

資-5 計画対象サイト一覧

1. 追加深井戸給水施設建設20サイト

PROVINCE	LUSAKA		
DISTRICT	NO.	SITE NAME	POPULATION
1. LUSAKA RURAL	(A) SHANTUMBU AREA		
	1	- MWANACHILENGA VILLAGE	200
	2	- MAHOPO VILLAGE	150
	3	- KAKOTE VILLAGE	180
	4	- CHIPWELU VILLAGE	200
	5	- GHISOMPELO VILLAGE	250
	6	- SHANTUMBU VILLAGE	300
	7	- SHIYALA VILLAGE - KAWMALA VILLAGE	300
	8	- SHIBELEKA VILLAGE	200
	(B) KASAKA CAMP AREA		
	9	- KASAKA FISHERIES TRAINING CENTRE	500
	10	- KASAKA LOWER BASIC SCHOOL	400
	11	- CHAWAMA	300
	12	- KASENGELE	250
	13	- MUCHUTO	300
	14	- BUNDABUNDA P. (Z.N.S.)	600
	(C) CHIAWA CAMP AREA		
	15	- KANDOKO VILLAGE	300
	16	- MAUNDA VILLAGE	200
	17	- MUDZAWA VILLAGE	200
18	- MUGULAMENO VILLAGE	250	
19	- MUSHONGANENDE VILLAGE	200	
20	- KABWANDU PRIMARY SCHOOL	400	
TOTAL			5,680

2. 深井戸給水施設建設 200サイト(a)

PROVINCE	1. LUSAKA			
DISTRICT	NO.	PRIORITY	SITE NAME	POPULATION
1-1. LUSAKA RURAL	LR- 1	2	KANAKANTAPA SETTLEMENT (1)	5,000
	LR- 2	3	KANAKANTAPA SETTLEMENT (2)	-
	LR- 3	4	KANAKANTAPA SETTLEMENT (3)	-
	LR- 4	5	KANAKANTAPA SETTLEMENT (4)	-
	LR- 5	6	KANAKANTAPA SETTLEMENT (5)	-
	LR- 6	23	MAYANGA	600
	LR- 7	41	LUIMBA AREA (1)	4,000
	LR- 8	42	LUIMBA AREA (2)	-
	LR- 9	43	LUIMBA AREA (3)	-
	LR-10	44	LUIMBA AREA (4)	-
	LR-11	45	CHINYANJA SCHOOL	500
	LR-12	7	TSETSE PICKET CAMP, SHIKABETA	150
	LR-13	34	REFUNSA AREA (1)	5,000
	LR-14	35	REFUNSA AREA (2)	-
	LR-15	36	REFUNSA AREA (3)	-
	LR-16	37	REFUNSA AREA (4)	-
	LR-17	38	REFUNSA AREA (5)	-
	LR-18	8	SHIKABETA, FARM BLOCK	600
	LR-19	10	CHIEF PALACE, SHIKABETA CLINIC	1,500
	LR-20	9	SHIKABETA, SCHOOL	350
	LR-21	39	SHIKABETA CLINIC	1,900
	LR-22	40	MULUWE VILLAGE	250
	LR-23	24	MAFUNGAUSI	1,500
	LR-24	25	MAFULUSA	750
	LR-25	26	CHALEZERA	1,200
	LR-26	27	MATOPA	800
	LR-27	28	MUPINGA	650
	LR-28	29	MALABANIKA	2,500
	LR-29	30	SHAMPEO	1,800
	LR-30	31	CHISAKILA	350
	LR-31	22	KABWATO VILLAGE	350
	LR-32	11	MUSHONGETENDE VILLAGE	950
	LR-33	12	CHIMUSAMBO VILLAGE	800
	LR-34	13	CHIINYE VILLAGE	700
	LR-35	14	KANDOKO VILLAGE	600
	LR-36	32	MBOZA	850
	LR-37	33	CHIMULAMBE	400
	LR-38	16	NYAMALAPA	150
	LR-39	15	MUNNDA VILLAGE	400
	LR-40	1	CHIAWA RURAL HEALTH CENTER	1,000
	LR-41	17	KANYANGALA	2,000
	LR-42	18	KALOMBO	200
	LR-43	19	MAFUKU	500
	LR-44	20	CHILIMANGA	800
	LR-45	21	GUNDUZA	600
TOTAL	45	-	-	39,700

2. 深井戸給水施設建設 200サイト (b)

PROVINCE		1. LUSAKA		
DISTRICT	NO.	PRIORITY	SITE NAME	POPULATION
1-2. LUANGWA	LG- 1	1	CHILIWE SCHOOL	400
	LG- 2	2	UNDI VILLAGE	200
	LG- 3	3	KAPETE VILLAGE	300
	LG- 4	4	MANUELE VILLAGE	400
	LG- 5	5	CHIKUMA VILLAGE	250
	LG- 6	6	KASINSA	600
	LG- 7	7	CHIWELE VILLAGE	800
	LG- 8	8	MULAMBA VILLAGE	500
	LG- 9	9	MAPONA	180
	LG-10	10	SOWETO	100
TOTAL	10	-	-	3,730

PROVINCE		2. CENTRAL		
DISTRICT	NO.	PRIORITY	SITE NAME	POPULATION
2-1. KABWE RURAL	K- 1	1	CHINYONGOLA PRIMARY SCHOOL	3,000
	K- 2	6	SHIMUKUNI RURAL HEALTH CENTER	3,000
	K- 3	8	CHIPESO RURAL HEALTH CENTER	3,000
	K- 4	26	MUCHOKO	450
	K- 5	9	CHIPITO VILLAGE, CHIEF LITETA	200
	K- 6	7	NALUYANDA RURAL HEALTH CENTER	3,000
	K- 7	25	KABONGOLA	400
	K- 8	24	MAYABA	500
	K- 9	4	MULEBELA	400
	K-10	10	CHANGALA VILLAGE, CHIEF LITETA	200
	K-11	2	MULUNGUSHI AGRO SCHOOL	700
	K-12	5	KAMANO SCHOOL	300
	K-13	3	SHALUBALA SCHOOL	300
	K-14	14	SIPONDO	500
	K-15	28	MWANACHILENGA	400
	K-16	27	MAKUKWA	300
	K-17	29	WILSON TABUKILE	300
	K-18	16	SHAMAKULILA	250
	K-19	22	MINGACHE	600
	K-20	4	CHOWA SCHOOL	300
	K-21	21	CHANKOSA	450
	K-22	20	MALAKATA	450
	K-23	18	KALEMBA KAPASO	300
	K-24	15	CHIKONKOTO	350
	K-25	19	MUNGOLHI	250
	K-26	17	SAILI	400
	K-27	11	KANAKANTAPA SCHOOL & CLINIC	450
	K-28	13	MUDENDA VILLAGE	300
	K-29	12	CHIKWASHA VILLAGE	200
	K-30	30	KATUKWE SCHOOL	450
TOTAL	30	-	-	21,700

2. 深井戸給水施設建設 200サイト(c)

PROVINCE	2. CENTRAL			
DISTRICT	NO.	PRIORITY	SITE NAME	POPULATION
2-2. MKUSHI	MK- 1	2	MUSOFU COOP. SOCIETY	300
	MK- 2	29	SEPE SECTION	300
	MK- 3	12	NKOLE PALACE	400
	MK- 4	13	LUKOMBA COOP. SOCIETY	400
	MK- 5	4	NKUMBI COLLEGE	800
	MK- 6	30	PILLO CHISENGA VILLAGE	300
	MK- 7	3	KACHASU	250
	MK- 8	6	CHKWATE COMPOUND	2,000
	MK- 9	26	ITALA COMPOUND	3,000
	MK-10	1	SHAIBILA PALACE	400
	MK-11	5	CHALATA	2,000
	MK-12	11	MASANSA DEPOT	2,000
	MK-13	9	FIWILA MISSION RURAL CENTER	700
	MK-14	10	SHAIBILA PALACE	400
	MK-15	21	MULUNGWE PALACE	200
	MK-16	14	LUNCHU COOP. SOCIETY	300
	MK-17	16	MAKAFU SCHOOL	400
	MK-18	17	MONDAKE SCHOOL	500
	MK-19	18	ST. PAULS SCHOOL	800
	MK-20	19	KAKWELESA SCHOOL	800
	MK-21	15	PANTOON CAMP	300
	MK-22	20	CHKUPILI PALACE	600
	MK-23	27	NIKISHI VILLAGE & DEPOT	200
	MK-24	28	TOUMU VILLAGE & WILD LIFE CAMP	400
	MK-25	22	KANYESNHAY PALACE	300
	MK-26	8	CHEMBE PALACE	300
	MK-27	7	CHEMBE SCHOOL	200
	MK-28	25	MBOSHYA PALACE	700
	MK-29	24	NDAUNI	250
	MK-30	23	KATETAULA SCHOOL	200
TOTAL	30	-	-	19,700

2. 深井戸給水施設建設 200サイト(d)

PROVINCE	2. CENTRAL			
DISTRICT	NO.	PRIORITY	SITE NAME	POPULATION
2-3. MUMBWA	MB- 1	10	KAINDU RURAL HEALTH CENTER	872
	MB- 2	9	KAINDU SCHOOL	500
	MB- 3	5	CHIEF KABULWEBULWE'S PALACE	120
	MB- 4	16	NALUBANDA SCHOOL	545
	MB- 5	12	CHOOBWA SETTLEMENT SCHEME	570
	MB- 6	2	MUMBA SETTLEMENT SCHEME	750
	MB- 7	1	MAIMWENE SETTLEMENT SCHEME	250
	MB- 8	3	CHIWENA RURAL HEALTH CENTER	345
	MB- 9	4	NAKABU SCHOOL	300
	MB-10	7	SHIBUYUNJI SUB-CENTER	180
	MB-11	17	MUKUPI SCHOOL	565
	MB-12	14	MUCHABI SCHOOL	550
	MB-13	13	KEEZA SCHOOL & HEALTH CENTER	525
	MB-14	11	KAPYANGA SETTLEMENT SCHEME	475
	MB-15	6	SHACHELE SCHOOL	346
	MB-16	18	MAMVULE SCHOOL	585
	MB-17	15	MARTIN LUTHER BASIC SCHOOL	800
	MB-18	8	MUNYATI SCHOOL	400
	MB-19	20	SHIKATENDE SCHOOL	560
	MB-20	19	SICHOBO	150
TOTAL	20	-	-	9,388

PROVINCE	2. CENTRAL			
DISTRICT	NO.	PRIORITY	SITE NAME	POPULATION
2-4. SERENJE	S- 1	8	MUSANGA SCHOOL	200
	S- 2	10	KASHISHI	300
	S- 3	11	MUCHINKA RURAL HEALTH CENTER	600
	S- 4	3	KASUKO PRIMARY SCHOOL	660
	S- 5	14	KATIKULULA	1,000
	S- 6	5	NCHIMISHI NEW RURAL HEALTH C.	600
	S- 7	7	KABWE KUPELA	300
	S- 8	6	MAILO RURAL HEALTH CENTER	400
	S- 9	4	SERENJE SECONDARY SCHOOL	660
	S-10	15	SERENGE TOWNSHIP	800
	S-11	9	SERENJE TURN OFF	500
	S-12	13	CHAWAMA	800
	S-13	12	CHIMBAYA PRIMARY SCHOOL	450
	S-14	2	CHISOMO RURAL HEALTH CENTER	1,000
	S-15	1	KABANSA PRIMARY SCHOOL	200
TOTAL	15	-	-	8,470

2. 深井戸給水施設建設 200サイト(e)

PROVINCE	3. COPPERBELT			
DISTRICT	NO.	PRIORITY	SITE NAME	POPULATION
3-1. NDOLA RURAL	N- 1	38	KAMBILOMBILO RESETTLEMENT (1)	2,000
	N- 2	33	KAMBILOMBILO RESETTLEMENT (2)	2,000
	N- 3	35	KAMBILOMBILO RESETTLEMENT (3)	-
	N- 4	37	KAMBILOMBILO RESETTLEMENT (4)	-
	N- 5	34	KAMBILOMBILO RESETTLEMENT (5)	-
	N- 6	33	KAMBILOMBILO RESETTLEMENT (6)	-
	N- 7	43	NTYAKA PRIMARY SCHOOL	350
	N- 8	2	KALONGEWA VILLAGE	250
	N- 9	3	LUSWISHI PRIMARY SCHOOL	300
	N-10	6	CHIBUNDI	300
	N-11	5	FUNDA PRIMARY SCHOOL	300
	N-12	9	CHISANINA	300
	N-13	11	NSALENI	300
	N-14	10	MIYENGO	250
	N-15	15	MACHILEMA	250
	N-16	16	YUDA-CHITULA	300
	N-17	20	LONDELA	250
	N-18	24	SHIBEMBA	250
	N-19	23	NACHEMBO	250
	N-20	22	CHIYANDA	250
	N-21	21	CHIKABUKILA	250
	N-22	25	MAKOPO	250
	N-23	14	CHIPISONI	250
	N-24	13	SHAMAPANGO	250
	N-25	12	MUKWASHI	250
	N-26	8	MALUKUTILA	250
	N-27	26	NKANA COURT	250
	N-28	51	NKANA AREA (1)	300
	N-29	52	NKANA AREA (2)	300
	N-30	27	KALYAMBA	250
	N-31	32	KALINSANGE	250
	N-32	7	ESHILONI VILLAGE	300
	N-33	46	CHIBOTE SECTION	250
	N-34	39	CHISOKONE VILLAGE	400
	N-35	4	KAFULAFUTA BASIC SCHOOL	300
	N-36	41	SHIMBI VILLAGE	400
	N-37	28	CHIPANDA	250
	N-38	50	KITWE-KABWE RD. MARKET	350
	N-39	19	KANESALA VILLAGE	250
	N-40	49	MBUNDA	400
	N-41	42	LUMANO PRIMARY SCHOOL	400
	N-42	18	MAKOLONI VILLAGE	250
	N-43	30	KAFYELA	250
	N-44	29	KALASABWE	250
	N-45	31	MAKANGILA	250
	N-46	48	KANAMA	350
	N-47	44	KAUNGA PRIMARY SCHOOL	450
	N-48	17	DAYIMANI VILLAGE	250
	N-49	45	MUTETESHI PRIMARY SCHOOL	250
	N-50	1	MUTABA RURAL HEALTH CENTER	350
TOTAL	50	-	-	16,700

3. 追加既存深井戸給水施設改修—60サイト (a)

PROVINCE	1. LUSAKA (20)		
DISTRICT	NO.	SITE NAME	POPULATION
1-1. LUSAKA RURAL	1	MWANTALASHA	250
	2	MWANSHELELA	250
	3	CHILYABALA	200
	4	KAFUE MISSION SCHOOL	250
	5	CHINYUNYU RURAL HEALTH CENTRE	200
	6	RUFUNSA POLICE	200
	7	CHONGWE SHOW GROUND	250
	8	NCHUTE PRIMARY SCHOOL	250
	9	NCHUTE AGRICULTURAL STATION	200
	10	LUIMBA FARM BLOCK	250
	11	KABANANA I	200
	12	KABANANA II	300
	13	MWEMBESHI RESETTLEMENT I	300
	14	MWEMBESHI RESETTLEMENT II	250
	15	CHINYUNYU ROADS CAMP	250
	16	CHINYUNYU VET. CAMP	250
	17	CHINYUNYU PALACE	200
		T O T A L	4,050
1-2. LUANGWA	1	KAUNGA PRIMARY SCHOOL	250
	2	KATONDWE SEC. SCHOOL	300
	3	KAUNGA VILLAGE	250
		T O T A L	800

3. 追加既存深井戸給水施設改修—60サイト (b)

PROVINCE	2. CENTRAL (20)		
DISTRICT	NO.	SITE NAME	POPULATION
1-1. KABWE RURAL	1	CHITANDA RURAL HEALTH CENTER	250
	2	MALAMBANYAMA	300
	3	MWACHISOMPALA	200
	4	WAYA FISHING CAMP	350
	5	WAYA RURAL HEALTH CENTRE	300
	6	CHIPEMBI AGRICULTURAL CENTRE	400
	7	MUKWAMBE PRIMARY SCHOOL	250
	8	CHIKONKOMENE	200
	9	CHOMBELA	250
	10	KABANGALA	300
	11	KIZITO	200
	12	MEEMBE	200
	13	MUSOKA	250
	14	MUSWISHI	300
	15	SHALWABALA	300
	16	SHIYALA	350
	17	SHIFWANKULA	200
	18	MPUNDE	250
	19	MUKUBWE REST HOUSE	200
	20	CHISANGA PRIMARY SCHOOL	250
		T O T A L	5,300

3. 追加既存深井戸給水施設改修—60サイト (c)

PROVINCE	3. COPPERBELT		
DISTRICT	NO.	SITE NAME	POPULATION
1-1. NDOLA RURAL	1	MUSHILI, No. 2675	350
	2	MASAITI, No. 2751	300
	3	MASAITI, CHIBOTE	200
	4	MPONGWE, No. 2851	500
	5	ST. MARY'S MISSION	700
	6	IBUCHINGA, No. 3044	500
	7	MUSHILI	200
	8	KACHINDILA	200
	9	LUMPUMA	300
	10	LESA	400
	11	MALEMBEKA	500
	12	CHIBOTE	200
	13	DAGAMA HOME, No. 3080	300
	14	NAKANA	250
	15	COPPERBELT TEACHERS COLLAGE	200
	16	ARTHUR DAVISON HOSPITAL	350
	17	ENGWE, No. 3053	200
	18	IPUMBURARM	250
	19	MUKUMPU	200
	20	IPUMBU FARM	200
		T O T A L	6,300

4. 既存深井戸給水施設改修 100サイト (a)

PROVINCE	1. LUSAKA (1)			
DISTRICT	NO.	CHIEF	SITE NAME	POPULATION
1-1. LUSAKA RURAL	R- 1	SETTLEMENT	KANAKANTAPA	150
	R- 2	NKOMESHYA	MAWANTALASHA	300
	R- 3	NKOMESHYA	MWALUMUNA	200
	R- 4	NKOMESHYA	MATI	500
	R- 5	NKOMESHYA	MUTUBISHA	700
	R- 6	NKOMESHYA	CHIKULI SCHOOL	500
	R- 7	NKOMESHYA	CHIPAPA LOCAL COURT	100
	R- 8	NKOMESHYA	KACHETA SCHOOL	100
	R- 9	NKOMESHYA	KAMPOLILWE	300
	R-10	NKOMESHYA	CHAMPENGA	400
	R-11	NKOMESHYA	NKHUMBULA	500
	R-12	NKOMESHYA	SHANTUMBU	200
	R-13	NKOMESHYA	FUNGANISHA	300
	R-14	NKOMESHYA	MPOFU	250
	R-15	NKOMESHYA	KAPEKETE	200
	R-16	NKOMESHYA	LOBELA	350
	R-17	NKOMESHYA	CHILIABALE SCHOOL	200
	R-18	NKOMESHYA	MASHELELA	250
	R-19	NKOMESHYA	LUIMBA SCHOOL	200
	R-20	NKOMESHYA	MWAKAWALO	200
	R-21	NKOMESHYA	MULAIKA SCHOOL	200
	R-22	NKOMESHYA	KAPUTI	200
	R-23	NKOMESHYA	KAFUE MISSION SCHOOL	250
	R-24	NKOMESHYA	SHEKESWE	200
	R-25	NKOMESHYA	MWABULA SCHOOL	150
	R-26	NKOMESHYA	MPHNDE SCHOOL	200
	R-27	NKOMESHYA	MUKHOMBWE SCHOOL	200
	R-28	NKOMESHYA	MBOSHA	200
	R-29	BUNDA-BUNDA	BUNDA-BUNDA ADMINISTRATION C.	100
	R-30	BUNDA-BUNDA	CHINYUNYU SCHOOL	150
	R-31	BUNDA-BUNDA	CHINYUNYU TSETSE CONTROL	100
	R-32	BUNDA-BUNDA	CHIMPUNGU ILLS	200
	R-33	BUNDA-BUNDA	MWALIKANGA	200
	R-34	BUNDA-BUNDA	CHIMPINDIKA	300
	R-35	MPHASHYA	CHIWALA	200
	R-36	MPHASHYA	KOKOWE	300
	R-37	MPHASHYA	NGULUKA	300
	R-38	MPHASHYA	TETHANI SCHOOL	350
	R-39	MPHASHYA	NKHOLOMA	250
	R-40	MPHASHYA	SABANI	200
	R-41	MPHASHYA	TALUBUKA	300
	R-42	MPHASHYA	MAKUNKU	350
	R-43	MPHASHYA	SALA SCHOOL	400
	R-44	MPHASHYA	SANJE	300
	R-45	MPHASHYA	MWEMBESHI	1,000
	R-46	MPHASHYA	KASOKO	300
	R-47	MPHASHYA	CHIKUPI	300
	R-48	MPHASHYA	MUNGU RESETTLEMENT	360
	R-49	MPHASHYA	KABANANA PRIMARY SCHOOL	1,500
	R-50	MPHASHYA	KABANANA CO-OPERATIVE	300

4. 既存深井戸給水施設改修 100サイト (a)

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PROVINCE	1. LUSAKA (2)			
DISTRICT	NO.	CHIEF	SITE NAME	POPULATION
1-1. LUSAKA RURAL	R-51	MPHASHYA	CHIPINGU RURAL HEALTH CENTER	380
	R-52	MPHASHYA	MUWEZWA VILLAGE A	250
	R-53	MPHASHYA	MUWEZWA VILLAGE B	300
	R-54	MPHASHYA	MUNGU RESETTLEMENT A	300
	R-55	MPHASHYA	MUNGU RESETTLEMENT B	300
	R-56	MPHASHYA	MUNGU RESETTLEMENT C	300
	R-57	MPHASHYA	KAPETE SCHOOL	1,600
	R-58	MPHASHYA	CHIOTA COOPERATIVE	300
	R-59	MPHASHYA	CHIPAPA RURAL HEALTH CENTER	700
	R-60	MPHASHYA	MUTU WA NGOMBE SCHOOL	1,600
	R-61	MPHASHYA	MAKENI POLICE CAMP	300
	R-62	MPHASHYA	TUBALANGE COOPERATIVE	300
	R-63	MPHASHYA	SHIKATENDE SCHOOL	1,500
	R-64	MPHASHYA	SHABWALA	600
	R-65	MPHASHYA	CHAINDE	1,600
	R-66	MPHASHYA	KACHETA SCHOOL	1,500
	R-67	MPHASHYA	KEEMBE	900
	R-68	MPHASHYA	KAPIRI	700
	R-69	MPHASHYA	KATUBA SCHOOL	1,600
	R-70	MPHASHYA	MWANACHILENGA SCHOOL	1,600
TOTAL	70	-	-	31,890

4. 既存深井戸給水施設改修 100サイト (b)

PROVINCE	1. LUSAKA			
DIATRICT	NO.	CHIEF	SITE NAME	POPULATION
1-2. LUANGWA	R- 1	MPHUKA	MPHUKA RURAL HEALTH CENTER	750
	R- 2	MPHUKA	CHIENDIENDE	700
	R- 3	MPHUKA	KAVALAMANJA	300
	R- 4	MPHUKA	KAKARO VILLAGE AND PRIMARY SCHOOL	1,300
	R- 5	MPHUKA	JANEIRO	400
	R- 6	MPHUKA	KAPOCHE SCHOOL	500
	R- 7	MPHUKA	KATONDWE PRIMARY SCHOOL	1,500
	R- 8	MPHUKA	LUINGA	300
	R- 9	MPHUKA	LINGA	250
	R-10	MPHUKA	CHIKUNI	500
TOTAL	10	-	-	6,500

4. 既存深井戸給水施設改修 100サイト(c)

PROVINCE	2. COPPERBELT			
DISTRICT	NO.	CHIEF	SITE NAME	POPULATION
2-1. NDOLA RURAL	R- 1		CHOMOTO PRIMARY SCHOOL	200
	R- 2		CHINEMU RURAL HEALTH CENTER	250
	R- 3		FUMBWE PRIMARY SCHOOL	300
	R- 4		MPOPO PRIMARY SCHOOL	250
	R- 5		LUMPUMA LOCAL COURT	300
	R- 6		MUNKUMPU PRIMARY SCHOOL	250
	R- 7		CHILESHE RURAL HEALTH CENTER	450
	R- 8		CHIEF NKANA'S PALACE	300
	R- 9		MIENGWE CENTER	400
	R-10		LUMPUMA RURAL HEALTH CENTER	300
	R-11		MUSHINGASHI RURAL HEALTH CENTER	250
	R-12		CHINEMU PRIMARY SCHOOL	250
	R-13		KAPILAMIKWA PRIMARY SCHOOL	250
	R-14		MUKUTUMA PRIMARY SCHOOL	300
	R-15		MISHIKISHI PRIMARY SCHOOL	300
	R-16		ZEMBA VILLAGE	300
	R-17		MUSHILI PRIMARY SCHOOL	350
	R-18		CHISANGA PRIMARY SCHOOL	300
	R-19		FUNGULWE RURAL HEALTH CENTER	250
	R-20		CHIKABUKE CLINIC	300
TOTAL	20	-	-	5,850

資-6 基本設計図

資6-1 井戸構造図(φ6")

資6-2 井戸構造図(φ4")

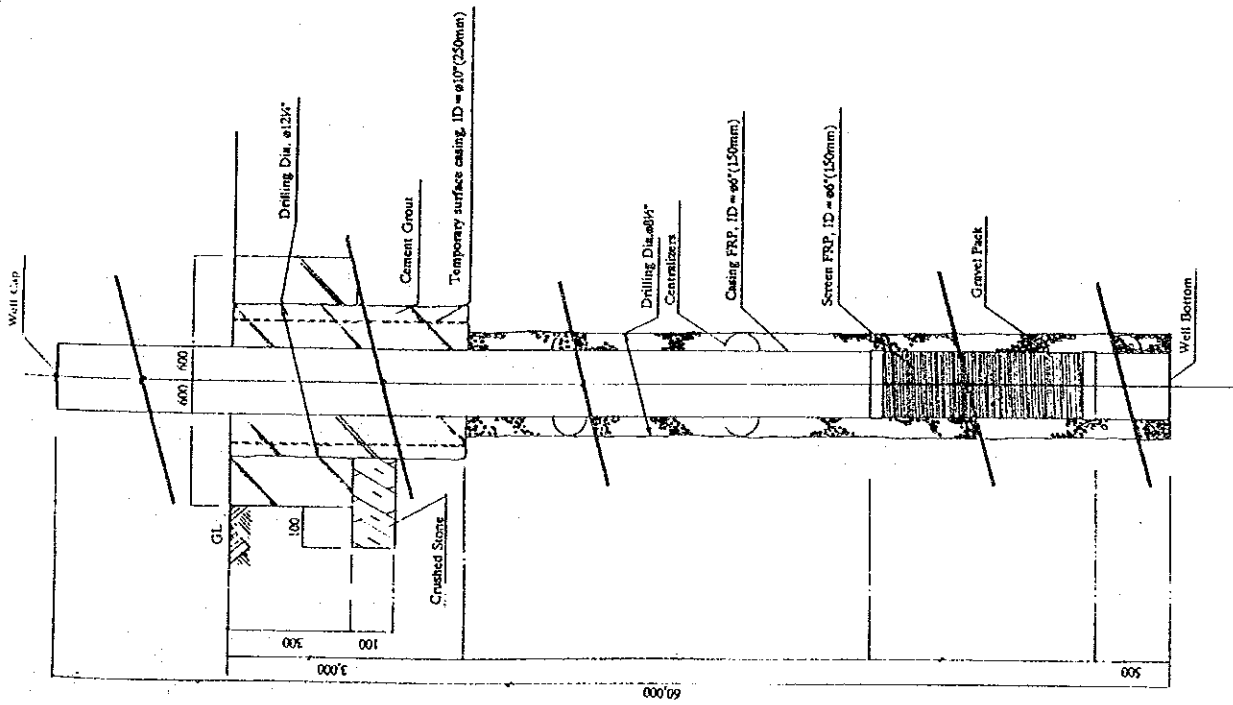
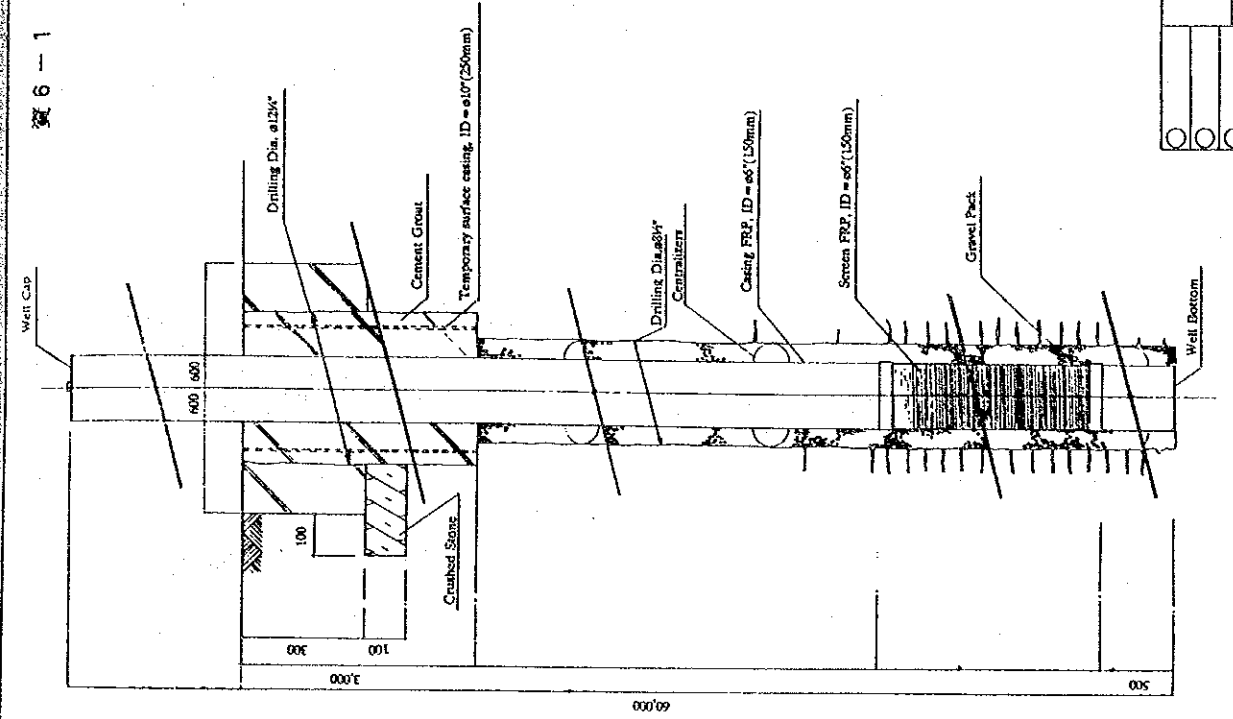
資6-3 深井戸給水施設図

資6-4 カブエ市資機材管理所位置図

資6-5 カブエ市資機材管理所配置図

資6-6 日本-ザンビア経済協力銘板

圖 6-1 井戶構造圖 (φ 6")

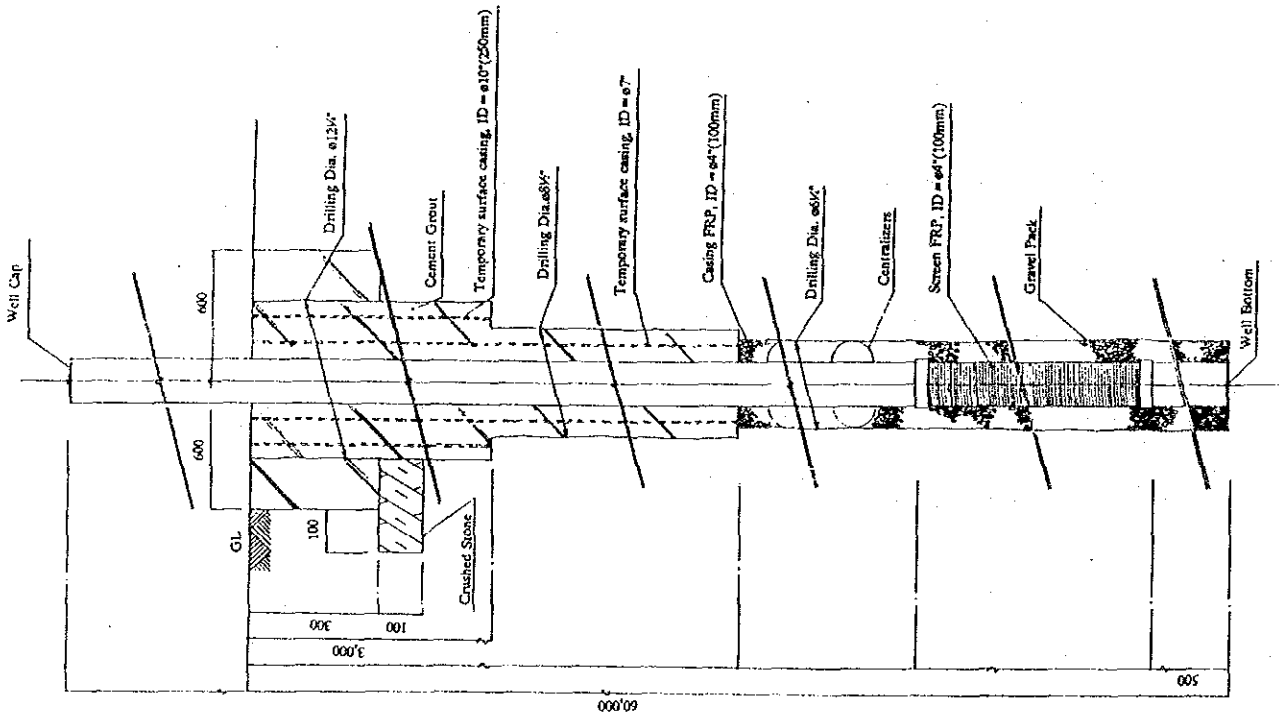
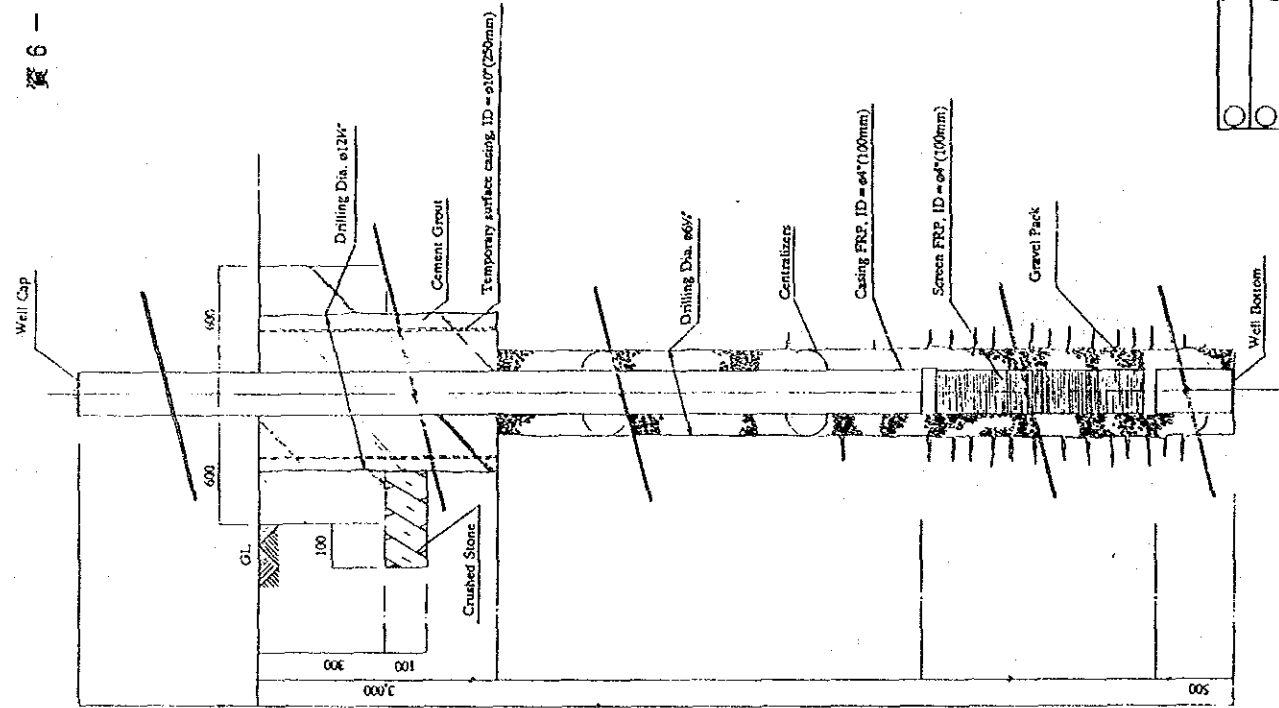


Consolidated Formation

Unconsolidated Formation

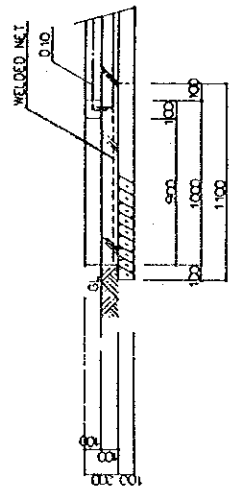
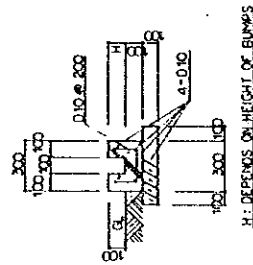
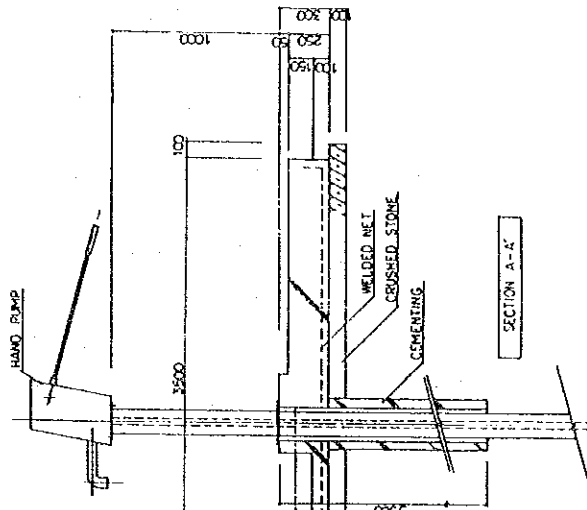
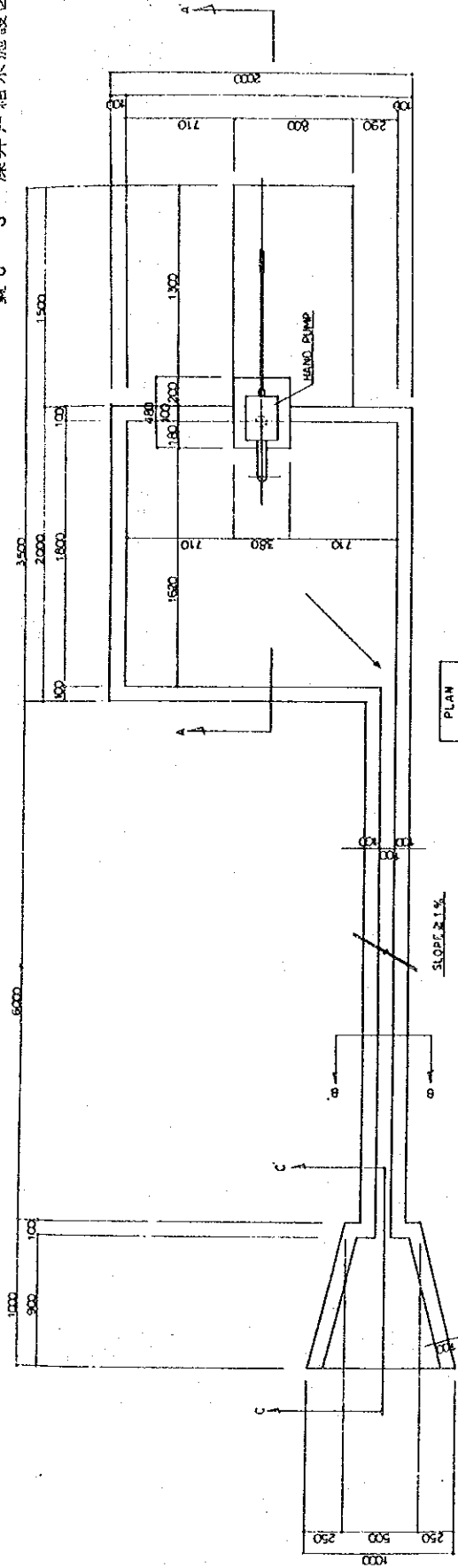
○	DESIGN OF BORE-HOLE STRUCTURE
○	DESIGN OF WATER DEVELOPMENT
○	DESIGN OF WATER SUPPLY
○	DESIGN OF WATER DISTRIBUTION
○	DESIGN OF WATER TREATMENT
○	DESIGN OF WATER STORAGE
○	DESIGN OF WATER CONVEYANCE
○	DESIGN OF WATER UTILIZATION
○	DESIGN OF WATER POLLUTION CONTROL
○	DESIGN OF WATER QUALITY MONITORING
○	DESIGN OF WATER RESOURCE MANAGEMENT

資 6 - 2 井戸構造図 (φ 4")



○	MINISTRY OF ENERGY AND WATER DEVELOPMENT
○	DEPARTMENT OF WATER SUPPLY
○	THE PROJECT FOR THE RURAL WATER SUPPLY DEVELOPMENT
○	DESIGN OF 4" BORE-HOLE STRUCTURE

案 6 - 3 深井戸給水施設図



BORE-HOLE WITH WATER FACILITY

MINISTRY OF MINING AND WATER DEVELOPMENT
DEPARTMENT OF WATER AFFAIRS
THE PROJECT FOR THE FINAL WATER SUPPLY DEVELOPMENT
BORE-HOLE WITH WATER FACILITY

資 6 - 4 カブエ市家機材管理所位置圖



MINISTRY OF ENERGY AND WATER DEVELOPMENT DEPARTMENT OF WATER AFFAIRS	
THE PROJECT FOR THE RURAL WATER SUPPLY DEVELOPMENT	
LOCATION OF PROJECT OPERATION BASE AT KABWE	
○	
○	
○	
○	

LOCATION OF PROJECT OPERATION BASE AT KABWE

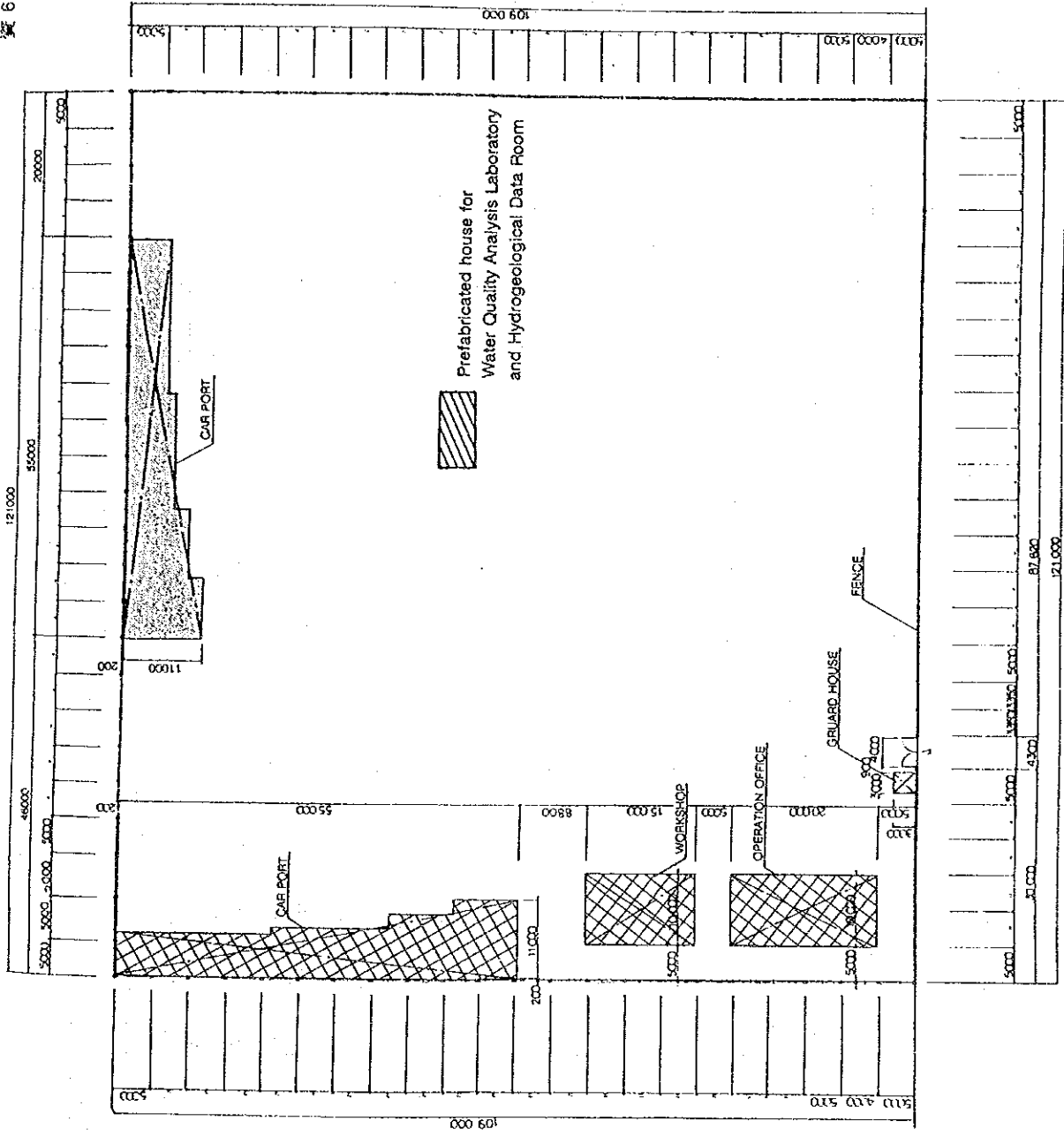
200 m

SCALE

第 6-5 カブエ市質機材管理所配置図



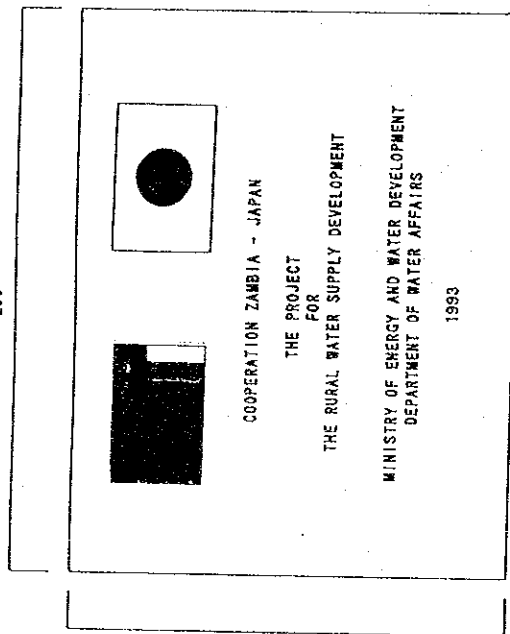
	Stage I Construction Area
	Stage II Construction Area
	Stage III Construction Area



○	MINISTRY OF ENERGY AND WATER DEVELOPMENT
○	DEPARTMENT OF WATER AFFAIRS
○	THE PROJECT FOR THE RURAL WATER SUPPLY DEVELOPMENT
○	LAYOUT PLAN

LAYOUT PLAN

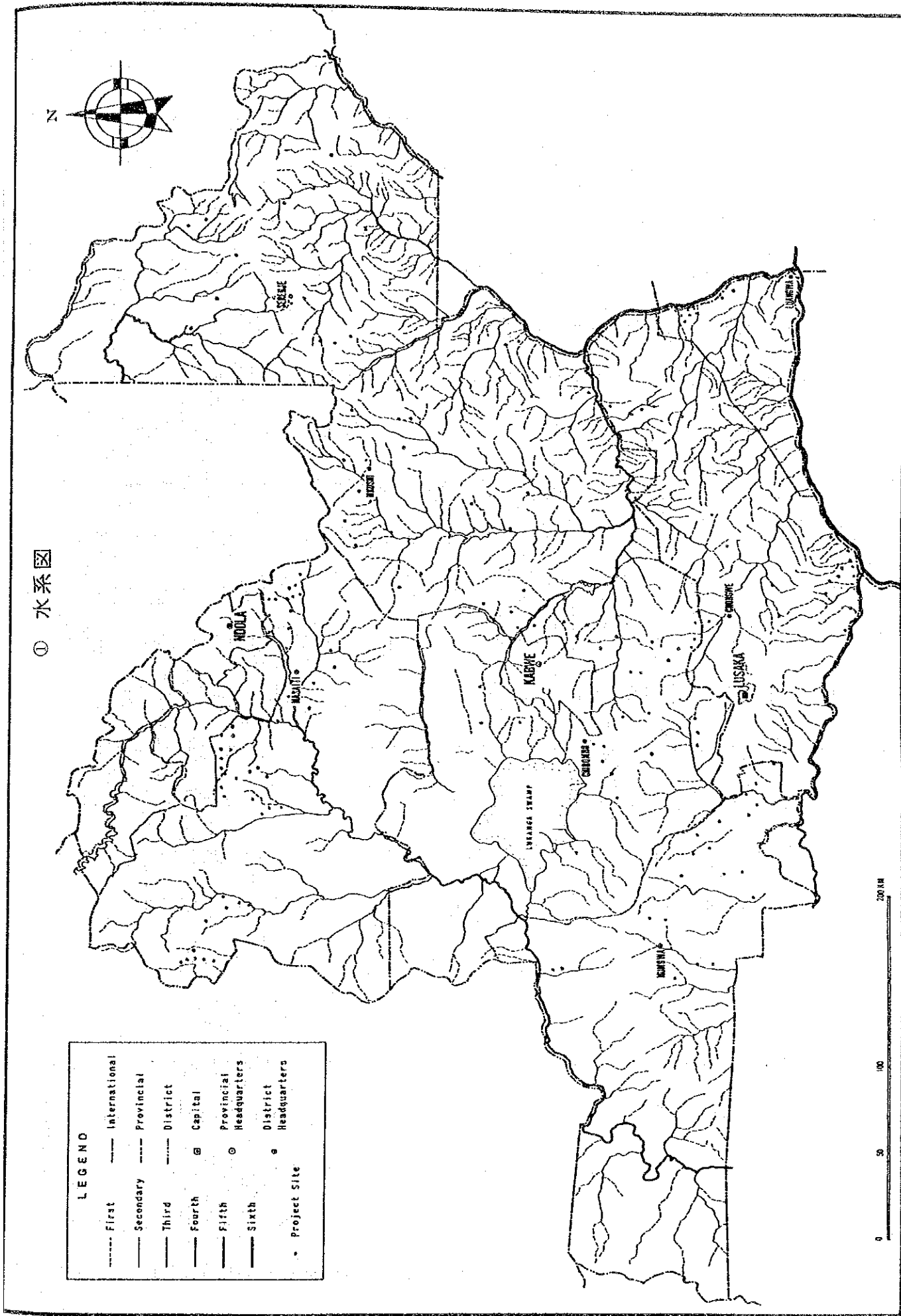
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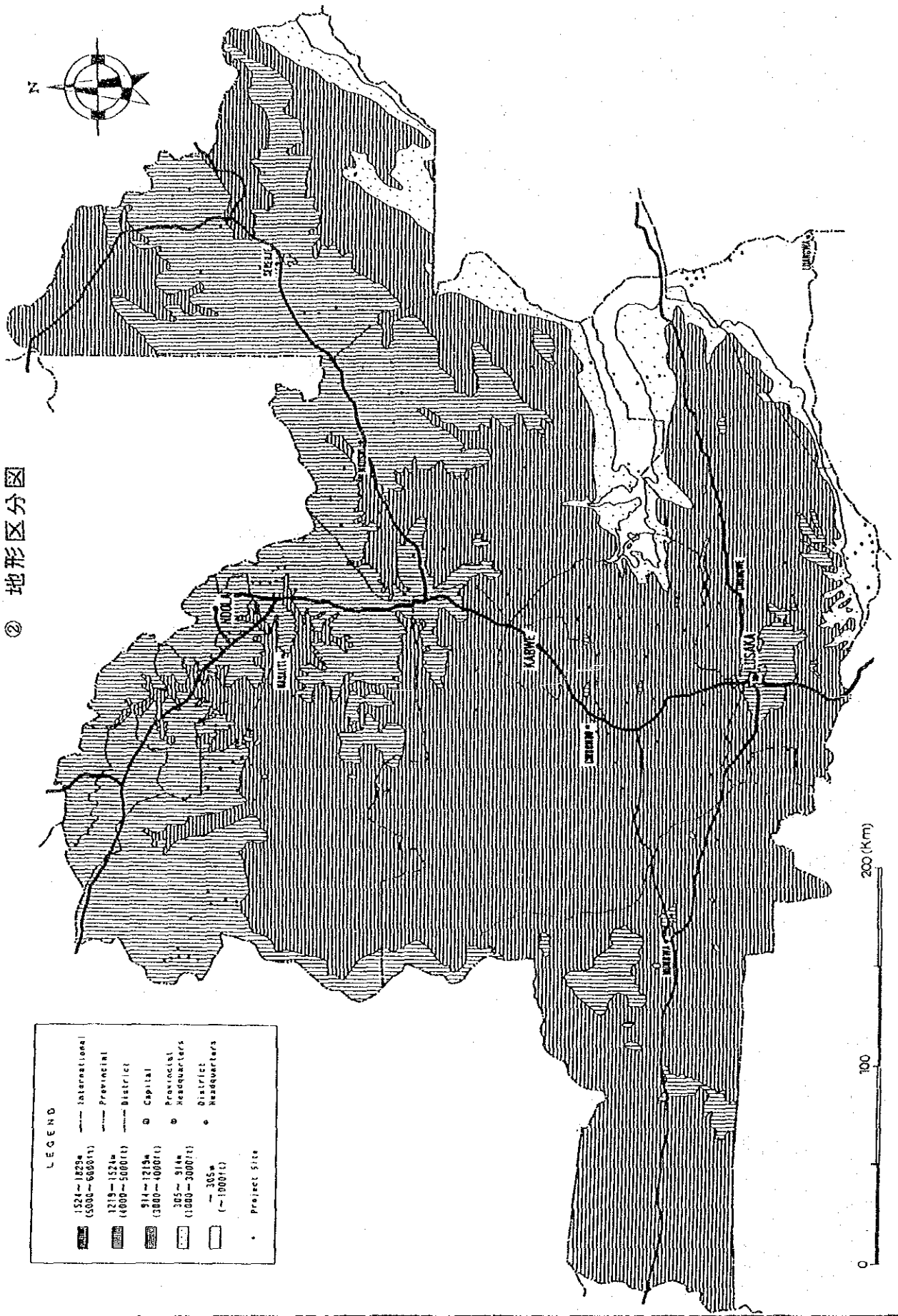
051

PLATE FOR PUMPING FACILITY

○	MINISTRY OF ENERGY AND WATER DEVELOPMENT
○	DEPARTMENT OF WATER AFFAIRS
○	THE PROJECT FOR THE RURAL WATER SUPPLY DEVELOPMENT
○	PLATE FOR PUMPING FACILITY



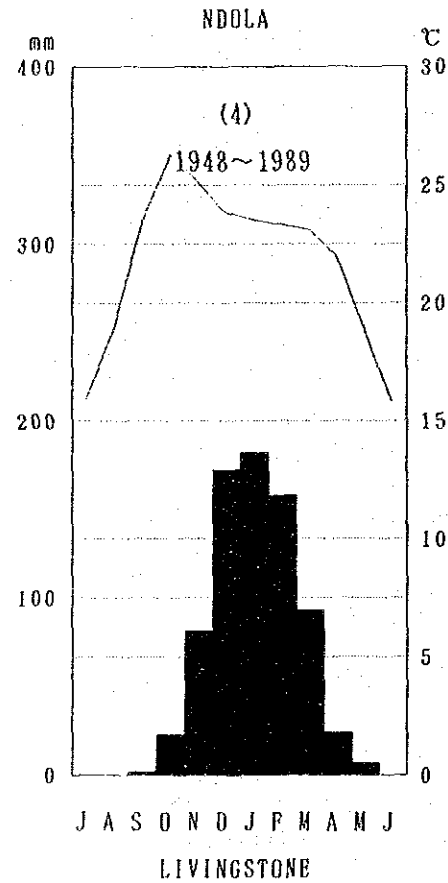
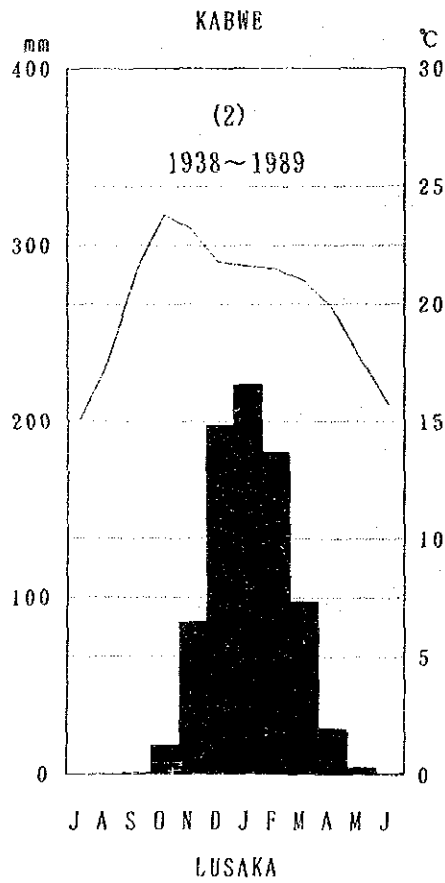
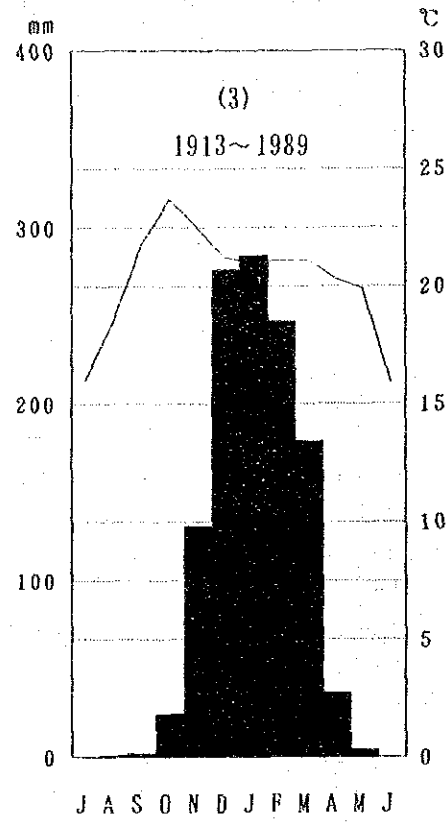
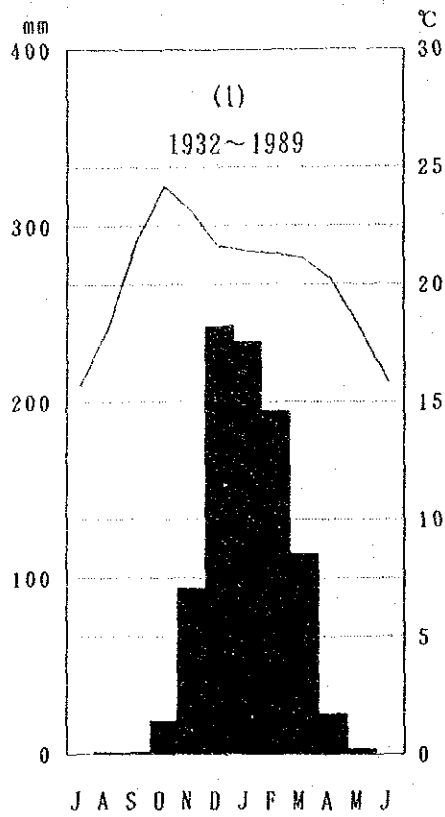
② 地形区分图



③ ザンビア国気象関連資料

観測地点	項目	7月	8月	9月	10月	11月	12月	1月	2月	3月	4月	5月	6月	計	
(1) KADWE (1932-1989)	1) 降水量(mm)	0	1	1	19	94	243	234	195	114	23	3	0	928	
	2) 温度(℃)	15.7	18.2	21.9	24.2	23.1	21.6	21.4	21.3	21.1	20.2	18.1	15.8	20.2	
	3) 降雨日数	0	0	0	3	11	19	19	17	11	11	3	1	0	84
	4) 湿度(%)	51	47	41	42	61	75	81	77	77	77	71	65	55	62
	5) 蒸発量(mm)	165	215	268	295	173	142	137	115	146	153	153	157	137	2103
	6) 日照時間(hr/day)	9.5	10.1	9.9	9.5	6.9	5.5	5.7	5.7	5.7	7.10	8.50	9.6	9.2	8.1
	7) 風速(knot)	6.3	6.9	7.0	6.2	4.7	3.8	3.7	3.5	3.5	4.4	5.1	5.2	5.6	5.2
(2) LUSAKA (1938-1989)	1) 降水量(mm)	0	0	1	16	86	198	221	183	98	26	4	1	833	
	2) 温度(℃)	15.1	17.6	21.4	23.8	23.2	21.8	21.6	21.5	21.0	19.9	17.7	15.7	20.0	
	3) 降雨日数	0	0	0	3	11	18	20	14	12	4	2	0	84	
	4) 湿度(%)	53	47	39	41	58	76	77	72	68	68	61	57	60	
	5) 蒸発量(mm)	158	204	230	267	241	138	171	135	152	171	183	165	2215	
	6) 日照時間(hr/day)	9.4	9.9	9.9	9.3	7.4	5.5	5.8	6.0	6.0	6.6	7.8	8.9	8.8	7.9
	7) 風速(knot)	7.1	7.8	8.3	8.3	6.2	4.8	3.9	4.3	4.3	5.1	5.9	5.7	6.4	6.2
(3) NDOLA (1903-1989)	1) 降水量(mm)	0	1	2	24	131	276	284	247	179	36	4	0	1183	
	2) 温度(℃)	16.0	18.5	21.8	23.7	22.5	21.2	21.0	21.1	21.1	20.3	19.9	15.9	20.3	
	3) 降雨日数	0	1	1	3	12	20	20	19	15	5	1	0	97	
	4) 湿度(%)	52	45	41	43	65	79	82	82	77	71	61	58	63	
	5) 蒸発量(mm)	161	210	245	259	184	139	124	115	146	157	159	147	2046	
	6) 日照時間(hr/day)	9.4	9.6	9.4	8.8	6.7	4.8	4.6	4.6	6.1	8.0	9.0	9.0	7.5	
	7) 風速(knot)	5.1	5.8	6.5	6.0	4.8	3.9	3.7	3.2	3.5	4.1	4.0	4.6	4.6	
(4) LIVINGSTONE (1948-1989)	1) 降水量(mm)	0	0	2	23	81	172	182	158	93	24	7	0	742	
	2) 温度(℃)	15.9	18.9	23.5	26.3	25.1	23.8	23.5	23.3	23.1	22.0	18.9	15.8	21.7	
	3) 降雨日数	0	0	1	3	11	16	17	15	9	4	1	0	77	
	4) 湿度(%)	46	38	32	35	56	70	74	76	67	59	51	50	55	
	5) 蒸発量(mm)	150	196	251	281	217	162	164	136	164	159	158	132	2170	
	6) 日照時間(hr/day)	9.8	10.1	9.8	8.9	7.2	5.9	6.4	6.5	7.9	9.0	9.7	9.5	8.4	
	7) 風速(knot)	4.6	5.1	5.9	5.7	5.0	3.9	4.3	4.2	4.5	4.3	3.9	4.3	4.6	

④ 年間気温及び降水量グラフ



⑤ 中央州カブエの年間降水量(1970-1990)

(Unit:mm)

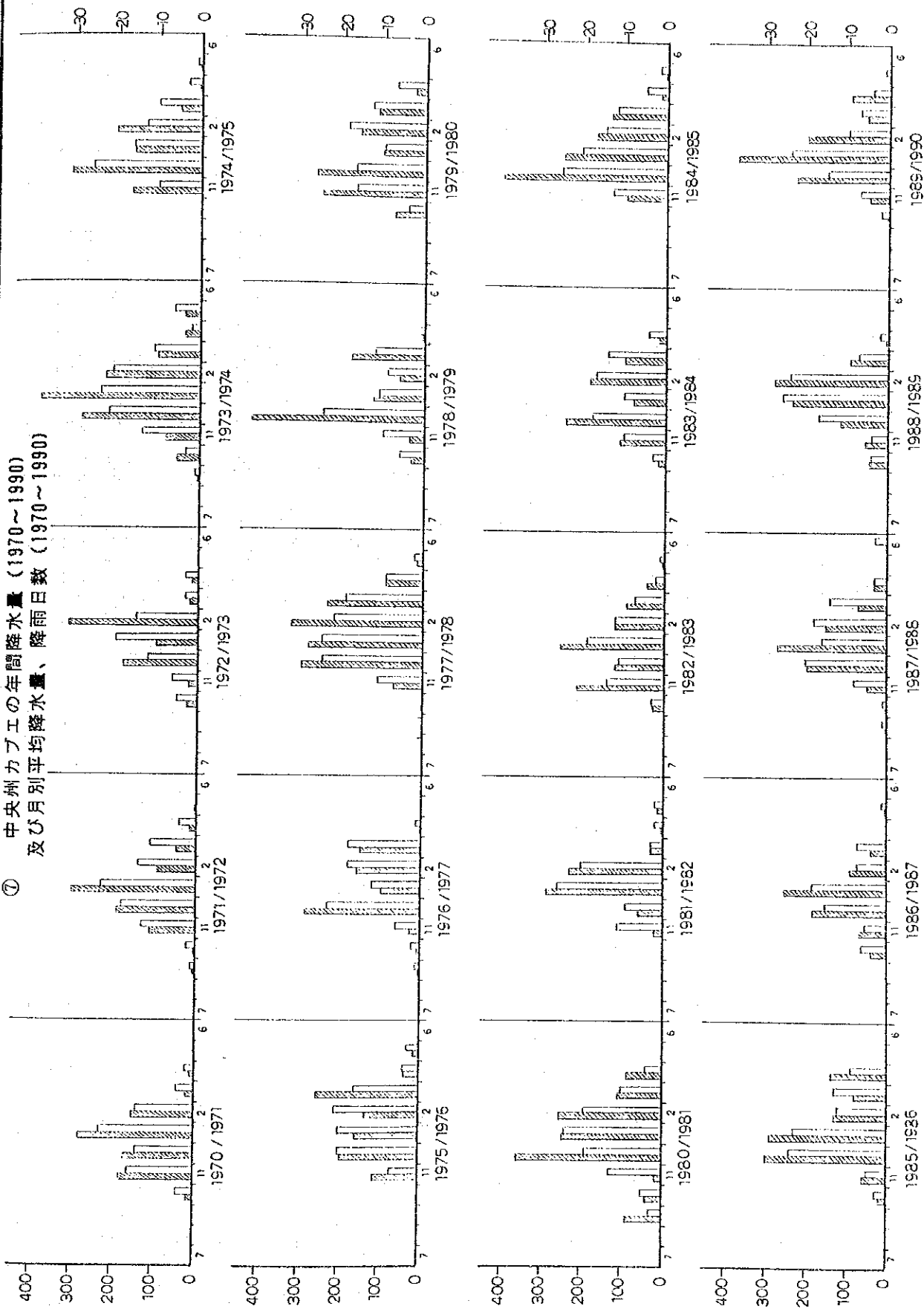
Year	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May.	Jun.	Annual
1970/71	0.0	0.0	0.0	14.5	180.6	170.2	281.4	152.7	24.1	10.7	TR	0.0	834.2
1971/72	0.0	0.0	2.5	4.6	111.0	191.3	302.5	94.2	45.0	14.2	TR	0.0	765.3
1972/73	0.0	0.0	0.0	26.4	22.6	181.6	106.1	315.4	19.0	16.1	0.0	0.0	687.2
1973/74	0.0	0.0	0.7	54.0	82.0	286.2	386.0	227.2	99.4	36.8	36.6	0.0	1208.9
1974/75	0.0	0.0	0.0	0.0	165.1	265.4	161.0	207.7	49.0	6.3	2.5	0.0	857.0
1975/76	0.0	0.0	0.0	0.0	110.6	194.3	154.7	133.0	258.9	35.2	14.6	0.0	901.3
1976/77	0.0	0.0	0.8	37.4	27.3	285.1	98.1	157.8	149.5	0.2	0.0	0.0	756.2
1977/78	0.0	2.4	0.1	TR	67.7	298.8	284.4	327.7	238.9	89.6	11.9	0.0	1321.5
1978/79	0.0	0.0	0.0	31.6	34.2	426.9	122.4	61.6	80.2	6.5	0.0	0.0	763.4
1979/80	0.0	0.0	0.0	7.4	256.1	269.3	105.5	186.4	115.9	28.6	0.0	0.0	969.2
1980/81	0.0	0.0	8.8	40.0	160.8	360.0	248.7	254.3	111.3	86.0	0.0	0.0	1269.9
1981/82	0.0	0.0	0.0	0.0	20.3	59.4	287.5	229.5	31.7	9.5	12.7	0.0	650.6
1982/83	0.0	0.0	0.0	27.8	212.5	119.7	256.6	121.5	91.1	39.9	2.6	0.0	871.7
1983/84	0.0	0.0	0.0	18.9	111.8	246.0	76.8	181.8	99.7	13.0	0.0	0.0	748.0
1984/85	0.0	0.0	0.0	0.0	97.0	405.6	254.9	173.6	138.2	14.7	10.4	0.0	1094.4
1985/86	0.0	0.0	0.0	20.2	62.2	300.9	289.1	129.5	83.2	137.7	0.0	0.0	1022.8
1986/87	0.0	0.0	0.0	37.9	67.2	180.7	251.0	88.7	38.3	0.0	0.9	0.0	664.7
1987/88	0.0	0.0	1.5	2.5	47.0	197.2	169.3	148.3	69.3	2.9	0.0	2.8	640.8
1988/89	0.0	0.0	0.0	43.3	55.0	114.7	233.8	279.0	92.0	5.0	0.0	0.0	822.8
1989/90	0.0	0.0	0.0	1.7	46.5	179.6	376.6	200.0	53.4	96.4	1.7	0.0	955.9
Average	0.0	0.1	0.7	18.4	96.9	236.6	222.3	183.5	99.4	32.5	4.7	0.1	890.2
Rainy days	0.0	0.1	0.4	2.7	10.0	18.8	19.5	16.0	10.5	3.5	1.0	0.2	82.7

⑤ 中央州カブエの降雨日数

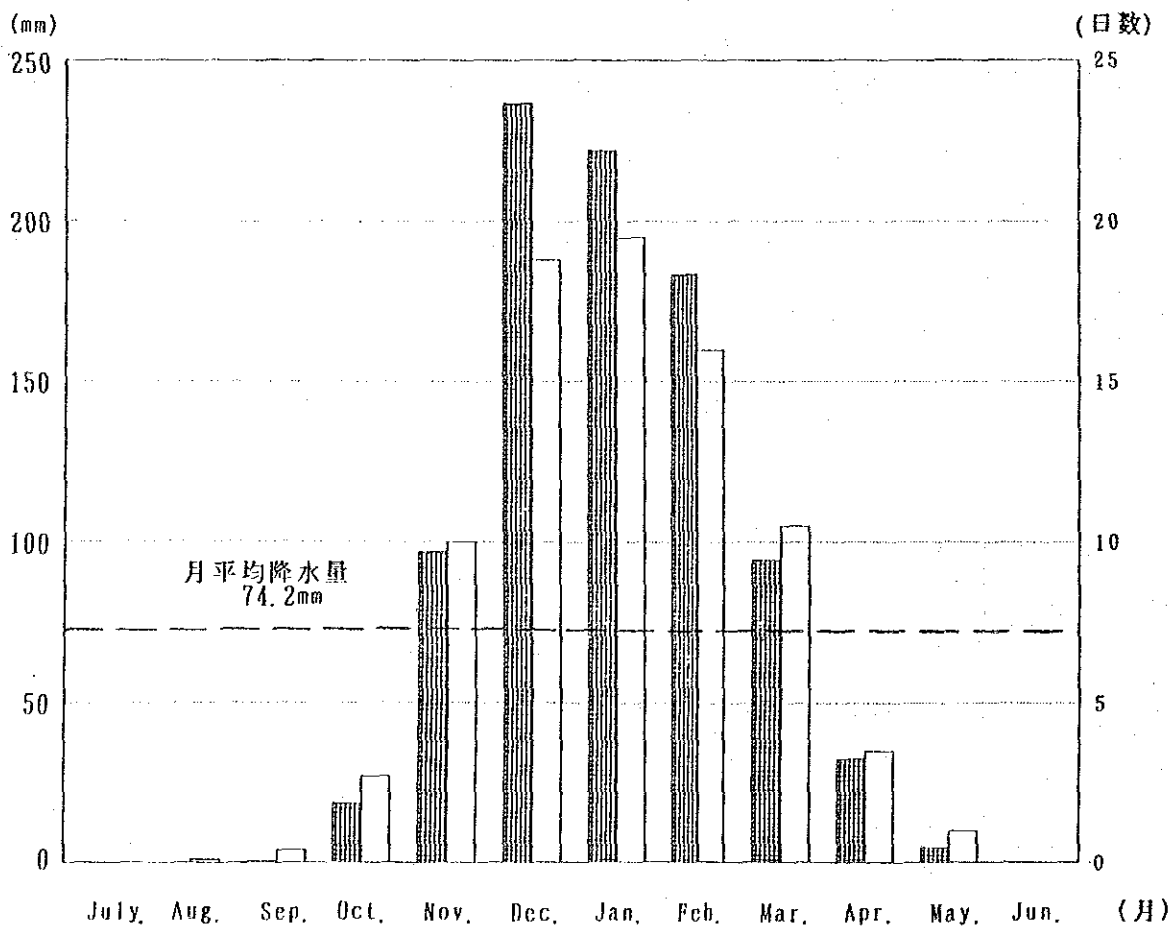
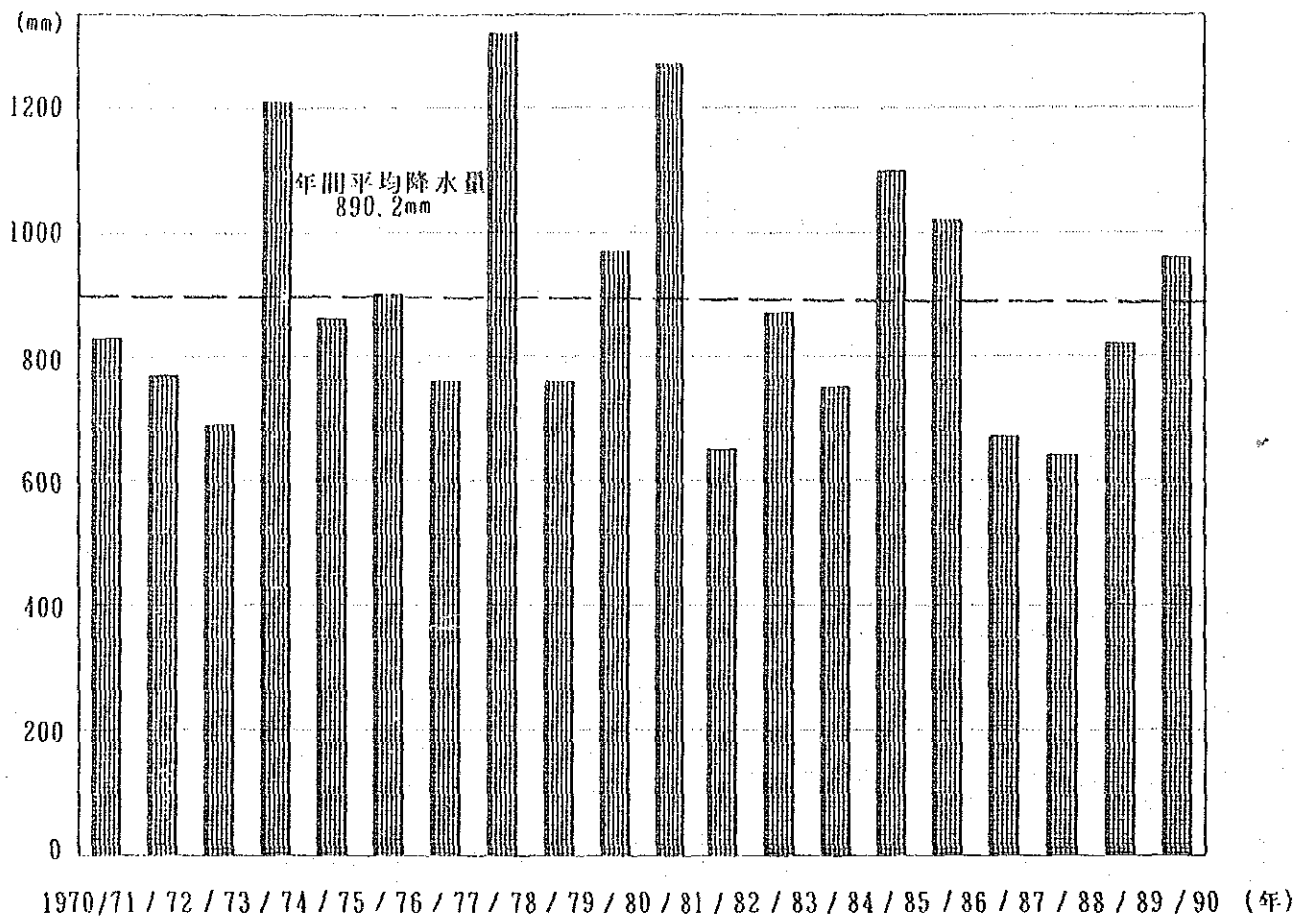
(Unit: Days)

	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May.	Jun.	Annual
1970/71	0	0	0	4	16	14	23	14	4	2	0	0	77
1971/72	0	0	1	2	13	18	23	14	11	4	0	0	86
1972/73	0	0	0	5	6	12	20	15	3	3	0	0	64
1973/74	0	0	1	3	14	22	24	21	11	2	6	0	104
1974/75	0	0	0	0	10	26	16	13	10	3	1	0	79
1975/76	0	0	0	0	7	20	20	21	16	4	3	0	91
1976/77	0	0	1	2	6	23	12	18	18	1	0	0	81
1977/78	0	1	1	0	11	25	25	22	19	9	2	0	115
1978/79	0	0	0	6	10	25	11	9	12	1	0	0	74
1979/80	0	0	0	4	17	17	10	19	13	7	0	0	87
1980/81	0	0	3	5	13	19	24	19	10	4	0	0	97
1981/82	0	0	0	0	11	9	26	20	3	2	2	0	73
1982/83	0	0	0	3	14	11	19	12	7	2	1	0	69
1983/84	0	0	0	3	10	18	10	17	14	4	0	0	76
1984/85	0	0	0	0	13	26	21	15	12	5	2	0	94
1985/86	0	0	0	3	5	24	23	12	13	9	0	0	89
1986/87	0	0	0	6	5	15	18	7	7	0	1	0	59
1987/88	0	0	1	1	8	20	16	18	14	3	0	3	84
1988/89	0	0	0	4	4	17	26	24	7	2	0	0	84
1989/90	0	0	0	2	7	15	24	10	7	4	1	0	70
Average	0	0.1	0.4	2.7	10.0	18.8	19.5	16.0	10.5	3.5	1.0	0.2	82.7

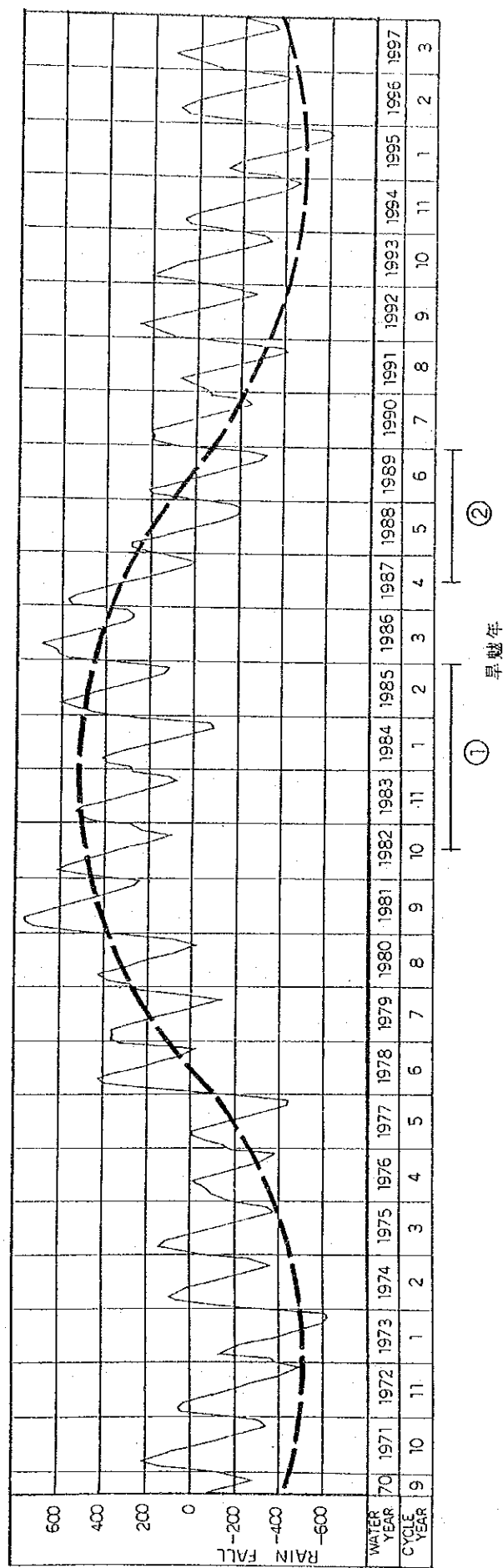
① 中央州カブエの年間降水量 (1970~1990)
及び月別平均降水量、降雨日数 (1970~1990)



⑧ 中央州カプエの年間降水量(1970-1990)
及び月別平均降水量、降雨日数(1970-1990)

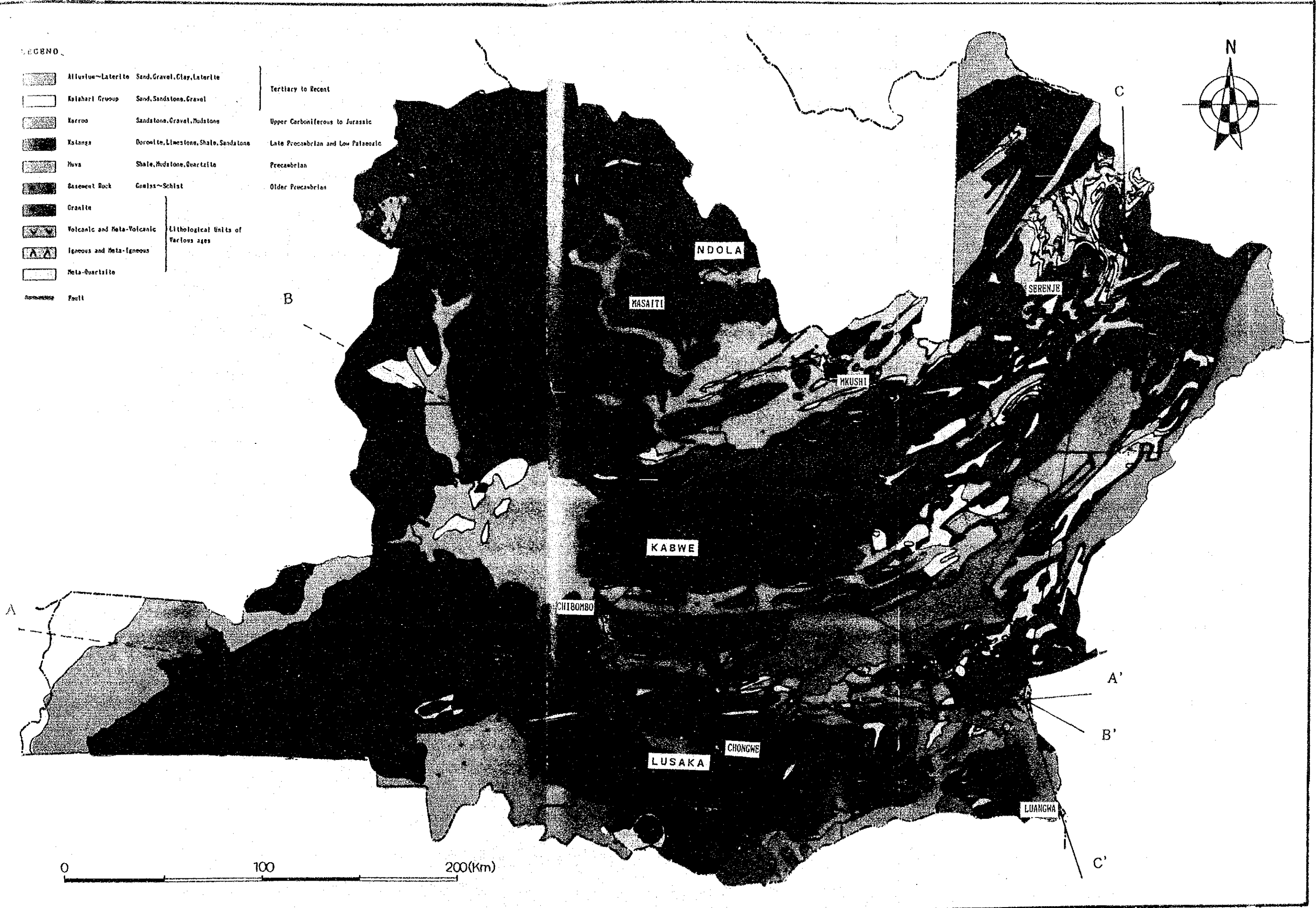


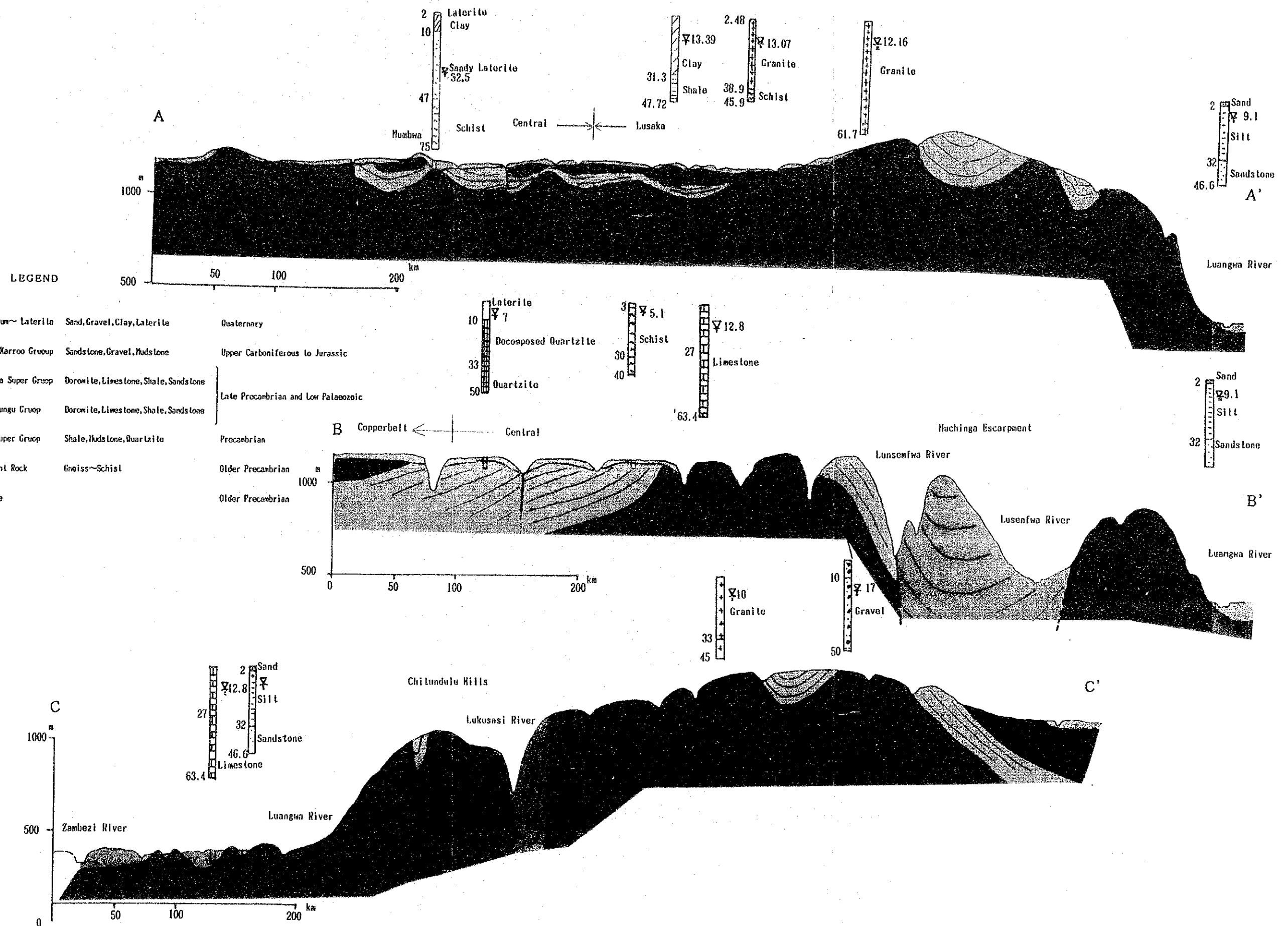
③ 中央州カブエ市における長期降水量変動予測 (1971~1997)



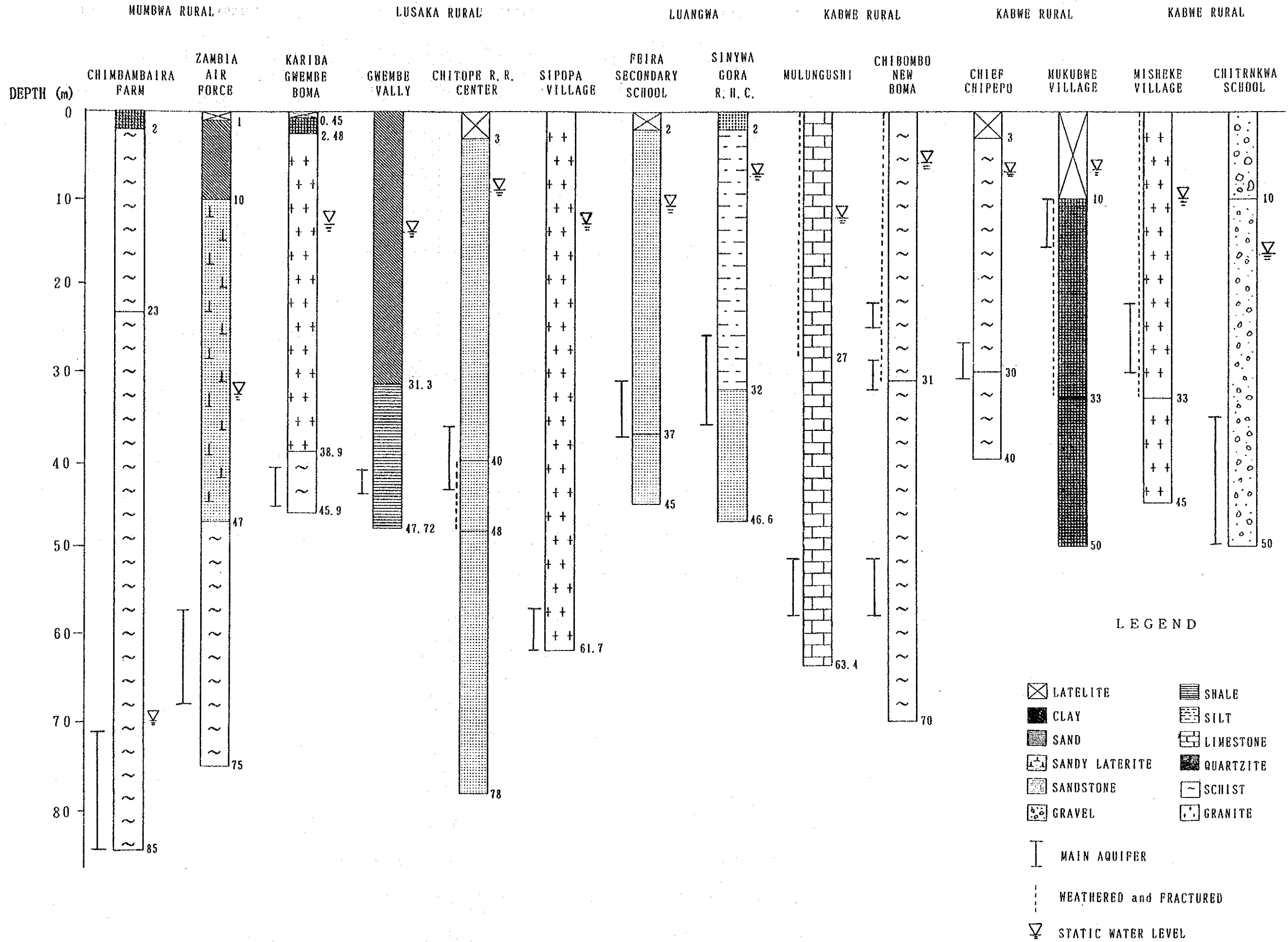
LEGEND

	Alluvium-Laterite	Sand, Gravel, Clay, Laterite	Tertiary to Recent
	Kalahari Group	Sand, Sandstone, Gravel	Tertiary to Recent
	Karoo	Sandstone, Gravel, Mudstone	Upper Carboniferous to Jurassic
	Xisanga	Diorite, Limestone, Shale, Sandstone	Late Precambrian and Low Palaeozoic
	Muva	Shale, Mudstone, Quartzite	Precambrian
	Basement Rock	Gneiss-Schist	Older Precambrian
	Granite		
	Volcanic and Meta-Volcanic	Lithological Units of Various ages	
	Igneous and Meta-igneous		
	Meta-Quartzite		
	Fault		





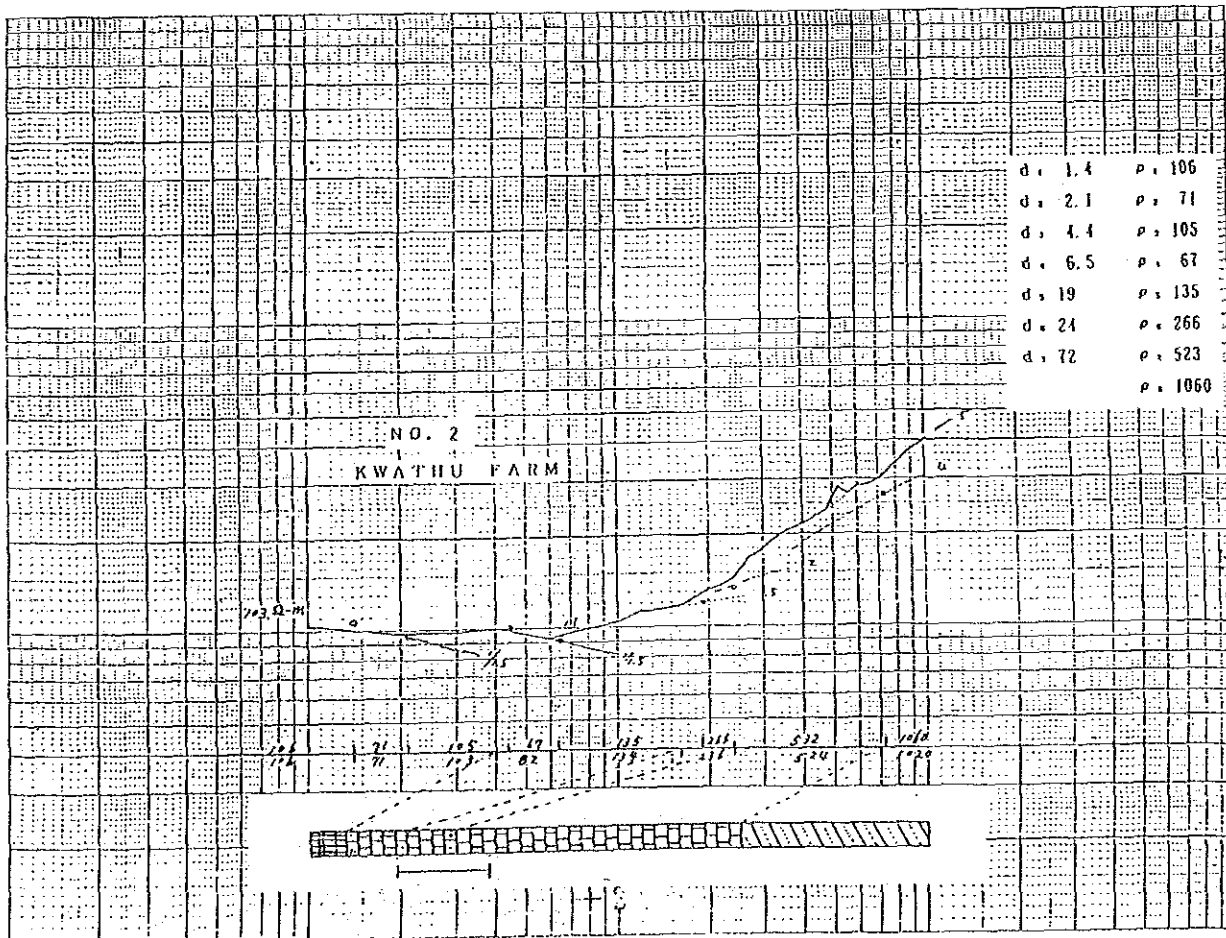
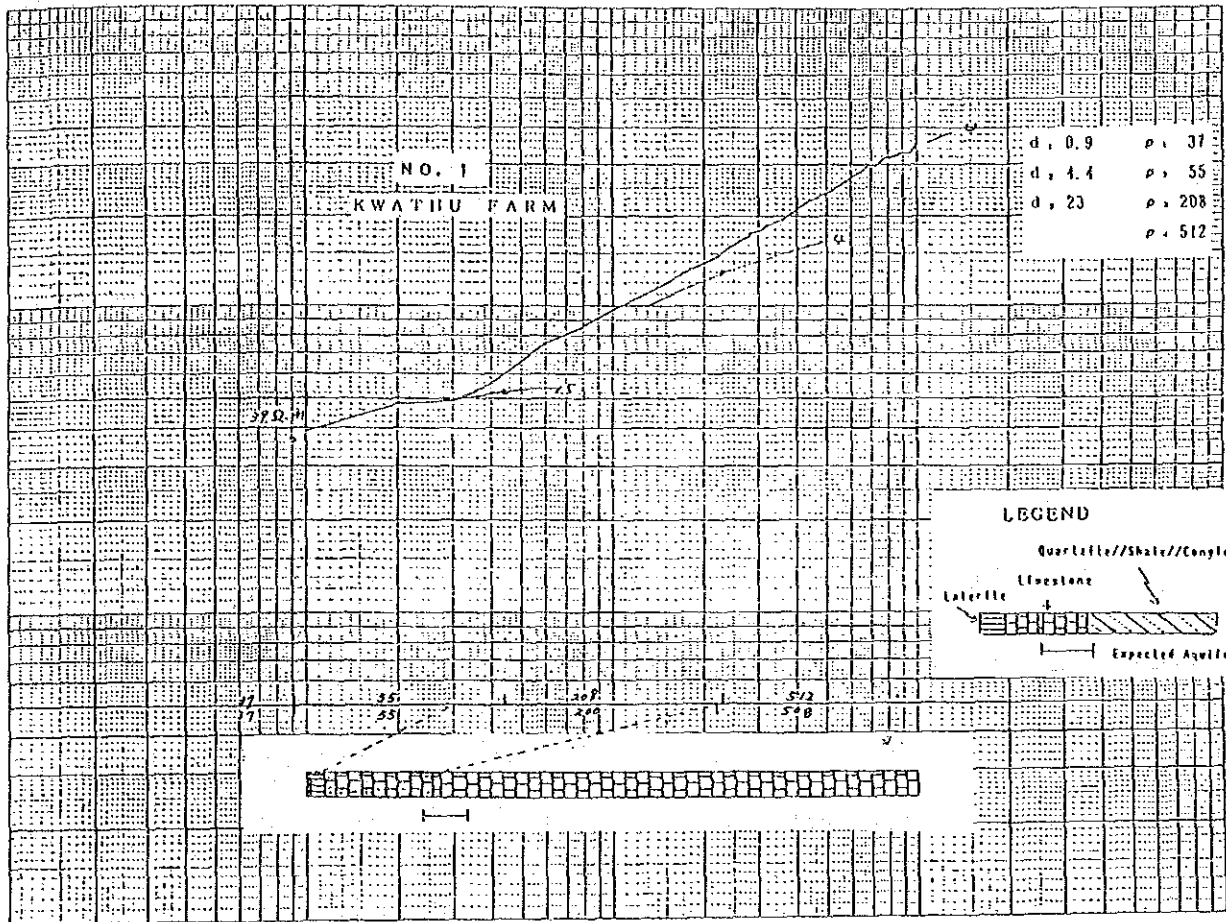
計 画 对 象 地 域 水 理 地 質 柱 状 図



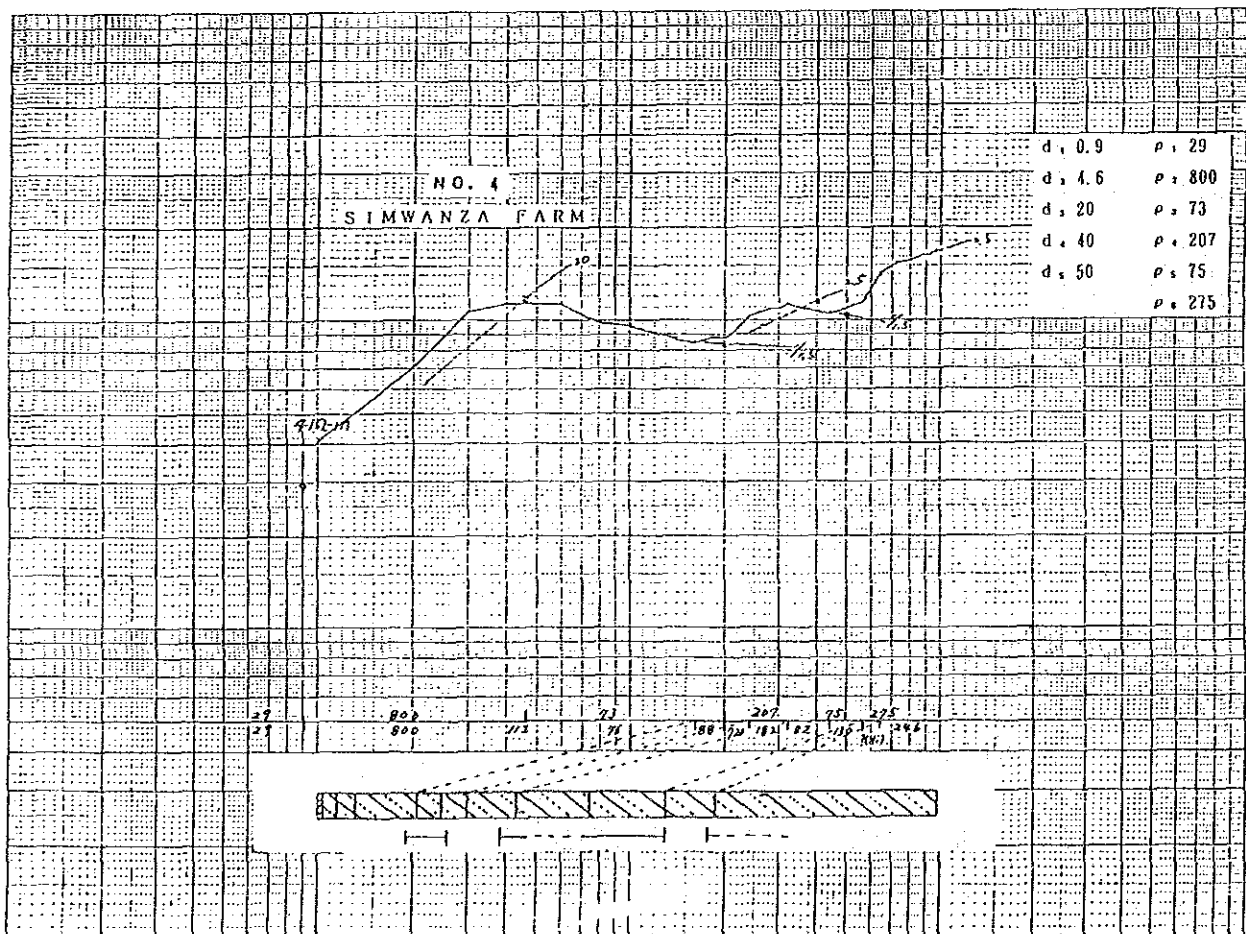
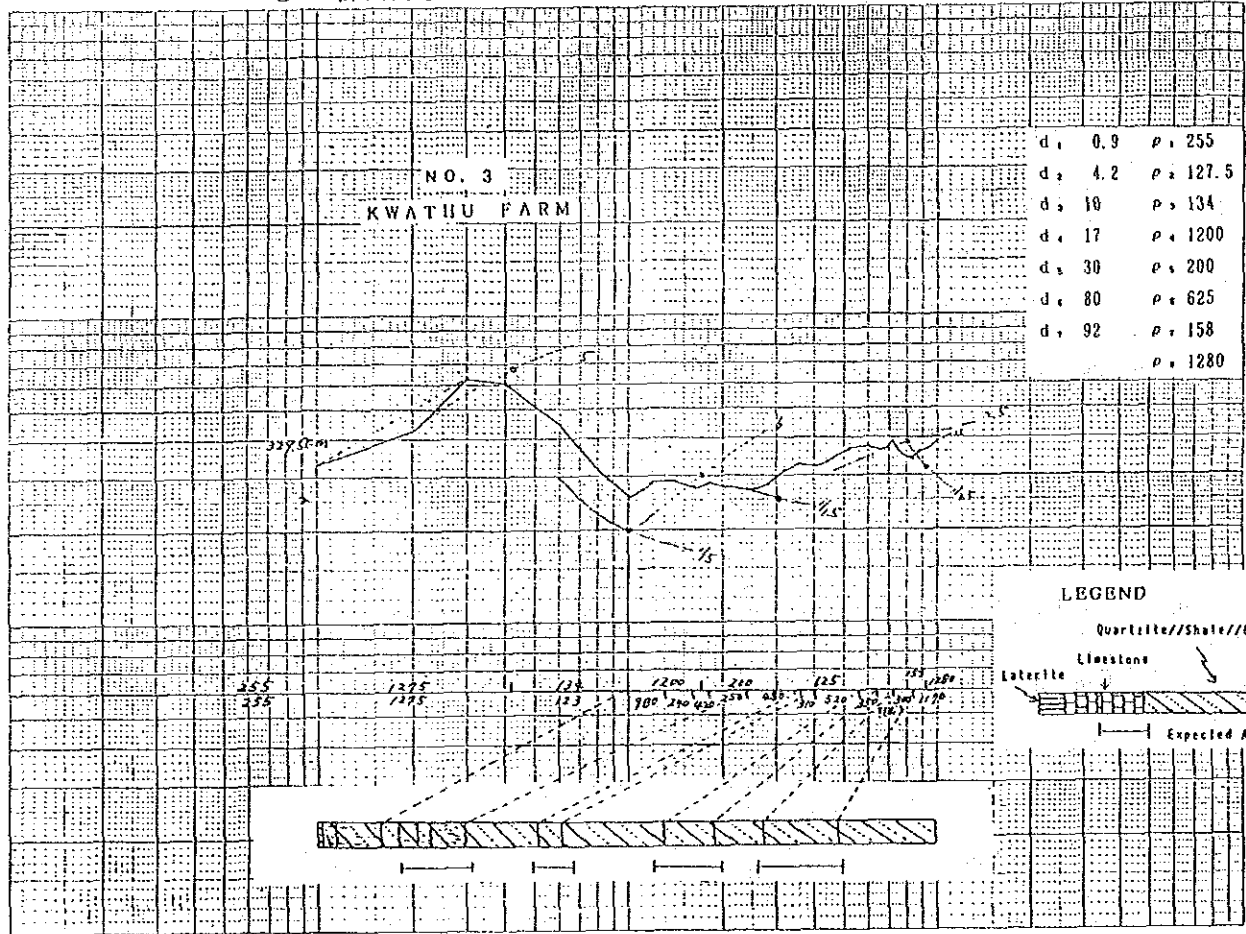
LEGEND

- ⊗ LATELITE
- CLAY
- ▨ SAND
- ▩ SANDY LATERITE
- ▧ SANDSTONE
- ⊙ GRAVEL
- ▨ SHALE
- ▩ SILT
- ▧ LIMESTONE
- ▩ QUARTZITE
- ▧ SCHIST
- ⊙ GRANITE
- | MAIN AQUIFER
- WEATHERED and FRACTURED
- ▽ STATIC WATER LEVEL

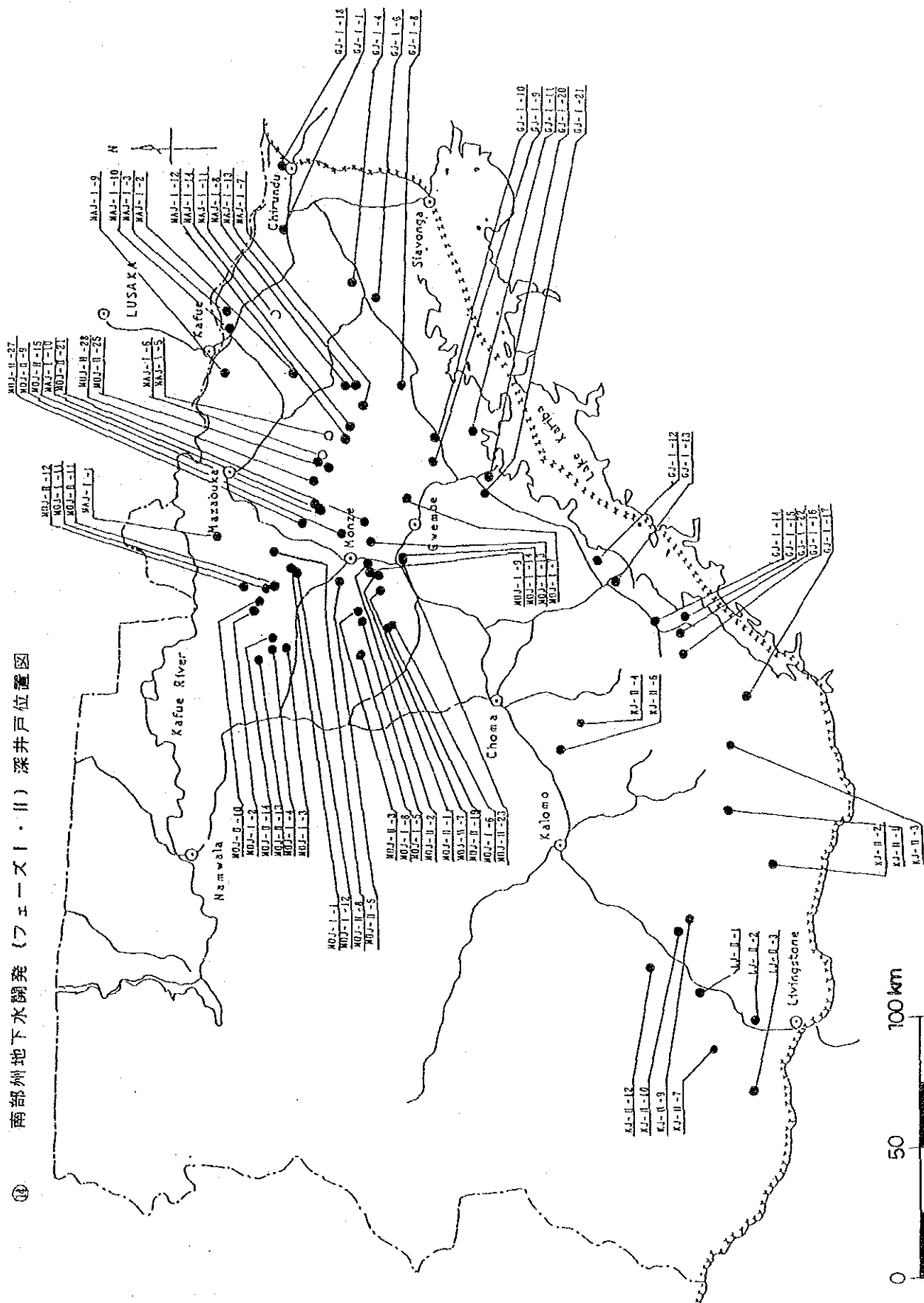
⑬ 計画対象地域の電気探査結果と解析図



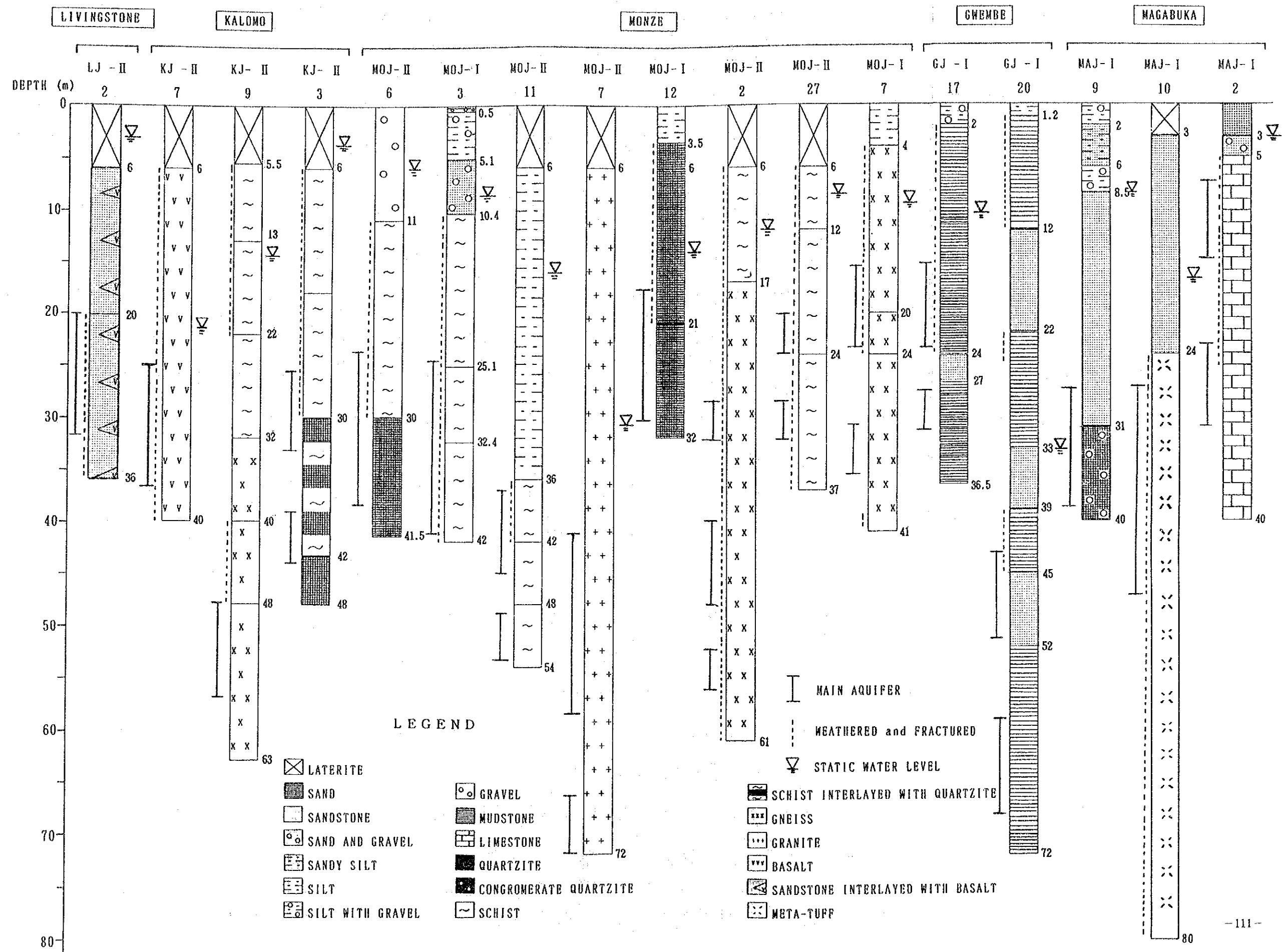
⑬ 計画対象地域の電気探査結果と解析図



⑭ 南部州地下水開発（フェーズI・II）深井戸位置図



南部州水理地質柱状图



⑩ 南部州地下水開発深井戸水理地質評価 (1)

DIVISION	BOREHOLE No.	掘削年度	井戸径 (mm)	井戸深 (m)	揚水量 l/min	静水位 (m)	動水位 (m)	水位降下 (m)	比湧出量 m ³ /d/m	スクリーン位置 (m)	帯水層	フライ層厚 (m)	
NONZE	NOJ-1-1	1987	100	70.0	D R Y							泥岩	3.5
	NOJ-1-2	1987	150	78.5	6.3	5.0	36.3	31.3	0.29	13~16 25~28 34~37 40~43 49~58	片岩	0.3	
	NOJ-1-3	1987	100	42.0	25	8.0	23.1	15.1	1.66	25~41	片岩	10	
	NOJ-1-4	1987	100	40.0	43	10.0	21.8	11.8	5.24	23~29	片岩	1	
	NOJ-1-5	1987	100	36.0	33	9.4	21.6	12.2	3.89	23~35	片岩	3	
	NOJ-1-6	1986	100	40.0	43	3.6	22.1	17.5	3.36	15~19 23~35	片麻岩	3	
	NOJ-1-7	1986	100	40.5	36	9.4	23.3	13.9	3.74	16~24 32~36	片麻岩	4	
	NOJ-1-8	1986	100	32.0	11	3.1	20.9	17.8	0.89	7~19	砂、礫~片岩	9	
	NOJ-1-9	1986	100	52.5	50	4.3	31.1	26.8	2.7	8~12 32~44	片岩	3	
	NOJ-1-10	1987	150	42.0	47	6.5	22.3	15.8	4.29	15~21 27~36	片岩	0	
	NOJ-1-11	1987	100	60.5	20	12.1	20.8	8.7	3.31	40~60	片岩	4	
	NOJ-1-12	1987	100	31.0	150	14.1	21.6	7.5	28.8	18~30	珪岩	4	
	NOJ-1-13	1987	100	40.5	25	12.8	20.5	7.7	4.81	24~40	片麻岩	3	
	NOJ-1-14	1987	100	40.5	200	1.2	12.1	10.9	26.41	32~40	片岩~片麻岩	3	

⑪ 南部州地下水開発深井戸水理地質評価 (2)

DIVISION	BOREHOLE No.	掘削年度	井戸径 (mm)	井戸深 (m)	揚水量 l/min	静水位 (m)	動水位 (m)	水位降下 (m)	比湧出量 m ³ /d/m	スクリーン位置 (m)	帯水層	フライ層厚 (m)	
NONZE	NOJ-II-1	1989	100	49.0	18	6.2	31.6	25.4	1.02	16~25 36~44	片岩	2	
	NOJ-II-2	1989	100	61.0	33	11.3	32.5	21.2	2.24	28~32 40~48 52~56	片岩	5	
	NOJ-II-3	1989	150	43.0	72	10.1	11.4	1.3	79.75	14~18 30~43	珪岩	3	
	NOJ-II-4	1990	100	32.5	12	3.0	26.8	23.8	0.72	15~26 31~36	片岩	5	
	NOJ-II-5	1990	100	40.0	35	5.7	20.1	14.4	3.5	29~41	片岩	6	
	NOJ-II-7	1990	100	72.0	6.7	30.5	40.3	9.8	0.98	42~58 66~72	花崗岩	6	
	NOJ-II-8	1990	100	57.5	15	18.4	31.2	12.8	1.69	24~28 32~36 40~48	片岩	12	
	NOJ-II-9	1989	100	78.0	D R Y							花崗岩	3
	NOJ-II-10	1990	100	37.0	54	6.6	14.8	8.2	10.8	20~32	片岩	5	
	NOJ-II-11	1989	100	54.0	20	15.3	37.0	21.7	1.33	37~45 49~53	片岩	6	
	NOJ-II-12	1989	100	43.0	38	12.7	26.5	13.8	3.97	32~44	シルト岩	6	
	NOJ-II-13	1990	100	60.0	17	13.4	36.9	23.5	1.04	35~54	珪岩	6	
	NOJ-II-14	1990	100	48.0	32	21.8	24.2	2.6	17.7	26~31 35~44	片岩	6	
	NOJ-II-15	1990	100	60.0	D R Y							片岩	10

⑩ 南部州地下水開発深井戸水理地質評価 (3)

DIVISION	BOREHOLE No.	掘削年度	井戸径 (mm)	井戸深度 (m)	揚水量 l/min	静水位 (m)	動水位 (m)	水位降下 (m)	比湧出量 m ³ /d/m	スクリーン位置 (m)	帯水層	ラット層厚 (m)
MONZE	NOJ-II-19	1990	100	50.0	11	7.9	19.1	9.2	1.72	26~34 38~46	片岩	10
	NOJ-II-21	1990	100	39.5	38	12.7	26.5	13.8	3.96	15~23 26~35	片岩	15
	NOJ-II-23	1989	100	37.0	35	5.6	12.8	7.2	7.00	20~32	片岩	7
	NOJ-II-25	1989	100	57.0	30	21.4	30.7	9.3	4.65	24~40	片岩	10
	NOJ-II-27	1989	100	37.5	100	8.7	8.8	0.1	1440	20~24 28~32	片岩 砂岩	6
	NOJ-II-28	1989	100	40.0	30	2.4	28.8	26.4	1.64	8~20	片岩	4
GKEMBE	GJ-I-1	1987	100	78.0	D R Y						頁岩	6
	GJ-I-4	1987	100	79.0	D R Y						頁岩	3
	GJ-I-6	1987	100	70.0	21	7.0	28.6	21.6	1.40	18~25 57~69	頁岩	3 9
	GJ-I-8	1986	100	60.0	6	8.5	45.3	37.2	0.23	35~31	泥岩	0.9
	GJ-I-9	1986	100	60.0	10	13.9	20.9	7.0	2.1	23~31 43~55	泥岩	2
	GJ-I-10	1986	100	56.0	8	3.5	43.7	40.2	0.29	27~43	泥岩	0.5
	GJ-I-11	1986	100	72.5	25	40.06	40.13	0.07	514	60~72	砂岩	2
	GJ-I-12	1986	100	45.0	40	10.1	13.4	3.3	17.4	20~24 28~40	砂岩 泥岩	2
GJ-I-13	1986	100	40.5	50	9.2	12.9	3.7	19.4	32~44	泥岩	6	

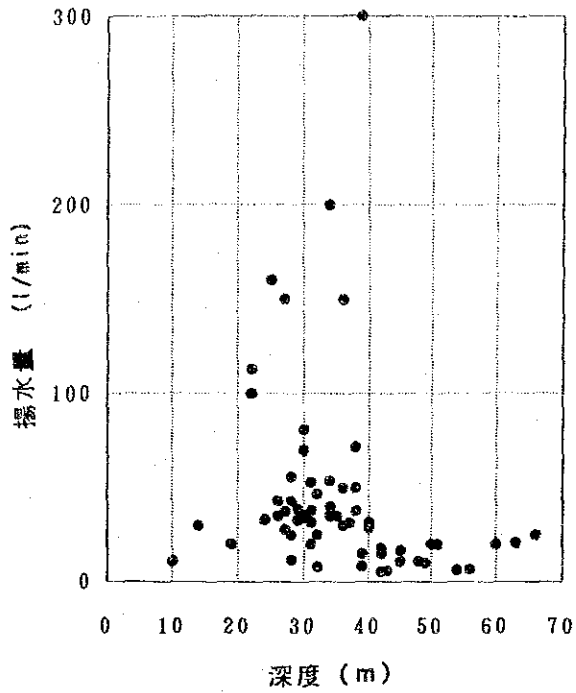
⑪ 南部州地下水開発深井戸水理地質評価 (4)

DIVISION	BOREHOLE No.	掘削年度	井戸径 (mm)	井戸深度 (m)	揚水量 l/min	静水位 (m)	動水位 (m)	水位降下 (m)	比湧出量 m ³ /d/m	スクリーン位置 (m)	帯水層	ラット層厚 (m)
GKEMBE	GJ-I-14	1986	100	36.5	70	9.2	12.7	3.6	28.4	16~20 29~32	頁岩	0
	GJ-I-15	1986	100	82.0	15	8.3	28.5	20.2	1.1	34~60	砂岩~頁岩 泥岩	6
	GJ-I-16	1986	100	40.5	35	8.8	21.2	12.4	3.7	12~16 28~36	砂岩 砂岩	12
	GJ-I-17	1986	100	36.5	180	11.3	15.4	4.1	55.7	16~29 28~32	泥岩	2
	GJ-I-18	1986	100	79.0	D R Y						泥岩	0.5
	GJ-I-20	1986	100	72.0	20	32.9	43.2	10.3	2.8	43~51 59~67	泥岩 砂岩	1.2
	GJ-I-21	1987	100	48.0	150	29.3	32.0	2.7	80.1	31~43 32~36	砂岩	0.5
	GJ-I-22	1986	150	48.0	300	4.9	6.7	1.8	235	36~45	砂岩~泥岩	0.3
MAZABUKA	MAJ-I-2	1987	100	40.0	37.5	2.9	27.9	25.0	2.16	7~16 23~31	石灰岩	5
	MAJ-I-3	1987	100	73.0	D R Y						片麻岩	0
	MAJ-I-5	1987	100	36.0	39	6.6	20.6	14.0	4.02	23~35	砂岩	3
	MAJ-I-6	1987	100	36.0	20	5.3	16.9	10.6	2.48	23~35	片岩	3
	MAJ-I-7	1987	100	37.0	113	20.3	21.4	1.0	160	20~32	片麻岩	3
	MAJ-I-8	1987	100	73.0	D R Y						片麻岩	3
	MAJ-I-9	1987	100	40.0	53	8.4	35.3	26.9	2.84	27~39	砂岩	8.5

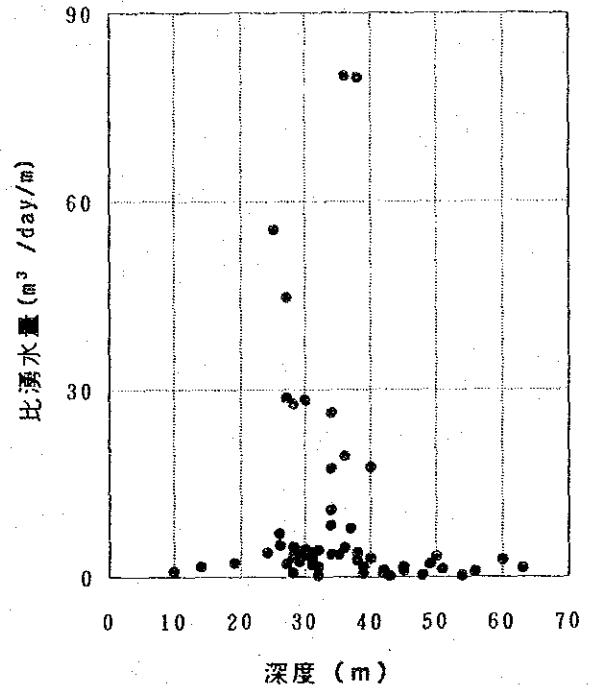
⑩ 南部州地下水開発深井戸水理地質評価 (5)

DIVISION	BOREHOLE No.	掘削年度	井戸径 (mm)	井戸深 (m)	揚水量 l/min	静水位 (m)	動水位 (m)	水位降下 (m)	比湧出量 m ³ /d/a	スクリーン位置 (m)	相水層	55541層厚 (m)
MAZABUKA	MAJ-I-10	1987	100	79.5	5.6	16.9	31.1	14.2	0.56	27~47	輝緑岩	3
	MAJ-I-11	1987	100	40.0	32	9.2	33.0	23.8	1.93	23~39	花崗岩質片麻岩	0
	MAJ-I-12	1987	100	68.5	—	1.5	—	—	—	15~35	片岩	2
	MAJ-I-13	1987	100	33.5	20	4.3	17.1	12.7	2.26	9~21	片麻岩	3
	MAJ-I-14	1987	100	70.0	D R Y					片麻岩	0.5	
KALONO	KJ-II-1	1990	100	61.5	D R Y					花崗岩	6	
	KJ-II-2	1990	100	60.0	8.7	23.2	45.4	22.2	0.564	29~48	硅岩	6
	KJ-II-3	1990	100	48.0	29	4.0	17.7	13.7	3.05	26~34 37~43	片岩 硅岩	7
	KJ-II-4	1990	100	42.0	35	4.0	10.2	6.2	8.13	26~38	片岩	6
	KJ-II-6	1990	100	41.5	81	6.0	32.2	26.2	4.45	24~38	片岩 硅岩	12
	KJ-II-7	1990	100	30.0	56	3.4	6.3	2.9	27.8	24~32	玄武岩	6
	KJ-II-9	1990	100	63.0	11	13.6	51.9	38.3	0.414	48~57	片岩, 片麻岩	6
	KJ-II-10	1990	100	61.5	D R Y					花崗岩質片麻岩	6	
	KJ-II-12	1990	100	42.0	32	10.9	16.8	5.9	7.81	26~57	片岩, 片麻岩	6
	LIVING-STONE	LJ-II-1	1990	100	60.0	D R Y					シルト岩	6
LJ-II-2		1999	100	36.0	28	21.3	22.2	0.9	44.8	21~32	砂岩, 玄武岩	6
LJ-II-3		1990	100	60.0	D R Y					シルト岩	8	

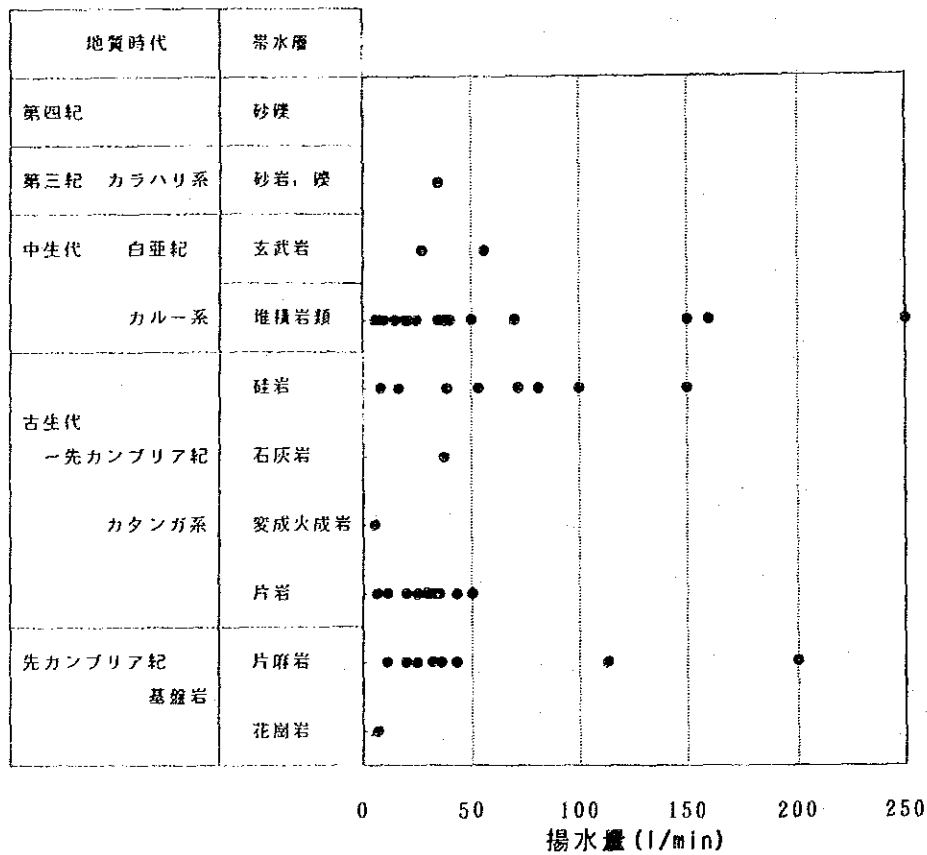
⑰ 南部州地下水開発における揚水量と帯水層深度との関係



⑱ 南部州地下水開発における比湧水量と帯水層深度の関係



⑲ 南部州地下水開発における帯水層と揚水量の関係



㊦ 南部州地下水開発における帯水層の分布

井戸数 (本)

地質時代	帯水層	10	20	30	40	50
第四紀		(0 %)				
第三紀 カラハリ系	砂岩, 礫	(2 %)				
中生代	白亜紀	(2 %)				
	カルー系	(24 %)				
古生代 ～先カンブリア紀	カタンガ系	(11 %)				
	砂岩	(2 %)				
	石灰岩	(1 %)				
	変成火成岩	(46 %)				
先カンブリア紀 基盤岩	片岩	(9 %)				
	片麻岩	(3 %)				
	花崗岩					

④ 計画対象地域水質分析

No.	サ名・採水日	採水区分	pH	Cl ⁻ (mg/L)	全硬度 (mg/L)	Ca (mg/L)	Mg (mg/L)	SO ₄ ⁻ (mg/L)	M-74加度 (mg/L)	NH ₄ -N (mg/L)	NO ₂ -N (mg/L)	NO ₃ -N (mg/L)	F ⁻ (mg/L)	T-Pe (mg/L)	大腸菌数 (N/mL)	電気 伝導度 (μs/cm)
1.	Jusaka 12.11	地下水	6.93	15.2	294	76.4	25.0	9.5	244	<0.08	3.5	<0.01	<0.5	<0.03	0	600
2.	Chibomb 12.13	地下水	7.18	9.1	327	86.0	27.2	9.4	311	<0.08	1.5	<0.01	<0.5	0.04	0	520
3.	Kaunga 11.28	地下水	7.09	1.9	112	25.2	11.9	<5	122	<0.08	<0.1	<0.01	<0.5	0.07	3	290
4.	Kabwe 12.4	地下水	7.14	2.1	201	56.0	14.8	<5	198	<0.08	0.4	<0.01	<0.5	<0.03	10	420
5.	Chongwe 12.12	地下水	7.36	26.6	267	72.8	20.6	13.5	271	<0.08	0.1	<0.01	<0.5	0.30	15	550
6.	Ndola 12.6	地下水	7.35	13.2	274	50.4	35.9	30.0	228	<0.08	0.1	<0.01	<0.5	0.03	0	440
7.	Serenge 12.6	地下水	7.12	1.0	6.0	0.8	0.9	<5	35	<0.08	<0.1	<0.01	<0.5	0.90	2	220
8.	Luangwa 11.28	河川水	6.91	2.2	55.6	12.0	6.2	7.0	46	<0.08	<0.1	<0.01	<0.5	0.16	3	130
水質基準		WHO	7.0~8.5	200~ 400	100~ 500	75	50	200	-	0.5	-	40~80	1~0~ 1.5	0.3	MPN 10	2,000
		JAPAN	5.8~8.6	200	300	-	-	200	-	-	同時に検出不可	10	0.8	0.3	0.3	陰性

JICA