	30.4	29.1	27.8	23.0	15.4	4.0	-5.4	14.0
Bulgan	-5.7	-2.0	6.7	17.3	25.2	27.9	27.2	25.9	21.6	15.0	4.3	-3.3	13.3
Hujirt	-6.3	-2.7	6.4	16.2	23.1	26.3	25.9	25.1	21.1	15.1	4.1	-2.9	12.6
Arvaikheer	-1.7	-0.1	6.6	15.7	22.8	26.3	25.7	25.1	20.7	14.2	5.6	0.4	13.4

Table 3.1.2.6 Average monthly Minimum temperature (°C)

Station	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov	Dec.	Average
Erdenesant	-29.9	-26.1	-20.7	-11.9	-4.0	3.4	6.8	4.8	~2.6	-11.4	-21.0	-27.1	-11.6
Maanit	-35.I	-31.1	-25.2	-14.9	-6.3	1.2	5.1	3.0	-5.4	-14.9	-26.7	-32.9	-15.3
Baruunkharaa	-35.8	-33.4	-22.6	-10.5	-0.6	3.9	8.1	5.7	0.2	-11.7	-24.1	-32.8	-12.8
Ulaanbaatar	-30.7	-29.2	-22.0	-13.4	-4.7	2.2	5.7	3.5	-3.9	-12.0	-22.8	-28.8	-13.0
Eroo	-39.4	-37.5	-24.3	-13.6	-6.4	1.9	6.5	4.0	-4.4	-13.9	-26.8	-35.6	-15.8
Hutag	-35.6	-32.6	-22.1	-11.1	-3.6	3.5	9.1	5.0	-2.7	-11.9	-24.4	-42.8	-14.1
Bulgan	-31.8	-30.6	-22.9	-12.5	-5.5	1.7	5.4	3.0	-4.7	-13.0	-23.8	-29.7	-13.7
Hujirt	-33.1	-31.5	-23.3	-12.9	-5.4	0.9	3.9	1.9	-5.1	-13.8	-24.7	-30.8	-14.5
Arvaikheer	-22.8	-24.1	-18.2	-11.1	-3.4	3.5	6.8	4.9	-1.9	-10.2	-18.8	-24.1	-10.0

Table 3.1.2.7 Average monthly temperature in the growing season(°C)

Station	May	June	July	Aug.	Sept.	Average
Erdenesant	10.0	15.0	16.7	15.0	8.7	13.1
Maanit	8.6	14.5	16.3	14.4	7.2	12.2
Baruunkharaa	10.7	16.5	18.5	16.5	9.4	14.3
Ulaanbaatar	8.2	13.7	15.6	13.8	7.4	11.7
Eroo	9.8	16.0	18.2	15.9	8.4	13.7
Hutag	11.1	16.0	17.5	15.3	8.8	13.7
Bulgan	9.0	14.2	16.0	13.9	7.2	12.1
Hujirt	8.2	17.3	14.6	12.9	7.0	12.0
Arvaikheer	9.2	14.1	15.4	13.9	8.5	12.2

Table 3.1.2.8 Average monthly Maximum temperature in the growing season(°C)

Station	May	June	July	Aug.	Sept.	Average
Erdenesant	24.1	28.0	28.1	27.3	22.4	26.0
Maanit	24.1	27.6	27.7	26.4	21.5	25.5
Baruunkharaa	25.8	28.7	28.2	27.0	22.3	26.4
Ulaanbaatar	22.8	25.7	26.7	24.7	20.1	24.0
Eroo	27.5	30.5	30.4	28.9	23.8	28.2
Hutag	27.4	30.4	29.1	27.8	23.0	27.5
Bulgan	25.2	27.9	27.2	25.9	21.6	25.6
Hujirt	23.1	26.3	25.9	25.1	21.1	24.3
Arvaikheer	22.8	26.3	25.7	25.1	20.7	24.1

Table 3.1.2.9 Average monthly Minimum temperature in the growing season(°C)

Station	May	June	July	Aug.	Sept.	Average
Erdenesant	-4.0	3.4	6.8	4.8	-2.6	1.7
Maanit	-6.3	1.2	5.1	3.0	-5.4	-0.5
Baruunkharaa	-0.6	3.9	8.1	5.7	0.2	3.5
Ulaanbaatar	-4.7	2.2	5.7	3.5	-3.9	0.6
Eroo	-6.4	1.9	6.5	4.0	-4.4	0.3
Hutag	-3.6	3.5	9.1	5.0	-2.7	2.3
Bulgan	-5.5	1.7	5.4	3.0	-4.7	0.0
Hojirt	-5.4	0.9	3.9	1.9	-5.1	-0.8
Arvaikheer	-3.4	3.5	6.8	4.9	-1.9	2.0

				•				
Table 3.1.2.10	Annual	Average	Wind	vane (%) = (19	32-1992)	
Station	N	NE	E	SE	8	SW	W	NW
Kujirt	19.1	12.7	4.2	16.6	10.1	3.2	4.6	29.5
Eroo	32.5	16.8	8.1	5.1	7.6	6.9	6.0	17.1
Maanit	32.1	7.0	8.0	6.5	6.4	5.0	5.3	29.7
Bogd	17.0	7.4	5.5	5.7	8.5	19.1	21.8	15.0
Arvaikheer	29.1	5.0	2.6	4.4	6.3	8.2	13.1	31.1
Baruunkharaa	20.4	6.1	5.1	24.7	16.7	4.7	3.7	18.7
Suhbaatar	26.4	5.8	10.7	22.5	11.4	3.0	2.7	17.6
Buyan-uhaa	26.3	5.9	1.7	7.5	16.2	9.6	8.5	23.9
Morin uul	7.5	3.4	1.5	8.4	2.6	2.2	6.8	67.7
Ulaanbaatar	18.4	1.9	0.9	2.4	8.1	10.5	39.9	22.6
Average	22.9	7.2	4.8	10.4	9.4	7.2	11.2	27.3

Average	22.9	7.2	4.8	10.4	9.4	1.6	1
		• .		:			
able 3.1.2.11				probabili -	ty (m/	sec)	- I
Stasion	Ones for		Unes	for Ten	Ones fo	LINE	
Hutag		19		20	<u>:</u>		22
Bulgan		21		22			26
Hujirt		23		23			27
Arvaikheer		24		25			28
Erdenesant		28		29			30
Ulaanbaatar		23		25			28
Baruunkharaa		24		25			27
Eroo		19		20			23
Bogd		32		34			38
Maani t		24		25			29

Baruunkharaa		2	4	25			27	•		
Eroo		1	9	20			23			
Bogd	• • • • • • • • • • • • • • • • • • • •		2	34			38			
Maani t		2	4	25			29	1		
100 mg					e				: '	. :
		. :			· · · · · · · · · · · · · · · · · · ·					
				1					1 .	
									1	:
Table 3.1.2.12	Hur	nidity du	ring the	growing	season		961-1992)	1	1	:
Station		May	June	July	Aug.	Sept.	Average			
Arvaikheer		46	53	64	64	55	56.4			
Baruunkharaa	1	47	55	66	68	64	60.0			:
Bulgan	Į	50	59	70	72	67	63.6			
Eroo	1	54	61	73	76	- 71	67.0			
Maant		55	62	71	72	67	65.4			
Hutag		53	63	74	76	70	67.2		 	
Erdenesant		52	60	71	72	65	64.0	1		
Hujirt		55	61	71	72	65	64.8			
		40	: 44	49	52	51	47.2			
Bogd			57.6	67.7	69.3	63.9	61.7			
Average		50.2	31.0	01.1	03.0	00.0	1	j		
						÷				

Table 3.1.2.13 Hours of Sunlight (Hours of Su	, , ,	(our)	(1961-19	1992)									
Station	Aimag	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	0ct.	Nov.	Dec.	Total
Hutag	Bulgan	183.2	203.7	255.3	249.9	291.2	283.7	263.0	261.7	245.8	222.0	173.2	157.4	2790.1
Bulgan	Bulgan	183.2	203.7	255.3	249.9	291.2	283.7	263.0	261.7	245.8	222.0	173.2	157.4	2790.1
Hujirt	Ovorhangai	196.4	210.7	261.5	252.9	283.0	272.8	2.092	250.0	250.3	238.5	196.0	176.3	2848.6
Arvaikheer	Ovorhangai	196.4	210.7	261.5	252.9	283.0	272.8	260.2	250.0	250.3	238.5	196.0	176.3	2848.6
Erdenesant	Tov	164.4	195.5	257.3	256.8	281.8	568.6	259.2	257.8	228.1	215.0	160.4	143.8	2688.7
Ulaanbaatar	Ulaanbaatar	176.1	204.6	265.2	262.5	299.3	269.0	249.3	258.3	245.7	227.5	177.4	156.4	2791.3
Barumkharaa	Selenge	203.1	204.8	267.1	269.4	309.6	295.0	277.7	268.6	256.4	235.7	197.1	175.2	2959.7
Eroo	Selenge	176.1	204.8	265.2	262.5	299.3	269.0	249.3	258.3	245.7	227.5	177.4	156.4	2791.5
Bogd	Ovorhangai	196.4	210.7	261.5	252.9	283.0	272.8	2.092	250.0	250.3	238.5	196.0	176.3	2848.6
Maant	Tov	203.1	204.8	267.1	269.4	309.6	295.0	277.7	268.6	256.4	235.7	197.1	175.2	2959.7
Average		187.8	205.4	261.7	257.9	293.1	278.2	262.0	258.5	247.5	230.1	184.4	165.1	2831.7

250.3 1316.3 250.3 1316.3 228.1 1295.5 245.7 | 1321.6 256.4 1407.3 245.7 1321.6 263.0 261.7 245.8 1345.4 245.8 1345.4 able 3.1.2.14 Hours of Sumlight in the growing season (Hour) (1961-1992) 250.3 261.7 250.0 250.0 257.8 258.3 268.6 258.3 250.0 268.6 263.0 260.2 260.2 249.3 249.3 2.092 259.2 277.7 May June 291.2 283.7 291.2 283.7 268.6 269.0 295.0 269.0 272.8 272.8 272.8 283.0 309.6 299.3 283.0 299.3 Ovorhangai Ovorhangai Ulaanbaatar Ovorhangai Aimag Bulgan Selenge Selenge Bulgan Tov Barumkharaa Ul aanbaatar Arvaikheer Erdenesant Station Hujirt Bulgan Hutag

Table 3.1.2.15 Days of Snowfall (Day)	Days of Sn	owfall ((Day)	(1961-1992)	(26						:	
Station	Aimag	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar. April	April	May	June	Total
Arvaikheer	Ovorbangai	1.5	4.7	18.0	18.2	14.2	7.3	7.6	7.4	3.2	1.0	83.1
Hujirt	Ovorhangai	1.6	7.6	17.4	25.4	28.6	24.1	15.0	6.8	3.0	0.3	129.8
Bogd	Ovorhangai	0.5	2.9	10.6	14.8	: 0 • 8 : 0		4.7	3.0	0.8	0.1	52.1
Barumkharaa	Selenge	1.0	7.0	18.0	31.0	31.0	28.0	20.0	5.0	2.0		143.0
Eroo	Selenge	:	5.0	15.0	26.0	31.0	28.0	14.0				121.0
Bulgan	Bulgan	1.0	8.0	17.0	27.0	29.0	25.0	19.0	7.0	1.0		134.0
Hutag	Bulgan	0.3	4.7	14.2	24.6	27.1	23.6	10.9	2.5			107.9
Maant	Tov	3.0	0 2	15.0	22.0	31.0	24.0	13.0	5.0	2.0		120.0
Erdenesant	Tov	3.0	7.0	16.0		31.0		16.0	0.6	3.0		138.0
Average		1.3	5.8	15.7-	24.0	:	21.4	13.4	5.3	2.1	0.5	115.1

Table 3.1.2.16	Evaporation Volume (mm	Volume (mm)	(April~Oct.	t.)		
Name of River	Station	Aimag	Height(m)	(DEvaporation	②Precipitation ③=①÷②)+(1)=(8)
Eroo	Eroo	Selenge	676.00	200.0	288.1	
Ongi	Uyanga	Ovorhangai	1,680.00	800.0	233.4	ۍ دې
Eroo	Dulaanhaan	Selenge	665.70	780.0	288.1	
Egiin-gol	Hatgal	Bulgan	1,668.40	478.3	319.1	1.50
Selenge	Zumburen	Selenge	781.89	750.0	288.1	2.60
Egiin-gol	Hantai	Bulgan	1, 706, 00	370.0	319.1	~
Orbon	Harborin	0vorbangai	1,560.00	800.0	286.3	2.79
Orbon	Orbon	Orbon	747.90	638.2	319.1	2.00
Tuti	Ulaanbaatar	Ulaanbaatar	1,963.80	598.0	241.1	-
Haraa	Barumharaa	Selenge	807.00	627.1	284.6	2.20
Kuder	Huder	Selenge	1,025.00	640.0	288.1	
Selbe	Dambadarjaa	Tov	1,263.80	571.8	241.1	2.37
Total	Ondorshireet	Tov	1,357.50	830.0	268.7	
Terelj	Terelj	Tov	1,540.00	383.8	241.1	
Ongi	Arvaikheer	Ovorbangai	1,813.10	735.7	233.4	
Haraa	Darkhan	Darkhan uul	705.50	735.0	284.6	2.58
Bulgan	Bulgan	Bulgan	1,209.60	524.1	319.1	1.62
Bulgan	Baitag	Bulgan	1,186.00	540.0	319.1	1.69
Tes	Bayan-uul	Ovorhangai	1,419.70	419.4	233.4	1.80
Taats	Narinteel	Ovorhangai	1,600.00	930.0	233.4	3.
Tutel	Bosgiinguur	Tov	1,600.00	320.0	241.1	1.0
Tuul	Zaamar	Tov	1,052.70	0.019	241.1	2.6
Uliastai	ulaanbaatar	ulaanbaatar	1,963.00	598.0	241.1	2.4
Selenge	Hutagt	Bulgan	937.88	588.9	321.8	~
Selenge	Sukhbaatar	Selenge	625.90	730.9	288.1	2.54
Orkhon	Sukhbaatar	Selenge	625.90	730.0	288.1	2.5
Average				624.2		2.31

SOURCE: Institute of Water Policy

Year	Jan.	Feb.	Mar.	April	, Yay	June	July	Aug.	Sept.	et.	Nov.	Dec.	Average
1961	-41.0	-32.0	-26.0	-15.0	-8.0	-1.0	9.0	3.0	-5.0	-15.0	-34.0	-39.0	-17.0
1962	-40.0	-42.0	-27.0	-14.0	-7.0	1.0	0.8	5.0	-4.0	-15.0	-31.0	-33.0	-16.6
1963	-39.0	-36.0	-21.0	-15.0	-11.0	2.0	5.0	5.0	0.4-	-14.0	-25.0	-33.0	-15.5
1964	-35.0	-45°C	-26.0	-15.0	0.4	2.0	7.0	0.6	0.4-	-19.0	-24.0	-36.0	-15.
1965	-40.0	-39.0	-25.0	-15.0	-7.0	3.0	4.0	4.0	-6.0	-13.0	-31.0	-42.0	-17.
1966	-43.0	-41.0	-33.0	-14.0	0-9-	1.0	6.0	3.0	-4.0	-13.0	-31.0	-40.0	-17.
1967	42.0	-37.0	-23.0	-13.0	-4.0	4.0	0.9	1.0	0.9-	-15.0	-31.0	-40.0	-16.
1968	-41.0	-40.0	-21.0	-12.0	5.0	1.0	5.0	2.0	-7.0	-13.0	-30.0	-39.0	-16.
1969	-46.0	-43.0	-30.0	-15.0	-8.0	2.0	7.0	4.0	-5.0	-13.0	-25.0	-36.0	-17.
1970	-39.0	-36.0	-31.0	-14.0	-3.0	3.0	7.0	5.0	-5.0	-15.0	-29.0	-39.0	-16.
1971	-37.0	-38.0	-30.0	-17.0	0.8~	4.0	6.0	4.0	-5.0	-14.0	-22.0	-37.0	-16.
1972	-39.0	0.07-	24.0	-13.0	-7.0	2.0	6.0	0.0	-5.0	-14.0	-28.0	-33.0	-12 -12
1973	-37.0	-37.0	-21.0	-15.0	0.9	4.0	0.9	5.0	0.0	-12.0	-20.0	-29.0	5
1974	-36.0	-39.0	-31.0	-11.0	-7.0	-2.0	7.0	8.0	-3.0	-17.0	-29.0	-37.0	-16.
1975	-33.0	-33.0	-22.0	-13.0	0.9-	2.0	6.0	0.9	-3.0	-11.0	-20.0	-36.0	-13.
1976	-39.0	-34.0	-26.0	-13.0	0-6-	2.0	8.0	0.0	-2.0	-14.0	-25.0	-30.0	-15
1977	-41.0	-36.0	-25.0	-13.0	o. %-	1.0	6.0	2.0	0.8- -	-16.0	-23.0	-33.0	-16.
1978	-37.0	-37.0	-28.0	-15.0	-9.0	2.0	5.0	2.0	-3.0	-15.0	-25.0	-38.0	-16
1979	-41.0	-35.0	-21.0	-16.0	-5.0	4.0	6.0	3.0	-5.0	-13.0	-31.0	-39.0	-16.
1980	-44.0	-39.0	-36.0	-13.0	0.8-	0.1	7.0	3.0	0-9-	-16.0	-29.0	-39.0	-18
1981	-41.0	-37.0	-23.0	0.6-	-5.0	1.0	7.0	2.0	-5.0	-19.0	-31.0	-40.0	-16.
1982	-40.0	-35.0	-25.0	-13.0	0-9-	5.0	8.0	5.0	-4.0	-13.0	-21.0	-31.0	-14.
1983	-38.0	-38.0	-26.0	-13.0	ე.მ-	2.0	လ	3.0	-4.0	-13.0	-23.0	-31.0	-15.
1984	-40.0	-39.0	-25.0	-18.0	-4.0	0°.	5.0	3.0	-2.0	-10.0	-30.0		-14.
1985	~ 1	: -	-30.0	-10.0	-6.0	4	7.0	4.0	-7.0	-16.0	-27.0	-35.0	-11
1986	-39.0	-37.0	-24.0	-12.0	0.4-	က	8.0	S.0	-5.0	-10.0	-27.0	-37.0	-14.
1987	-40.0	-40.0	-30.0	-12.0	-2.0	-2.0	5.0	0.6	-3.0	-14.0	-27.0	-32.0	-16.
1988	-35.0	-37.0	-29.0	-15.0	-7.0	3.0	5.0	6.0	 0	-13.0	-22.0	-32.0	-15.
1989	-38.0	-35.0	-22.0	-11.0	-4.0	-1.0	0.9	2.0	0.9-	-11.0	-27.0	-36.0	-15.3
1990	-41.0	-34.0	-17.0	-15.0	-6.0	0.0	11.0	8.0	-3.0	-10.0	-26.0	-31.0	-13,
AVATATA	Y 06	2 40	0	0		,	,	,	,	4	* **	4 24	,

rear	Jan.	Feb.	Mar	April	May	June	July	Aug.	Sept.	0ct.	Nov.	Dec.	Average
1961	-11.0	-5.0	10.0	23.0	26.0	30.0	31.0	28.0	23.0	15.0	-1.0	-13.0	13.0
1962	-15.0	-5.0	S.0	17.0	25.0	31.0	30.0	29.0	22.0	18.0	-3.0	-5.0	12.4
1963	-11.0	-6.0	10.0	17.0	27.0	30.0	29.0	31.0	24.0	15.0	5.0	0.6-	13.5
1964	-11.0	-11.0	7.0	20.0	28.0	31.0	33.0	29.0	22.0	14.0	6.0	-10.0	13.2
1965	-13.0	-7.0	0.6	17.0	26.0	32.0	29.0	28.0	22.0	19.0	3.0	-11.0	12.8
1966	0.9	-2.0	1.0	15.0	27.0	30.0	29.0	28.0	28.0	16.0	3.0	-17.0	12.7
1961	-11.0	0.9-	0.6	13.0	28.0	30.0	29.0	29.0	23.0	17.0	-3.0	-12.0	12.2
1968	-16.0	-11.0	8.0	20.0	28.0	32.0	34.0	30.0	25.0	13.0	4.0	-7.0	13.3
1969	-19.0	0.6-	8.0	22.0	25.0	35.0	32.0	27.0	23.0	14.0	7.0	0.9-	13.3
1970	-11.0	-5.0	5.0	20.0	25.0	33.0	32.0	29.0	20.0	17.0	2.0	0.6-	13.2
1971	0-6-	0.6-	5.0	23.0	29.0	30.0	27.0	29.0	21.0	18.0	5.0	-7.0	13.5
1972	0.6-	-10.0	0.6	22.0	28.0	31.0	30.0	30.0	25.0	12.0	1.0	0.6-	13.3
1973	-14.0	9-0	လိ	19.0	26.0	32.0	28.0	27.0	23.0	13.0	0.0	-7.0	12.8
1974	-10.0	0.4-	2.0	17.0	30.0	29.0	30.0	33.0	22.0	13.0	3.0	0.6-	13.0
1975	-9.0	-1.0	10.0	16.0	28.0	30.0	29.0	28.0	25.0	12.0	3.0	-12.0	13.3
1976	0.6-	-5.0	1.0	17.0	29.0	30.0	29.0	27.0	25.0	19.0	1.0	-7.0	13.1
1977	-15.0	-2.0	11.0	20.0	25.0	31.0	35.0	32.0	27.0	21.0	6.0	0.9	15.4
1978	-10.0	-1.0	0.8	22.0	26.0	31.0	30.0	31.0	26.0	16.0	5.0	-7.0	14.8
1979	0.8-	0.4	0.9	0.9	30.0	32.0	29.0	28.0	22.0	19.0	-4.0	-10.0	13.0
1980	-18.0	-12.0	-2.0	15.0	28.0	34.0	32.0	31.0	25.0	0.6	0.0	-13.0	10.8
1981	-20.0	-10.0	6.0	23.0	26.0	28.0	32.0	27.0	25.0	12.0	-2.0	-11.0	11.3
1982	-12.0	တ္-	0.6	24.0	27.0	29.0	30.0	29.0	24.0	16.0	2.0	-7.0	13.6
1983	-13.0	-12.0	5.0	.0 91	28.0	25.0	29.0	30.0	24.0	17.0	5.0	0.9-	12.3
1984	-10.0	0.6-	4.0	21.0	29.0	31.0	31.0	27.0	24.0	16.0	-5.0	-11.0	12.3
1985	-18.0	-12.0	-2.0	16.0	31.0	28.0	28.0	27.0	21.0	17.0	0:1	-10.0	10.6
1986	-14.0	0.6-	5.0	17.0	28.0	30.0	30.0	32.0	26.0	18.0	2.0	0.6-	13.0
1987	-11.0	-6.0	2.0	20.0	27.0	33.0	32.0	30.0	25.0	15.0	0.0	0.1	13.8
1988	-13.0	O. %-	5.0	21.0	24.0	27.0	30.0	29.0	25.0	16.0	7.0	-8.0	12.9
1989	-11.0	0.9-	12.0	21.0	29.0	30.0	32.0	27.0	23.0	19.0	-1.0	0.9-	14.1
1990	-12.0	-3.0	12.0	17.0	31.0	30.0	30.0	26.0	23.0	21.0	4.0	-5.0	14.5
AVERAVA	12 2 1	0]									

Table 3.1.2.19 (1) Arvaikheer Monthly average Soile Temperature (°C)

# 0.0			1	TEST.	ADLIT	, igy	255	, the	Jug.	י ממטים	•		•
1	AVPRAGO			-6.0	Ω Ω	13.1	18.3	18.6	16.2	10.2	1.1	-8.7	
_	Mariana			-1.0	8.0	18.0	20.9	23.0	18.7	13.0	5.0	-13.4	
	Minimm	•.•.		-12.0	0.0	10.0	15.0	14.0	13.5	7.2	-2.0	-5.0	
-0.2 H	Average			-5.3	1.6	9.1	14.5	16.4	15.5	11.3	4.7	-3.3	
1	Maximum			-2.7	5.0	11.3	15.7	18.9	17.8	13.0	7.3	-0.5	
	Minimum			-10.2	-0.5	6.2	12.1	14.0	12.9	9.1	1.8	6.	
 				:									
-0.4 日	Average			ης. C.	0.0	6.3	11.8	14.4	14.4	11.2	5.7	တ္ ဝှ	
	Maximum			-0.7	3.6	80	15.2	16.1	16.4	13.0	7.6	1.1	
	Minimum			9.6-	 	3.5	4.6	12.6	12.3	9.2	3.5	-2.6	
		1		1 1	•	Ċ	t	10.0	19 &	0 01	7.9	2.5	-1.9
# ≫, O	Average	, S		, c	ກຸ ພ ⊣ ເ	7	- 0	200) (°	10.0) U	· 6	8.
	Maximum	.7.	-4-v	6.2-		. •) n	76.0) • K	7.3	•		
	Minimum	-8.5	6-	-10.0	6.3	4.1	3.1	7.2	11.2	10.2	6.1	 3.	χ. Σ
# 9	Average	-15	00°	8° 67	-2.0	4.0-	2.9	6.8	10.0	9.7	7.7	4.5	1.1
i }	Maximum	0			. : _.	0.3	4.8	8.7	13.5	10.6	თ ∞	7.8	2.2
	Minimum	-3.4	-6.3	-6.5	ကို	6.0-	1.2	1.0	7.9	8.7	6.7	3.2	0.4
*		C	•	(C)			40	2.6	er. Lr.	4	90	ა. დ.	7
=3.7 ===================================	Average	0.7		7.0		>	ř >	;	> 1				•
	Maximum	5.2	2.6	6.0	0.7	0.4	3	9	8.0	7.2	10.1	ي ن	70 ·
	Minimu	7.8	0.2	4.0-	9.0	9.0	-0.2	0.3	4.2	5.5	5.8	2.0	3.2

Table 3.1.2.19 (2) Arvaikheer Monthly average Soile Temperature (°C)

Depth		Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
E 0.0	Average			0.7-	5.6	15.7	21.9	23.2	20.3	12.0	1.9	-11.0	******
	Maximum			-2.0	10.0	19.0	25.0	26.0	24.0	15.5	6.0	-7.0	
	Minimum		:	-14.0	3.0	13.0	17.0	20.0	17.0	8.6	-1.0	-17.0	
÷	: .					:	 ::	:	:				
-0.2 H	Average			4.9 -	3.2	11.6	17.5	19.7	18.4	12.4	4.2	-4.3	
	Maximum			က္	6.7	13.8	20.4	22.7	22.1	4.7	7.4	9	**************************************
	Minimum			-11.9	0.1	7.5	14.0	17.5	16.4	10.1	2.4	6.8 -	70. w 10. w
												:	
-0.4 H	Average			6.9-	1.3	დ. დ	14.6	16.9	17.1	12.4	5.7	-1.4	
	Maximum			-4.0	5.3	11.7	17.8	19.6	21.2	16.0	12.0	1.2	-
	Minimum			-12.0	-1.0	4.4	12.1	10.7	15.3	10.5	დ	4.8	
•													
e ⊗. O	Average	6.0°	-10.6	4.9	6.0	4.6	10.1	13.4	14.6	12.0	7.1	4.1	-4.6
	Maximum	ئ. ئ	-7.9	-4.3	:	6.4	11.5	15.0	16.2	13.8	9.2	2.7	-1.3
	Minimum	-14.1	-14.0	9.8-	-2.6	1.0	& &	11.6	12.9	10.7	5.3	0.2	-7.8
-1.6 H	Average	-3.2	-5.5	-4.6	-1.8	0.8	4.5	77.	10.9	10.6	 	4.5	0.7
	Maximum	-0.4	-2.7	-1.0	-0.2	2.0	6.4	10.2	13.2	12.4	9.6	6.4	2.4
	Minimum	-5.6	-7.3	-7.5	-3.7	-0.7	2.3	6.5	9.0	9.4	6.9	3.4	8;0 0
-3.2 H	Average	2.2	0.9	0.1	-0	0.2	0.8	3.6	6.2	7.3	7.2	ي. ق	4.0
	Maximum	3.6	2.7	1.6	2.0	2.8	3. 4.	6.4	9.2	10.2	8.2	7.4	ري دي دي
	Minimum	0.7	-0-7	-2.2	-1.7	-0.5	6.0-	1.3	4.4	6.4	5.8	4.7	2.8

Table 3.1.2.19 (3) Arvaikheer Monthly average Soile Temperature (°C)

Depth		Jan.	Feb	Mar.	April	May	June	July	Aug.	Sep	Oct.	Nov.	Dec.
п 0-0	Average			9.9-	3.3	12.5	18.9	19.2	16.9		-0.2	-10.9	
	Maximum			-2.7	7.3	15.0	22.0	23.8	20.0	12.0	0	7.7	
	Minimum			-11.8	9.0	8.4	14.8	16.7	14.6		-2.0	-15.2	
:								:		•			
-0.2 H	Average			0-9-	1.3	8.4	13.9	15.9	15.1	10.1	3.0	4.9	
	Maximum			-2.6	4.0	10.8	16.5	18.3	18.6	13.9	5.2	8.2-	
	Minimum			-10.5	-1- -5:	7.3	12.1	13.3	13.2	8.2	0.9	-8.5	
				-									
-0-4 회	Average			<u>4.</u> ∞.	0.1	5.2	10.9	13.7	13.1	10.2	ა ი	-1.5	
	Maximum			-3.0	1.1	9.7	12.5	16.0	16.8	12.0	5.4	-0.4	-
	Minimum			-6.7	9.0-	3.5	0.6	10.8	11.2	9.1	2.0	-2.8	
# 04	Anonous	-7.0	0 7-	-5.2	7 7	~	u u	101	<u>.</u>	у С	52		
1	Novi Con			, c			0 0	- C	2 6	, c		2 2	
	TAX I HUH	?		 •	? ?	2	•	7	7.7	16.0	2	>	
	Minimum	-193	-10.9	9-7-	-4.6	9-0	1.4	6.2	တ	O. &	က်	0.6	
-1.6 m	Average		-3.0	-3.0	-1.4	-0.2	1.2	<u>ቀ</u> ጜ	7.2	7.5	5 0	3.1	0.8
	Maximum	0.3	6.0-	-1.3	-0.7	0.4	∞.		6.6	9.5	8.2	4.0	1.5
	Minimum	-2.6	-4.8	4.4-	-2.5	-0.7	0.4	2.8	2.0	6.0	4.6	2.1	4.0
-3.2 m	Average		8 0	c C	. 0.1	0.0	0.1	0.3	2.2	4 3	4.7	4.1	2.7
!	May mile	\ \ \ \	.	0	9	4.0	00	σ.	4.4		9	0,0	60
	Minimum	0	0.4	-0	- O	-0.2	0.1	2 0	0.2	2.2	, e.	6.2	80

Table 3.1.2.19 (4) Arvaikheer Monthly average Soile Temperature (°C)

Average -7.3 3.4 13.8 19.7 20.9 18.6 11.1 Maximum -2.0 7.0 17.0 22.4 25.0 21.0 14.5 Minimum -4.8 2.5 10.5 16.5 18.5 17.5 11.8 Average -5.0 0.0 7.1 14.1 16.4 15.4 9.8 Average -5.0 -6.1 -4.7 7.1 14.1 16.4 15.4 9.8 Average -5.0 -6.1 -4.7 -1.1 3.7 9.0 16.1 18.9 17.7 13.6 Average -5.0 -6.1 -4.7 -1.1 3.0 4.6 11.2 14.8 14.5 10.2 Average -5.0 -6.1 -4.7 -1.1 3.0 8.3 10.5 11.6 10.5 Average -0.7 -2.2 -0.5 -1.2 0.7 0.3 10.5 10.5 0.7 0.3 10.5	Depth		Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
Maximum -2.0 7.0 17.0 22.4 25.0 21.0 14.5 Minimum -16.4 -1.0 11.0 15.6 18.0 11.8 Average -4.8 2.5 10.5 16.5 18.5 17.5 11.8 Minimum -5.0 0.4 7.6 13.4 16.4 15.4 9.8 Moximum -5.0 0.4 7.6 13.4 16.3 16.1 11.9 Average -5.0 -6.1 -4.7 -1.1 3.7 9.0 16.1 18.9 17.7 13.6 Minimum -2.5 -0.5 -1.1 3.0 4.6 11.2 14.8 14.5 10.2 Maximum -2.5 -0.5 -0.7 -1.1 3.0 8.3 12.1 10.0 Average -0.7 -2.3 -2.9 -1.5 -0.3 2.9 7.0 9.7 9.9 Average -0.7 -2.3 -2.9 -2.5	0.0 H	Average			-7.3	3.4	13.8	19.7	20.9	18.6	11.1	0.8	8.6-	
Minimum -16.4 -1.0 11.0 15.6 18.0 15.6 8.0 Average -4.8 2.5 10.5 16.5 18.5 17.5 11.8 Average -1.0 5.9 15.0 18.5 20.8 19.9 13.4 Average -5.0 0.4 7.1 14.1 16.4 15.4 9.8 Minimum -2.5 0.04 7.1 14.1 16.4 15.4 9.8 Moximum -2.5 -6.1 -4.7 -1.1 3.0 4.6 11.2 14.8 14.5 10.2 Maximum -2.5 -0.5 -0.5 -1.1 3.0 4.6 11.2 14.8 13.8 Minimum -8.2 -0.5 -0.7 -1.1 3.0 8.3 10.6 11.3 Average -0.7 -2.3 -2.9 -1.5 -0.3 2.9 7.0 9.7 9.9 Average -0.7 -2.3 -4.5		Maximum			-2.0	7.0	17.0	22.4	25.0	21.0	14.5	4.0	0.9-	
Average Average -4.8 2.5 10.5 16.5 18.5 17.5 11.8 Maximum -9.9 0.0 7.1 14.1 16.4 15.4 9.8 Minimum -5.0 -6.1 -4.7 -1.1 3.7 9.0 16.1 18.9 17.7 13.6 Moximum -2.5 -6.1 -4.7 -1.1 3.0 4.6 11.2 14.8 14.5 10.2 Moximum -2.5 -6.1 -4.7 -1.1 3.0 8.3 12.1 13.6 10.2 Moximum -2.5 -0.5 -1.9 0.7 5.3 10.5 12.1 10.0 Average -0.7 -2.2 -0.3 -1.0 -0.5 0.7 6.5 9.2 12.4 11.3 Minimum -2.3 -4.2 -4.5 -2.8 -1.2 0.7 6.5 9.2 12.4 11.3 Miximum -2.3 -2.9 -2.6 -2.8		Minimum		· · · · · · · · · · · · · · · · · · ·	-16.4	-1.0	11.0	15.6	18.0	15.6	8.0	ئ ئ	-13.3	
Average -4.8 2.5 10.5 18.5 17.5 11.8 Maximum -9.9 -0.0 7.1 14.1 16.4 15.4 9.8 Minimum -5.0 0.4 7.6 13.4 16.3 16.1 11.9 Average -5.0 -6.1 -4.7 -1.1 3.7 9.0 16.1 18.9 17.7 13.6 Minimum -2.5 -6.1 -4.7 -1.1 3.0 8.3 12.1 13.5 11.6 Average -5.0 -6.1 -4.7 -1.1 3.0 8.3 12.1 13.5 10.2 Minimum -8.2 -9.6 -8.1 -2.2 0.4 6.3 10.6 12.1 10.0 Average -0.7 -2.3 -2.9 -1.5 -0.3 2.0 4.5 8.0 8.2 Minimum -2.3 -4.2 -4.5 -2.8 -1.2 0.4 4.8 8.0 8.2 <t< td=""><td></td><th></th><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>														
Maximum -1.0 5.9 15.0 18.5 20.8 19.9 13.4 Minimum -9.9 0.0 7.1 14.1 16.4 15.4 9.8 Average -5.0 0.4 7.6 13.4 16.1 11.9 13.6 Minimum -2.5 -6.1 -4.7 -1.1 3.0 8.3 12.1 14.5 10.2 Maximum -2.5 -6.1 -4.7 -1.1 3.0 8.3 12.1 14.8 13.8 Maximum -2.5 -6.1 -4.7 -1.1 3.0 8.3 12.1 10.0 Average -0.7 -2.2 -0.5 0.7 6.5 9.2 12.4 11.3 Average -0.7 -2.2 -1.5 -0.3 2.9 -0.3 2.9 9.9 Average 3.0 1.2 0.5 0.7 6.5 9.2 12.4 4.6 6.1 Average 3.0 1.2 0.	-0.2 H	Average	:		-4.8	2.5	10.5	16.5	18.5	17.5	11.8	4	-3.1	
Minimum -9.9 0.0 7.1 14.1 16.4 15.4 9.8 Average -5.0 0.4 7.6 13.4 16.3 16.1 11.9 Minimum -5.0 -6.1 -4.7 -1.1 3.0 8.3 12.1 13.6 10.2 Average -5.0 -6.1 -4.7 -1.1 3.0 8.3 12.1 13.5 11.6 Average -5.0 -6.1 -4.7 -1.1 3.0 8.3 12.1 13.5 11.6 Maximum -2.5 -0.5 -1.9 -2.2 0.4 6.3 10.8 12.1 10.0 Average -0.7 -2.3 -2.9 -1.5 -0.3 2.9 7.0 9.7 9.9 Average 3.0 1.9 1.2 0.7 6.5 9.2 12.4 4.6 6.1 Average 3.0 1.9 1.2 0.7 6.5 9.2 4.2 6.1		Maximum			0.1.	5.0	15.0	18.5	8.02	19.9	13.4	8.9	0.7	
Average Average -5.0 0.4 7.6 13.4 16.3 16.1 11.9 Maximum -1.6 3.7 9.0 16.1 18.9 17.7 13.6 Maximum -2.5 -6.1 -4.7 -1.1 3.0 4.6 11.2 14.8 14.5 10.2 Maximum -2.5 -0.5 -1.9 0.7 -5.3 10.5 12.1 13.5 11.6 Maximum -8.2 -9.6 -8.1 -2.2 0.4 6.3 10.5 12.1 10.0 Maximum -6.6 -0.3 -1.5 -0.3 2.9 7.0 9.7 9.9 Maximum -2.3 -4.2 -4.5 -2.8 -1.5 -0.3 2.9 7.0 9.7 9.9 Maximum -2.3 -4.2 -4.5 -2.8 -1.2 0.4 4.8 8.0 8.2 Average 3.0 1.3 0.7 0.6 0.8 2.4 <t< td=""><td></td><th>Minimum</th><td>: : ::::::::::::::::::::::::::::::::::</td><td></td><td>6.6-</td><td>0.0</td><td>7.1</td><td>14.1</td><td>16.4</td><td>15.4</td><td>9.8</td><td>1.1</td><td>-6.2</td><td></td></t<>		Minimum	: : ::::::::::::::::::::::::::::::::::		6.6-	0.0	7.1	14.1	16.4	15.4	9.8	1.1	-6.2	
Average -5.0 0.4 7.6 13.4 16.3 16.1 11.9 Maximum -1.6 3.7 9.0 16.1 18.9 17.7 13.6 Minimum -2.5 -6.1 -4.7 -1.1 3.0 8.3 12.1 14.8 14.5 10.2 Average -5.0 -6.1 -4.7 -1.1 3.0 8.3 12.1 13.5 11.6 Maximum -2.5 -0.5 -1.9 0.7 5.3 10.5 13.7 14.8 13.8 Average -0.7 -2.2 -0.4 6.3 10.5 12.1 10.0 Average -0.7 -2.3 -1.5 -0.3 -1.5 -0.3 -1.2 0.4 4.8 8.0 8.2 Average 3.0 1.2 0.7 0.6 0.8 2.4 4.6 6.1 Maximum 1.8 1.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 </td <td></td> <th></th> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>••••</td> <td></td> <td></td>												••••		
Maximum -1.6 3.7 9.0 16.1 18.9 17.7 13.6 Minimum -2.5 -6.1 -4.7 -1.1 3.0 4.6 11.2 14.8 17.7 13.6 Average -5.0 -6.1 -4.7 -1.1 3.0 8.3 12.1 13.5 11.6 Maximum -2.5 -0.5 -1.9 -1.5 -0.3 10.5 12.1 10.0 Average -0.7 -2.3 -2.9 -1.5 -0.3 2.9 7.0 9.7 9.9 Average -0.7 -2.3 -4.2 -4.5 -2.8 -1.2 0.7 6.5 9.2 12.4 11.3 Average 3.0 1.9 1.2 0.7 6.5 9.2 12.4 6.1 Average 3.0 1.9 1.2 0.7 0.6 0.8 2.4 4.6 6.1 Maximum 3.8 2.7 2.7 1.3 1.1 2.3	-0.4 田	Average	~		-5.0	0.4	7.6	13.4	16.3	16.1	11.9	5.5	8-0-	
Minimum -8.9 -9.0 4.6 11.2 14.8 14.5 10.2 Average -5.0 -6.1 -4.7 -1.1 3.0 8.3 12.1 13.5 11.6 Maximum -2.5 -0.5 -1.9 0.7 5.3 10.5 13.7 14.8 13.8 Minimum -8.2 -9.6 -8.1 -2.2 0.4 6.3 10.5 12.1 10.0 Average -0.7 -2.3 -2.9 -1.5 -0.3 2.9 7.0 9.7 9.9 Minimum -2.3 -4.2 -4.5 -2.8 -1.2 0.4 4.8 8.0 8.2 Average 3.0 1.9 1.2 0.7 0.6 0.8 2.4 4.6 6.1 Maximum 3.8 2.7 2.7 1.3 1.1 2.3 4.2 Minimum 1.8 1.1 0.0 0.1 0.1 3.0 3.3 4.2		Maximum			-1.6	3.7	0.6	16.1	18.9	17.7	13.6	7.7	∞.	
Average -5.0 -6.1 -4.7 -1.1 3.0 8.3 12.1 13.5 11.6 Maximum -2.5 -0.5 -1.9 0.7 -5.3 10.5 13.7 14.8 13.8 Maximum -8.2 -9.6 -8.1 -2.2 0.4 6.3 10.5 12.1 10.0 Average -0.7 -2.3 -2.9 -1.5 -0.3 2.9 7.0 9.7 9.9 Minimum -2.3 -4.2 -4.5 -2.8 -1.2 0.4 4.8 8.0 8.2 Average 3.0 1.9 1.2 0.7 0.6 0.8 2.4 4.6 6.1 Maximum 3.8 2.7 2.7 1.3 1.1 2.1 4.3 6.6 7.7 Minimum 1.8 1.1 0.3 -0.1 -0.1 0.0 1.1 2.3 4.2		Minimum			6.8-	0.6-	4.6	11.2	14.8	14.5	10.2	2.3	-4.0	
Maximum -2.5 -0.5 -1.9 0.7 5.3 10.5 13.7 14.8 13.8 Minimum -8.2 -9.6 -8.1 -2.2 0.4 6.3 10.5 12.1 10.0 Average -0.7 -2.3 -2.9 -1.5 -0.3 2.9 7.0 9.7 9.9 Maximum -2.3 -4.2 -4.5 -2.8 -1.2 0.4 4.8 8.0 8.2 Average 3.0 1.9 1.2 0.7 0.6 0.8 2.4 4.6 6.1 Maximum 3.8 2.7 2.7 1.3 1.1 2.3 4.2 Minimum 1.8 1.1 0.3 -0.1 -0.1 0.0 1.1 2.3 4.2	¢ «	Amenega	C V	4	4 9-		C	0	19 1	0	<i>2</i>	0 4	0 0	9
Maximum -2.5 -0.5 -1.9 0.7 5.3 10.5 13.7 14.8 13.8 Minimum -8.2 -9.6 -8.1 -2.2 0.4 6.3 10.5 12.1 10.0 Average -0.7 -2.3 -2.9 -1.5 -0.3 2.9 7.0 9.7 9.9 Maximum -2.3 -4.2 -4.5 -2.8 -1.2 0.4 4.8 8.0 8.2 Average 3.0 1.9 1.2 0.7 0.6 0.8 2.4 4.6 6.1 Maximum 3.8 2.7 2.7 1.3 1.1 2.3 4.2 Minimum 1.8 1.1 0.3 0.1 0.0 1.1 2.3 4.2	1	700	> 1	:	• : ·	₹ ₹	>	?	7.77	3.	0	7.	3.3	2.3
Minimum -8.2 -9.6 -8.1 -2.2 0.4 6.3 10.8 12.1 10.0 Average -0.7 -2.3 -2.9 -1.5 -0.3 2.9 7.0 9.7 9.9 Maximum -2.3 -4.2 -4.5 -2.8 -1.2 0.4 4.8 8.0 8.2 Average 3.0 1.9 1.2 0.7 0.6 0.8 2.4 4.6 6.1 Maximum 3.8 2.7 2.7 1.3 1.1 2.3 4.2 Minimum 1.8 1.1 0.3 -0.1 -0.1 0.0 1.1 2.3 4.2		Maximum	-2.5		6.1-	0 7	സ	10.5	13.7	14.8	13.8	က တ	4.7	6.0
Average -0.7 -2.3 -2.9 -1.5 -0.3 2.9 7.0 9.7 9.9 Maximum 0.6 -0.3 -1.0 -0.5 0.7 6.5 9.2 12.4 11.3 Minimum -2.3 -4.2 -4.5 -2.8 -1.2 0.4 4.8 8.0 8.2 Average 3.0 1.9 1.2 0.7 0.6 0.8 2.4 4.6 6.1 Maximum 3.8 2.7 2.7 1.3 1.1 2.1 4.2 Minimum 1.8 1.1 0.3 -0.1 -0.1 0.0 1.1 2.3 4.2		Minimum	-8.2	မှ ဂ	ਜ਼ੂ ਲ	-2.2	0.4	တ္	10.8	12.1	10.0	5.3	0.5	4.5
Maximum 0.6 -0.3 -1.0 -0.5 0.7 6.5 9.2 12.4 11.3 Minimum -2.3 -4.2 -4.5 -2.8 -1.2 0.4 4.8 8.0 8.2 Average 3.0 1.9 1.2 0.7 0.6 0.8 2.4 4.6 6.1 Maximum 3.8 2.7 2.7 1.3 1.1 2.1 4.2 Minimum 1.8 1.1 0.3 0.1 -0.1 0.0 1.1 2.3 4.2	-1.6 m	Average	7.0-		-2.9	 3.1	-0.3	2.9	7.0	9.7	9.9	7.8	4.7	4.4
Minimum -2.3 -4.2 -4.5 -2.8 -1.2 0.4 4.8 8.0 8.2 Average 3.0 1.9 1.2 0.7 0.6 0.8 2.4 4.6 6.1 Maximum 3.8 2.7 2.7 1.3 1.1 2.1 4.3 6.6 7.7 Minimum 1.8 1.1 0.3 -0.1 -0.1 0.0 1.1 2.3 4.2		Maximum	9.0	6.9	-1.0	-0.5	0.7	6.5	9.2	12.4	11.3	9.1	6.9	3.8
Average 3.0 1.9 1.2 0.7 0.6 0.8 2.4 4.6 6.1 Maximum 3.8 2.7 2.7 1.3 1.1 2.1 4.3 6.6 7.7 Minimum 1.8 1.1 0.3 -0.1 -0.1 0.0 1.1 2.3 4.2		Minimum	-2.3	-4.2	4.5	-2.8	-1.2	4.0	8.	0.8	8.2	9.9		-1.0
3.8 2.7 2.7 1.3 1.1 2.1 4.3 6.6 7.7 1.8 1.1 0.3 -0.1 -0.1 0.0 1.1 2.3 4.2	65 2 El	Average	3.0	о. 	1.2	7.0	9.0	0 8.0	2.4	4.6	6.1	6.3	5.7	4.4
1.8		Maximum	လ လ	2.7	2.7	1.3	1.1	2.1	4.3	9.9	7.7	7.1	6.8	5.5
		Minimum		:	က	-0.1	-0.1	0.0	+	2 3	4.2	4.8	4.5	2.2

Table 3.1.2.19 (5) Arvaikheer Monthly average Soile Temperature (°C)

Depth		Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.			Dec.
0.0 H	Average			-8.1	2.9	13.5	19.0	20.5	17.9	10.4			
	Maximum		1 :	-1-0	8.0	16.0	22.0	24.0	20.0	12.4		-8.0	
	Minimum			-12.0	-1.0	9.0	15.0	18.0	15.0	4.	-2.0		
				, c	ç	o c	u u v	0 6	1 21		7 6	¥ 1	
# N.O.	Average			*.	7	o ,	10.0	0 1	# · o ·) i	· ·	ት (ን •	
	Maximum	:	:	9.5	4.4	11.0	17.3	20.5	18.1	12.7	6.2		
	Minimum			-11.3	-2.5	တ က	13.4	15.0	14.4	0	0.1	4.8	
				L L	•	c t	¢	46.0	u	**************************************	0 7	96	
E 4.0-	Average		• • • •			٠,	13.5	0.01	#*CT		0.	0.3	
	Maximum			7.4-	2.1	 8.	14.9	18.1	16.5	12.4	6.9	0.0	
	Minimum			-11.7	-2.5	5.6	11.5	13.7	13.6	9	2.3	-5.6	
a 8-0-	Average	8-6-	-10.9	-7.5	-2.2	3.5	9.2	12.3	13.0	10.7	6.2	0.5	-5.4
	Maximum	-6.4	-8 -2	-5.3	6.0	4.9	10.6	13.9	14.4	12.2	7.8	2.6	-3.2
	Minimum	-13.9	-13.7	-11.4	4.0	1.4	8.3	10.9	11.4	9.1	3.5	-2.2	-10.0
1.6 1.6	Average	.3 6	-5.7	-5.4	-2.7	0.0	4.0	7.3	9.2	89 60	6.9	3.6	-0.2
i ?	Maximum	-1.2	-3.0	-3.4	-1.6	1.55	5.7	9.1	10.6	10.4	∞ 	5.2	1.9
	Minimin	-6.2	-8.5	9.8-	7.4-	-1-	2.7	6.1	4.	7.5	4.9	7-1	-2.3
6		0 -	Č	C (и С	· · · ·		-	6 6	4.7	در در	4.7	e.
# 7.C	AVC. CSC	0	۲ ۱ ک	2 (, i) i	· (4 () 1			, c	
	Maximum	5 7	1.5	က	0-1	0.5	· 0	6.2	ئ 4	٥.٥		n n	4. X
	Minimum	8°0-	-0.3	-1.0	-1.3	-1.0	-0.3	0.0	1.2	3.0	3.3	2.7	1.5

Table 3.1.2.19 (6) Arvaikheer Monthly average Soile Temperature (°C)

Depth		Jan.	Feb.	Mar	April	May	June	July	Aug	Sept.	Oct.	Nov.	Dec.
-0-2 H	Average	-16.4	-15.0	-4.9	3.9	12.5	18.0	19.8	17.9	12.7	5.1	-4.1	-13.1
	Maximum	-11:0	-10.7	-3.5	9.9	15.9	22.5	25.2	20.4	15.9	8	-2.1	0.6-
	Minimum	-19.8	-19.1	-6.8	1.2	8.0	14.8	17.4	15.9	7.6	2.5	6.9	-17.5
-0- H	Average	-14.2	-13.4	- 0 .3	80	8.2	13.9	16.9	16.1	12.3	S.8		-9.5
	Maximum	-12.5	2.6-	4.3	 	T	16.6	21.1	17.5	13.7	7.2	0.7	-5.3
	Minimu	-17.5	-17.5	6.6	-1.4	5.1	11.5	15.0	14.3	10.8	4.6	-3.0	-12.6
1 cg	A 4 5 4 5 4 5 4 5 4 5 4 5 4 5 4 5 4 5 4		ç	i t									
# 0 O	Average	7	71-	` `	0 T	က	10.9	14.0	14.7	11.7	6.7	0.9	9-9-
	Maximum	တ္	ထု	4	0.3	7:1	14.2	16.5	17.0	13.4	7.1	6.0	-3.0
	Minimum	-17	-17	-10	-2.2	 	တ္	12.3	13.2	9.2	5.3	1.4	-10.8
•					-								
EI X	Average	က (၁)	-10.2	φ 4	-1.4	4.2	မ တ	12.9	14.0	11.6	7.1	1.3	6.4-
	Maximum	5-2-	9-9-	9	င်း	6.3	12.3	15.0	15.8	13.2	4.9	2.6	-7.7
	Minimum	-13.9	-14.4	မ ရ	-3.0	2.3	7.2	11.0	12.4	0.6	6.4	0.4	-
										4			
# 0.1-	Average	o. Ţ	7.	-4.0	-2.1	0.1	4.0	7.8	10.3	10.1	0.	4.7	===
	Maximum	~? 	တ 	-2.2	 	-	6.2	₽.6	7.11	10.9	8.6	5.2	1.7
	Minimum	ကု တ	9-9-	0. 9	-3.2	6°0	5.	 Ω	9.1	9.6	7.6	4.2	9.0
-2.4 m	Average	7	-0.0	7	o C	ه د -	1.0	0 7	0 3	6	ţ	ı	•
l	Maximum		3: ≪ • • •	1 67) o) v	3 00	y or	0 0	. 0	0 -	, v	ۍ د د
	Minimum	0.7	-1.0	-2.2	-1.5	8.0	0	2 6	- 12	. 4.	7 - 2	5 4 5 0	4 0
-												•	 ;
-3.2 B	Average	2.7	ro T	0.5	0.1	0.2	0.7	2.5	4.8	6.1	6.6	5. 8	4.4
	Maximum	بى د.	2.0	6 0	0.5	0.7	8	4.7	8	6.9	8	6.9	4.9
	Minimum	2.0	0.9	-0.1	-0.3	-0.4	-0.4	0.4	3.6	5.5	5.8	5.4	3.8

Table 3.1.2.19 (7) Arvaikheer Monthly average Soile Temperature (°C)

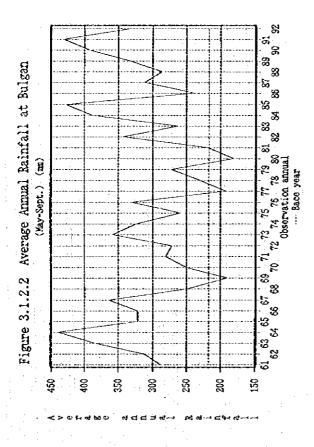
Depth		Jan.	Feb.	Mar.	حبرا	May	June	July	Aug.	Sept.	Oct.	1	Dec
-0 2 m	Average	-16.9	-14.9	-7.1		10.9	17.4	19.8	18.4	12.2	4.4		-13,1
! !	Maximum	13.88	တို	2.3		15.5	21.8	24.7	24.2	17.2	12.0	2.1	-5.4
	Minimum	-19.9	-18.3	-11.6	6.0-	8.1	14.7	17.0	16.6	6.9	1.2		-17.1
		0 7 7		0	- 0	α	14.2	0 2.	79.	00	4.9	-3.5	-10.8
4. 14.	Werage	-12.7	ř	0 n	9 6) 0	16.5	21.0	4.8	13.6	6.9	∞ 	7.7-
	Minimum	-18.7	-16.2	-12.0	7.7	9.9	12.6	16.0	14.8	11.1	2.6	979-	-14:9
€ ≪ C	AVerage	-10.7	-11.6	-8.4	-2.6	3.6	 6	13.3	14.2	11.2	6.9	0.0	-6.1
1 >	Maximin	(0)	-10.1	-6.5	6 Q-	n S	11.2	14.9	15.2	12.5	11.2	1.2	-4.5
	Minimum	-15.4	-13.7	-12.4	-4.2	2.3	8.	12.3	12.7	တ္	5.1	-1.5	-6.7
E C	Average	-4.6	-7.2	-6.5	-3.2	0.0	9.4	80.00	11.0	10.6	8.0	3.7	-0.4
l > •	Maximum	3.4	ည်	7-4-7	-1.2	1.6	9.9	10.1	12.5	10.8	10.0	2.0	0.1
	Minimum	-7.4	-9.0	& &	7.4-	-2.2	3.0	7.5	ທຸ	2.6	တ	2.3	∞
-3 2 m	Average	1.0	-0.4	र् गः ।	6	-1.0	-0.1	1.5	ა. ზ	5.3	5.4	4.4	2.7
1	Maximum		0.2		0.1	-0.5	0.2	2.4	4.7	5.7	5.9	6.4	3.5
	Minimum	0.4	-1.5	-2-7	-2.9	-3.1	-0.3	0.8	2.8	4.7	4.6	3.9	2.2

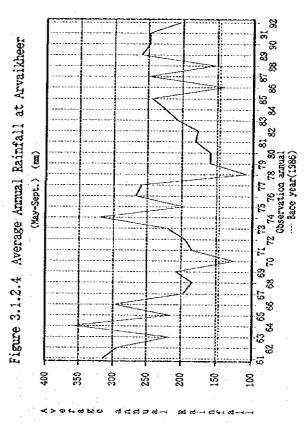
Table 3.1.2.20 Central region Meteorological observatory table

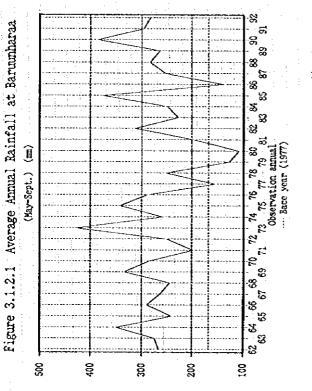
				And the state of t	Start of obser-
Name of Station	Aimag	Latitude	Longitude	Land Height	vation year
Arvaikheer	Ovorhangai	N 46° 26′	E 102° 47′	H=1,813m	1940.1
Baruunkharaa	(Darhan Uul) selenge	N 48° 55′	E 106° 06′	H=807m	1939.12
Bulgan	(Orhon) Bulgan	N 48° 44′	E 103° 54′	H=1,210m	1940.1
Erdenesant	Tov	N 47° 17′	E 104° 14′	H=1,363m	1961.1
Ulaanbaatar	Ulaanbaatar	N 47° 56′	E 106° 59′	Н=1,338п	1947.10
Hutag	Bulgan	N 49° 38′	E 102° 41′	Н=933п	1961.3
Maanit	Tov	N 47° 29′	E 107° 48′	H=1,427	1955.1
Eroo	Selenge	N 49° 45′	E 106° 40′	H=677m	1960.9
Hujirt	Ovorhangai	N 46° 53′	E 102° 46′	H=1,655m	1947.10
Bogd	Ovorhangai	N 44° 41′	E 102° 16′	H=1,521m	1974.12

Source: MONGOLIA Hydorometeorological Recearch Institute

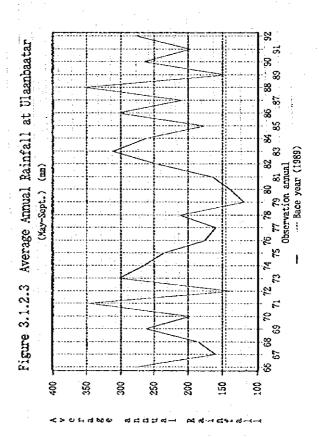
Table 3.1.2.21	Table 3.1.2.21 Meteorological date collection table	al date coll	arora morasa					-	ı	0.1.00.11
Name of	:	Precipita-	Rainy days	Temperatu-	Soil Temp-	Humidity	Wind Vane	Wind		Kadı - Mowlalı
Station	Aimag	tion		re	erature			Speed	ation	days
Arvaikheer	Ovorhangai	1961-1990	1961–1992	1961-1990	1966-1990	1961-1990	1979–1990	1982-1992	1982-1992	1982-1992
Barumkharaa	(Darhan Uul)	1961-1990	1961-1992	1961-1990	1960-1990	1961-1990	1979-1990	1982-1992	1982-1992	1982-1992
Bulgan	(Orhon) Bulgan	1961–1990	1961-1981	1961-1990	1954-1977	1961-1990	1979-1990	1982-1992	1982-1992	1982-1992
Erdenesant	Tov	1962-1990	1962-1992	1962-1990	1962-1990	1962-1990	1979–1990	1982-1992	1982-1992	1982-1992
Ulaanbaatar	Vlaanbaatar	1961-1993	1961-1993	1965-1990	1959-1991	1961-1990	1979-1990	1982-1992	1982-1992	1982-1992
Hutag	Bulgan	1961-1990	1961-1992	1961-1990	1975-1990	1961-1990	1979-1990	1982-1992	1982-1992	1982-1992
Maanit	Tov	1961–1990	1961-1992	1961-1990	1975–1990	1961-1990	1979-1990	1982-1992	1982-1992	1982-1992
Eroo	Selenge	1961–1990	1961-1992	1961-1990		1961-1990	1979-1990	1982-1992	1982-1992	1982-1992
Hujirt	Ovorhangai	1961-1990	1961–1992	1961-1990		1961-1990	1979-1990	1982-1992	1982-1992	1982-1992
Bogd	Ovorhangai	1975-1992	1975-1992	1975-1992		1977-1992	1979-1990	1982-1992	1982-1992	1982-1992

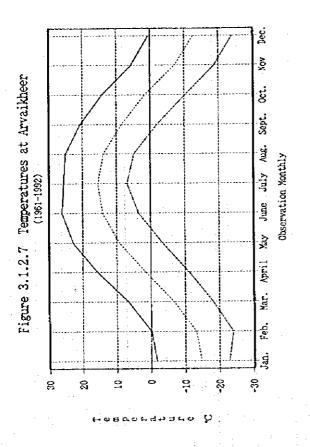


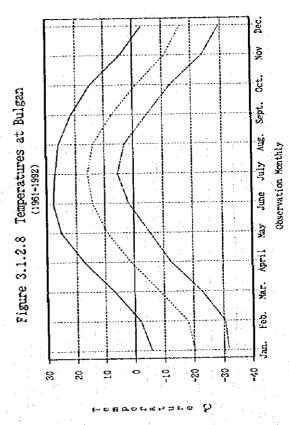


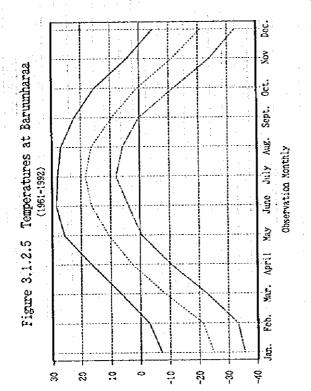


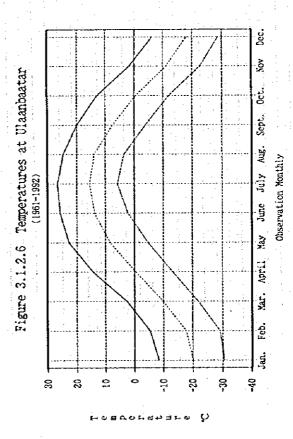
ನದದ **ನ**ನ---







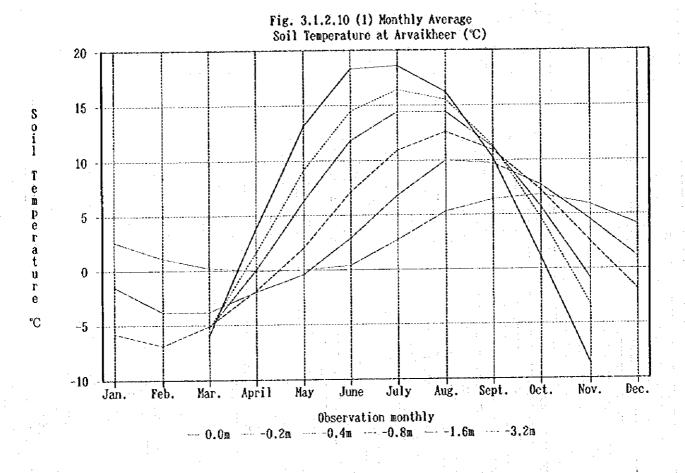


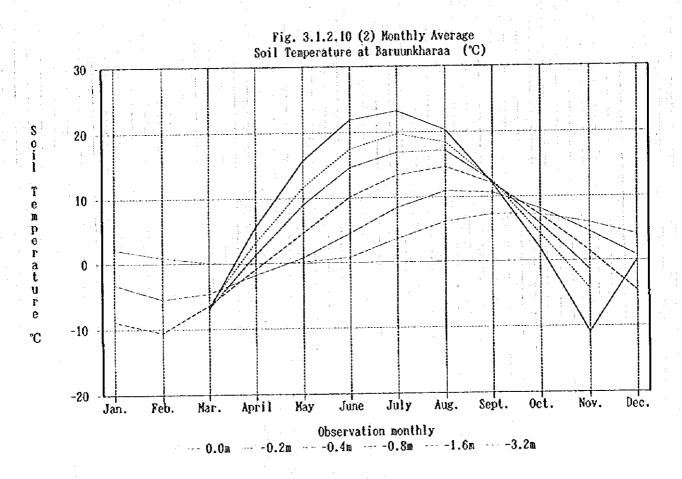


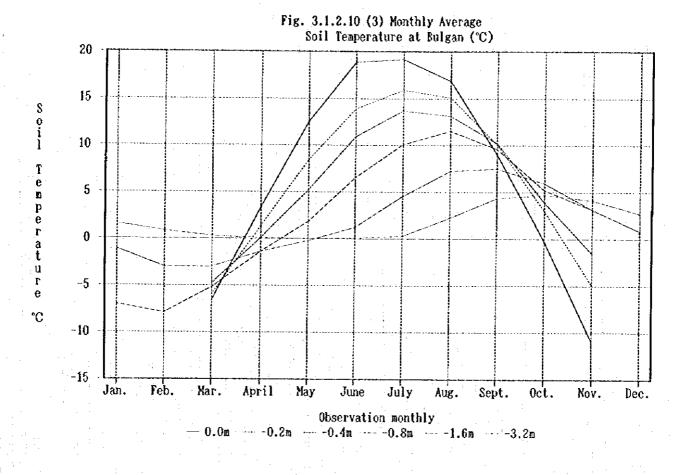
Observation Monthly — Baruunharaa — Blaanbaatar — Bulgan -- Arvaikbeer

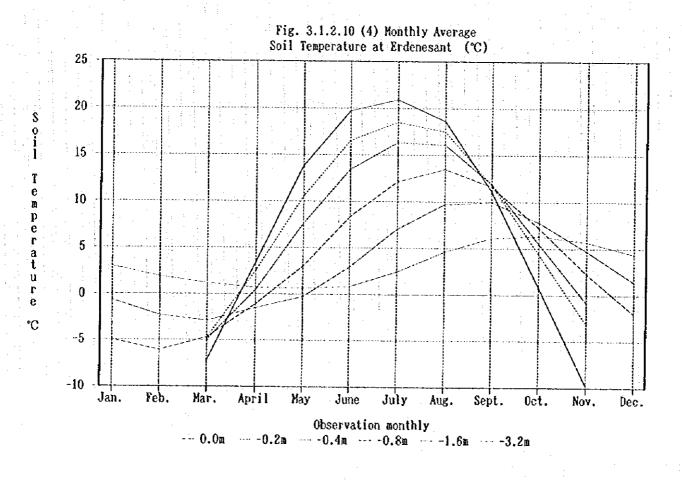
Figure 3.1.2.9 Monthly Average Temperature

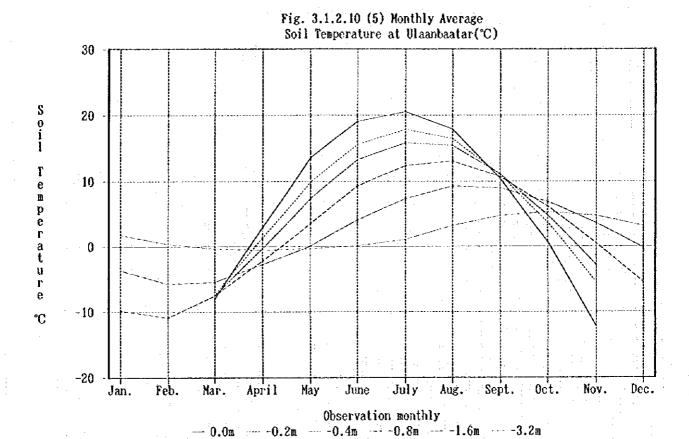
- 3-22-

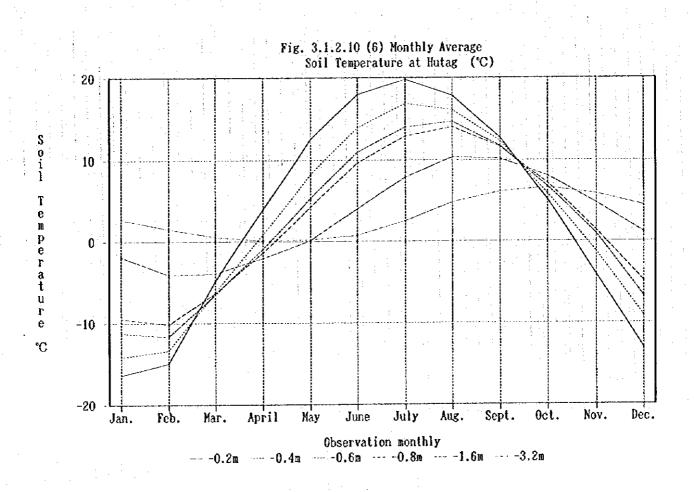


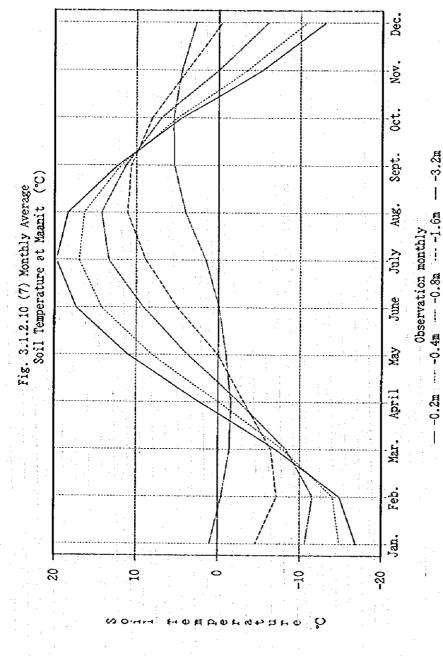












HUDER BUGANT Main station Sub station BAYAN-ONJUUL 0 0 UGTAALTSAYDAM © BAYANCH SANT BAYAN-GOL BUGAT BATULZII

Figure 3.1.2.11 Location of Meteorological Observation stations

- 3-27 -

Table 3.1.3.1 Numbers of Rivers, Lakes, and Springs in Mongolia

No.	Aimag	Riv	rers	Lakes	Springs	Include
		(Pieces)	(Km)	(Place)	(Place)	
1	Arhangai	856	9,404	188	576	
	Bayan Olgii	109	3,728	67	199	···· ;
	Bayanhongor	169	3,559	34	459	
,	(Orhon)	103	3,003			<u> </u>
	Bulgan	388	5,501	71	369	Study Area(1
	Gobi Altai	86	1,242	28	630	
	Dornogobi	2	320	- ;	115	
	Dornod	128	3,060	179	300	2
	Dundgobi	1	54	10	128	
	Zavhan	189	3,139	91	408	
10	Ovorkhangai	220	2,789	35	558	Study Area(2
11	Omnogobi	-		-	319	
12	Sukhbaatar	13	130	29	261	, , , , , , , , , , , , , , , , , , ,
	(Darhan Uul)					
13	Selenge	170	2,962	23	137	Study Area(1
K	Ulaanbaatar)					
14	Tov	192	3,120	26	316	Study Area(1
15	Uvs	76	2,397	45	280	
16	Hovd	93	1,973	23	321	
17	Hovsgol	846	16,800	181	687	
18	Hentii	259	7,202	164	837	
				1 1 1		
Total		3,799	67,380	1,194	6,900	1
North of	study aréa(1)	750	11,583	120	822	2
		(20%)	(17%)			3=2/1
South of	study area(2)	220	2,789	35	558	④
		(6%)	(4%)			⑤=④/①

Source: Institute of Water Policy

Table 3.1.3.2 Monthly averafe discharge in the study area (m3/s) (1973-1992)

oration .	dan.	rep.	rar.	April	3	2	7	9	יין לייני	3	•		10.01
No.45 Eroo	5.23	3.68	4.62	43.83	84.00	109.26	129.90	148.72	127.61	70.83	29.49	10.19	767.36
No.61 Uyanga			0.18	0.40	2.00	2.53	2.98	4.18	3.89	2.41	0.40	0.03	
No.46 Dulaanhaan	1.59	0.91	3.35	19.37	47.41	62.98	85.74	97.41	77.07	34.51	15.44	5.50	451.28
No. 2 Hutagt	32.48	28.62	37.24	129.40	241.55	219.01	241.45	257.23	198.24	113.64	68.06	36.70	1603.62
No. 4 Zumburen	40.48	35.03	47.21	173.72	359.39	355.50	492.67	538.61	500.17	297.89	150.91	60.79	3052.37
No.20 Hantai	24.48	19.05	25.84	96.73	94.46	161.65	250.76	227.00	170.94	90.63	61.24	36.85	1259.64
No.28 Harhorin	2.03	1.66	2.14	15.52	16.10	24.83	35.65	32.03	25.48	15.16	8.44	3.12	182.16
No.29 Orbon sum	2.22	1.46	6.97	47.01	47.13	58.88	101.98	107.29	84.43	51.56	24.87	7.58	541.38
No.30 Orhon tuul	7.99	7.02	14.10	84.36	96.13	113.36	203.35	212.37	180.86	107.98	43.73	15.11	1086.36
No.32 Orbon harborin	1		0.13	1.48	99.0	0.76	0.98	1.21	0.88	0.63	0.14	0.31	
No.38 Ulambaatar	90.0	0.27	1.40	9.64	43.44	57.57	94.06	94.63	65.92	19.59	4.00	3.13	393.71
No.43 Barnumbaraa	1.19	0.94	1.72	6.92	9.67	12.94	18.15	19.72	19.06	10.64	5.54	2.38	108.87
No.47 Huder	0.62	0.44	0.38	2.48	6.58	6.01	8.96	9.74	8.06	5.49	2.75		52.62
No.41 Dambadarjaa	0.05	1.00	1.23	1.17	1.07	0.72	0.71	0.34	0.02		0.70	2	6 · · · · · · · · · · · · · · · · · · ·
No.39 Ondrshireet	0.28	0.21	0.58	11.09	28.87	34.65	49.99	66.42	57.84	27.56	11.24	1.27	290
No.40 Terelj	0.09	0.05	0.12	2.70	14.77	19.44	26.55	29.39	17.53	6.04	0.95	0.16	117.79
No.62 Arvaiheer	0.02	1.50	3.36	4.09	3.08	3.02	2.33	1.35	0.33		2.12		• • • • • • • • • • • • • • • • • • •
No.44 Darhan	1.16	1.24	2.74	15.95	31.90	21.80	31.10	36.45	43.15	33.75	11.96	2.70	233.9
No.21 Teshig	 	0.91	3.21	12.80	6.27	12.80	17.74	39.00	30.60	12.23	3.65	2.15	142.49
No.33 Bulgan						09.0	0.25	0.23	0.26				· · · · · · · · · · · · · · · · · · ·
No.34 Bulgan	0.03	0.02	0.04	0.11	0.36	0.37	0.38	0.42	0.45	0.27	0.12	90.0	2.63
No.64 Nariinteel			0.07	1.05	1.05	0.70	1.39	2.54	1.25	0.79	0.27	0.02	; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ;

Source: Institute of Water Policy

Station	Kay	June	July	Aug.	Sept.	Average	Total
No.45 Eroo	84.00	109.26	129.90	148.72	127.61	119.90	599.49
No.61 Uyanga	2.00	2.53	2.98	4.18	3.89	3.12	15.58
No.46 Dulaznhazn	47.41	62.98	85.74	97.41	77.07	74.12	370.61
	241.55	219.01	241.45	257.23	198.24	231.50	1157.48
No. 4 Zuunburen	359.39	355.50	492.67	538.61	500.17	449.27	2246.34
No.20 Hantai	94.46	161.66	250.76	227.00	170.94	180.96	904.82
No.28 Harhorin	16.10	24.83	35.65	32.03	25.48	26.82	134.09
No.29 Orbon sum	47.13	58.88	101.98	107.29	84.43	79.94	399.71
No.30 Orbon tuul	96.13	113.36	203.35	212.37	180.86	161.21	806.07
No.32 Orbon harborin	99.0	0.76	0.98	1.21	0.88	0.80	4.49
No.38 Ulaanbaatar	43.44	57.57	94.06	94.63	65.92	71.12	355.62
No.43 Baruunharaa	9.67	12.94	18.15	19.72	19.06	15.91	79.54
No.47 Huder	6.58	6.01	36.8	9.74	8.06	7.87	39.35
No.41 Dambadarjaa	1.07	0.72	0.71	0.34	0.02	0.57	2.86
No.39 Ondrshireet	28.87	34.65	49.99	66.42	57.84	47.55	237.77
No.40 Terelj	14.77	19.44	26.55	29.39	17.53	21.54	107.68
No.62 Arvaiheer	3.08	3.02	2.33	1.35	0.33	2.02	10.1
No.44 Darhan	31.90	21.80	31.10	36.45	43.15	32.88	164.
No.21 Teshig	6.27	12.80	17.74	39.00	30.60	21.28	106.4
No.33 Bulgan		09.0	0.25	0.23	0.26	0.34	1.34
No.34 Bulgan	0.36	0.37	0.38	0.42	0.45	0.40	1.98
No.64 Nariinteel	1.05	0.70	1.39	2.54	1.25	1.39	6.93

- 3-31 -

Table 3.1.3.4 (1) Flood/drought probability and discharge calculation table (NO.2) Hutagt (May-Sep.) (m3/s)

Flood					Prought				
Ranking	Year	Flow	Probable year	Probable flow	RankingYear	Flow	Probable year	Probable flow	
2 3 4	1986 1984 1985 1990	421.20 379.00 373.80 346.60	1/20 1/10 1/10 1/7	1/50=496 1/30=453 1/20=420 1/10=362	1 1978 2 1980 3 1979 4 1974	85.98 140.60 152.02 154.00	1/75 1/7 1/5 1/5	1/50=92 1/30=101 1/20=109 1/10=127	
_	1973 1976	315.20 310.20	1/5 1/5	1/5=302	5 1975 6 1989	157.72 166.40	1/5 1/3	1/5=152	

(No.20)Hantai

Flood	1	1			Drought					
anking	Year	Flow	Probable year	Probable flow	RankingYear	Flow	Probable year	Probable flow		
2 3 4 5	1986 1990 1991 1983 1988	271.86 235.20 207.20 181.52 175.20 172.62	1/20 1/7 1/3	1/50=331 1/30=309 1/20=291 1/10=259 1/5=226	1 1985 2 1987 3 1989 4 1984 5 1988	101.66 114.96 168.96 172.62 175.20	1/20 1/10 1/2	1/50=91 1/30=98 1/20=104 1/10=116 1/5=133		

(NO.28) Harhorin

Flood					Drought				
Ranking	Year	Flow	Probable year	Probable flow	Ranking	Year	Flow	Probable year	Probable flow
2 3 4	1976 1977 1982 1990 1983	51.94 47.22 45.97 37.90 37.04	1/20 1/10 1/10 1/5	1/50=68 1/30=61 1/20=55 1/10=96 1/5=37	3	1980 1988 1978 1989 1974	71.90 12.73 14.48 14.94 15.48	1/100 1/10 1/7 1/5 1/5	1/50=8 1/30=9 1/20=10 1/10=13 1/5=16

(No.29)Orhon sum

Flood					Drought				
Ranking	Year	Flow	Probable year	Probable flow	Ranking	Year	Flow	Probable	Probable flow
2	1976 1990 1977 1973	170.52 138.48 119.88 116.74	1/50 1/20 1/7 1/7	1/50=178 1/30=162 1/20=149 1/10=128	2 3	1980 1978 1979 1988	27.42 38.52 40.74 55.16	year 1/75 1/20 1/10 1/5	1/50=30 1/30=33 1/20=36 1/10=42
=	1982	93.18	1/3	1/5=106		1988	58,60	$\frac{1}{5}$	1/10=42 1/5=51

(No.30)Orhon tuul

Flood					Drought				·
Ranking	·	Flow	Probable year	Probable flow	Ranking	Year	Flow	Probable year	Probable flow
2 3 4	1982 1976 1977 1990 1984	265.50 230.80 215.44 213.62 211.60	1/20 1/7 1/5 1/5 1/5	1/50=326 1/30=301 1/20=280 1/10=245 1/5=208	2 3 4 5	1981 1987 1989 1979 1988 1973	76.78 78.68 80.30 117.00 119.18 120.74	1/20 1/20	1/50=70.00 1/30=76.00 1/20=82.00 1/10=94.00 1/5=111.0

Table 3.1.3.4 (2) Flood/drought probability and discharge calculation table (No.38)Ulaanbaatar (May-Sep.) (m3/s)

Flood				Drought				
ankingYea	Flow	Probable year	Probable flow	Ranking	Year	Flow	Probable year	Probable flow
1 197; 2 199; 3 199; 4 198; 5 199	120.46 110.00 104.96	1/10 1/10 1/7 1/7 1/7	1/50=193 1/30=171 1/20=155 1/10=127 1/5=99	2 3 4	1980 1978 1989 1981 1979	20.98 27.84 28.40 35.58 38.38	1/20 1/10	1/50=20.00 1/30=23.00 1/20=25.00 1/10=31.00 1/5=39.0

Flood					Drought				
Ranking	Year	Flow	Probable year	Probable flow	Ranking	Year	Flow	Probable year	Probable flow
2 3 4	1984 1985 1990 1976	731.60 670.20 594.40 576.60 575.60	1/20 1/10 1/7 1/5 1/5	1/50=863 1/30=800 1/20=750 1/10=662 1/5=568	2 3 4	1978 1980 1981 1979 1982	1973.20 229.60 300.40 333.40 366.80	1/75 1/30 1/7 1/5	1/50=211 1/30=227 1/20=243 1/10=275 1/5=320

Flood				Prought				
RankingYear	Flow	Probable year	Probable flow	RankingYear	Flow	Probable year	Probable flow	
1 1985 2 1991 3 1988	198.20 163.04 159.80	1/10 1/5 1/5	1/50=258 1/30=236 1/20=219 1/10=188 1/5=157	1 1989 2 1987 3 1992	58.14 63.36 81.84	1/20 1/10 1/5	1/50=48 1/30=53 1/20=57 1/10=66 1/5=79	

Flood		100	1.4	Drought		_ ::	<u> </u>	
1 1985 2 1983 3 1986 4 1984	98.28 98.22 95.40 89.68	Probable year 1/7 1/7 1/5 1/5	Probable flow 1/50=143 1/30=133 1/20=124 1/10=110 1/5=94	2	Year 1987 1992 1989	Flow 40.42 43.46 49.54	Probable year 1/20 1/10 1/7	Probable flow 1/50=35 1/30=38 1/20=40 1/10=45 1/5=53

Flood				Drought				
ankingYear	Flow	Probable year	Probable flow	Ranking	Year	Flow	Probable year	Probable flow
1 1984 2 1987 3 1990 4 1992	4.26 4.19 4.02 3.51	1/10 1/10 1/7 1/3	1/50=5.22 1/30=4.92 1/20=4.68 1/10=4.25 1/5=3.78	2 3	1986 1985 1989 1991	2.01 2.44 2.53 2.54	1/20 1/5 1/5	1/50=1.70 1/30=1.80 1/20=1.90 1/10=2.10 1/5=2.42

Table 3.1.3.5 Water data collection table

No.	Name of River	Name of station	Aimag	Term
45	Eroo	Eroo	Selenge	1983-1992
61	Ongi	Uyanga	Ovorkhangai	1983-1992
46	Eroo	Dulaanhaan	Selenge	1983-1992
2	Selenge	Hutagt	Bulgan	1983-1992
4	Selenge	Zuunburen	Selenge	1983-1992
20	Egiin gol	Hantai	Bulgan	1983-1991
28	Orkhon	Harhorin	Orkhon Uul	1983-1992
29	Orkhon	Orkhon sum	Orkhon Uul	1983-1992
30	Orkhon	Orkhon tuul	Orkhon Uul	1983-1991
32	Hogshin	Orkhon harhorin	Orkhon Uul	1983-1992
38	Tuul	Ulaanbaatar	Ulaanbaatar	1983-1992
43	Нагаа	Baruunharaa	Selenge	1983-1992
47	Huder	Kuder	Selenge	1983-1992
41	Selbe	Dambadarjaa	Tov	1985-1992
39	Tuul	Ondorshireet	Tov	1983-1992
40	Terelj	Terelj	Tov	1983-1992
62	Ongi	Arvaiheer	Ovorkhangai	1990-1992
44	Haraa	Darkhan	Orkhon Uul	1991-1992
21	Erin	Teshig	Bulgan	1991-1992
33	Achuut	Bulgan	Bulgan	1991-1992
34	Zuunturuu	Bulgan	Bulgan	1991-1992
64	Taats	Nariinteer	Ovorkhangai	1983-1992
5	Selenge	Sukhbaatar	Selenge	1992

Source: Institute of Water Policy

Table 3.1.3.6 Volume of Water consumed (million m3/Year)

Year	1988	1989	1990	① 1993	@1993 Study area	③=②/① Ratio(%)
Population	[113.2]	85.6	93.7	85.4	60.6	71.0
Industries	[143.9]	121.2	120.0	115.6	96.6	83.6
Livestock Farming	103.1	136.9	149.0	155.6	38.2	24.6
Irrigation	123.9	293.5	302.7	68.6	16.1	23.5
Others	6.2	14.7	14.0	15.6	11.4	73.1
Circulation	13.5	17.3	24.1	68.0	67.7	99.6
Total ①	503.8	669.2	703.5	508.8	290.6	57.1
Surface Water Resources ②	38,856.0	38,856.0	38,856.0	38,856.0	38,856.0	
3=2−1 Water Balance	38,352.2	38,186.8	38,152.5	38,347.2	38,565.4	
④=①/③ Demand/ Resources(%)	1.3	1.7	1.8	1.3	0.1	

Source: Institute of Water Policy

Table 3.1.3.7 Volume of water required for irrigation in Land improvement regions by crop

(Artai, Hangai)

Crops	Reference volume (m3/ha)	Number of time	Term
1.Grain	2,100-2,400	5	15/05-25/08
2.Corn	2,600-2,900	6	20/05-20/08
3.Fodder(1)	1,800-2,200	3	15/05-15/08
4.Potato	1,500-3,000	6	15/05-01/09
5.Vegetables	2,600-3,200	8	06/06-01/08
6.Fodder(2)	3,000-3,300	7	05/05-01/09

(Tov)

Crops	Reference volume (m3/ha)	Number of time	Term
1.Grain	1,800-2,000	5	11/05-26/08
2.Corn	1,800-2,200	4	10/05-15/08
3.Fodder(1)	1,500-1,800	3	10/05-20/08
4.Potato	2,000-2,400	6	15/05-01/09
5. Vegetables	2,200-2,500	7-8	20/05-30/08
6.Fodder(2)	2,400-2,900	4	10/05-10/09

Table 3.1.3.8 (1) Water quality Study Sampling Location List

1 Ovorhangai Bayan-ondor Well 2 Ovorhangai Bayan-ondor Well 3 Ovorhangai Bayan-ondor Well 4 Ovorhangai Sant Well 5 Ovorhangai Sant Well 6 Ovorhangai Sant Well 7 Ovorhangai Sant Well 8 Ovorhangai Sant Well 9 Ovorhangai Bayangol Well 10 Ovorhangai Bayangol River 11 Ovorhangai Bayangol Lake 12 Ovorhangai Tugrug Well 13 Ovorhangai Tugrug Well 14 Ovorhangai Tugrug Well 15 Ovorhangai Tugrug Well 16 Ovorhangai Guchin-us Well 17 Ovorhangai Guchin-us Well 18 Ovorhangai Guchin-us Well 19 Ovorhangai Guchin-us Well 20 Ovorhangai Guchin-us Well 20 Ovorhangai Guchin-us Well 20 Ovorhangai Guchin-us Well 21 Ovorhangai Guchin-us Well 22 Ovorhangai Bolonbayn-ulaan Well 23 Ovorhangai Bolonbayn-ulaan Well	ng water Use
2 Ovorhangai Bayan-ondor Well 3 Ovorhangai Bayan-ondor Well 4 Ovorhangai Sant Well 5 Ovorhangai Sant Well 7 Ovorhangai Sant Well 8 Ovorhangai Sant Well 9 Ovorhangai Bayangol Well 10 Ovorhangai Bayangol River 11 Ovorhangai Bayangol Lake 12 Ovorhangai Tugrug Well 13 Ovorhangai Tugrug Well 14 Ovorhangai Tugrug Well 15 Ovorhangai Tugrug Well 16 Ovorhangai Guchin-us Well 17 Ovorhangai Guchin-us Well 18 Ovorhangai Guchin-us Well 19 Ovorhangai Guchin-us Well 20 Ovorhangai Guchin-us Well 21 Ovorhangai Guchin-us Well 22 Ovorhangai Guchin-us(aldart) River 21 Ovorhangai Bolonbayn-ulaan Well	Use
3 Ovorhangai Bayan-ondor Well 5 Ovorhangai Sant Well 6 Ovorhangai Sant Well 7 Ovorhangai Sant Well 8 Ovorhangai Sant Well 9 Ovorhangai Bayangol Well 10 Ovorhangai Bayangol River 11 Ovorhangai Bayangol Lake 12 Ovorhangai Tugrug Well 13 Ovorhangai Tugrug Well 14 Ovorhangai Tugrug Well 15 Ovorhangai Tugrug Well 16 Ovorhangai Guchin-us Well 17 Ovorhangai Guchin-us Well 18 Ovorhangai Guchin-us Well 19 Ovorhangai Guchin-us Well 20 Ovorhangai Guchin-us Well 21 Ovorhangai Guchin-us Well 22 Ovorhangai Guchin-us Well 23 Ovorhangai Bolonbayn-ulaan Well	Use
4 Ovorhangai Sant Well 5 Ovorhangai Sant Well 6 Ovorhangai Sant Well 7 Ovorhangai Sant Well 8 Ovorhangai Sant Well 9 Ovorhangai Bayangol Well 10 Ovorhangai Bayangol River 11 Ovorhangai Bayangol Lake 12 Ovorhangai Tugrug Well 13 Ovorhangai Tugrug Well 14 Ovorhangai Tugrug Well 15 Ovorhangai Tugrug Well 16 Ovorhangai Guchin-us Well 17 Ovorhangai Guchin-us Well 18 Ovorhangai Guchin-us Well 19 Ovorhangai Guchin-us Well 20 Ovorhangai Guchin-us Well 21 Ovorhangai Guchin-us(aldart) River 21 Ovorhangai Bolonbayn-ulaan Well 22 Ovorhangai Bolonbayn-ulaan Well	Use Vse Vse Vse Vse Vse Vse Vse Vse
5 Ovorhangai Sant Well 6 Ovorhangai Sant Well 7 Ovorhangai Sant Well 8 Ovorhangai Sant Well 9 Ovorhangai Bayangol Well 10 Ovorhangai Bayangol Congi) River 11 Ovorhangai Bayangol Lake 12 Ovorhangai Tugrug Well 13 Ovorhangai Tugrug Well 14 Ovorhangai Tugrug Well 15 Ovorhangai Tugrug Well 16 Ovorhangai Guchin-us Well 17 Ovorhangai Guchin-us Well 18 Ovorhangai Guchin-us Well 19 Ovorhangai Guchin-us Well 20 Ovorhangai Guchin-us(aldart) River 21 Ovorhangai Guchin-us Well 22 Ovorhangai Bolonbayn-ulaan Well	Vse Vse Vse Vse Vse Vse Vse Vse
6 Ovorhangai Sant Well 7 Ovorhangai Sant Well 8 Ovorhangai Sant Well 9 Ovorhangai Bayangol Well 10 Ovorhangai Bayangol Congi) River 11 Ovorhangai Bayangol Lake 12 Ovorhangai Tugrug Well 13 Ovorhangai Tugrug Well 14 Ovorhangai Tugrug Well 15 Ovorhangai Tugrug Well 16 Ovorhangai Guchin-us Well 17 Ovorhangai Guchin-us Well 18 Ovorhangai Guchin-us Well 19 Ovorhangai Guchin-us Well 20 Ovorhangai Guchin-us(aldart) River 21 Ovorhangai Guchin-us Well 22 Ovorhangai Bolonbayn-ulaan Well	Vse Vse Vse Vse Vse Vse Vse Vse
7 Ovorhangai Sant Well 8 Ovorhangai Sant Well 9 Ovorhangai Bayangol Well 10 Ovorhangai Bayangol Congi) River 11 Ovorhangai Bayangol Lake 12 Ovorhangai Tugrug Well 13 Ovorhangai Tugrug Well 14 Ovorhangai Tugrug Well 15 Ovorhangai Tugrug Well 16 Ovorhangai Guchin-us Well 17 Ovorhangai Guchin-us Well 18 Ovorhangai Guchin-us Well 19 Ovorhangai Guchin-us Well 20 Ovorhangai Guchin-us(aldart) River 21 Ovorhangai Guchin-us Well 22 Ovorhangai Bolonbayn-ulaan Well	Vse Vse Vse Vse Vse Vse Vse Vse
8 Ovorhangai Bayangol Well 10 Ovorhangai Bayangol(ongi) River 11 Ovorhangai Bayangol Lake 12 Ovorhangai Tugrug Well 13 Ovorhangai Tugrug Well 14 Ovorhangai Tugrug Well 15 Ovorhangai Tugrug Well 16 Ovorhangai Guchin-us Well 17 Ovorhangai Guchin-us Well 18 Ovorhangai Guchin-us Well 19 Ovorhangai Guchin-us Well 20 Ovorhangai Guchin-us(aldart) River 21 Ovorhangai Guchin-us Well 22 Ovorhangai Bolonbayn-ulaan Well	Vse Vse Vse Vse Vse Vse Vse
9 Ovorhangai Bayangol Well 10 Ovorhangai Bayangol(ongi) River 11 Ovorhangai Bayangol Lake 12 Ovorhangai Tugrug Well 13 Ovorhangai Tugrug Well 14 Ovorhangai Tugrug Well 15 Ovorhangai Tugrug Well 16 Ovorhangai Guchin-us Well 17 Ovorhangai Guchin-us Well 18 Ovorhangai Guchin-us Well 19 Ovorhangai Guchin-us Well 20 Ovorhangai Guchin-us(aldart) River 21 Ovorhangai Guchin-us Well 22 Ovorhangai Bolonbayn-ulaan Well	Use Use Use Use Use Use Use
10 Ovorhangai Bayangol(ongi) River 11 Ovorhangai Bayangol Lake 12 Ovorhangai Tugrug Well 13 Ovorhangai Tugrug Well 14 Ovorhangai Tugrug Well 15 Ovorhangai Tugrug(mazar) River 16 Ovorhangai Guchin-us Well 17 Ovorhangai Guchin-us Well 18 Ovorhangai Guchin-us Well 19 Ovorhangai Guchin-us Well 20 Ovorhangai Guchin-us(aldart) River 21 Ovorhangai Guchin-us Well 22 Ovorhangai Bolonbayn-ulaan Well	Use Use Use Use Use Use
11 Ovorhangai Bayangol Lake 12 Ovorhangai Tugrug Well 13 Ovorhangai Tugrug Well 14 Ovorhangai Tugrug Well 15 Ovorhangai Tugrug Mell 16 Ovorhangai Guchin-us Well 17 Ovorhangai Guchin-us Well 18 Ovorhangai Guchin-us Well 19 Ovorhangai Guchin-us Well 20 Ovorhangai Guchin-us(aldart) River 21 Ovorhangai Guchin-us Well 22 Ovorhangai Bolonbayn-ulaan Well	Use Use Use Use Use Use
11 Ovorhangai Bayangol Lake 12 Ovorhangai Tugrug Well 13 Ovorhangai Tugrug Well 14 Ovorhangai Tugrug Well 15 Ovorhangai Tugrug Mell 16 Ovorhangai Guchin-us Well 17 Ovorhangai Guchin-us Well 18 Ovorhangai Guchin-us Well 19 Ovorhangai Guchin-us Well 20 Ovorhangai Guchin-us(aldart) River 21 Ovorhangai Guchin-us Well 22 Ovorhangai Bolonbayn-ulaan Well	Use Use Use Use Use
13 Ovorhangai Tugrug Well 14 Ovorhangai Tugrug Well 15 Ovorhangai Tugrug(mazar) River 16 Ovorhangai Guchin-us Well 17 Ovorhangai Guchin-us Well 18 Ovorhangai Guchin-us Well 19 Ovorhangai Guchin-us Well 20 Ovorhangai Guchin-us(aldart) River 21 Ovorhangai Guchin-us Well 22 Ovorhangai Bolonbayn-ulaan Well	Use Vse Vse Vse
13 Ovorhangai Tugrug Well 14 Ovorhangai Tugrug Well 15 Ovorhangai Tugrug(mazar) River 16 Ovorhangai Guchin-us Well 17 Ovorhangai Guchin-us Well 18 Ovorhangai Guchin-us Well 19 Ovorhangai Guchin-us Well 20 Ovorhangai Guchin-us(aldart) River 21 Ovorhangai Guchin-us Well 22 Ovorhangai Bolonbayn-ulaan Well	Use Vse Vse Vse
14 Ovorhangai Tugrug Well 15 Ovorhangai Tugrug(mazar) River 16 Ovorhangai Guchin-us Well 17 Ovorhangai Guchin-us Well 18 Ovorhangai Guchin-us Well 19 Ovorhangai Guchin-us Well 20 Ovorhangai Guchin-us(aldart) River 21 Ovorhangai Guchin-us Well 22 Ovorhangai Bolonbayn-ulaan Well	Vse Vse Vse
15 Ovorhangai Tugrug(mazar) River 16 Ovorhangai Guchin-us Well 17 Ovorhangai Guchin-us Well 18 Ovorhangai Guchin-us Well 19 Ovorhangai Guchin-us Well 20 Ovorhangai Guchin-us(aldart) River 21 Ovorhangai Guchin-us Well 22 Ovorhangai Bolonbayn-ulaan Well	Vse Vse
16 Ovorhangai Guchin-us Well 17 Ovorhangai Guchin-us Well 18 Ovorhangai Guchin-us Well 19 Ovorhangai Guchin-us Well 20 Ovorhangai Guchin-us(aldart) River 21 Ovorhangai Guchin-us Well 22 Ovorhangai Bolonbayn-ulaan Well 23 Ovorhangai Bolonbayn-ulaan Well	Use
17 Ovorhangai Guchin-us Well 18 Ovorhangai Guchin-us Well 19 Ovorhangai Guchin-us Well 20 Ovorhangai Guchin-us(aldart) River 21 Ovorhangai Guchin-us Well 22 Ovorhangai Bolonbayn-ulaan Well 23 Ovorhangai Bolonbayn-ulaan Well	
18 Ovorhangai Guchin-us Well 19 Ovorhangai Guchin-us Well 20 Ovorhangai Guchin-us(aldart) River 21 Ovorhangai Guchin-us Well 22 Ovorhangai Bolonbayn-ulaan Well 23 Ovorhangai Bolonbayn-ulaan Well	Use
19 Ovorhangai Guchin-us Well 20 Ovorhangai Guchin-us(aldart) River 21 Ovorhangai Guchin-us Well 22 Ovorhangai Bolonbayn-ulaan Well 23 Ovorhangai Bolonbayn-ulaan Well	Use
20 Ovorhangai Guchin-us(aldart) River 21 Ovorhangai Guchin-us Well 22 Ovorhangai Bolonbayn-ulaan Well 23 Ovorhangai Bolonbayn-ulaan Well	Use
21 Ovorhangai Guchin-us Well 22 Ovorhangai Bolonbayn-ulaan Well 23 Ovorhangai Bolonbayn-ulaan Well	Use
22 Ovorhangai Bolonbayn-ulaan Well 23 Ovorhangai Bolonbayn-ulaan Well	Use
23 Ovorhangai Bolombayn-ulaan Well	Use
	Use
24 Ovorhangai Bolonbayn-ulaan Well	Use
I collect a collection is a large transfer of the collection of t	Use
26 Ovorhangai Sariin-teel Well	
	Use
	Use
	Use
	Use
hangan haga an ang mga gang aga gang ang ang ang ang ang an	Use
	Use
The state of the s	
	ise -
43 Ovorhangai Arvaikheer Well	Jse Jse

Table 3.1.3.8 (2) Water quality Study Sampling Location List

Table	3.1.3.8 (2)	Water quality Study Samp	ing Locat	
No.	Ainag	Sun	Source	Drinking water
44	Ovorhangai	Arvaikheer	Well	Use
45	Ovorhangai	Arvaikheer	Fountain	Use
46	Ovorhangai	Arvaikheer	Well	Use
47	Ovorhanga i	Arvaikheer	Well	Use
48	Ovorhanga i	Zuunbayn-ulaan	Well	Use
49	Ovorhanga i	Zuunbayn-ulaan	Fountain	Use
50	Ovorhanga i	Zuunbayn-ulaan	Well	Use
51	Ovorhangai	Zuunbayn-ulaan	Well	Use
52	Ovorhanga i	Zuunbayn-ulaan	Fountain	Use
53	Ovorhanga i	Olziit(fis)	River	Use
54	Ovorhanga i	Olziit	Spring	Use
55	Ovorhanga i	Olziit(golhi)	River	Use
56	Ovorhanga i	Olziit ·	Well	
57	Ovorhangai	Olziit	Well	Use
58	Ovorhanga i	Esonzui(havthgoit)	River	Use
59	Ovorhangai 🖰	Esonzui	Well	Use
60	Ovorhangai	Esonzui(malzat)	Well	Use
61	Ovorhangai	Burd	Well	Use
62	Ovorhangai	Burd	Spring	Use
63	Ovorhangai	Burd	Well	Use
64	Ovorhangai	Burd	Well	Use
65	Ovorhangai	Burd	Well	Use
66	Ovorhangai	Burd	Well	Vse
67	Ovorhangai	Bat-olzii	Well	Use
68	Ovorhangai	Bat-olzii	River	Use
69	Ovorhangai	Bat-olzii	Spring	Use
70	Ovorhangai	Hujirt	Well	Use
71	Ovorhangai	Hujirt	Well	11-
72	Ovorhangai	Hojirt	Well	Use
73	Ovorhangai	llujirt	River	Use
74	Ovorhangai	Hujirt	Spring	Use Use
75	Ovorhangai	Hujirt	Spring Spring	Use
76 77	Ovorhangai	Hujirt Hujirt	Well	Use
78	Ovorhangai Ovorhangai	Harhorin	Well	Use
79	Ovorhangai	Harhorin(orhon)	River	Use
80	Ovorhangai	Harhorin	Channel	Use
81	Ovorhangai	Harhorin	Well	Use
82	Ovorhangai	Harhorin	Well	Use
83	Ovorhangai	Harhorin(hougshin-orhon)		Use
84	Bulgan	Gurvan-bulag	Well	
85	Bulgan	Gurvan-bulag	Well	Use
86	Bulgan	Gurvan-bulag	Well	Use
87	Bulgan	Gurvan-bulag(talni)	River	Use
88	Bulgan	Gurvan-bulag	Well	Use
1	l			

Table 3.1.3.8 (3) Water quality Study Sampling Location List

So	No.	THE PARTY NAMED IN COLUMN TWO IS NOT THE OWNER.	water quality Study Samp		
90 Bulgan Baynnuur Well Use 91 Bulgan Rashaant Well Use 92 Tov		Aimag	Sum	Source	Drinking water
91 Bulgan Rashaant Well Use 92 Tov Bayntsogt Well Use 93 Tov Argalant Well Use 94 Tov Argalant Well Use 95 Tov Argalant Well Use 96 Tov Baynhangai Well Use 97 Tov Lun Well Use 98 Tov Lun(tuul) River Use 99 Tov Erdenesant Well Use 100 Tov Erdenesant Well Use 101 Tov Erdenesant Well Use 102 Tov Erdenesant Well Use 103 Tov Ondorshireet Well 104 Tov Ondorshireet Well Use 105 Tov Delgereh Well Use 106 Tov Delgereh Well Use 107 Tov Delgereh River Use 108 Tov Buren Well Use 109 Tov Buren Well Use 110 Tov Buren Well Use 111 Tov Buren Well Use 112 Tov Buren Well Use 113 Tov Bayanonjuul Well Use 114 Tov Bayanonjuul Well Use 115 Tov Bayantsagaan Well Use 116 Tov Bayantsagaan Well Use 117 Tov Bayantsagaan Well Use 119 Tov Bayantsagaan Well Use 120 Tov Bayantsagaan Well Use 121 Tov Sergelen Well Use 122 Tov Zuunmod Well Use 123 Tov Zuunmod Well Use 124 Tov Zuunmod Well Use 125 Tov Zuunmod Well Use 126 Tov Zuunmod Well Use 127 Tov Bayan Well Use 128 Tov Bayan Well Use 129 Tov Bayan Well Use 120 Tov Bayan Well Use 121 Tov Sergelen Well Use 122 Tov Zuunmod Well Use 123 Tov Bayan Well Use 124 Tov Sayan Well Use 125 Tov Zuunmod Well Use 126 Tov Zuunmod Well Use 127 Tov Bayan Well Use 128 Tov Bayan Well Use 130 Tov Bayan Well Use 131 Tov Bayanjargalan Well Use 132 Tov Bayanjargalan Well Use 133 Tov Bayanjargalan Well Use 134 Tov Bayanjargalan Well Use 135 Tov Bayanjargalan Well Use 136 Tov Bayanjargala	1			1	
92 Tov		*		. 🛊 • • • • • • • • • • • • • • • • • •	
93 Tov)		l .	
194 Tov	1				
95		1			
96 Tov	i .	i		1	
97 Tov Lun (tuul) River Use 98 Tov Lun(tuul) River Use 99 Tov Erdenesant Well Use 100 Tov Erdenesant Well Use 101 Tov Erdenesant Well Use 102 Tov Erdenesant Well Use 102 Tov Erdenesant Well Use 103 Tov Ondorshireet Well Use 104 Tov Ondorshireet Well Use 105 Tov Delgereh Well Use 106 Tov Delgereh River Use 108 Tov Buren Well Use 109 Tov Buren Well Use 110 Tov Buren Well Use 111 Tov Buren Well Use 112 Tov Bayanonjuul		l .			
98 Tov Lun(tuul) River Use 99 Tov Erdenesant Well Use 100 Tov Erdenesant Well Use 101 Tov Erdenesant Well Use 102 Tov Ondorshireet Well Use 103 Tov Ondorshireet Well Use 104 Tov Delgereh Well Use 105 Tov Delgereh Well Use 106 Tov Delgereh River Use 107 Tov Belgereh Well Use 108 Tov Buren Well Use 109 Tov Buren Well Use 110 Tov Buren Well Use 111 Tov Buren Well Use 112 Tov Bayanonjuul Well Use 113 Tov Bayanonjuul		1	-		
99 Tov		1		1	
100		l :	· ·	j	
101	I i	i i			and the second s
102					
103				1 ' 1	
104 Tov	1 1	1		<u> </u>	Use
105		: :			
106 Tov Delgereh Well Use 107 Tov Delgereh River Use 108 Tov Buren Well Use 109 Tov Buren Well Use 110 Tov Buren Well Use 111 Tov Buren Well Use 112 Tov Buren Well Use 112 Tov Bayanonjuul Well Use 114 Tov Bayanonjuul Well Use 115 Tov Bayantsagaan Well Use 116 Tov Bayantsagaan Well Use 117 Tov Bayantsagaan Well Use 118 Tov Bayantsagaan Well Use 120 Tov Bayantsagaan Well Use 121 Tov Sergelen Well Use 122 Tov Zuunmod	4 1		the control of the co	Well	Use
107 Tov Delgereh River Use 108 Tov Buren Well Use 109 Tov Buren Well Use 110 Tov Buren Well Use 111 Tov Buren Well Use 112 Tov Bayanonjuul Well Use 113 Tov Bayanonjuul Well Use 114 Tov Bayanonjuul Well Use 115 Tov Bayantsagaan Well Use 116 Tov Bayantsagaan Well Use 117 Tov Bayantsagaan Well Use 118 Tov Bayantsagaan Well Use 119 Tov Bayantsagaan Well Use 120 Tov Bayantsagaan Well Use 121 Tov Sergelen Well Use 122 Tov Zuunmod </th <th>1 1</th> <th></th> <th></th> <th>I i</th> <th>Use</th>	1 1			I i	Use
108 Tov Buren Well Use 109 Tov Buren Well Use 110 Tov Buren Well Use 111 Tov Buren Well Use 112 Tov Buren Well Use 113 Tov Bayanonjuul Well Use 114 Tov Bayanonjuul Well Use 115 Tov Bayantsagaan Well Use 116 Tov Bayantsagaan Well Use 117 Tov Bayantsagaan Well Use 118 Tov Bayantsagaan Well Use 119 Tov Bayantsagaan Well Use 120 Tov Bayantsagaan Well Use 121 Tov Sergelen Well Use 122 Tov Zuunmod Well Use 123 Tov Zuunmod				1	Use
109 Tov				River	Use
110 Tov Buren Well Use 111 Tov Buren Well Use 112 Tov Buren Well Use 113 Tov Bayanonjuul Well Use 114 Tov Bayanonjuul Well Use 115 Tov Bayantsagaan Well Use 116 Tov Bayantsagaan Well Use 117 Tov Bayantsagaan Well Use 118 Tov Bayantsagaan Well Use 120 Tov Bayantsagaan Well Use 121 Tov Bayantsagaan Well Use 122 Tov Bayantsagaan Well Use 121 Tov Bayantsagaan Well Use 122 Tov Zuunmod Well Use 123 Tov Zuunmod Well Use 125 Tov Zuun	I. I		· .		Use
111	1		. 1	i ' (Use
112 Tov Buren Well Use 113 Tov Bayanonjuul Well Use 114 Tov Bayanonjuul Well Use 115 Tov Bayantsagaan Well Use 116 Tov Bayantsagaan Well Use 117 Tov Bayantsagaan Well Use 118 Tov Bayantsagaan Well Use 120 Tov Bayantsagaan Well Use 120 Tov Bayantsagaan Well Use 121 Tov Bayantsagaan Well Use 122 Tov Bayantsagaan Well Use 121 Tov Sergelen Well Use 122 Tov Zuunmod Well Use 123 Tov Zuunmod Well Use 125 Tov Zuunmod Well Use 126 Tov <td< th=""><th></th><th>· · · · · · · · · · · · · · · · · · ·</th><th></th><th></th><th>Use</th></td<>		· · · · · · · · · · · · · · · · · · ·			Use
113 Tov Bayanonjuul Well Use 114 Tov Bayanonjuul Well Use 115 Tov Bayanonjuul Well Use 116 Tov Bayantsagaan Well Use 117 Tov Bayantsagaan Well Use 118 Tov Bayantsagaan Well Use 120 Tov Bayantsagaan Well Use 120 Tov Bayantsagaan Well Use 120 Tov Bayantsagaan Well Use 121 Tov Sergelen Well Use 122 Tov Zuunmod Well Use 123 Tov Zuunmod Well Use 124 Tov Zuunmod Well Use 125 Tov Zuunmod Well Use 127 Tov Bayan Well Use 128 Tov Bayan	1		the state of the s	Well	Use
114 Tov Bayanonjuul Well Use 115 Tov Bayanonjuul Well Use 116 Tov Bayantsagaan Well Use 117 Tov Bayantsagaan Well Use 118 Tov Bayantsagaan Well Use 119 Tov Bayantsagaan Well Use 120 Tov Bayantsagaan Well Use 121 Tov Sergelen Well Use 122 Tov Zuunmod Well Use 123 Tov Zuunmod Well Use 124 Tov Zuunmod Well Use 125 Tov Zuunmod Well Use 126 Tov Zuunmod Well Use 127 Tov Bayan Well Use 128 Tov Bayan Well Use 129 Tov Bayanjargalan <th></th> <th>· ' [</th> <th></th> <th></th> <th>Use</th>		· ' [Use
115 Tov Bayanonjuul Well Use 116 Tov Bayantsagaan Well Use 117 Tov Bayantsagaan Well Use 118 Tov Bayantsagaan Well Use 119 Tov Bayantsagaan Well Use 120 Tov Bayantsagaan Well Use 121 Tov Sergelen Well Use 122 Tov Zuunmod Well Use 123 Tov Zuunmod Well Use 124 Tov Zuunmod Well Use 125 Tov Zuunmod Well Use 126 Tov Zuunmod Well Use 127 Tov Bayan Well Use 128 Tov Bayan Well Use 129 Tov Bayanjargalan Well Use 131 Tov Bayanjargalan<					Use
116TovBayantsagaanWellUse117TovBayantsagaanWellUse118TovBayantsagaanWellUse119TovBayantsagaanWellUse120TovBayantsagaanWellUse121TovSergelenWellUse122TovZuunmodWellUse123TovZuunmodWellUse124TovZuunmodWellUse125TovZuunmodWellUse126TovZuunmodWellUse127TovBayanWellUse128TovBayanWellUse129TovBayanWellUse130TovBayanjargalanWellUse131TovBayanjargalanWellUse132TovBayanjargalanWellUse					Use
117TovBayantsagaanWellUse118TovBayantsagaanWellUse119TovBayantsagaanWellUse120TovBayantsagaanWellUse121TovSergelenWellUse122TovZuunmodWellUse123TovZuunmodWellUse124TovZuunmodWellUse125TovZuunmodWellUse126TovZuunmodWellUse127TovBayanWellUse128TovBayanWellUse129TovBayanWellUse130TovBayanjargalanWellUse131TovBayanjargalanWellUse132TovBayanjargalanWellUse	i .			7	Use
118 Tov Bayantsagaan Well Use 119 Tov Bayantsagaan Well Use 120 Tov Bayantsagaan Well Use 121 Tov Sergelen Well Use 122 Tov Zuunmod Well Use 123 Tov Zuunmod Well Use 124 Tov Zuunmod Well Use 125 Tov Zuunmod Well Use 126 Tov Bayan Well Use 127 Tov Bayan Well Use 128 Tov Bayan Well Use 129 Tov Bayanjargalan Well Use 131 Tov Bayanjargalan Well Use 132 Tov Bayanjargalan Well Use	1: • 1				Use
119 Tov Bayantsagaan Well Use 120 Tov Bayantsagaan Well Use 121 Tov Sergelen Well Use 122 Tov Zuunmod Well Use 123 Tov Zuunmod Well Use 124 Tov Zuunmod Well Use 125 Tov Zuunmod Well Use 126 Tov Bayan Well Use 127 Tov Bayan Well Use 128 Tov Bayan Well Use 129 Tov Bayanjargalan Well Use 131 Tov Bayanjargalan Well Use 132 Tov Bayanjargalan Well Use		4 4			Use
120 Tov Bayantsagaan Well Use 121 Tov Sergelen Well Use 122 Tov Zuunmod Well Use 123 Tov Zuunmod Well Use 124 Tov Zuunmod Well Use 125 Tov Zuunmod Well Use 126 Tov Bayan Well Use 127 Tov Bayan Well Use 128 Tov Bayan Well Use 129 Tov Bayanjargalan Well Use 131 Tov Bayanjargalan Well Use 132 Tov Bayanjargalan Well Use					
121 Tov Sergelen Well Use 122 Tov Zuunmod Well Use 123 Tov Zuunmod Well Use 124 Tov Zuunmod Well Use 125 Tov Zuunmod Well Use 126 Tov Bayan Well Use 127 Tov Bayan Well Use 128 Tov Bayan Well Use 129 Tov Bayanjargalan Well Use 131 Tov Bayanjargalan Well Use 132 Tov Bayanjargalan Well Use	. i	• 1			Vse
122 Tov Zuunmod Well Use 123 Tov Zuunmod Well Use 124 Tov Zuunmod Well Use 125 Tov Zuunmod Well Use 126 Tov Bayan Well Use 127 Tov Bayan Well Use 128 Tov Bayan Well Use 129 Tov Bayanjargalan Well Use 130 Tov Bayanjargalan Well Use 131 Tov Bayanjargalan Well Use					
123 Tov Zuunmod Well Use 124 Tov Zuunmod Well Use 125 Tov Zuunmod Well Use 126 Tov Bayan Well Use 127 Tov Bayan Well Use 128 Tov Bayan Well Use 129 Tov Bayanjargalan Well Use 130 Tov Bayanjargalan Well Use 131 Tov Bayanjargalan Well Use 132 Tov Bayanjargalan Well Use		I		ŀ	T. C.
124 Tov Zuunmod Well Use 125 Tov Zuunmod Well Use 126 Tov Zuunmod Well Use 127 Tov Bayan Well Use 128 Tov Bayan Well Use 129 Tov Bayan Well Use 130 Tov Bayanjargalan Well Use 131 Tov Bayanjargalan Well Use 132 Tov Bayanjargalan Well Use			i		
125 Tov Zuunmod Well Use 126 Tov Zuunmod Well Use 127 Tov Bayan Well Use 128 Tov Bayan Well Use 129 Tov Bayan Well Use 130 Tov Bayanjargalan Well Use 131 Tov Bayanjargalan Well Use 132 Tov Bayanjargalan Well Use		I		1	
126TovZuunmodWellUse127TovBayanWellUse128TovBayanWellUse129TovBayanWellUse130TovBayanjargalanWellUse131TovBayanjargalanWellUse132TovBayanjargalanWellUse	í	• 1	•		1
127TovBayanWellUse128TovBayanWellUse129TovBayanWellUse130TovBayanjargalanWellUse131TovBayanjargalanWellUse132TovBayanjargalanWellUse	1	1			
128TovBayanWellUse129TovBayanWellUse130TovBayanjargalanWellUse131TovBayanjargalanWellUse132TovBayanjargalanWellUse					Use
129TovBayanWellUse130TovBayanjargalanWellUse131TovBayanjargalanWellUse132TovBayanjargalanWellUse		. 1			Use
130TovBayanjargalanWellUse131TovBayanjargalanWellUse132TovBayanjargalanWellUse		. , 1			
131 Tov Bayanjargalan Well Use 132 Tov Bayanjargalan Well Use		I		Well	Use
132 Tov Bayanjargalan Well Use		Tov	Bayanjargalan	Well	Use
	. t	1	Bayanjargalan	Well	Use
133 Toy Arbust Well Hea		Tov	Bayanjargalan	Well	Use
l north	133	Tov	Arhust	Well	Use

Table 3.1.3.8 (4) Water quality Study Sampling Location List

Table	3.1.3.8 (4)	Water quality Study Samp		ion bist
No.	Aimag	Sum	Source	Drinking water
134	Tov	Arhust	Well	Use
135	Tov	Arhust	Well	
136	Tov	Arhust	Well	Use
137	Tov	Arhust	Well	Use
138	Tov	Erdene	Well	Vse
139	Tov	Erdene	Well	Use
140	Tov	Erdene	Fountain	Use
141	Tov	Bayandelger	Well	Use
142	Tov	Bayandelger	Fountain	Use
143	Tov	Bayandelger	Fountain	Use
144	Tov	Bayandelger(bayan)	River	Use
145	Tov	Mongonmorit(vorga)	River	Use
146	Tov	Mongonmorit	Fountain	Use
147	Tov	Mongonmorit(suji)	River	Use
148	Ulaanbaatar	Voghande	Well	Use
149	Ulaanbaatar	Voghande	Well	Use
150	Ulaanbaatar	Voghande	Well	Use
151	Ulaanbaatar	Voghande	Well	Use
152	Ulaanbaatar	Vognouul	Well	Use
153	Ulaanbaatar	Vognouul	Well	Use
154	Ulaanbaatar	Vognouul	River	Use
155	Ulaanbaatar	Vognouul	Fountain	Use
156	Ulaanbaatar	1	Well	Use Use
157	Ulaanbaatar	Arjanchibran	Fountain	Use
158	Ulaanbaatar	Nareef	Well	Use
159		.1	Well Well	Use
160			Well	Use
161		Baynchandmani	Well	Use
162		Bornuul	River	Use
163	t 🗗 i a de la companya de la compan	Bornuul(boroo) Jargalant	Well	Use
164		1 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Well	Use
165		Jargalant Mandal	Well	Use
166		Tuunhel	Stream	Use
167	. I	Zuunharaa(haraa)	River	Use
168	1	Zuunharaa	Well	Use
169		Zuunharaa	Well	Use
170 171		Oktbayar	Well	Use
172	1	Oktbayar(hara-erge)	River	Use
173	L '	Baruunharaa	Well	Use
174	1	Baruunharaa(haraa)	River	Use
175		Baruunharaa(bayn)	River	Use
176	1	Sharingor	River	
177		Sharingor	Reservoi	r Use
178		Sarhito(erhe)	Well	Use
L		_1		

Table 3.1.3.8 (5) Water quality Study Sampling Location List

Tab.		hater quality Study Sam	-	
No.		Sun	Source	Drinking water
179	1	Hongor	Well	Use
180		Hongor	Well	Use
181	· ·	Hongor	Well	Use
182		Sarhito	Reservoir	
183	1 -	Bayanharaato	Reservoir	
184		Eroo	River	Use
185		Eroo	Well	Use
186		Eroo	Well	Use
187	·	Dulaanhan	Well	Use
188	1	Altanbulag	Fountain	Use
189	1 7	Altanbulag	Well	Use
190	····	Sukhbaatar	Well	Use
191	~	Sukhbaatar	Reservoir	Use
192	_	Shaamar	Well	Use
193	J	Zuunburen	Well	Use
194	_	Zuunburen(selenge)	River	
195	•	Tsagaannuur	Well	Use
196		Tushig	Stream	Use
197	· · · · · · · · · · · · · · · · · · ·	Tushig	Well	Use
198		Tushig	Well	Use
199		Shaamar(orhon)	River	· : i
200	* 1	Sharingor	Reservoir	Use
201	1 -	Sharingor	Reservoir	Use
202		Sharingor	River	Use
203		Nomgan	Well	Use
204		Futol	Reservoir	Use
205	1	Orhon	Well	Use
206		Orhon(orhon)	River	
207	1	Sant	Reservoir	Use
208	,	Sant(yebun)	River	Use
209		Baruun-breen	Well	Use
210		Baruun-breen(vorgartai)	River	Use
211	1	Jargalant	Reservoir	Vse
212	1 -	Hangal(zuuhi)	River	Vse
213	1	Hangal	Reservoir	Use
214	1 -	Hangal	Well	Use
215	1 1	Hangal	Well	Use
216		Selenge(inget)	River	: Use
217	1 1	Selenge	Well	Use
218		Selenge(bog)	River	Use
219	1 7	Bogt(hojil)	River	Use
220		Bogt	Well	Use
221	1 - 1	Bulgan(achit)	River	Use
222	1.0.1	Dull = / 1 2 4 5	n ·	I
223	Bulgan Bulgan	Bulgan(achit) Bogt(onit)	River	Use

Table 3.1.3.8 (6) Water quality Study Sampling Location List

-	3.1.3.8 (6)	Water quality Study Samp		
No.	Ainag	Sum	Source	Drinking water
224	Bulgan	Hutog-ondor	Well	Use
225	Bulgan	Teshig(eg)	River	Use
226	Bulgan	Teshig	Well	Use
227	Bulgan	Teshig	Lake	Use
228	Bulgan	Hutag-ondor	Well	Use
229	Bulgan	Hante	Well	Vse
230	Bulgan	Hante	Well	Use
231	Bulgan	Hante	Stream	Use
232	Bulgan	Hutag-ondor(selenge)	River	
233	Bulgan	Hutag-ondor	Stream	Use
234	Bulgan	Bayan-agt(hanaoi)	River	Use
235	Bulgan	Bayan-agt(shalag)	Lake	Use
236	Bulgan	Bayan-agt	Well	Use
237	Bulgan	Bayanagt(hunui)	River	Use
238	Bulgan	Shaihan	Stream	Use
239	Bulgan	Bulgan(shiuut)	River	Use
240	Bulgan	0rhon	Stream	Use
241	Bulgan	Orhon	Well	Use
242	Bulgan	Orhon(orhon)	River	
243	Bulgan	Orhon	Stream	Use
244	Bulgan	Bulgan	Well	Vse
245	Bulgan	Hishig-ondor(teeg)	River	Use
246	Bulgan :	Hishig-ondor	Well	Use
247	Bulgan	Mogod	Well	Use
248	Bulgan	Mogod	Well	Use
249	Bulgan	Mogod(haruun-lash)	Fountain	Use
250	Bulgan	Mogod(nalash)	RIver	Use
251	Bulgan	Mogod(bayn)	River	Use
252	Bulgan	Hishig-ondor(fushuut)	River	Use
253	Bulgan	Hishig-ondor	Well	Use
254	Bulgan	Bureghangai	Stream	Use
255	Bulgan	Bureghangai(bombat)	RIver	Use
256	Bulgan	Bureghangai(shibert)	RIver	Use
257	Bulgan	Bureghangai	Well	Use
258	Bulgan	Bureghangai	Stream	Use ,
259	Bulgan	Tuulin-guul(tuul)	River	Use
260	Tov	Zaamar	Reservoir	Use
261	Tov	Ogtaar	Well	Use
262	Tov	Atar	Reservoir	Use
263	Tov	Atar	Well	Use
264	Tov	Emeert	Stream	Use
265	Ulaanbaatar	Alshaant	Well	Use
266	Ulaanbaatar	Partizan	Well	Use
267	Tov	Nogoon-turgee(mohar)	River	Use
268	Tov	Batsumber(harzan)	River	Use
			1	J

Table 3.1.3.8 (7) Water quality Study Sampling Location List

rapre	The second secon	mater quality study samp		
No.	Aimag	\$um	Source	Drinking water
269	Tov	Batsumber	Well	Use
270	·Tov	Batsumber(huin)	River	Use
271	Tov	Batsumber	Well	Use
272	Tov	Batsumber(odorg)	River	Use
273	Tov	Batsumber	Well	Use
274	Tov	Nogoon-turgee((bayn)	River	Use
275	Ulaanbaatar	2-Veoodar	Stream	
276	Ulaanbaatar	Bayanhoshio	Well	Use
277	Ulaanbaatar	Dandabarji	Fountain	Use
278	Ulaanbaatar	Uyrdebur-24	Well	Use
279	Ulaanbaatar	Uyrdebur-18	Well	Use
280	Tov	Altanbulag(tuul)	River	
281	Bulgan	Bulgan	Well	Use
282	Bulgan	Hishig-ondor	Well	Use
283	Selenge	Sharingol	Well .	Use
284	Darhan uul	Sarhit	Well	Use
285	Orhon uvl	Orhon uul	Well	Use
286	Orhon uul	Bayanbuular	Well	Use
287	Selenge	Zuunharaa	Well	Use
288	Selenge	Mandal	Well	Use
289	Selenge	Belendare	Well	Use
290	Selenge	Ulaantorge	Well	Use
291	Orhon uul	Orhon	Well	Use
292	Orhon uul	Erhet	Well	Use
293	Orhon uul	Nongan	Well	Use
294	Selenge	Baruunharaa	Well	Use
295	Orhon uul	Berhe	Well	Use
296	Orhon uul	Tsuedam	Well	Use
297	Selenge	Dulaan	Well	Use
298	Selenge	Eroo	Well	Use
299	Selenge	Enhtal	Well	Use
300	Ulaanbaatar	Arshant	Well	Use
301	Tov	Artanbulag(tuul)	Well	Use .

F			• '					-	•	ż,		-		r		_	4		•	+									-						~-																	F
	· > c	22	_	-								e:		~ ~			_	. <u>-</u> -								_				_	_				_						_						·			:	_	ŀ
Ives																																																				١
2				2		3 (.1		_							٠,					:			1															- :					~			_					l
				. · ·				•	4				-	_	<u>_</u>	_		-	-		- 4			-	-4						<u> </u>				_	_				٠.		_				_					_	
	٠.	ت.	2	œ				O	-	 •	٠.	٠.	; r	- (<u>.</u>		ئى،		91		9	6		٠ •	~	0	0	0	ا د	-	٠ 		0,	21	-17	6	٠			 	 20	0	 0:		3	0.0	2,5	9.1		00	9	
neral	3	§ :	553	96.7	ò	Š	/	Y	1	200	372	305		7 7	6	1039	6	ò	5	=	9	433		2	2	3	Ċ	2	30	Š	ò	Š	53	27	3	67	Ş		Š	3	2	₹	23	8	8	83	24	÷	580.4	7	· 4	
SS Mi		∞	۲-	~		+	7	-	3	4	4	œ	0 6	D 9	<u>۔</u> ف	6	e.	, 0	0 1	0	0	12		*	7.	0	00	0) u	9 0		0	.0	د.	0.0	6	\ \		2	٠,	2.1	9.	7.7	5.2	6.5	9.	23	2	<u>.</u>	2.3	۳.	Ì
ardne	ייכ	90	~	-					, ,		4	-	;	~		4	•	•		.,	•	•			_	`	•	•		•	_							•	•					:								ŀ
 S		·-		٧	1	-	7	-		0	3.0			- 1	0	.2				7.7	3.6	,-	+ L		~~ ~~	0	-		200	7 6	 	2.1.	5.2	œ.			· ·	 5 C		2	د. ص	4.5	9	5		7	2.4.2	8	201.0	9	9	١
)3+F0	=	225.7	S	30	ŚÈ	ŝ	22	č	3	8	86	č	2 3	T	3	3	ē	3 6	3	5	20	8	3 8	77	8	S	200	• 6	3 8	38	ŝ	67	13	ន	20	6	3 6	7,	O. E	7	12	ಜ		2	į,	-	-	~	S &	S S S		5
ا و					-	3	-	·	? !	_ 	_				-			-•		:	ທ ເຄ	_			0;	0.0			_																		_				. C	
Š	က္	-	6.2	-		?	3.7			∞ ∞	6.7		7 .	× ×	0.0	2		 3 6	2		7	-		2	00	1.6	9	> <	+ 4	7 9	5	8	27.	30	2.7	3	- <		2	2	5.3	4.8	8.2	28	2	٠ د	2	2	2 19			
ច	11.7.	8	20	8	3 (ž	47.	į	;	8	55	Ş	200	8	8	120	200		:	145	9,	100	5 5	ġ	ģ	¥2	7		- 1	જે i	27	7	2	7	2	15	36	7.6	4.	7.		7		46	, K	2	7	· 30	. 5	1 6	3 =	2
- -	0.0	-	v.	1	- 1	,			3.	7:	7	٠	0 (×	0.8	٠,				0.0	2.4	0		, o	4.0	2.2	2		340	ر د د	-0.7	6.0	2.6	6.0	0		4	3 0	5.0	9	6.4	6.01	3.6	28.5			0	5	} ~	0	0	61.3
-	ص 	2			<u>-</u> -	-÷		-				_	; ;-	_	_					-	_	-						_	÷			7			~ -	Ť	-			_					٠	· -						-
3	S	38	g	ä	; ;	٥	<u>ئ</u>	•	Š	ፚ፟	99	5	126	8	8	8	9	ġ:	3	ষ্	9	?	\$ 5	Ž	2	9	S	3 6	81	\$	9	ន	8	2	5	1 5		-	E :	3	+ 46	7	 	15A	-	7	3	2 	3	; æ	3 E	2
A+K	23.6	37.9	8	97	0.0	4	6		33.3	338.1	17.9		5 5	318.3	216.0	295 €		2	7.7.7	252.5	3			7. [87	8	11.0	6	1	0.01	42.8	105.8	28.7	29.9	25.5	5	, u	300	9	50.5	33.6	8	20.9	8	75.2	27	3.16	0	24	2.0	2.6	3.01	r.
	9.0			_			-			:	0.50			0.6	_	_	-		-	0.0	_		_		0.0						-	0 6	0	2.0	0	, , , , ,	- c	- : - :	0	0	0.6	0.6	0	0		ç	0	?	0 136	20	> <	- - :
											~	•							∞							_						-	128		-		_		_						_	_						_
t.B	0.1		_	_				•	0.11		0 66	į	-	11.0	11.0			. 1	12.0	11.0	-			11.0	0.11			. :	11.0			11.0	i,	3.0			?	0.1	=	11.0	111.0	0	11.0				111.0		·	• • •	? .	?
.8	E	0	-	, t	_	رم 					0 0				_		2 5			_								 		<u></u>	بر س	55				3 9	2.5			<u>م</u>	2	- -		3 60	3 11	35	2 6) L	3 5	3 8	32	_ X
PH	ł۰			-	_			_				-						-			3	5 0	o i	-			•			_	-				-				-	7							-		2 6 0 6 0			-
Source	_	-					_	<u> </u>	<u>.</u>	_	1 =	1	<u>.</u>	_	-	<u> </u>	1:	₫.		=	:=	1:	~ .		-	: =	1:	, ر	1	=	II	11	-	:=	1	٠ ا	: :	=	=	ं ≓	untai	=	:=	1=	1		: ::	7 7	rountar	3-	7 -	
-X	a	0	5	2	ç	Ş	,	2	ပ္	Č.	3	2	3	9	ž	Ş	F	<u>်</u>	¥.	9	3	1	₽	¥.	×		2 5	÷	<u>.</u>	ž.	¥.	¥.	, a			5 -	= :	€.	.≅	¥.	2	3	3	3		3	2	E D	Z 3	É	¥ 3	Ĕ
	:																							ulaan	1320	Colomban whom	1	,	Lan			1			`										1	i codi	1001	1001	1 221			
S.E	Bayan ondor	Ravan ondor	Dates onder	3							[0]	3	<u> </u>	540	. 1 .	. 1	-0	SIII-U	SU-O	20-0		3	1	801onbayn-ulaan	Rolonbayn-niaan		110.00	ייייבע	Hairhan-dulaan	بد		t	1	. t	٠,		Æ	ed.	Arvaikheer	Arvaikheer	Arvaikheer	Arvaikheer	Amerikan	fundament Zumbanden	11.00	המינות און בחוממוי היידים ביידים המינות		ממשטאוו היישקווויים באמוויים	/uunoaynuuaan	3 4		2111
	Savan	Rayer		į.	SEP	Sunt	*	i	Sant	Sant	1100	odynigo.	Bayangol	Tugang	The man	į	ST.	Guctun-us	Cuchin-us	Suchin-us	and a real	1	Such in Table	80,08	Rolling		3	127	Hair	Tarage	Tarret	Tarart	Paraet	1979	7	AL IS	ryanga cyanga	Uyanga	Ara	Arva	7	7		2	7	Vinter I				012112	01211	2002
	<u></u>						-		۔۔۔		·							á	(8)				Ę.	Z.			3	ā		_						54.1	٤. ن	185	gai.	_ ផ្ល	, ,	ŕ		 	110	541	44	£3;	ć.	K 33	is.	100
Aimag	Ovorhanga	Ovorhanga		CVOTIBILISA	Ovorhanga	Ovorhanea	4	CVOLUMER	Ovorhanga	Cuchanga	1	CVOTTAREA	Ovorhanga	Ovorhanga	Constance	4	CVOLUMBA	Ovorhanga	Ovorhanga	Overhanga	Company of the		Ovorhangai	Ovorhanzai	Chickmond		OVOCIMENSAL	CVOFFARGA	Ovorhangai	Ovorhangai	Ovorhanga	Overhanga	Overhangai	September 1	OVOCILEME	GVOrdanga	Ovorbanga	Overhangs	Ovorhangai	Ovorhancai	Overhance	Ovorhanna	Or Carlotte	1 6	OVOTTERESA	CVOFILLINGE	OVOFILENCE	Ovornanga	Ovornanga	CVOFRANKA	Ovorhangan	Overhanes.
	Ovo -	_		3		-			-	—												-						_						_ ·	<u> -</u>					Š								_	<u>ج</u> اج			Š
ģ	: -	٠,	3 6	3	~	L	4	٥	£	œ	0 <	'n	≓	2	2	: :	5	2	-2	~	÷ -	4	N	2	à	ė	3 .	Ni.	ន	د.	è		č	3 %	3.	3		₹	₹	7	`	~				+ i	7	n i	ימ	(ဂ (<u>ر</u>

- 3-43-

255.2 271.5 290.5 360.0 450.0 9.0 27.0 27.0 9.0 9.0 9.0 217.0 2.2 111.0 111.0 Bayanon jiuul Bayanon jiuul Bayantsagaan Bayantsagaan Bayantsagaan Bayantsagaan Aigag

Ovorhangai

Ovorhangai

- 3-44 -

Aliang Tov Aliang Tov Tov Aliang Tov	٧.										4	•			7 B. S.	****		-	4	*	~		^~	*	÷				· Carro		- F	***		***					4	<u></u>	144					4		-	F
7.66 111.0 9.0 9.1 9	vestock			-		_	_								_		-							-			_																		က				Ī
T. Co. T	- 1	-		~ 1					6	2						<u>-</u>	_	~							_	_			6 2	د،	67	~						-	_		-							-	
T. Co. T		-4	-					_					4 +-	٦.										•		~4,	- 1	- 4						~ ·				-4			•-4		,-4					-	-
Triangle	Mineraliz.	700.0	393.9	760.5	429.5	375.1	418.2	224.4	485.2	1025.5	1146.9	0 667	20.70	25.	1000	7.01t	268.7	6.65	1185.3	1421.7	528.5	524.3	300	200	733.0	415.3	372.5	282.7	703.5	755.8	730.8	394.0	200.1	202.8	391.0	254.2	333.5	115.3	792.1	273.7	412.7	445.9	350.4	5,6.4	915.7	247.7	364.8	291.7	0.00
T. Co. Mark Ca Mg Cl SSA Fe CO3	Hardness	6.3	3.6	2,5	4.9	4.4	5.4	23	5.2	7.1	0		•	7 6	70	201		_			<u>.</u>		_		: 																		_					es e	2.0
Nationary Car Mark Ca	C03+HC03	317.2	237.9	295.7	231.8	196.0	240.8	118.8	289.2	317.0	286.4		7.001	000	100	216.7	347.7	339.7	435.8	755.6	265.3	268.4		0.00	25.5	250.1	213.5	167.5	265.2	268.3	271.3	274.3	103.7	103.7			204.3	45.7	378.2	140.3				•					0.107
Murce PH Co. L.m. Co. i. Natk Ca Ng Cl	·	_		_	<u>:</u>	·				_	_							_	-						-41			<u>~</u>	_		_					o		_	*17			5.0.3	3 0.3	0.1	8 0.4	7 0.2	20 9	1.0.2	
MUTCE PH Co. L.ml Co. i. Nark Ca. Vg	Š	. 176.5	42.8	121.9	46.0	ж Ж	2.2	36	224.6	290 9	305	38	2 5	3	41.	73																										ફું	8	25.	83	9	×.	တ္ဆံုမွ	07
Nurce PH Co. 1.ml Co. i. Nark Ca. 7.66 111.0 3.0 36.2 36.2 11.0 3.0 3.0 3.7 46.1 11.0 3.0 3.4 141.3 3.1 11.0 3.0 3.4 141.3 3.1 11.0 3.0 3.4 141.3 3.1 11.0 3.0 3.4 141.3 3.1 11.0 3.0 3.0 144.4 44.1 3.1 11.0 3.0 3.0 144.4 44.1 3.1 11.0 3.0 3.0 175.7 34.2 111.0 3.0 32.3 35.1 11.0 3.0 32.3 32.3 32.3 32.3 32.3 32.3 32.	៦	١.				. <u></u>										9.01			÷								1																					e	7.7
Nurce PH Co. 1.ml Co. 6. Na+k 1. 7.60	وي	18.2	15.8	23.5	23.	21.9	30.4	10.9	ري دي		e c	ie	0.77	2.17	20.1	11.5	18.2	Z.	47.4	22.5	7	4	3 6	o (32.00	10.9	6	10.3	88	42.6	32.2	46.2	2.4	3.6	15.8	4.9	6.1	 	43.8	12.2	24.3	25.5	11.5	38.3	8.5	21.3	27.4	2	9.61
III 7.86 III.0 9.0 III.0 9	ය	2.96	46.1	141.3	1.09	51.1	88	31.1	4	58.1	3	3	70	7	3	26.1	100.2	100	78.1	62.1	7			2	102.2	ب 89	. 56.1	45.1	70.1	74.	73.1	88	18.0	22.0	50.1	34.1	18.1	10.0	24.2	8	51	%	40.1	47, 1	96.2	23.0	47.1	45.1	43,1
III 7.86 III.0 7.86 II	\a+k	69.5	33	35.4		22.8	9.0	15.6	144.4	178.7	77.7	- 0	0.7	7,7	5.73	25.3	22:1	39.6	207.5	330.7	8	3 0	2.5	4.7	49.4	38.6	29.4	17.0	74.5	82.6	5.58	61.9	8	29.9	32.2	29.4	38.6	14.3	63	29.9									- 1
Description of the property of	.i.	-	9.0	9.0	36.0		9.0	8	0.6	0	;	c	7 9	0.65	198.0	0	0.0				0	•			450.0	0		81.0	9.0	0.6	9.0	0 6	6	8.0	540.0	9.0		0 6	6		3.0	3.0	3.0	000	33	3800.0	3.0	3.0	0.052
nutain nu	o.t.ml		111.0	111.0	27.0	-	111.0	55	11.0	-			200	0.7	,	111.0	111.0			:	111.0	*			2	111.0		12.3	111.0	111.0	111.0	111.0	111.0	111.0	6	111.0		111.0	111.0		333.0	333.0	333.0	333.0	11	0	233.0	333.0	4.
nutain nu	 E	1.60	2	7.80	7.60	7.40	7.78	7.79	7.05	60	000	2	700	3	2.70	88.	7.60	7.30	8.00	8.39	2 20	3 6	3 3	2	7.45	2.36	7.10	7.79	2.88	7.89	88	7.91	7.11	7.10	7.12	6.98	7.01	9,0	7.60	7.42	8.90	7.32	7.49	7.42	7.13	7.49	7.16	3.3	03.
Aidag Sun 23 Tov Sergelen 24 Tov Zuunmod 25 Tov Zuunmod 26 Tov Zuunmod 27 Tov Zuunmod 28 Tov Zuunmod 28 Tov Zuunmod 29 Tov Zuunmod 29 Tov Zuunmod 29 Tov Zuunmod 20 Tov Zuunmod 29 Tov Zuunmod 20 Tov Zuunmod 20 Tov Zuunmod 20 Tov Zuunmod 20 Tov Zuunmod 21 Tov Zuunmod 22 Tov Zuunmod 23 Tov Zuunmod 24 Tov Zuunmod 25 Tov Zuunmod 26 Tov Zuunmod 27 Tov Zuunmod 28 Tov Zuunmod 29 Tov Zuunmod 29 Tov Zuunmod 20 Tov Zuunmod 20 Tov Zuunmod 20 Tov Zuunmod 20 Tov Zuunmod 21 Tov Zuunmod 22 Tov Zuunmod 23 Tov Arhust 24 Tov Zuunmod 25 Tov Arhust 26 Tov Zuunmadeiger 27 Tov Zuunmadeiger 28 Tov Zuunmatar 28 Tov Zuunmatar 29 Tov Zuunmatar 29 Tov Zuunmatar 20 Ulaanbaatar 20	an.ce			-					<u> </u>								_	Well	Well	Well	Wol]	1100	Heli.	rountain	¥e]]	Fountain	Fountain	Fountain	Weil	Weil	Well	¥e]]	Well	Well	Fountain	Well.	Fountain	Well	¥e]]	Well	Wel]	Well	Well	Well	¥c11	Stream	Well	Wel]	Mp [
12. 10v 1. 10v 1	Sub	avantsagaan	Serrelen	'uunmod	Zunnaod	// dummod	Zuunaod.	Zuunaod	Bavan	Towns.	Peryout 20-mg	payan	Sayan Jarga lan	Bayanjargalan	Sayanjargalan	Arthust	Arbust	Arbust	Arhust	Arhust	Protono	or a contract of the contract	craene	Erdene	Bayandelger	Sayandelger	Bayandelger	Mongonmor 1 t	Voghande	Voghande	Vorhande	Voghande	Vognouu	Vornoun	Vognoun	Overlanchibran						Borneni	Jargalant	Jarenlant	Mandal	Turnhel	Zuunharaa	Zuunharaa	Okthayar
\$	Aimag								-														-				-		anbaatar		· —	_			Ulaanbaatar	Ulaanbaatar	Ulaanbaatar	Ulaanbaatar i	Claanbaatar	Cambartar	Tov	Tov	, o	Tov	Se lenge	Selenge	Selenge	Selenge	Tov
 Cheek was been that and and and and and and and and and and	o			~~	Ŋ						-	÷.											- '	_	-			٠		5		_			155	5	157	3	129	180									- 1

İ	
SResu	
Analysi	
Water /	
Orinking	
€	
1.3.5	
Table	

Γ	V		ON COLUMN			_							-	-	<u>دیانی</u>		-		-									-								-	-		****			¥			*	~
l	8										-										-				_																					0
Decision	ivestock												•																																	
Dec.	3.11																																													
	2				2				_	-	_										•						8)					2	2		~	٥.	~	~	,			~			×
	-		•					-			_				4 +	_		_			٠							-		-				-		,				-		-				7
	Ļ		- 30				01		<u>~</u>	<u>.</u>	_	_	ο.		> -			~										_				_					_						io]
	ra];	250.4	8	544	838	265	556	305	£	676.	940.1	319	200	8	3 8	3	3	236	218	Ş	3	7	ž	88	297	505	82	767	361	200	387	296.	3	į	396.9	407	325	53	382	3	8	014.3	169	788.4	931.7	iotal
	Mine		1																																•	•		•		•		Ξ.	·	•		5
	655	2 S 2 A	. 3	3.4	6.1	2.0	co W	3 2	4.7	8.5	6.6	9	4.7	8	> <	*		2.7	-		* 6	2	2	3.2	3.2	4.2	2	2	9	8	S	8			90	2	3	7	4	es es	3	2	9	2.2	7.1	0.0
	Sardn																						•	-		-			-				_							•		∺	•	.,	.	
-		90		 30	00		C3		~		2	(V)			- L	٠.		_	_	_	0 8	_	ေ		٠-	•9	دع			ác	~		_	~			ċ	90	_			Ċ		~		
ľ	C03+H003	158.6 298.9	240	331.	414.	283	378.	201	259.	311.	439.	216.	27	250	36	į :	် လို	ż	8		3	ŝ	2	ŝ	22	283	270	83	23.7	170.	256	35.	5	3	253	219.	213	231	23	38	222	3	219.	36.	509	3
	8																																													
	S.		2.0	0.2	3		-		0.7	0.5			0.2		0	2		ei O	6		3 .			0	27	0.1	2.0	0			0									0.1	6		_		1.2	
i —		7 0	0	۲-	٧.				_		<u> </u>	6	<u></u>	_				_								_		_		0.	4	_		4		-1	v	2						~		
	×.	19 7	6	걸	<u>8</u>	**	<u>ښ</u>	=	36	88	E	<u></u>	-	. ⊱	3 °	·	<u>.</u>		23		3 3	7	<u>ج</u>	23	<u></u>	=	22	53	8	20	8	5	13	8	8	47	Ξ	5	7	88	83	182	83	3	2 2	a -
		0.6	5	8.8	0.6	α. •	9.0	0	4.5	4.6	55 55	6.9	2	ο α	9 6		9	ر د	4		٥	9	2.	7.7	8	9.0	9.0	5	9.0		7	7:	8	2	9.0	0.0	er V	8	7	2	9.		6.6	3.2	80 c	
	ວ		×	.,		•	_	-	-			-	_	'						• -	1												2		٠١	-		~		-		Η	67	cs.	on -	
-		20	0	~	<u>.</u> ص	*	က		۲.	0	ø	5	`	`	10	3	-		C	0	9 <	>	0	۲,	~	9	0	•	တ	2	~		67	Ŋ	~	2	-	4	'n	دم	w	0	m	ç	9,6	
: : :	ž.		~~	₩ —	*		— ₩		ŏ	<u>ښ</u>	<u></u>	-	_		-	3 '		·-	_	-	7	-	=	23	φ,	13	52	2	-	9	18	03	7	ŗ.	2	27		91	=	Ξ	===	5	%		₩ ⊆	
	ا ہے۔	5 8 5		8.4	 83	8	2	50	6	3.2	9.5	8.1		٠			ģ		o i			2	9	4	7.1	6.1	0	7	 00	5			'n	0	8	7	5		80	7		85	· ·	45.1		,
_		L	_ 1	- {		Ξ.		<u>.</u>		_		<u>:</u>		٠.		_					_		<u>.</u>	- :					- 1	_	6.3	143							-			Ξ			7.4	
	73+K	ដូន	3	91.1	2	25	45.3	8 1	8	83	37.	=	od !	33	ję	,	∷	5	65		2 6	8	7.	4	15.	8	8	6.2	20.7	13.6	38.2	7	0.10	96.6	32.9	2.5	20	32.4	37.0	51.3	8	35.6	42.8	14.8	8. A.	
		0	-	_ <u> </u>			0	6	0		_	0	0	-	 > <			_	-		 > <	خ ر	0	0	0	0	0	c)	0									-	<u>.</u>			0	0	0	6	1
	اب.	ra :	က်				က	က်	8	ట		Ö	c	٢.	5	3 3	8	g	•	~	3 6	m 1	es.	က်	က်	÷	Ķ	"	က	m	3.0	•		í	ω,	8	300	ى د.	300		esi	e;	en	m	က်	ŀ
-	ટો							_		_		_		_	_		_	_	٠.							_	_	_	_									_								-
	8. t.	333	333.0				33.0	g	=	83		=======================================	333 (ξ.	; ;	-	<u>:</u>	=	333	Š	3 8	3	83	8	333.0	85	23	83	33.0	33.0	333.0				33.0		0	333.0	9		33.0	33.0	33.0	333.0	33	
					~			_	····				_	_	_							~	~		~	_	_		_	~~		_	-1-						<u>-</u>							
	Ξ	7.4	3	7	٠- ښ	5	رب ا	2	7	ë	 	٠. ښ	2	ç			č	Ö	7	~	3 6	ج ا	2	.2	ς,	7.4	5		, 90	3	4.	7.5	.6	7.89	7.	7.6	7.	7.42	7.7	7.4	4	<u>ج</u>	3	8.27	2 2	
_	ខ្ល						-	Ţ	zin.				:						_																							-		ä		
	Š	;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;	1	⊒ :		: ::::::::::::::::::::::::::::::::::::		;	Sunt	119	119	H	-	-	, ,	5.	7	3	=	-	1	;	Ξ	7	Ę	7	;	le!	=	ij		reg	8	ķe	=	rear	rear	7	rear	긐	Ħ		4	Founta	7	1
		*(e]]	×	≆	*	:Æ	*	≆	Ĕ	·	E	¥	3			2 :	≆ 	¥	3	3	= 3	¥ :	ž	ž	×	ž	×	ž	×	ž	¥	'n	S			5	5	¥	7	¥	.¥	¥			¥ 7	
															٠							_								•				Savan-agt(shalag)										Mogod(haruun-lash		
	, Cum	8arumharaa Sarhito(erhe)					1	ន	.ag	à	ą	7	Ę		1							barum-oroen					ö		ģ		÷	٠.	futag-ondor	(8)	دو						Hishig-ondor			Tum.	900	
	7	品は	5	jo.	20.	À	٠.	Dulaanhan	Altanbulag	Altanbulag	Sukhbeater	Shaamar	Zuanburen	Sapanning		ž.	1.8	3	5	9	ا ج	Ĕ.	त्	a,	Selenge		Hutog-ondor	ķ	lutar-ondor	وي	e,	6	P N	98-5 5	Bayan-act	SEC.	∉		đ	Ę	8	'9	v	å	ig-o	
:		25.5	Honzor	Hongor	Hongor	8 2 3	<u>8</u>	ğ	Att	<u> </u>	Stek	Š	Zum	22	Th	9	Tushig	Ę,	NOREAD	4	5	Ę,	Hangal	Hanga]	ž	Bogt	当芸	Teshig	表は	Hante	Hante	Hante	Fits	22.43	Baya	Shaihan	Orhon	Orhon	Orbon	Bulgan	Hish	Mogod	Yogod	Hogo	Hishig-ondor	
	_													-				_			_																						~			
	Aimag	nge 1 mm	3	dar'na uu	3	3	JE JE	250	280	32	386	S.	g	5		5	្ន	ė K	THE PERSON NAMED IN	1	3	Ħ	g	g	9	ថ្ង	g	s	g	g	5	g	5	₫	5	c	=	a	5	₫	4	Ħ	c	ផ	៨ ៖	
	۲	Selenge Darba unl	Darta uu	Jar it	Darba uu	Sel cage	Selente Se	Se enge	Selenge	Sel enge	Selenge	Selenge	Selence.	Solono	Colored	5	Selenge	Selonge	Orton III	on odder	5 / 1		Sulgan	Bulgan	Bulgan	Bulgan	Bulgan	Bulgan	Bulgan	Bulgan	Bulgan	Sulgan	Sulgan	Sulgan	Bulgan	Bulgan	Bulgan	Bulgan	Sulgan	Bulgan	Sulgan	Bulgan	Sulgan	Bulgan	Bulgan Rulean	
	- †		23					-		88	-	83				_				_					-÷				_												÷					4
	٤	===		~		≃;	≃ :	=	~	=	-3	15	3	5	: :	7	53	-:	203	200	វ ទ	2 2	7	22	ដ	S	ä	2	33	8	ន្ត	33	23	S	23	23	8	Z	Š	72	2,56	247	82	249	S V	i

	7		o-41 							<u>.</u>				_				-				~-				•					. 						_	_			_	_			_	_					0	17	∞	
00crs100	3. livestock				_																										:			•	_	-								•	_	_	-	. •			0	7	લ	
ě	2 8.	-	-					- -			_		. <u>-</u>	~														-	-						_	_				_										-		S	14	
		1		_						-		 	-		-	٠.	_		-	-					: 	_	_	-4		-	-		_	_	٠.	4	_	_	-					٠,	_			-	_		3	191	75.1	
	ineraliz.	407.2	496,4	319.2	283	000	3 0	0.020	397.5	537.0	916.8	0.017	411.8	878		7 1	327.5	159.7	194 6	7.77	380	516.7	,	_	:				_										_								0 007	2.17		-	Total	6 Total	8	
	Hardness M	4.2	4,4	3.0) I.	3 (2	4.3	<u>ح</u>		7	4	~; =	9	j .	20		-	7	7.	_				:	- t	3.7	5.0		-				_			_				_					_							
	CO3+HCO3	271.4	341.6	C X6	130	2000	000	326.3	256.2	7 628		1.161	277.5	314.1			207.4	25		1:10	219.2			9.5	6	9	2.517	256.2	298 9			175.7	774.5	162	7.307	2	213.5	207.4		7.061	244.0	13%	1	D.O.T.	189.1	183.0	200	7		:				
	9	-			:					c			_		-	:	-		_		_		-		_		:	_		٠	5		_			_		:_	_								_	20	<u>:</u> _		-	-	4	-
١	Š	7.3	10	66		:	2	2	30.4	9	2 6	3	7.7	164		2	21	41.0		2	40.0	u	;								٠	٠															;	×.						
	ฮ	16.0	14.2			3.5	2.1.5	23	12.4	16.0	200	ЭЭ ХО	6,	1.49 8 1		:	0.0	α	3 6	ວ	19.51				9		0.01	9.01		2.0	18.	36.0	10 4		01	18.8	22.0	ç	3 0	7.01	63.9	9	2	.c. x0	5	36	9:50	0.47	-			:		
	×	o.	2	0 0	3	0 0	7.6	2	14.6		3.	7.6	20:1	25.	3	-	ν, 			<u>ئ</u> بر	14.6	6	2.7	7.92	10.0	3	10.8	20.4	9.6	3 6	١.						÷.					_				٠.		_	_				-	
	J	ex u	69		•	ŝ	5	55	1	5		ģ	99	7 021		7	9	6	3	9	99	3	200	9	2		‡ ≎	2		5	တ မိ	100	5) - :	2	2	9	0 27	2 :	\$	24.0	a	0	88	3	9	3	?				:		
	2+k	2 26	7 27	ç	3	17	7.83	36.3	2 8	6 4	2 :	14.5	17.0	0 /6	3	2		6 66	3,1	13.3	28.0	,	7					_						:	:		:			:					:	-		9.	:			;	ļ	
	بر 	0 %		-		3.0	_				÷			• ••							•				0		n			-	 	c c		2		0	-		_			:		 0.6	-	ć	7	:	-					
	2 +				3.00	333.0	11.1	333.0	333 0	200	0.000	23.0	373.0				_	-							0.00	7.700	333.0				333.0	333		355.0		250.0		-	-					333.0		0	333.0							-
	주 -2	1	03	3 6	>	3	7.49	7,39	4 20	3 6	75.	7.15	7 27		3	01.	7 20	3 6	25.0	 23	00 8	200	200	7.20	5	3	2.8	. US 9		9	9	00		3	8	200	08		3	8	8		3	8.80	2 00	3	3	S	_	_				
sis Resul						*e.I.	-								_			=	_										10.1	. Tell	We I	1,00		#e11	Ke]]	We]]		12:	1104	Well			*err	Well.	Wo.1	1152	Weli	Well						
able 3,1.3.9 (5) Drinking Water Analys	***			angar	ogtaar	Atar .	Encert	+	-			Ratsumber		_		Kavmhoshio			Cyrdebur-24		-		Hishig-ondor	•	5	•	Orbon unl			33				Corgo	Orthon				Baruunharaa	Rethe			Dulaan				Arshant	Artanbulag(toul)			_		The state of the s	+
.1.3.9 (5) Dr	1		parkan	-	jo.	3	704	mhustan.	_	U. aanoaavar		20.		Š.	Lianbaatar	(asshastar	III a colactor	חושקוות מיו	Isanbaatar	"Jaanhaatar	1		Sulvan	_		Darman uui	Orhon mil	100	ornon un	Selenge	Colonor	2000	Sel Carge	Selenge	Orthon uni	Orthon 1111	200	orman muta	Secure	China mil		Ornon uni	Selence	Colongo	2000	Seron se	Clashbastar	ئي.	:	-				
able 3.		- - - -	-	_	92	33	_			8			_		275	27K	3 6	3	22	2		-	666			Š	 %	3		83	-			_	53	900	3 8	_	2	200		3	23	200	3 6	3	음 음	30	;					Ĺ

Table 3.1.3.10 (1) EC,PH Analysis Results

No. Ainag Sum Source C m s/cm (25°C) PH 1 2 3 3 10 0 0 0 0 0 0 0 0	[3.1.3.10 (1)	co, in marysis re		EC	Measured	EC Stand-		1	Decis	ion
10	ĺ					value	ard value		•		:
15	No.	Aimag	Sum	Source	°C	m s/cm	(25°C)	PН	1	2	3
20	10	Ovorhangai	Bayngol(ongi)	River	5.00	0.25	0.65	8.17	1		
20 Overhangai Ouchin-us(aldart) River 5.00 0.45 0.85 8.21 2 2 2 2 2 2 2 2 2	15	Ovorhangai	Tugrug(mazar)	River	7.00	0.64	1.00	8.32		2	
27 Ovorhangai Sariin-teel(taatu) River 3.00 0.32 0.76 8.10 2 2 2 2 2 2 2 2 2	20	Ovorhangai	Guchin-us(aldart)	River	5.00	0.45	0.85	8.21		2	
27	25		Sariin-teel(taatu)	River	1		1	į	1		
28	27			L	I .		1	i		2	
29	28	1		1 1	1	i .	1 .	i			
31 Ovorhangai Hairhan-dulaan River 1.00 0.38 0.86 8.23 2					i .	1	1	i i		I '	
37		1								1	1
40	1						i	Ι.		į	
42	I .		· ·					1	1.	~	
53 Ovorhangai Olziit(fis) River 1.00 0.36 0.84 7.48 2	1	1					1	1	•	١,	
55	1			l.	J	:	{	i .		l	
Selenge Serozui (havthgoit) River 1.00 0.38 0.86 7.80 2 2 2 2 2 2 2 2 2	•	ì				1	ł .	i	1	"	
Color Colo	i i	I	•		1 .	ł	l .		1	,	
61 Ovorhangai Burd River 2.00 0.51 0.97 7.83 2 2 62 Ovorhangai Burd Fountain 2.00 0.40 0.86 7.57 2 2 68 Ovorhangai Bat-olzii River 1.00 0.55 1.03 7.00 2 2 69 Ovorhangai Bat-olzii Fountain 3.00 0.90 1.34 6.80 2 2 73 Ovorhangai Hujirt River 3.00 0.54 0.98 7.69 2 2 74 Ovorhangai Hujirt Fountain 5.00 0.36 0.76 7.71 2 2 75 Ovorhangai Hujirt Fountain 4.00 0.39 0.81 7.50 2 2 76 Ovorhangai Hujirt Fountain 3.00 0.35 0.79 7.51 2 2 79 Ovorhangai Harhorin(orhon) River 3.00 0.19 0.63 7.80 1 80 Ovorhangai Harhorin(bougshin-o River 3.00 0.20 0.64 7.86 1 83 Ovorhangai Harhorin(hougshin-o River 3.00 0.62 1.06 7.96 2 2 87 Bulgan Gurvan-bulag(talni) River 3.00 0.77 1.21 8.19 2 2 8 8 1 1 1 1 1 1 1 1	i	-				1	,			ı	
62 Ovorhangai Burd Fountain 2.00 0.40 0.86 7.57 2 68 Ovorhangai Bat-olzii River 1.00 0.55 1.03 7.00 2 69 Ovorhangai Bat-olzii Fountain 3.00 0.99 1.34 6.80 2 73 Ovorhangai Hujirt River 3.00 0.54 0.98 7.69 2 74 Ovorhangai Hujirt Fountain 5.00 0.36 0.76 7.71 2 75 Ovorhangai Hujirt Fountain 4.00 0.39 0.81 7.50 2 76 Ovorhangai Hujirt Fountain 3.00 0.19 0.63 7.80 1 79 Ovorhangai Harhorin(orhon) River 3.00 0.19 0.63 7.80 1 80 Ovorhangai Harhorin(hougshin-o River 3.00 0.20 0.64 7.86 1						l	i .	I.		Į.	
68 Ovorhangai Bat-olzii River 1.00 0.55 1.03 7.00 2 69 Ovorhangai Bat-olzii Fountain 3.00 0.99 1.34 6.80 2 73 Ovorhangai Hujirt River 3.00 0.54 0.98 7.69 2 74 Ovorhangai Hujirt Fountain 5.00 0.36 0.76 7.71 2 75 Ovorhangai Mujirt Fountain 4.00 0.39 0.81 7.50 2 79 Ovorhangai Harhorin(orhon) River 3.00 0.19 0.63 7.80 1 80 Ovorhangai Harhorin(hougshin-o River 3.00 0.02 0.64 7.86 1 83 Ovorhangai Harhorin(hougshin-o River 3.00 0.62 1.06 7.96 2 87 Bulgan Gurvan-bulag(talni) River 3.00 0.62 1.06 7.96 2 </td <td>1</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>i</td> <td>l</td> <td></td> <td>i</td> <td>:</td>	1						i	l		i	:
69 Ovorhangai Bat-olzii Fountain 3.00 0.90 1.34 6.80 2 73 Ovorhangai Hujirt River 3.00 0.54 0.98 7.69 2 74 Ovorhangai Hujirt Fountain 5.00 0.36 0.76 7.71 2 75 Ovorhangai Hujirt Fountain 4.00 0.39 0.81 7.50 2 76 Ovorhangai Hujirt Fountain 4.00 0.39 0.81 7.50 2 76 Ovorhangai Harhorin(orhon) River 3.00 0.19 0.63 7.80 1 80 Ovorhangai Harhorin Channel 3.00 0.20 0.64 7.86 1 83 Ovorhangai Harhorin Channel 3.00 0.20 0.64 7.86 1 83 Ovorhangai Harhorin River 3.00 0.62 1.06 7.96 2 2 87 Bulgan Gurvan-bulag(talni) River 4.00 0.86 1.28 7.32 2 107 Tov Delgereh River 4.00 0.86 1.28 7.32 2 107 Tov Delgereh River 4.00 0.86 1.28 7.32 2 144 Tov Bayndelger(bayn) River 2.00 0.52 0.98 7.30 2 145 Tov Mongonmorit(vorga) River 1.80 0.14 0.60 6.98 1 147 Tov Mongonmorit(suji) River 1.70 0.29 0.76 7.30 2 154 Ulaanbaatar Vognouul River 2.00 0.15 0.61 7.00 1 163 Tov Bornuul(boroo) River 0.60 0.38 0.87 7.67 2 168 Selenge Baruunharaa(haraa) River 1.90 0.21 0.67 7.41 1 1 172 Tov Oktbayar(hara-erge) River 2.80 0.27 0.71 7.36 1 175 Selenge Baruunharaa(haraa) River 2.80 0.27 0.71 7.36 1 176 Darhan uul Sharingor River 3.40 0.30 0.73 7.33 1 177 Darhan uul Sharingor Veservoir 10.10 0.50 0.80 7.37 2 182 Darhan uul Sarhito Veservoir 10.00 0.69 0.99 7.17 2 183 Selenge Baynharaato Veservoir 8.40 0.47 0.80 6.96 2	1		1		5.		l	I '		1	
73 Ovorhangai Hujirt River 3.00 0.54 0.98 7.69 2 74 Ovorhangai Hujirt Fountain 5.00 0.36 0.76 7.71 2 75 Ovorhangai Hujirt Fountain 4.00 0.39 0.81 7.50 2 76 Ovorhangai Harhorin(orhon) River 3.00 0.19 0.63 7.80 1 80 Ovorhangai Harhorin(orhon) River 3.00 0.20 0.64 7.86 1 83 Ovorhangai Harhorin(hougshin-o River 3.00 0.62 1.06 7.96 2 87 Bulgan Gurvan-bulag(talni) River 3.00 0.77 1.21 8.19 2 98 Tov Lun(tuul) River 4.00 0.86 1.28 7.32 2 107 Tov Belgere(bayn) River 2.00 0.52 0.98 7.30 2					d		l	ł .			
74 Oyorhangai Hujirt Fountain 5.00 0.36 0.76 7.71 2 75 Ovorhangai Hujirt Fountain 4.00 0.39 0.81 7.50 2 76 Ovorhangai Hurhorin(orhon) River 3.00 0.19 0.63 7.80 1 80 Ovorhangai Harhorin(hougshin-o Channel 3.00 0.20 0.64 7.86 1 83 Ovorhangai Harhorin(hougshin-o River 3.00 0.62 1.06 7.96 2 87 Bulgan Gurvan-bulag(talni) River 3.00 0.77 1.21 8.19 2 98 Tov Lun(tuul) River 4.00 0.86 1.28 7.32 2 107 Tov Belgereh River 11.60 0.81 1.08 8.13 2 144 Tov Bayndelger(bayn) River 2.00 0.52 0.98 7.30 2 <t< td=""><td></td><td>1</td><td></td><td></td><td></td><td></td><td></td><td>]</td><td></td><td></td><td></td></t<>		1]			
75 Ovorhangai Hujirt Fountain 4.00 0.39 0.81 7.50 2 76 Ovorhangai Hujirt Fountain 3.00 0.35 0.79 7.51 2 79 Ovorhangai Harhorin(orhon) River 3.00 0.19 0.63 7.80 1 80 Ovorhangai Harhorin(hougshin-orin) Channel 3.00 0.20 0.64 7.86 1 83 Ovorhangai Harhorin(hougshin-orin) River 3.00 0.62 1.06 7.96 2 87 Bulgan Gurvan-bulag(talni) River 3.00 0.77 1.21 8.19 2 98 Tov Lun(tuul) River 4.00 0.86 1.28 7.32 2 107 Tov Delgereh River 11.60 0.81 1.08 8.13 2 144 Tov Bayndelger(bayn) River 2.00 0.52 0.98 7.30 2 <td></td> <td></td> <td>· ·</td> <td></td> <td></td> <td></td> <td>1</td> <td>,</td> <td></td> <td></td> <td></td>			· ·				1	,			
76 Ovorhangai Hujirt Fountain 3.00 0.35 0.79 7.51 2 79 Ovorhangai Harhorin(orhon) River 3.00 0.19 0.63 7.80 1 80 Ovorhangai Harhorin Channel 3.00 0.20 0.64 7.86 1 83 Ovorhangai Harhorin(hougshin-o River 3.00 0.62 1.06 7.96 2 87 Bulgan Gurvan-bulag(talni) River 3.00 0.77 1.21 8.19 2 98 Tov Lun(tuul) River 4.00 0.86 1.28 7.32 2 107 Tov Delgereh River 11.60 0.81 1.08 8.13 2 144 Tov Bayndelger(bayn) River 2.00 0.52 0.98 7.30 2 145 Tov Mongonmorit(vorga) River 1.80 0.14 0.60 6.98 1											
November November		1 1									3 1
November State S		1						5 1	٠. ا	Z	
83 Ovorhangai Harhorin(hougshin-o River 3.00 0.62 1.06 7.96 2 87 Bulgan Gurvan-bulag(talni) River 3.00 0.77 1.21 8.19 2 2 107 Tov Delgereh River 4.00 0.86 1.28 7.32 2 2 107 Tov Delgereh River 11.60 0.81 1.08 8.13 2 2 144 Tov Bayndelger(bayn) River 2.00 0.52 0.98 7.30 2 145 Tov Mongonmorit(vorga) River 1.80 0.14 0.60 6.98 1 147 Tov Mongonmorit(suji) River 1.70 0.29 0.76 7.30 2 154 Ulaanbaatar Vognouul River 2.00 0.15 0.61 7.00 1 163 Tov Bornuul(boroo) River 0.60 0.38 0.87 7.67 2 168 Selenge Zuunharaa(haraa) River 1.90 0.21 0.67 7.41 1 172 Tov Oktbayar(hara-erge) River 0.00 0.47 0.97 7.36 2 174 Selenge Baruunharaa(haraa) River 2.80 0.27 0.71 7.36 1 175 Selenge Baruunharaa(haraa) River 3.00 0.25 0.69 7.01 1 176 Darhan uul Sharingor River 3.40 0.30 0.73 7.33 1 177 Darhan uul Sharingor Veservoir 10.10 0.50 0.80 7.37 2 182 Darhan uul Sarhito Veservoir 10.00 0.69 0.99 7.17 2 183 Selenge Baynharaato Veservoir 8.40 0.47 0.80 6.96 2		, ,					_	1 1	i		
87 Bulgan Gurvan-bulag(talni) River 3.00 0.77 1.21 8.19 2 98 Tov Lun(tuul) River 4.00 0.86 1.28 7.32 2 107 Tov Delgereh River 11.60 0.81 1.08 8.13 2 144 Tov Bayndelger(bayn) River 2.00 0.52 0.98 7.30 2 145 Tov Mongonmorit(vorga) River 1.80 0.14 0.60 6.98 1 147 Tov Mongonmorit(suji) River 1.70 0.29 0.76 7.30 2 154 Ulaanbaatar Vognouul River 2.00 0.15 0.61 7.00 1 163 Tov Bornuul(boroo) River 2.00 0.15 0.61 7.00 1 168 Selenge Zuunharaa(haraa) River 1.90 0.21 0.67 7.41 1 172	I '	1 ' : 1						1	. 1		
107 Tov				, ,	1 1 1			1 1			
107 Tov		1		1 × 1	1	l i			1		., :
144 Tov Bayndelger(bayn) River 2.00 0.52 0.98 7.30 2 145 Tov Mongonmorit(vorga) River 1.80 0.14 0.60 6.98 1 147 Tov Mongonmorit(suji) River 1.70 0.29 0.76 7.30 2 154 Ulaanbaatar Vognouul River 2.00 0.15 0.61 7.00 1 163 Tov Bornuul(boroo) River 0.60 0.38 0.87 7.67 2 168 Selenge Zuunharaa(haraa) River 1.90 0.21 0.67 7.41 1 172 Tov Oktbayar(hara-erge) River 0.00 0.47 0.97 7.36 2 174 Selenge Baruunharaa(haraa) River 2.80 0.27 0.71 7.36 1 175 Selenge Baruunharaa(bayn) River 3.00 0.25 0.69 7.01 1		1		4	1 1						• 1
145 Tov		l:			1 : 1		-	l . i	. !		
147 Tov Mongonmorit(suji) River 1.70 0.29 0.76 7.30 2 154 Ulaanbaatar Vognouul River 2.00 0.15 0.61 7.00 1 163 Tov Bornuul(boroo) River 0.60 0.38 0.87 7.67 2 168 Selenge Zuunharaa(haraa) River 1.90 0.21 0.67 7.41 1 172 Tov Oktbayar(hara-erge) River 0.00 0.47 0.97 7.36 2 174 Selenge Baruunharaa(haraa) River 2.80 0.27 0.71 7.36 1 175 Selenge Baruunharaa(bayn) River 3.00 0.25 0.69 7.01 1 176 Darhan uul Sharingor River 3.40 0.30 0.73 7.33 1 177 Darhan uul Sharingor Veservoir 10.10 0.50 0.80 7.37 2 <td></td> <td>l· 1</td> <td></td> <td></td> <td>1 6</td> <td>4 /</td> <td></td> <td></td> <td></td> <td>. 2</td> <td>:</td>		l· 1			1 6	4 /				. 2	:
154 Ulaanbaatar Vognouu River 2.00 0.15 0.61 7.00 1 163 Tov Bornuul(boroo) River 0.60 0.38 0.87 7.67 2 2 168 Selenge Zuunharaa(haraa) River 1.90 0.21 0.67 7.41 1 172 Tov Oktbayar(hara-erge) River 0.00 0.47 0.97 7.36 2 2 174 Selenge Baruunharaa(haraa) River 2.80 0.27 0.71 7.36 1 175 Selenge Baruunharaa(bayn) River 3.00 0.25 0.69 7.01 1 1 176 Darhan uul Sharingor River 3.40 0.30 0.73 7.33 1 177 Darhan uul Sharingor Veservoir 10.10 0.50 0.80 7.37 2 182 Darhan uul Sarhito Veservoir 10.00 0.69 0.99 7.17 2 183 Selenge Baynharaato Veservoir 8.40 0.47 0.80 6.96 2					i !				1		
163 Tov Bornuul (boroo) River 0.60 0.38 0.87 7.67 2 168 Selenge Zuunharaa (haraa) River 1.90 0.21 0.67 7.41 1 172 Tov Oktbayar (hara-erge) River 0.00 0.47 0.97 7.36 2 174 Selenge Baruunharaa (haraa) River 2.80 0.27 0.71 7.36 1 175 Selenge Baruunharaa (bayn) River 3.00 0.25 0.69 7.01 1 176 Darhan uul Sharingor River 3.40 0.30 0.73 7.33 1 177 Darhan uul Sharingor Veservoir 10.10 0.50 0.80 7.37 2 182 Darhan uul Sarhito Veservoir 10.00 0.69 0.99 7.17 2 183 Selenge Baynharaato Veservoir 8.40 0.47 0.80 6.96 2 <td>1</td> <td>l</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>2</td> <td></td>	1	l								2	
168 Selenge Zuunharaa(haraa) River 1.90 0.21 0.67 7.41 1 172 Tov Oktbayar(hara-erge) River 0.00 0.47 0.97 7.36 2 174 Selenge Baruunharaa(haraa) River 2.80 0.27 0.71 7.36 1 175 Selenge Baruunharaa(bayn) River 3.00 0.25 0.69 7.01 1 176 Darhan uul Sharingor River 3.40 0.30 0.73 7.33 1 177 Darhan uul Sharingor Veservoir 10.10 0.50 0.80 7.37 2 182 Darhan uul Sarhito Veservoir 10.00 0.69 0.99 7.17 2 183 Selenge Baynharaato Veservoir 8.40 0.47 0.80 6.96 2	1							4	1		
172 Tov Oktbayar(hara-erge) River 0.00 0.47 0.97 7.36 2 174 Selenge Baruunharaa(haraa) River 2.80 0.27 0.71 7.36 1 175 Selenge Baruunharaa(bayn) River 3.00 0.25 0.69 7.01 1 176 Darhan uul Sharingor River 3.40 0.30 0.73 7.33 1 177 Darhan uul Sharingor Veservoir 10.10 0.50 0.80 7.37 2 182 Darhan uul Sarhito Veservoir 10.00 0.69 0.99 7.17 2 183 Selenge Baynharaato Veservoir 8.40 0.47 0.80 6.96 2	a							. :		2	
174 Selenge Baruunharaa(haraa) River 2.80 0.27 0.71 7.36 1 175 Selenge Baruunharaa(bayn) River 3.00 0.25 0.69 7.01 1 176 Darhan uul Sharingor River 3.40 0.30 0.73 7.33 1 177 Darhan uul Sharingor Veservoir 10.10 0.50 0.80 7.37 2 182 Darhan uul Sarhito Veservoir 10.00 0.69 0.99 7.17 2 183 Selenge Baynharaato Veservoir 8.40 0.47 0.80 6.96 2	1						. `		1		
175 Selenge Baruunharaa(bayn) River 3.00 0.25 0.69 7.01 1 176 Darhan uul Sharingor River 3.40 0.30 0.73 7.33 1 177 Darhan uul Sharingor Veservoir 10.10 0.50 0.80 7.37 2 182 Darhan uul Sarhito Veservoir 10.00 0.69 0.99 7.17 2 183 Selenge Baynharaato Veservoir 8.40 0.47 0.80 6.96 2	Ę						0.97	7.36		2	
176 Darhan uul Sharingor River 3.40 0.30 0.73 7.33 1 177 Darhan uul Sharingor Veservoir 10.10 0.50 0.80 7.37 2 182 Darhan uul Sarhito Veservoir 10.00 0.69 0.99 7.17 2 183 Selenge Baynharaato Veservoir 8.40 0.47 0.80 6.96 2		1 1 1 1 1					0.71	7.36	1		
177 Darhan uul Sharingor Veservoir 10.10 0.50 0.80 7.37 2 182 Darhan uul Sarhito Veservoir 10.00 0.69 0.99 7.17 2 183 Selenge Baynharaato Veservoir 8.40 0.47 0.80 6.96 2	P i					0.25	0.69	7.01	1		
182 Darhan uul Sarhito Veservoir 10.00 0.69 0.99 7.17 2 183 Selenge Baynharaato Veservoir 8.40 0.47 0.80 6.96 2		1	i			4.	0.73	7.33	1		, [
183 Selenge Baynharaato Veservoir 8.40 0.47 0.80 6.96 2			-		10.10	0.50	0.80	7.37	ļ	2	
		l ŧ		Veservoir	10.00	0.69	0.99	7.17		2	
Decision; 1=Fine(0.25 0.75) 2=Good(0.75~3) 3=Bad(3 Over) Total 12 30 0	L						0.80	6.96		2	
	Decisi	on; 1=Fine(0.25 0.75) 2=Good(0.	75~3) 3=Ba	d(3 Ove	r)		Total	12	30	0

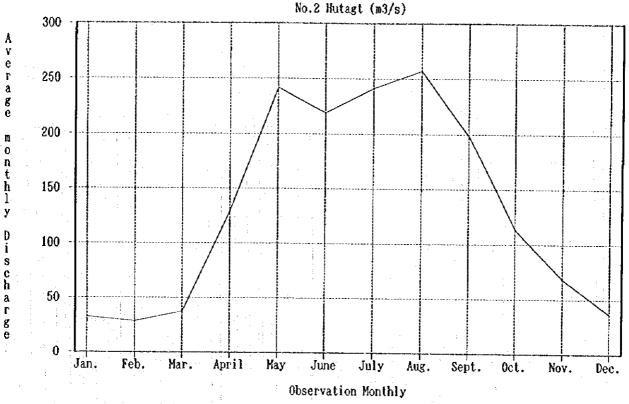
Table 3.1.3.10 (2) EC,PH Analysis Results

Table	3.1.3.10 (2)	EC,PH Analysis Re	SULUS			PO CL.		ħ		
i i						EC Stand-		υ	ecisi	ψn
						ard value				
No.	Aimag	Sua	Source	°C	m s/cm	(25°C)	PH	1	2	3
184	Selenge	Eroo	River	0.00	0.22	0.72	7.09	- 1		. [
191	Selenge	Sukhbaatar	Veservoir	5.10	0.42	0.82	7.41		2	
194	Selenge	Zuunburen(selenge)	River	4.80	0.29	0.69	7.41	1		-
199	Selenge	Shaamar(orhon)	River	2.40	0.43	0.88	7.31		2	- 1
200	Selenge	Sharingor	Veservoir	11.50	0.49	0.76	7.11	-	2	
201	Selenge	Sharingor	Veservoir	8.20	0.46	0.80	7.09		2	·
202	Selenge	Sharingor	River	8.30	0.34	0.67	7.40	1	l	
204	Orhon unl	Futol	Veservoir	7.80	0.51	0.85	7.31		2	
206	Ornon uul	Futol(orhon)	River	1.60	0.31	0.78	7.52		2	1
	l .	Sant	Veservoir	11.40	0.40	0.67	7.39	1		
207	Orhon uul		River	1.60	0.36	0.83	7.42	-	2	
208	Orhon uul	Sant(yebun)		2.80	0.31	0.75	7.54	1	-	
210	Orhon uul	Baruun-breen(vorgar		10.90	0.41	0.69	7.44	- 1	2	
211	Bulgan	Jargalant	Veservoir			0.03	7.42	- :	2	:]
212	Bulgan	Hangal(zuuhi)	River	2.40	0.49			٠, ا	- 1	
213	Bulgan	Hangal	Veservoir	13.20	0.28	0.52	7.21	1	2	
216	Bulgan	Selenge(inget)	River	1.40	0.37	0.84	7.49	,	- 1	:
218	Bulgan	Selenge(bog)	River	3.40	0.25	0.68	7.34		2	
219	Bulgan	Bogt(hojil)	River	2.00	0.33	0.79	7.12		2	1 1
221	Bulgan	Bulgan(achit)	River	2.60	0.46	0.91	7.68	- 1	2	
222	Bulgan	Bulgan(achit)	River	1.90	0.38	0.84	7.61		2	
223	Bulgan	Bogt(onit)	River	3.90	0.39	0.81	7.70		2	
225	Bulgan	Teshig(eg)	River	1.00	1	0.79	7.65		2	
227	Bulgan	Teshig	Lake	7.50	0.24	0.59	8.19	1		
232	Bulgan	Hutag-ondor(selenge	River	3.50	0.25	0.68	7.52	1	.	
234	Bulgan	Bayn-agt(hanaoi)	River	4.10	0.37	0.79	7.73		2	.
235	Bulgan	Bayn-agt(shalag)	Lake	3.20	0.68	1.12	7.89	1	2	
237	Bulgan	Baynagt(hunui)	River	1.50	0.32	0.79	7.63		2	: : :
239	Bulgan	Bulgan(shiuut)	River	1.40	0.36	0.83	7.62		2	
242	1	Orhon(orhon)	River	2.70	0.23	0.68	7.66		2	
245		Hishig-ondor(teeg)	River	2.90	0.33	0.77	7.57	- :	2	
250		Mogod(nalash)	River	1.20	0.43	0.91	7.79		2	
251	Bulgan	Mogod(bayn)	River	2.50	0.38	0.83	7.66	,	. 2	
252		Hishig-ondor(fushu	4	1.10	L	0.81	7.73		2	100
255		Bureghangai(bombat		4.70		0.94	7.62		2	
256		Bureghangai(shiber		3.80	1 1	1	7.68	1	,	1 .
259		Toulin-guol(tuol)	River	2.90	1 :		7.60		2	
260		Zaamar	Veservoir	1	1 '	E .	7.49		2	
262	1	Atar	Veservoir	1 1 1 1 1		1 .	7.66		2	1
		Nogoon-turgee(moha		0.10		1 1	7,47		2	
267			River	0.20	}	1	7.51		2	
268	1	Batsumber(harzan)	River	0.60	1	i	7.48		2	
270		Batsumber(huin)		3.10	1	1	7.32	1	"	
272		Batsumber(odorg)	River		1		7.30	1	2	'
274	. 1	Nogoon-turgee(bayn	3	0.40	1	i	i		2	
280	Tov	Altanbulag(tuul)	River	3.00	0.50	0.34	Total	10	34	0
							i.Total		64	0
	* *							26	74	0
							<u>%</u>	1 20	14	1_0
			· ;	3-49						
					•					

9		190	Source	8		Na+K	g	Mg	ដ	\$04	કુ	C03+HC03	Hardness	Mineraliz.	Decision
압	Ovorhangai	Tugrug	Lake	12.10.94	8.20		26.0	28.0	95.8	"		320.0	3.6	915.9	8
•				05.04.87	7.50	225.9	28.1	25.5	101.2			323.3	3.5	845.5	:
83	Ovorhangai	Sariin-teel	Well	13.10.94	7.65	42.3	50.1	3.6	14.2	<u>:</u>	<u> </u>	189.1	2.8	354.0	
				07.07.89	7.65	58 9	52.1	2.4	14.2	94.6	<u>.</u> _ :	183.0	2.8	405.3	
ಣ	Ovorbangai	Hairhan-dulaan	Well	14.10.94	7.68	15.6	56.1	12.2	14.2			201.3	ب 80.	336.9	
				10.11.79	7.10	14.7	58.1	12.8	14.2	. .	<u>.</u>	216.6	4.0	347.7	-5
99	Ovorbangai	Taragt	Well	17.10.94	66 2	25.5	72.1	10.9	17.7			237.8	4.5	422.2	
					6.70	36.1	56.1	17.0	14.2	1	·—·-	207.2	4.2	414.6	-T-
#	Ovorhangai	Arvaikheer	Well	01.10.94		33.6	62.1	3.6	17.7			176.9	3.4	368.6	-
1				18.06.86	7.05	12.2	64.1	ر. دن	21.3	48.5		158.6	3.8	312.0	φ
යි	Ovorhangai	Zumbayn-ulaan	Well	22:10:94		25.8	48.1	2.4	17.7	39.5		146.4	2.6	280.0	
1				25.04.71	7.20	30.8	36.1	6	0.5	32.9		146.3	2.2	266.3	က္
g G	Ovorhangai	Esonzui	Well	19.10.94	7.78	19.8	70.1	21.9	10.6	61.0	0.5	280.6	ъ.	465.6	
				14.05.81	8	18.2	70.1	14.6	10.6	33.7		274.5	4.7	422.2	+
67	Ovorhangai Bat-olzii	Bat-olzii	Well	19.10.94	9:0	13.8	18.0	1.2	7.1	19.2		61.0	1.0	120.3	
				24.09.71	7.20	16.8	14.0	4 0	7.1	9	0	91.5	-1	141.2	<u>ې</u>
2	70 Ovorhangai	Rujirt	Well	23.10.94	2.76	20.0	42.1	10.9	7.1	27.8		183.0	က	297.1	
				20.05.72	8.8	29.7	40.0	11.0	14.2	27.2	0.5	201.3	2.8	323.6	
23	72 Ovorbangai Hujirt	Hujirt	Well	23.10.94	7.80	26.7	48.1	17.0	7.1	35.2		244.0	က ထ	380.3	
			-:	14.04.86	7.15	42.0	42.0	ω 4.	17.7	37.0		201.3	% ∞	348.4	* +
93	Tov	Argalant	Well	27.10.94	7 7:	49.9	68.1	18.8	26.6	88.8		274.5	5.0	527.7	
				28.09.87	.20	31.1	54.1	27.9	∞ ;~ ;~	61.7		274.5	5.0	467.3	9+
124	Tov	Zummod	Wel]	03.11.94	8	22.8	51.1	21.9	17.7			186.0	4.4	375.1	
				06.04.83	7.10	14.0	52.1	50.6	17.7	39.5		219.6	4 8	363.6	7
187	Selenge	Dulaanhan	Well	22, 10, 94	8	18.6	48.1	9.1	10.6	17.3		201.3	3.5	305.1	
				07.09.75	8	6.9	45.1	10.9	10.6	0.9		189.2	3.2	290.0	د +
5	Selenge	Sukhbaatar	Reservoir	23.10.94	7:	23.5	ૹ	17.6	14.2	±.∞	 	244.0	3.4	359.6	
				25.02.74	8	નું ! જ	38.0	13.4	14.2	0.09	_ :	170.8	0.0	334.9	4+
781	Seienge	Spanar	, iei		 	17.7	48.1	11:	တေျ	හ හ		216.5	3.6	319.7	
					و ا و	χ χ	47.1	14.0	17.7	0 9		228.8	က	246.0	+13
481	Selenge		Kiver	4	7.41	19.8	4	9	7:1	14.8	·	176.9	2.6	265.9	
				25.02.74	 8	14.5	46.0	ο .Σ	7.1	24.0		183.0	လ ၀.	288.2	4
88	Selenge	-	Reservoir	25.10.94	7.11	20.0	62.1	21.3	23.1	27.1		254.5	4.9	428.2	
				21	8	18.0	60.1	20.7	15.1	0	<u>ဝ</u>	244.0		360.2	6+ +
225	Bulgan	Teshig(eg)	River	٠٠٠	7.65	16.1	46.1	11.5		28.8	 0	192.1	က	301.9	
	_	-	-												

ecision		ကု		ရှိ		ထု	(+3		+22		+14		ç.		7*		+1	0	+=70% 30%	0			
Mineraliz.Decision	267.8	286.5	260.0	424.4		296.6	396.9	376.2	289.9	184.9	407.2	310.0	248.5	233.1	413.4	287.0	319.2	315.0	Total					
Hardness M	3.2	3.6	2.8	2.8	2.7	3.0	က	3.7	2.9	2.2	3.2		2.2		 	رن دن	3.0	3.0	:					
C03+HC03	183.0	179.8	170.8	305.1	167.7	167.4	253.1	244.1	195.2	118.9	219.6	219.7	158.6	122.0	198.2	170.8	198.2	198.2						
9	1		0.	6.3			•								0.							<u> </u>	: '	
\$05	+	24.7	6 8		24.7	37.8	33.7	0 04		14.8	47.7		18.9	43.6	88 9	35.0	22.2	25.5						
[] []	er un	7.1	7.1	7.8	7.1	10.6	10.6		ω 0.	တ	10.6	11 7	დ დ	7.1	14.2	11.7	17.7	00				٠.		
XIS.	10 3	14.6	10.3	10.9	1.6	10.2	16.4	15.8	10.9	14.0	12.2	15.8	9.1	80	11.5	12.2	10.9	00						
S C	47	7.7	39.1	38.1	39.1	43.1	48.1	48.1	40.1	20.0	4	40.1			47.1	46.1	41.1	45.1					:	
Quality Studies	3	2 %	13.6		17.5	27.1	32.9	14.2	19.8	ŝ	00		23.9	29.9	51.3	7.4	29.0	2.6	· E			:	-	
Quality Stu	7.70	7 40	7.68	90	7.52		7.78	6.30	7.63	7 81	7 63		7.66		7.43	90	7.07	7.00						
Past Water	5				•		02.11.94			07.12.85		16 04 74	06.11.94	08, 10, 83	06 11 94	11.04.74	09.11.94 7	8			:		1	
	SOUT CE	112	W.		River	> }	Wel]		River		Stroam	} ;	Piver		We]]		Well				·			
Table 3.1.3.11 (2) Comparison With Results of	- SOUTH	lesus	Tanto		Wint 29-ondor	(selenge)	Bayan-agt		Bavanagt(hunul) River		Chai han	OTTO TAKENT	Orbon (orbon)	(TO) TO TO	Rilgan	100110	Octoor	1000 A						
11 (2) (Almag	ZZe ruigan	Destant	108130	วาไซอก	TOS TOO	236 Bulgan	0	237 Rulgan	-	920 Bul can	THE STATE	049 Pr. man	meenna	Bulgen	ng 9 mg	TAU							
able 3.1.3	NO.	977	066	23	666		236	}	237	3	326	2007	6/6	21.7	776	ţ	261 PAU	101	6 20	71 Flace				

Figure 3.1.3.1 Average Monthly Discharge
(1) Selenge River



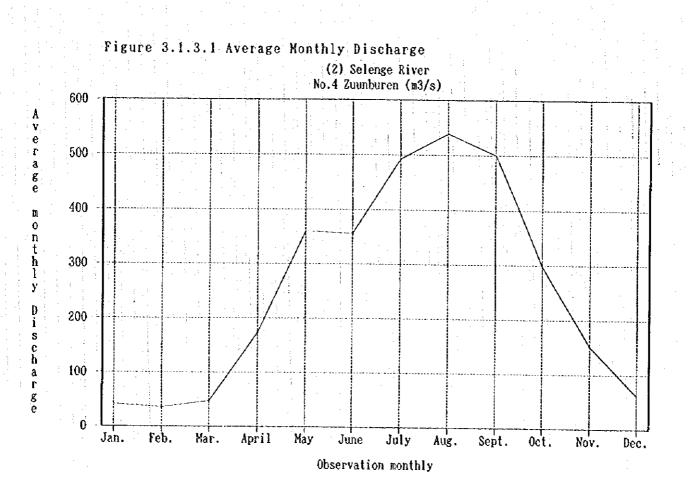


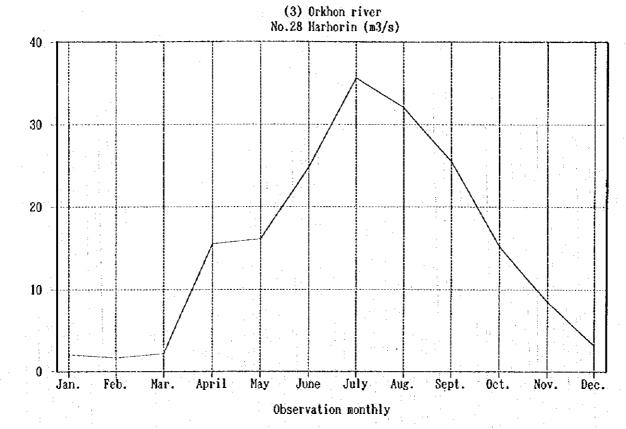
Figure 3.1.3.1 Average Monthly Discharge

A v e r a

o n

h l

D i s



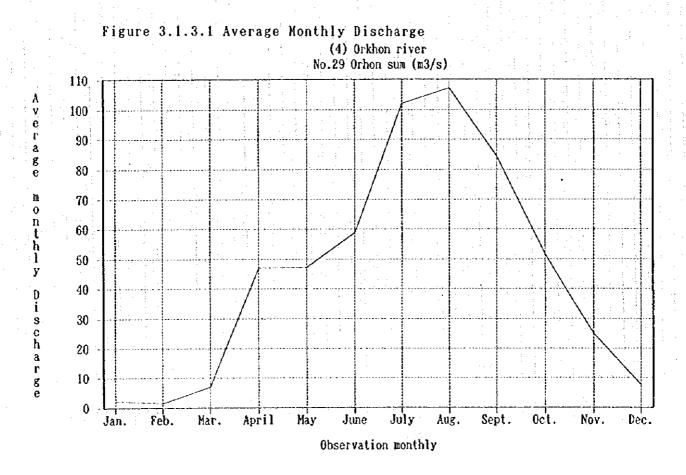
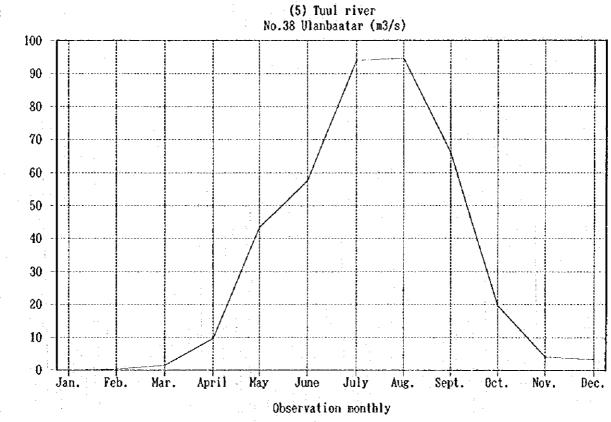


Figure 3.1.3.1 Average Monthly Discharge
(5) Tuul river



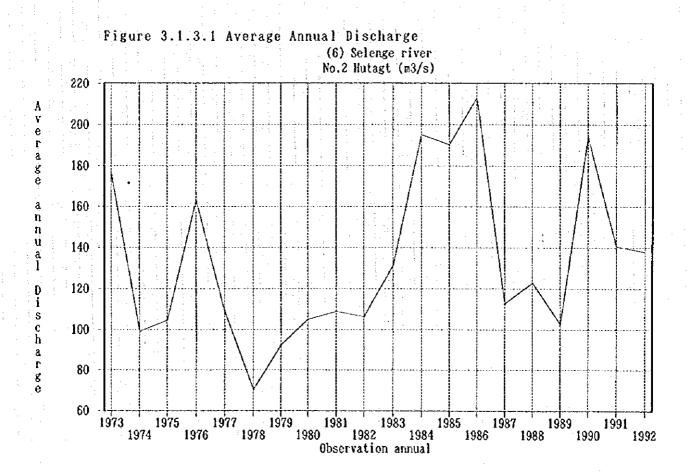


Figure 3.1.3.1 Average Annual Discharge

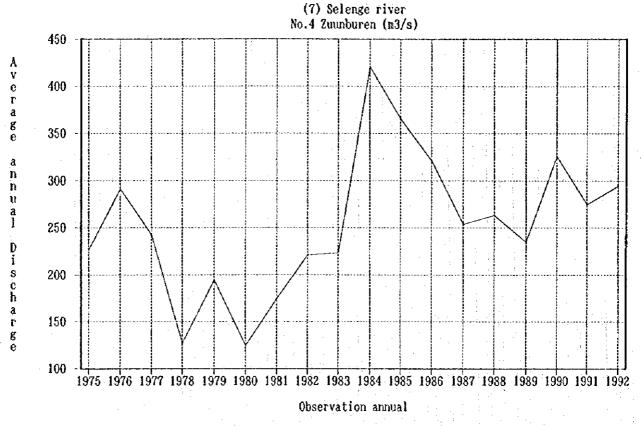


Figure 3.1.3.1 Average Annual Discharge

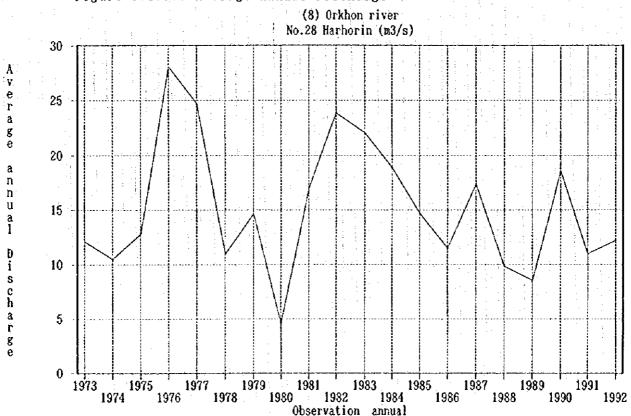
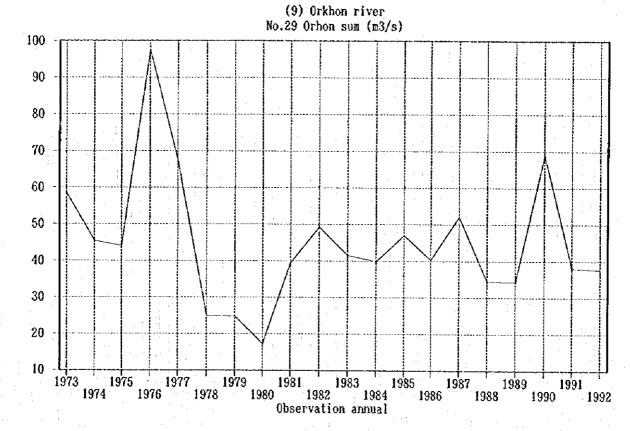


Figure 3.1.3.1 Average Annual Discharge



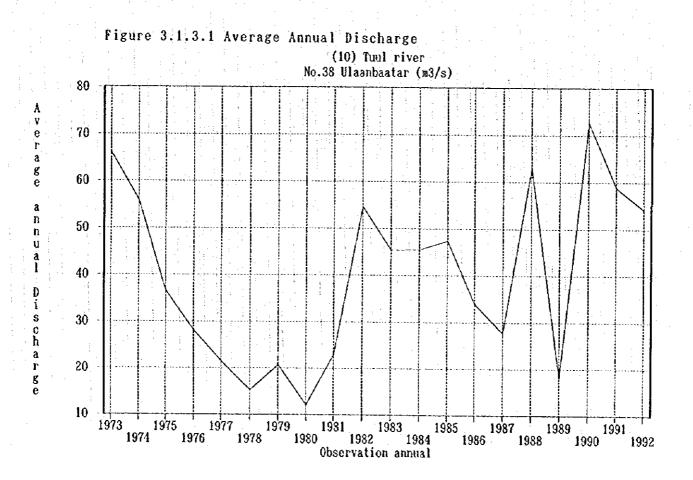


Figure 3.1.3.2 Average Discharge (+) Average Rainfall

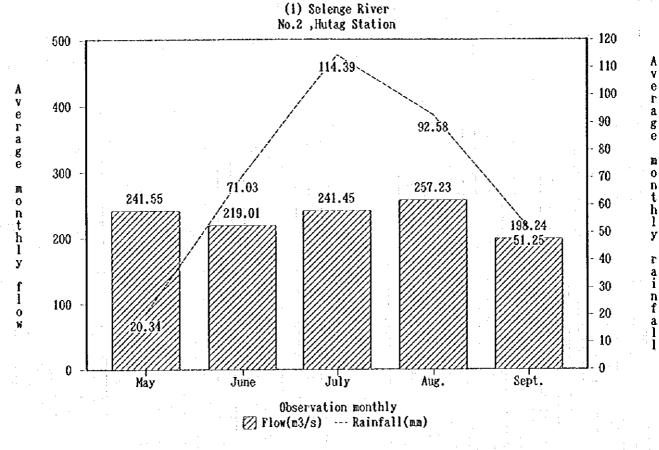


Figure 3.1.3.2 Average Discharge (+) Average Rainfall

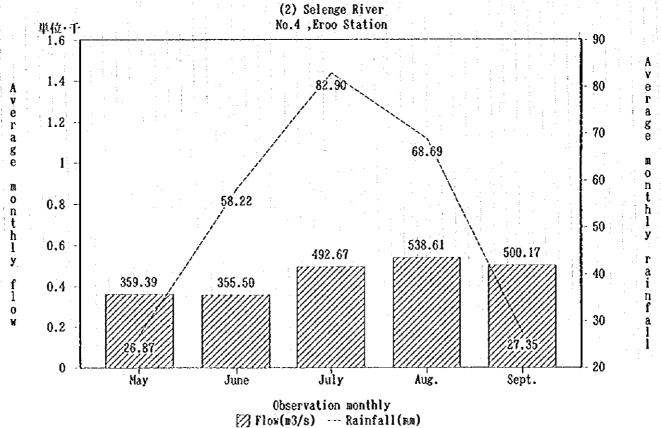


Figure 3.1.3.2 Average Discharge (+) Average Rainfall

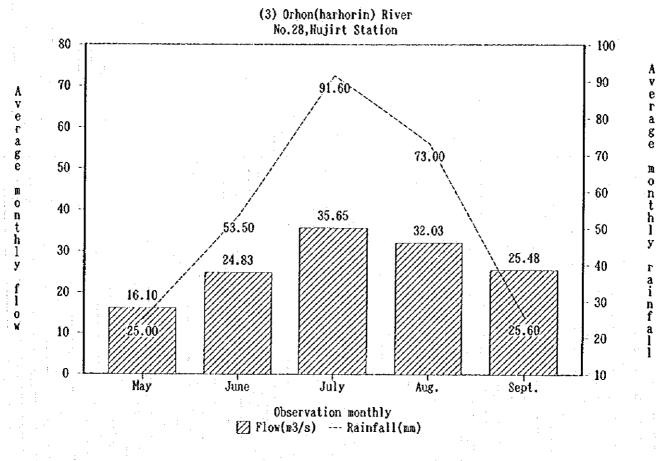


Figure 3.1.3.2 Average Discharge (+) Average Rainfall

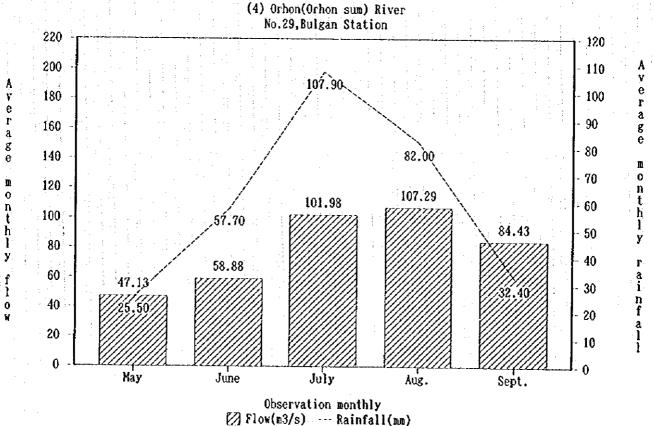
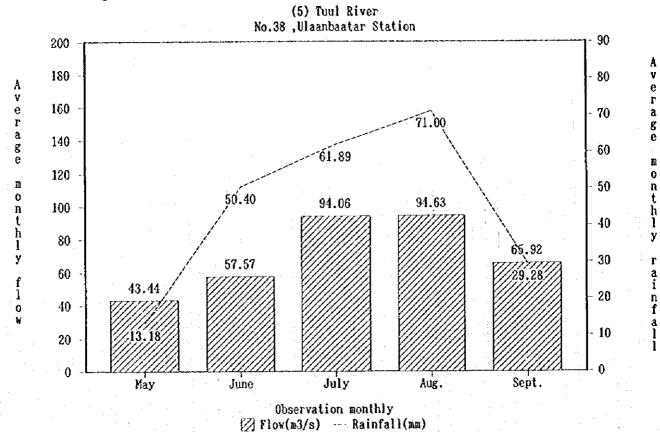
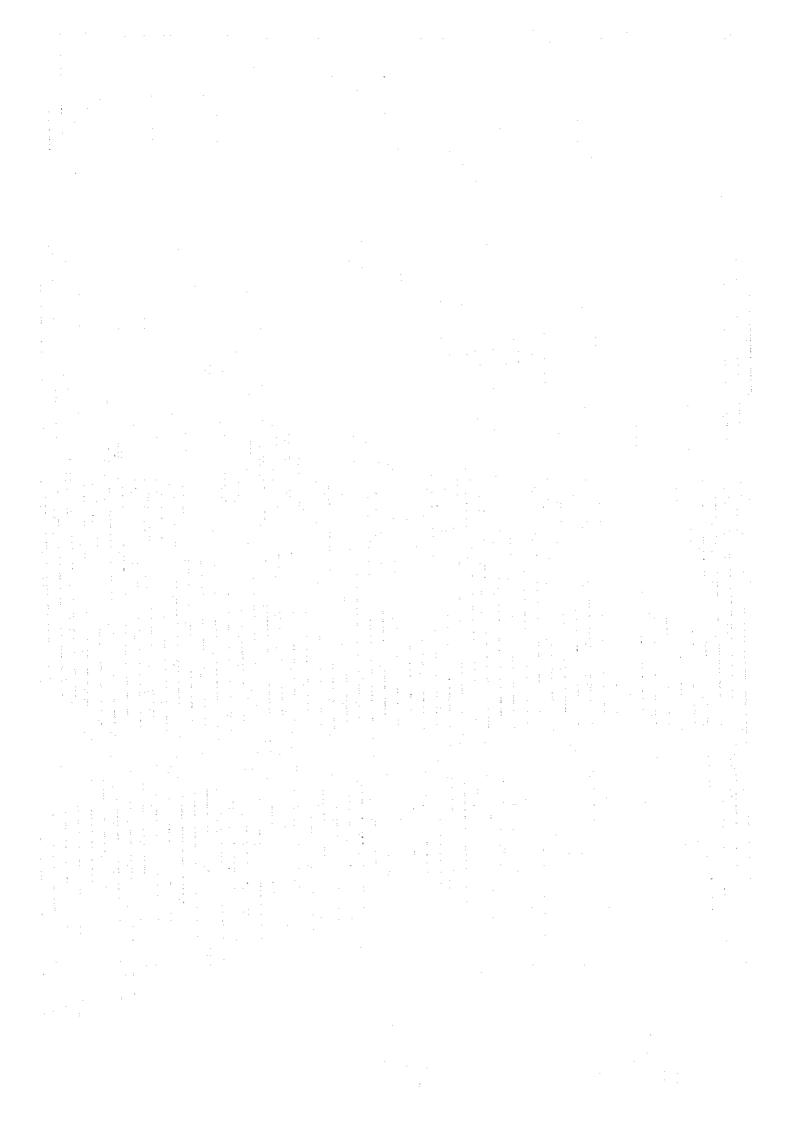


Figure 3.1.3.2 Average Discharge (+) Average Rainfall







Location of station Number of station Legent a 52 4 Figure 3.1.3.3 Water Content Observation Location Map

