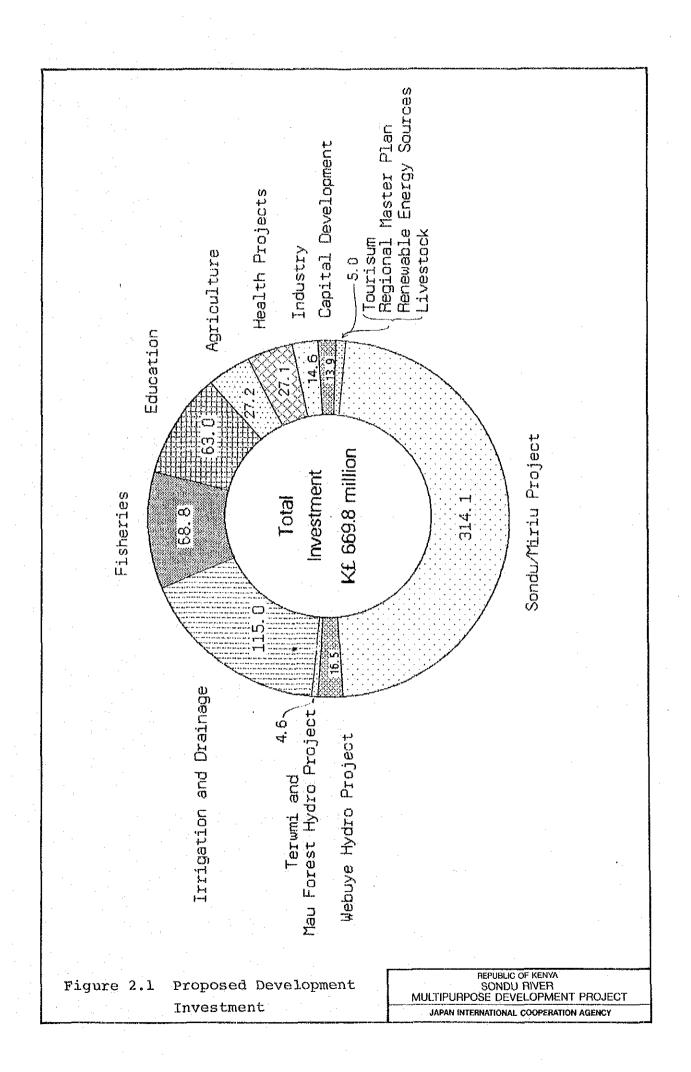
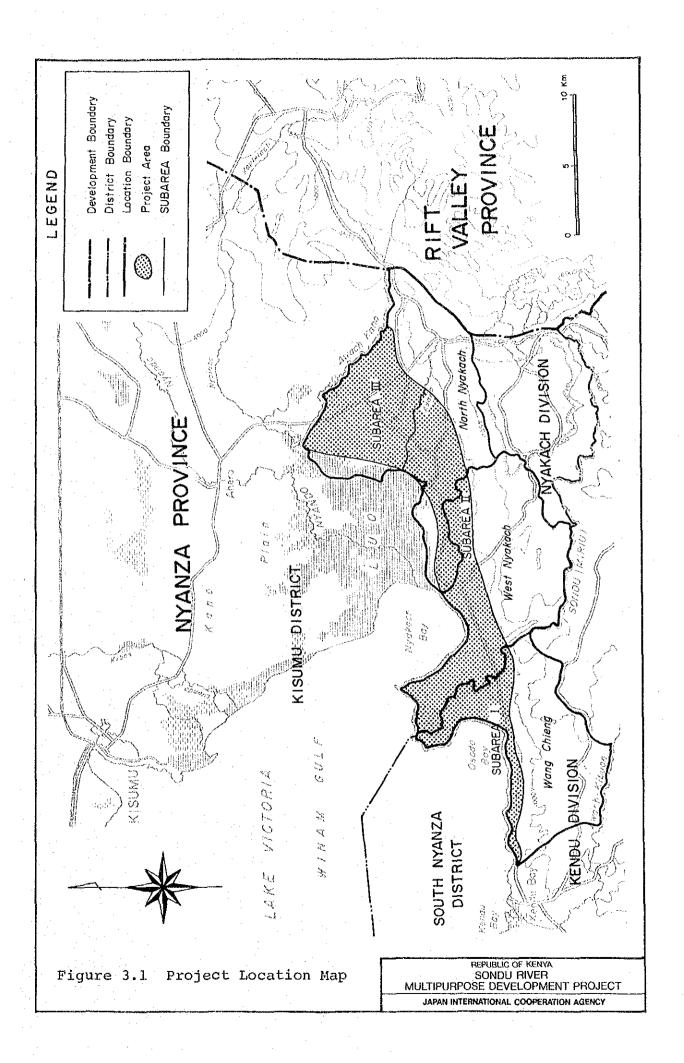
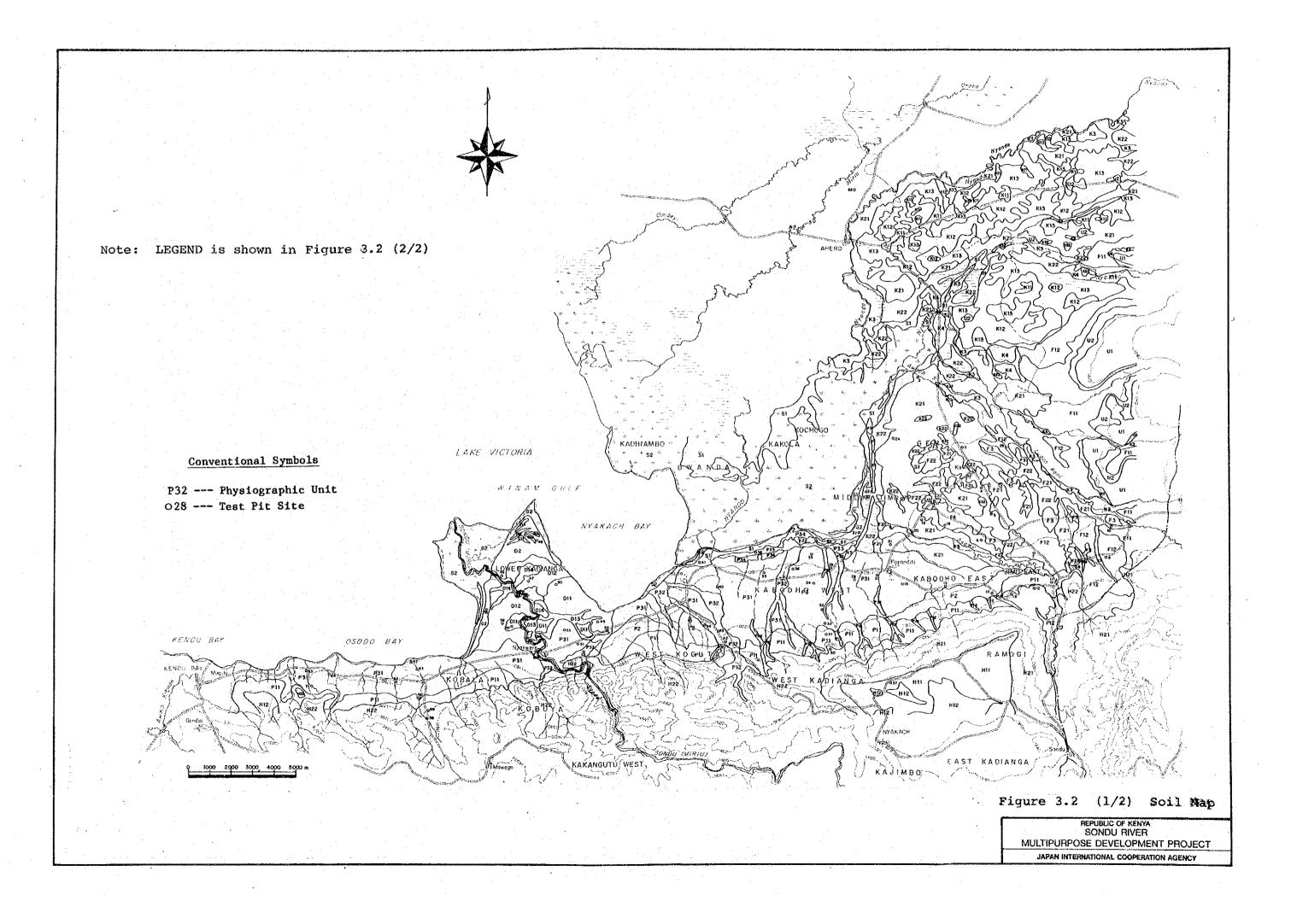
## FIGURES





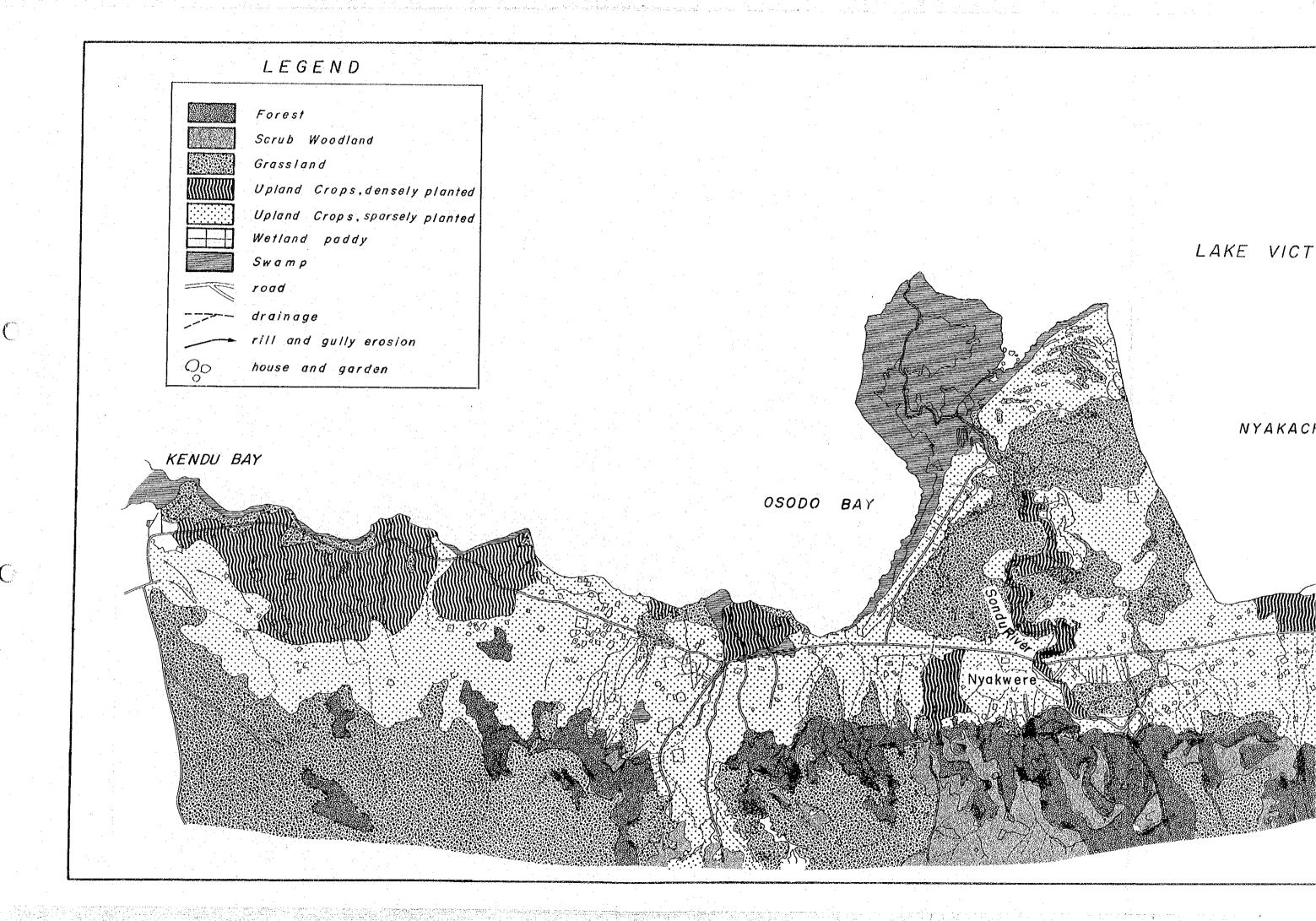


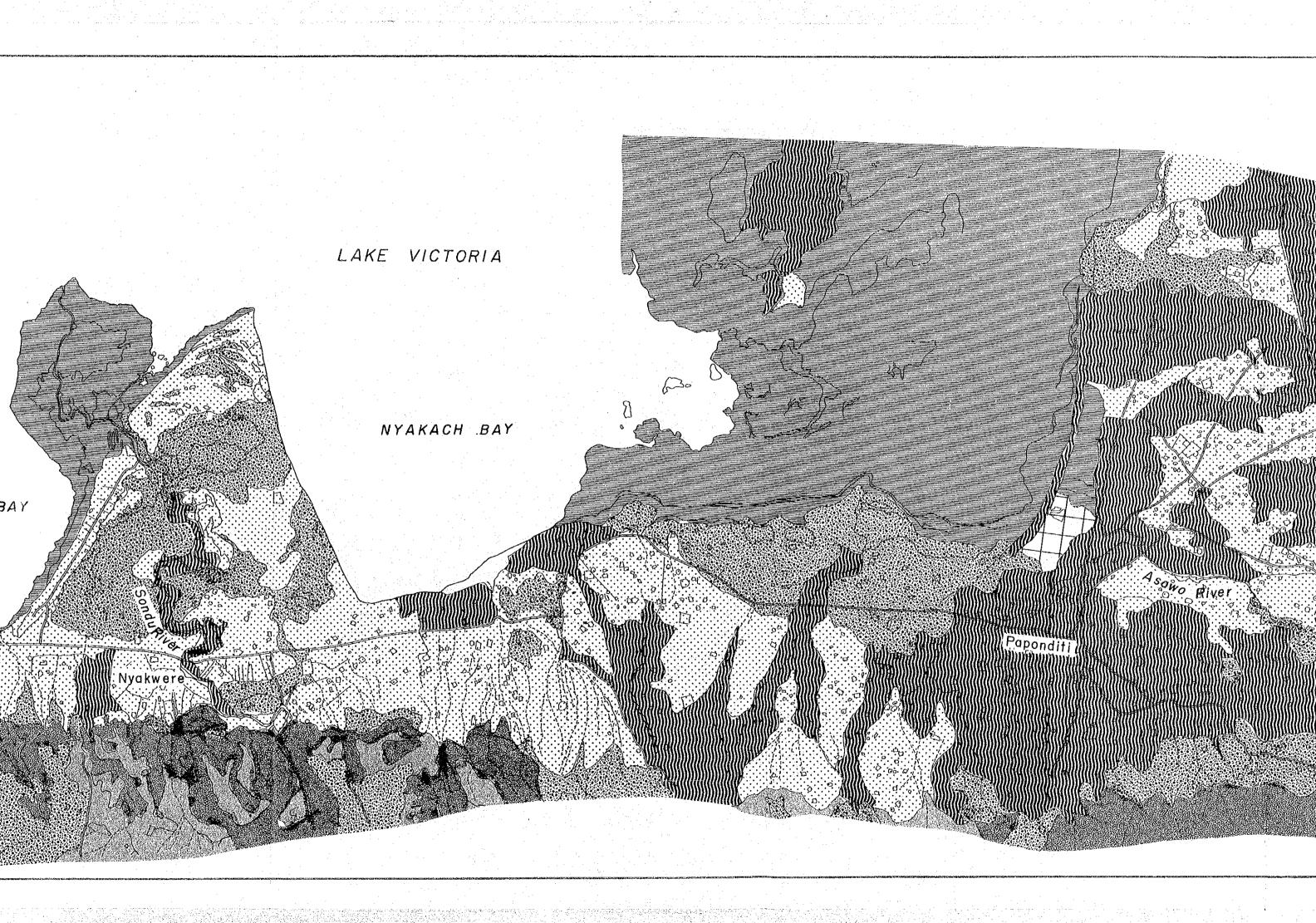
<b>L</b>											
	LAND FORM	SUBDIVISION	וונ	HAPPING UNIT	S. Op.	CONDITION	COLOUR	TEXTURE	DEPTH	SOIL UNIT	EXTENT =/ (ha)
	6.2	Plateau mainly phonolite	H	higher parts with irregular microrelief	င်း		dark reddish bro⊯n to dark red	friable clay. Ironstones	dəap	Ironstone Sails Nito-rhadic Ferralsols	0
	nills intermediate	H4	H12	lower bottom lands		*e11	dark red	friable clay over petro-plinthite	mod. deep	Chromic Cambisols Rhodic Ferralsols	D
	igneous rocks			phonolite, highly	-	excessively				Mindle Ferratsols	3
	I	Escarpaent	ž	resistant to erosion	ķ		derk red	loam to clay, rocky	shallow	Ironstone Soils	0
		142	H22	granddorite, granite	25.	excessively well to well	dark red to brown	friable sandy clay loam to clay, rocky	shallow	Lithosols Ironstone Soils	O
		Transportional	P11	convex elopes	4	ssiv	dark reddish brown	oravelly losm	тод. свер	Ferralic Arenosols	964
		colluvial footslopes			1	well to well	to yellowish brown			Ironstone Soils	07
<del> </del>	PIEDMONT PLAIN Coalescing	<u>-</u>	P12	× 1	0-2	moderately well	dark red to brown	clay loam to loam	very deep to deep	Chromic Cambisols Ferralic Arenosols Ferralo-chromic/orthic Luvisols	C
	alluvial and colluvial fans	Midslopes P2	2	transitional unit between P1 and P3	0-5	well.	reddish brown to yellowish brown	clay loam	daap	Ferralic Arenosols Chromic Cembisols	420
	<u>a</u> .	Alluvial toeslopes	P31	almost flat terrain		moderately	reddish brown (black to dark	clay loam	qeep	Eutric Regosols	4 770
		overlying ald	25.0	Streems(cullies) hank	5		grey subsoil)	clay loan		Gittie Reasons	
		lacustrine				-	very dark brown	Total	daan (Jax	Chromic Cambisols	650
<del></del>		deposits	P33	old streem courses	7	poorly	grey to dark grey brown	sandy clay loam	deep	Eutric Regosls Chromic Cambisols	180
		æ	P34	raised lake beach	25	well to poorly	very dark brown to grey	silty clay to sandy clay loam	mod. deep	Eutric Regusols	120
		Deltaic deposits	5	terrance-like	O	67]	brown to dark grey	silty clev loam	reet	Calcario Fluvisols,	כנום
		widely extending		higher land						sodic phase	250
- Postalez 1	CUSPATE DELTA	terrain formed	D12	recent flood plain	6	poorly to mod. well	brownish grey to brownish black	silty loam	deep	Ualcaric Fluvisols, sodic phase Eutric Fluvisols	සුව
	fluvium, partly lacustrine	in the river	D13	former river courses	0	poorly to	brownish black	clay	3	Eutric Fluvisols,	180
	deposits	mouth of Sondu		depression	_			utay to sirty clay	0.00	sould phase	
	Α,	10	<b>614</b>	seasonally submarged	0	poorly	dark grey to black	clay	deeb	sodic phase	280
		Send ridges	22	higher lands(1–2m) on unit Dl	-	well to expessively well	dark brown to yellowish brown	sandy clay to loamy sand	mod.deep to deep	Eutric Regosols Chromic Cembisols	430
سمير سبط	UPLANOS	Platform U1	5	footslopes of phonolite	2-8	axcessively	reddish brown to greyish	grerelly to stony clay	very shallow	Chromic Cambisols Ironstone Soils	0
	lavaflow hill of kericho shonolite	Slone					dayl area brown	gravelly slow to			
	n	orațe UZ	n5	edge and flank of Ul	0-2	well to poorly	daix yrey blown to reddish brown		shallow	Ironstone Soils	30
			F11	extending fon base (phonolite) U	1-2	poorly	very dark grey	sandy clay to clay	deep	Chromic Vertisols Pellic Vertisols	0
		7 an dasse	F12	lower alluvial fan base	4	poorly	black to very	clay	deep	Chromic Vertisols	573
				antropological strip			very dark brown			Clear vertisors	
	fan base	Old streames	F21		<u>.</u> .	poorly	grey to dark grey brown	sandy clay loam	даар	breylc Luvisois, sodic phase	460
	colluvial apron	25.	F22	ald stream courses. below colluvial apron	02	poorly	dark grey brown	clay	дээр	Pellic Vertisols	620
	<b>L.</b>	Higher sites of colluvial aprons	F3		1-4	moderatelywell to poorly	dark brown. dark greyish brown	sendy clay to sendy loam	азэр	Eutito Regosols	240
		Micro-ridges F4	Ŧ.		1-3	moderately well to impeded	dark brown, reddish brown	coarse clay loam to sandy loam, gravel	тоб. deep	Eutric Fluvisols Eutric Regosols	061
		Slightly higher lands mainly	ĸ	flatish summit of minor ridge	0-2	1mpeded	dark brown to greyish brown	gravelly sandy clay to clay loam	very shallow	Vertic Cambisols	0
		alkarine and	K12	gently sloping land	1-3	poorly	very dark brown to grey	clay	shallow	Pellic Vertisols, peralithic	6
	LACUSTRINE PLAIN	mudstone	K13	depression	0-2	poorly	very dark grey to brown	olay	moderately	Pellic Vertisols	0
	lacustrine deposit		r2	base level	o	poorly	very dark grey	clay	verý desp	Pellic Vertisols Chromic Vertisols	2, 490
	and mudstone material	terrain lacustrine deposits K2	K22	receiving drainage	C	very poorly	very dark grey to black	olay	very deep	Pellio Vertisols Eutric Gleysols	630
Fi	¥	Active stream benks K3	2	irregular micro-relief	0-2	well to poorly	very dark brown to grey	clay to silty clay	moderately deep	Eutric Fluvisols	022
gur		Old levee	*	slopy mound, uneven	O	moderately well to poorly	very dark brown to dark greyish brown	sandy clay loam		Dystric Regosols, saline phase	0
∋ 3.		Raised lake beach K5	25		0-2	well to poorly	vary dark brown to grey	silty clay to sandy clay loam	moderately deep	Eutric Regosols, saline-sodic phase	50
2	SWAMP covered by papyrus	Seasonal swamp S1	15		1-2	very poorly	very dark grey to black	clay	very deap	Pellic Vertisols Eutrio Greysols	C
(2/	and reeds S	Permanent swamp S2	8		0	very poorly	very dark grey to black	peaty	very deep		O
2)	/ indicating are	indicating area extent of each mapping with in the Project	ing with i	n the Project area with 13,980ha	980ha						

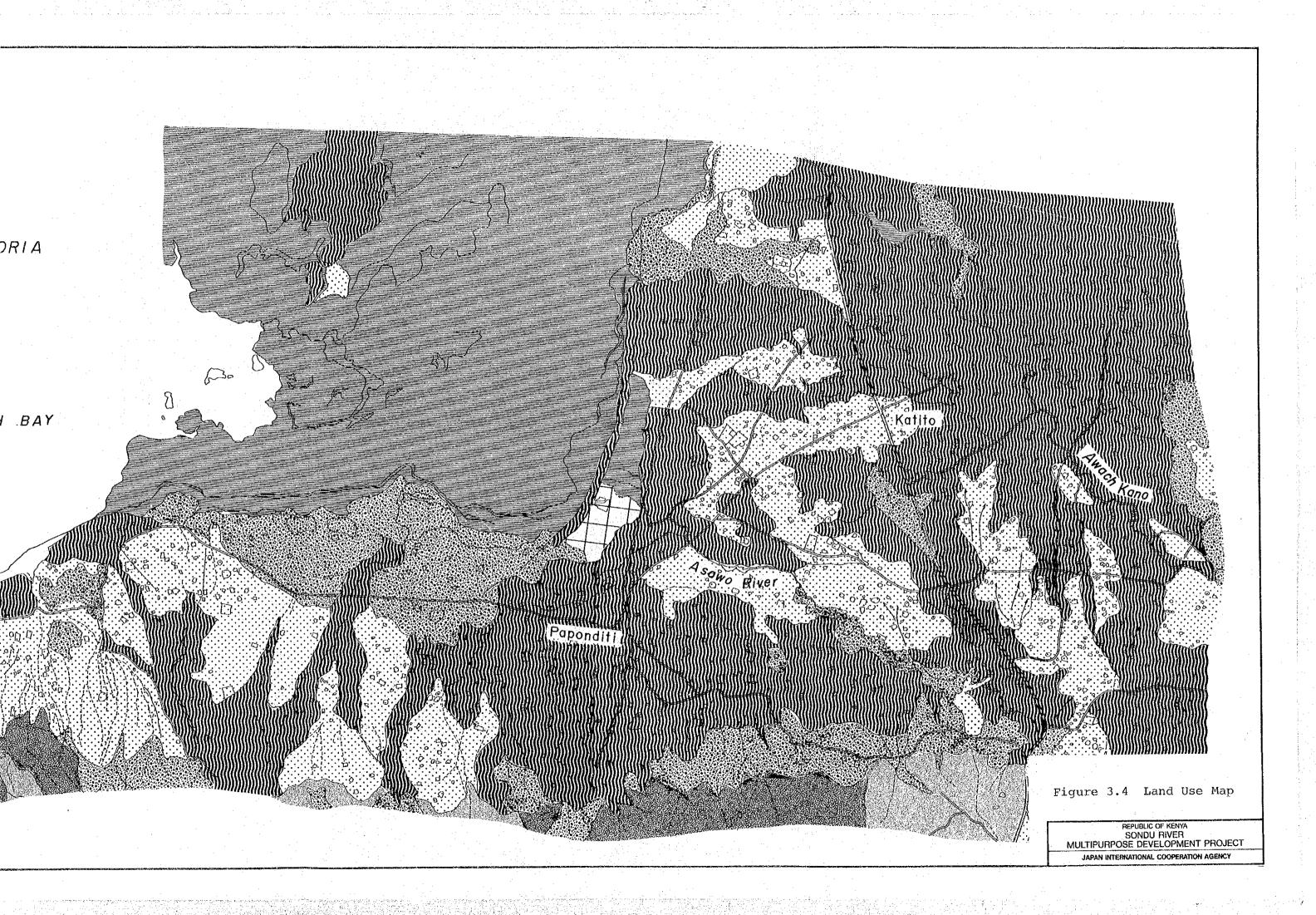
(2/2) Soil Map

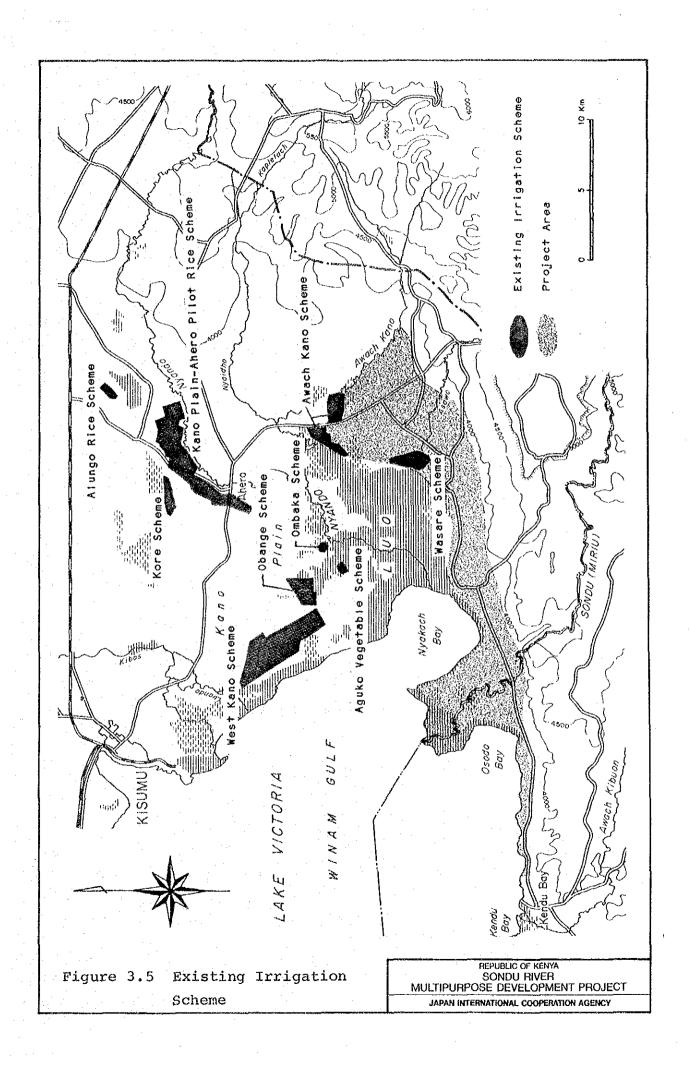
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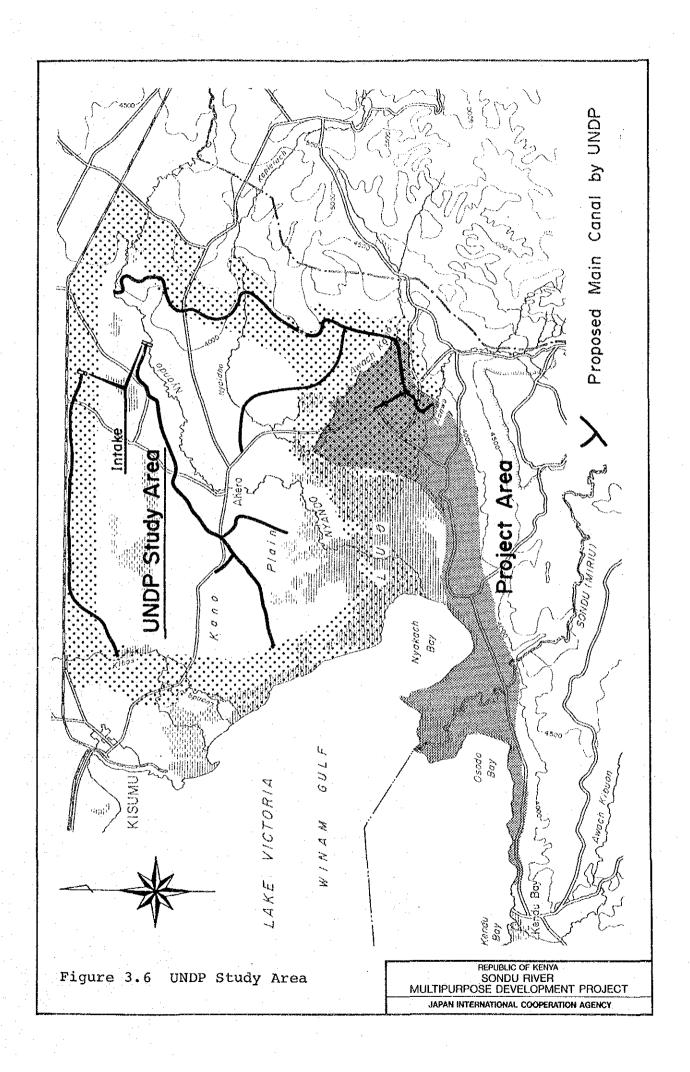
	Nyondo
Mapping Suitability Physiography Cropping Subarea (ha) Symbol Class Pattern I II III Total	H21/H211
Symbol Class Physiography Pattern I II III Total  S2sd/S1 K21 A 0 290 1,700 1,990	NZI/NZII NZI/NZII NZI/NZII NZI/NZII
S3d/S1 K22 B 0 70 430 500	NZE/NZII
N2d/S3td S1	1962.65 1 1962.6
S2t/S3t P31 P32 C 950 3,720 1,380 6,050  S3t/N2st P2  S3d/S3t F11 F12 F22  S3sd/S3st K13  S3d/N2t F3	\$5347531 \$3347 \$33
\$3std/N2st F4  \$3sd/N2t K12	\$34/531
Total 950 4,080 3,510 8,540	554/31 536/534 836/534 836/534 836/534 836/534 836/534 836/534 836/534 836/534 836/534 836/534 836/534 836/534
Note; 1. Land suitability classes are indicated by the following symbols;  S1-highly suitable, S2-moderately suitable, S3-margenally suitable and  N2-unsuitable	25 11 3 3 4 5 5 11 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5
2. Limitations are indicated by the following letter suffixes; s-soil (effective depth, texture, alkalinity and salinity), t-topography (slope and microrelief) and d-drainage conditions. (see Tables 5.1 and 5.2)	21 22/551
3. Suitability classes for upland crops and for wetland rice are shown in the  symbol " upland crops / rice ".	SALEST STATES
4. Proposed cropping patterns A, B and C are sum marized below.  A - a single cropping of rice and upland crops (maize, beans and greengram).  B - a double cropping of rice and upland crops (maize, beans and greeogram) VICTORIA  C - upland crops only (cotton, maize, beans and groundnuts).	NEALWEST NEA
WINAM GULF  BUNGANEN  STREET	102 M2
SSI/MEN SSI/ME	\$34/531 \$34/531 \$34/531 \$34/531 \$34/531 \$34/531
N28/N28 N28/N28 N28/N28 SELSS NA B D H30/35, W S T SELSS NA SELS NA SELSS N	121/1121 O9F. 1
KENDU BAY  OSODO BAY	CuGrtmgur Coor
HENDU BAY MODIL SPORT RELIVIOUS SELIVES SELIVE	
Gendig 1220 Condition 1220 NYAKACH	
SONDU IMIRIU 1 1000 1000 1000 M KAKANGUTU WEST 1000 M KAKANGUTU WEST 1000 M KAJIMBO 1500 M	Land Suitability
	Classification Map  REPUBLIC OF KENYA SONDU RIVER
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		Jan.	Feb.	Mar.	Apr	Моу.	Jun.	Jul.	Aug	Sep.	Oci.	Nov.	Dac.
Pollern A				1007			1,00	404/	/	٥		\   	1
Rice Green Gram	O. 8 ha x Once O. 8 ha x Once		/s <del>-</del>	See10 Por 10 100 S	001/00/0	۳. د د د د د د د د د د د د د د د د د د د	la via	10 1 10 10 10 10 10 10 10 10 10 10 10 10	<b>/</b>	ollio e	Green Gram	Ž	Horvesting /
			7	~				Har	] 				
Molze & Beans	O.8 ho x Twice	7/	3000/100	See d'ing of M.   800,000	Beon.	Bedne	100 8 001 10		/or May.		Molze B	Васпе	7
			1	13/5					1				
Fodder	O.4 ha Nopier												
Pallern B			1					/	1				
80 ca e co	O. e. ho. c.		-			e o		/	<i> </i>		Green Gram	Ë	7
200 Paris	٠.٠			/					1	/			
Maize & Baons	0.6 hs x 0.06 0.8 hs x 0.06	/			Maize	ze & Boons		/			ec ec	Rice	
			1						1	/			
Fodder	0.4 ha					Fodder							
Poltern C			7				, Adv	Harvesting					
Cotton	<b>.</b>	/				Col10n	. ·	Period	/	/			
Maire & Beone	×	/								/		Groundhul.	
Groundaut	i, ti ha x Once		V .	/	Maire	8. Beans		/			_		
			1						/				
Fodder	O.4 he					Fodder							
	111					•			•				

Rice, growth period, 135 days, nursery singe for about 3 weeks, water in the field will be drained 2 weeks before harvesting. Green Grem, growth period, 120 days, harvesting period lasts for about 1 month, Notes:

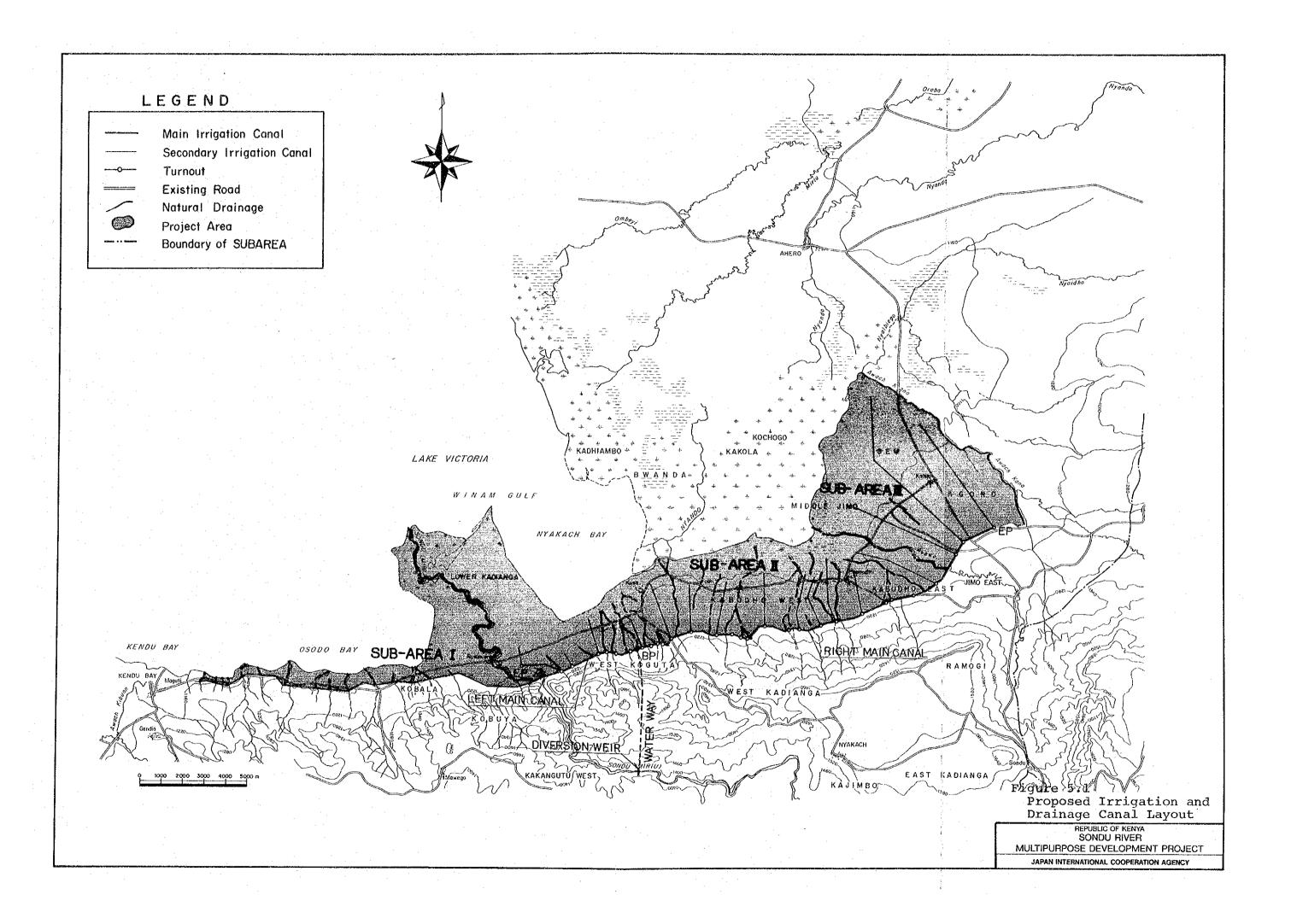
Maize, growth period, 135 days. Beans, growth period, 105 days, planted 2 weeks later than sawing of maize, intercropped with maize. Cotton, growth period, 150 days, harvesting lasts for about 1 month,

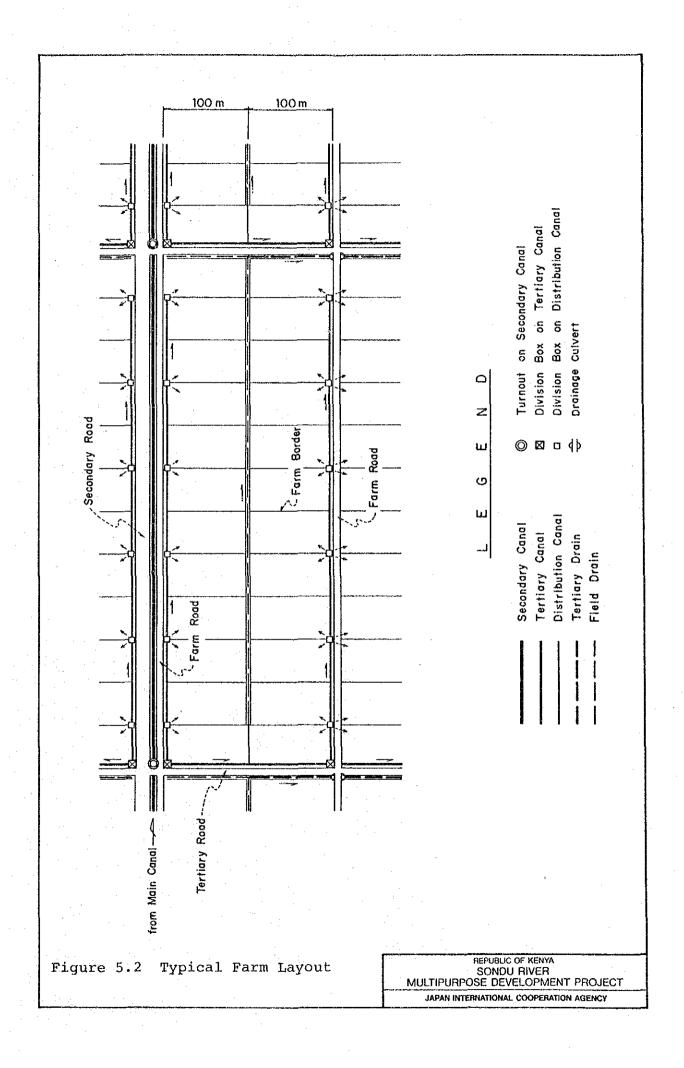
Groundnut growth period, 120 days,

Fodder crops, Napier and Alfaifa, Napier is cut at every 45 days interval, and alfaita is cut at every 60 days, respectively, both are planted every 4 years.

Proposed Cropping Figure 4.1 Patterns

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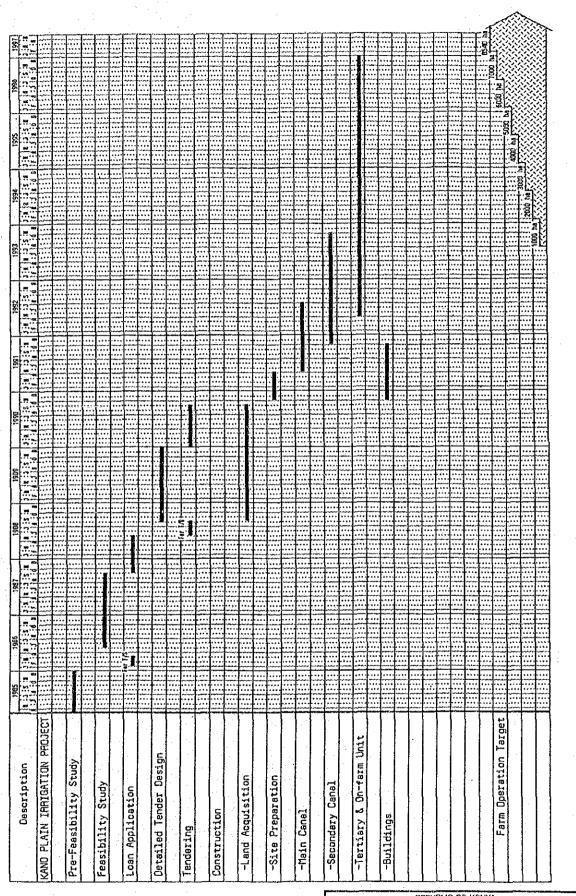


Figure 5.3 Tentative Implementation Schedule

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