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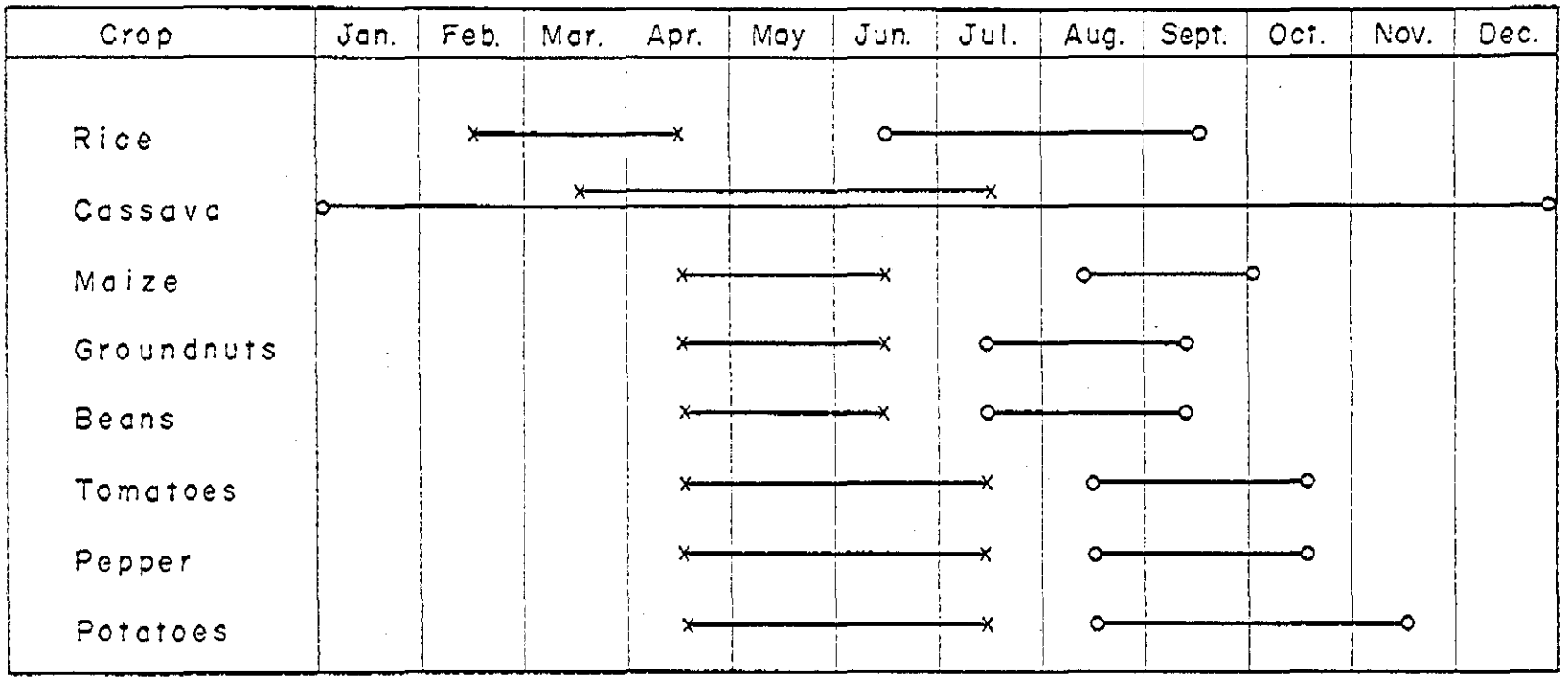
Fig. 3-1 PRESENT CROPPING CALENDAR OF MAJOR CROPS

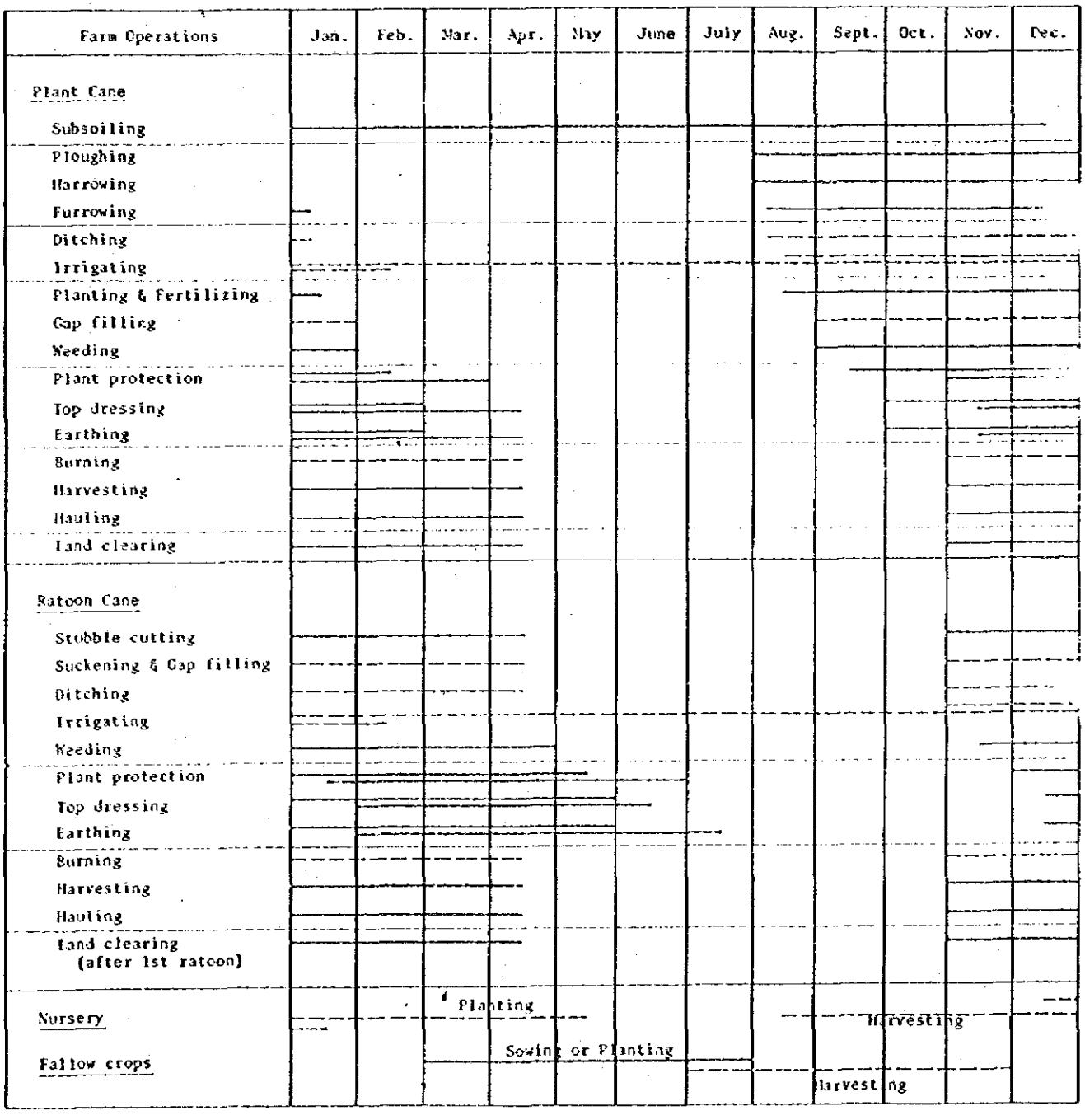


Source : Agricultural Extenision Office, Sogakope district

× —— × Seeding period

○ —— ○ Haruesting period

Fig. 4-1 PROPOSED FARM OPERATION SCHEDULE



Remarks: ———— machine, - - - - - - - - manpower

Fig.4-2 OUTLINE OF PROCESS

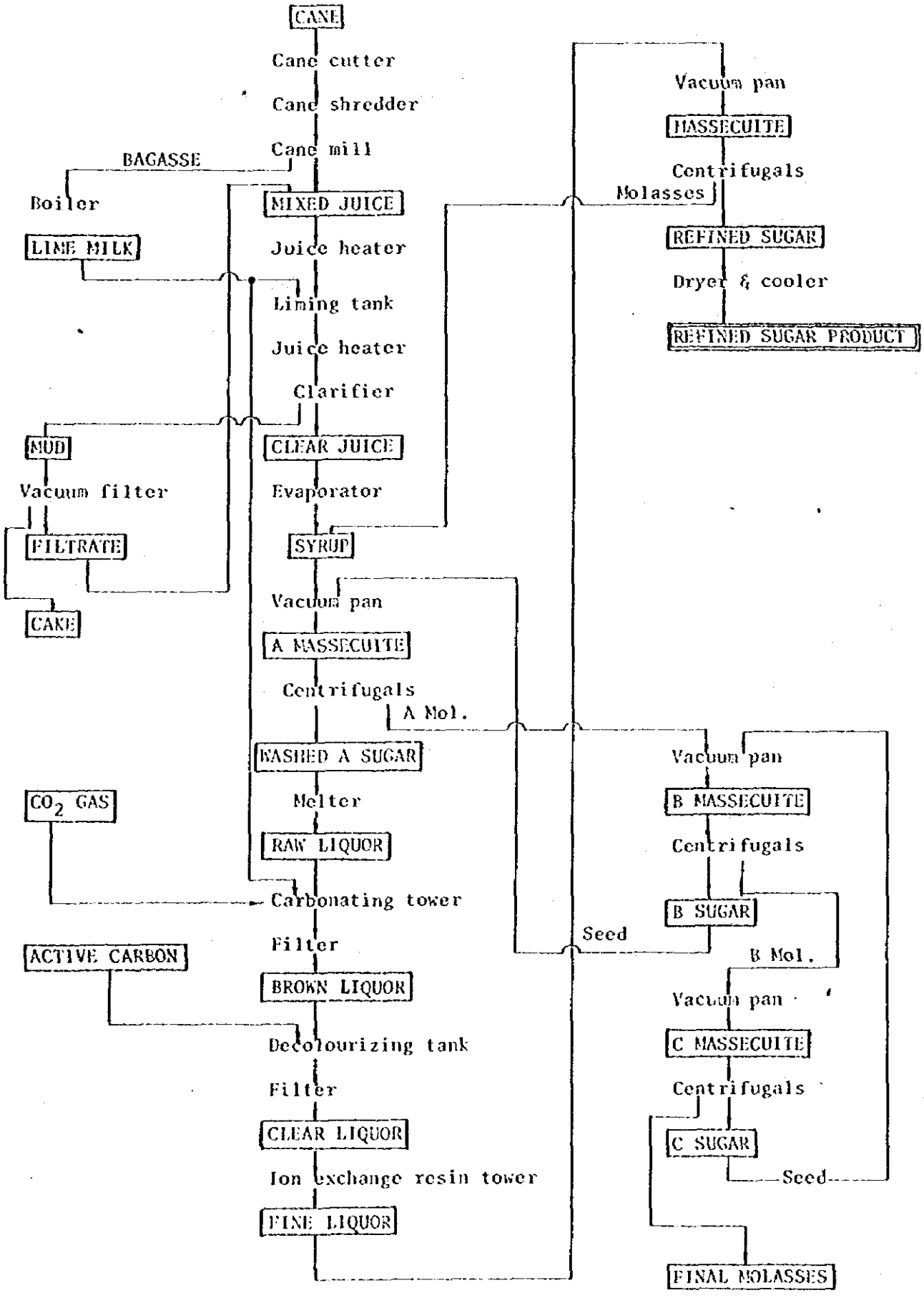


Fig.4-3 CONSTRUCTION TIME SCHEDULE

FISCAL YEAR	1st Year	2nd Year	3rd Year	4th Year	5th Year	6th Year	7th Year
CALENDAR YEAR	1976	1977	1978	1979	1980	1981	1982	1983
A. DETAILED SURVEY AND DESIGN	———							
B. PREPARATORY WORKS		———						
C. INFRASTRUCTURES								
1) Tender call and contract for civil works		———						
2) Pumping stations								
—Civil works			———	———				
—Tender call and contract		———						
—Manufacturing and transportation			———	———	———	———	———	
—Installation				———	———	———	———	
3) Irrigation facilities								
—Canals			———	———	———	———	———	
—Related structures			———	———	———	———	———	———
4) Drainage facilities								
—Canals			———	———	———	———	———	
—Related structures			———	———	———	———	———	———
5) Farm roads								
—Earthworks and pavement		———	———	———	———	———	———	
—Related structures			———	———	———	———	———	
6) Land reclamation			———	———	———	———	———	———
7) Preparation of settlement area				———				
8) Rehabilitation of pilot farm								
9) Office and quarters		———	———		———		———	———
10) Planting in new farm			(200ha)	(1650ha)	(1,650ha)	(2,100ha)	(2,100ha)	
D. SUGAR PLANT								
1) Civil works			———	———				
2) Buildings				———				
3) Tender call and contract		———						
4) Manufacturing and transportation			———	———				
5) Installation of plant				———	———			
6) Trial running					———			
7) Operation					———	———	———	———

Fig. 6-1 ORGANIZATION OF THE AVEYIME PROJECT AUTHORITY

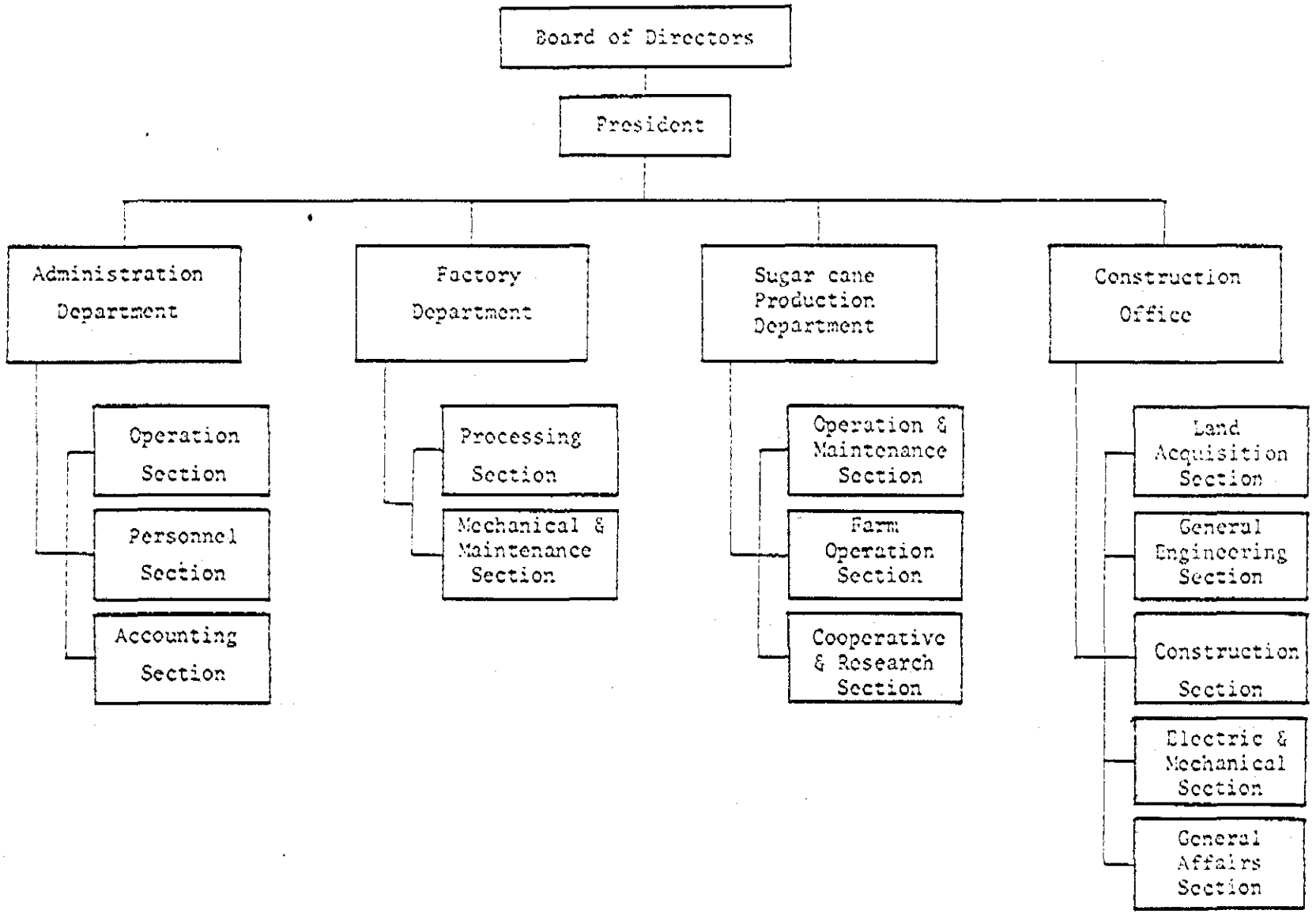
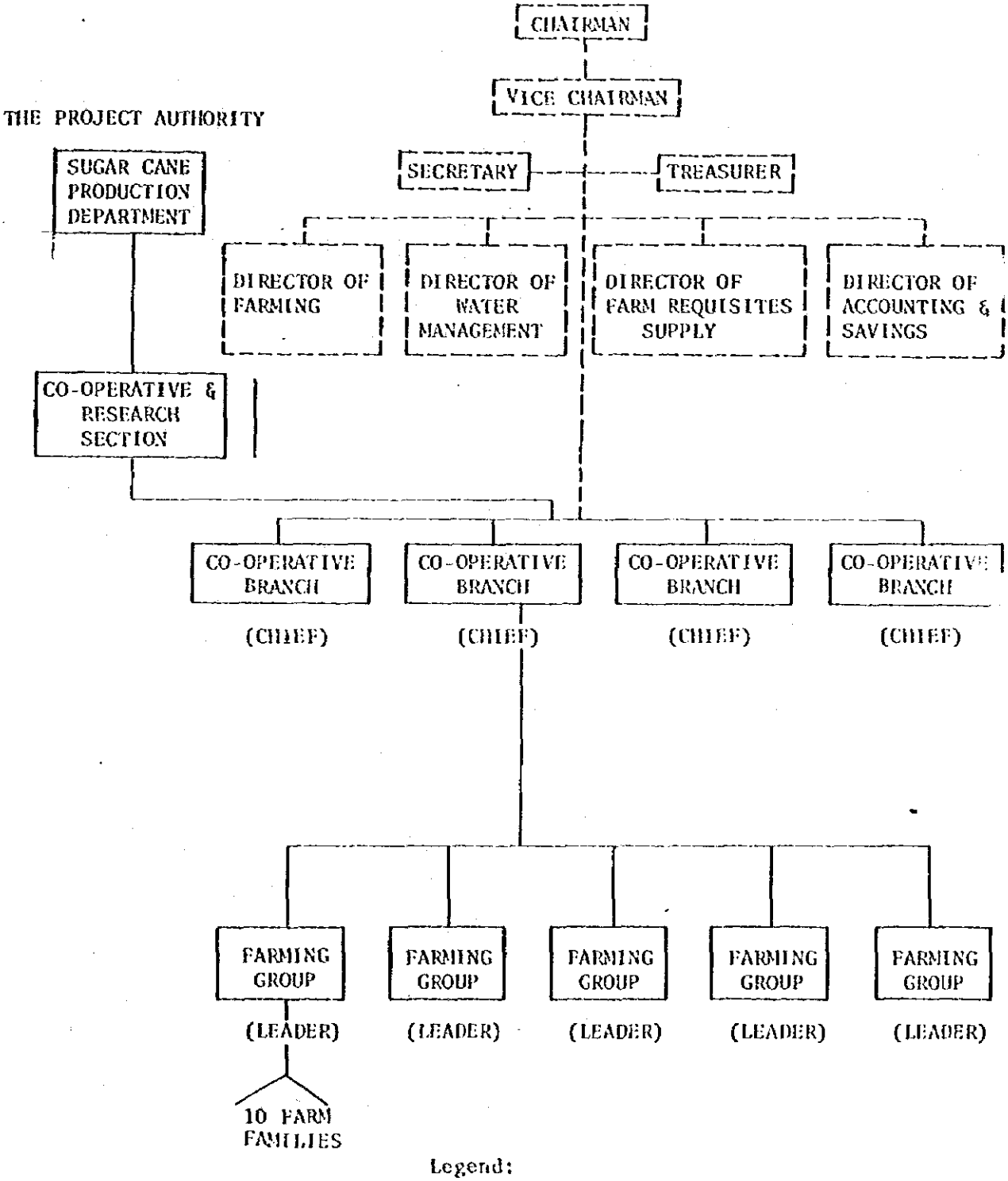


Fig. 6-2 ORGANIZATION OF CO-OPERATIVE



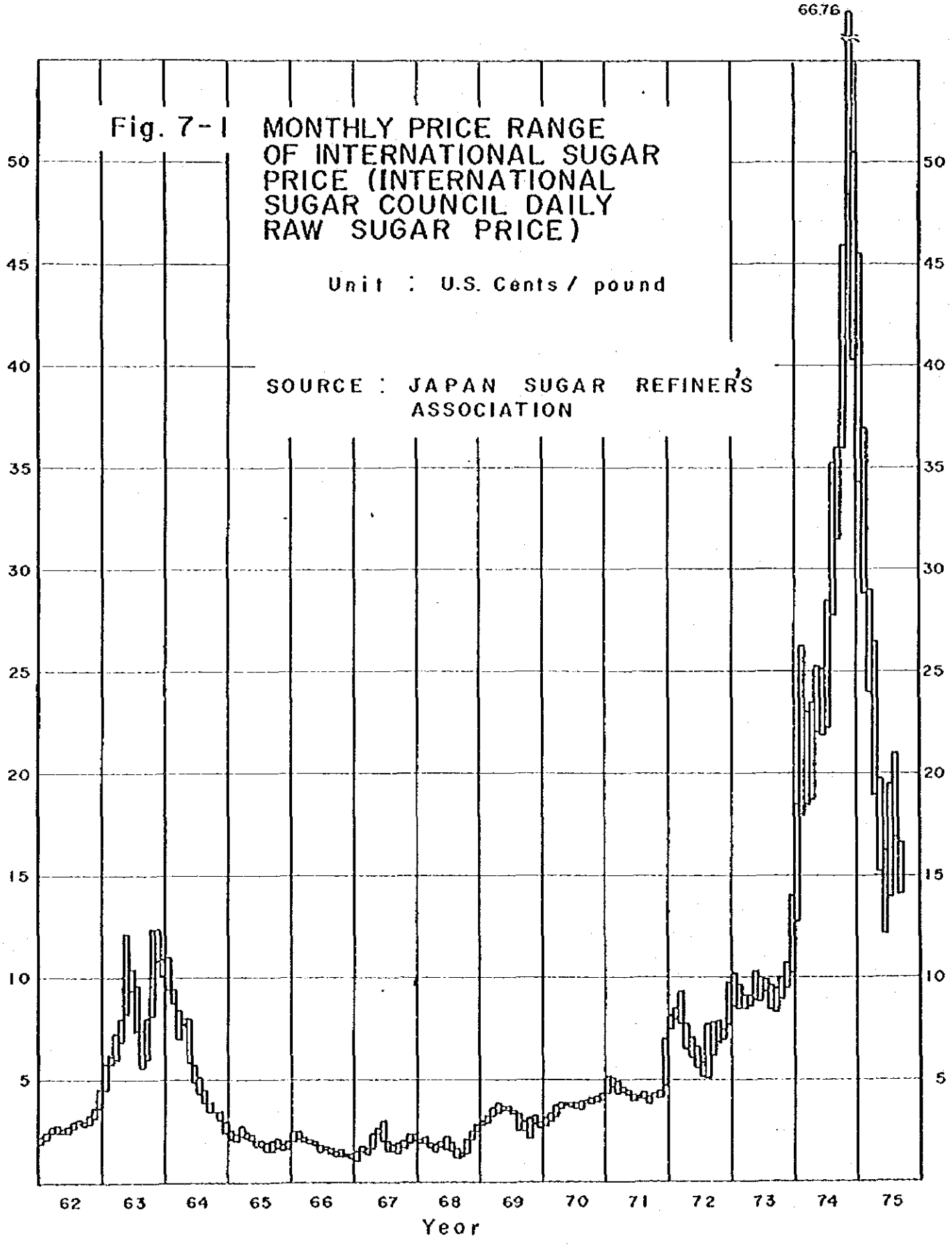

66.76
Fig. 7-1 MONTHLY PRICE RANGE OF INTERNATIONAL SUGAR PRICE (INTERNATIONAL SUGAR COUNCIL DAILY RAW SUGAR PRICE)
Unit : U.S. Cents / pound
SOURCE : JAPAN SUGAR REFINERS' ASSOCIATION
50
45
40
35
30
25
20
15
10
5
62
63
64
65
66
67
68
69
70
71
72
73
74
75
Year

Fig.8-1 PRESENT VALUE BENEFIT-COST CURVE.

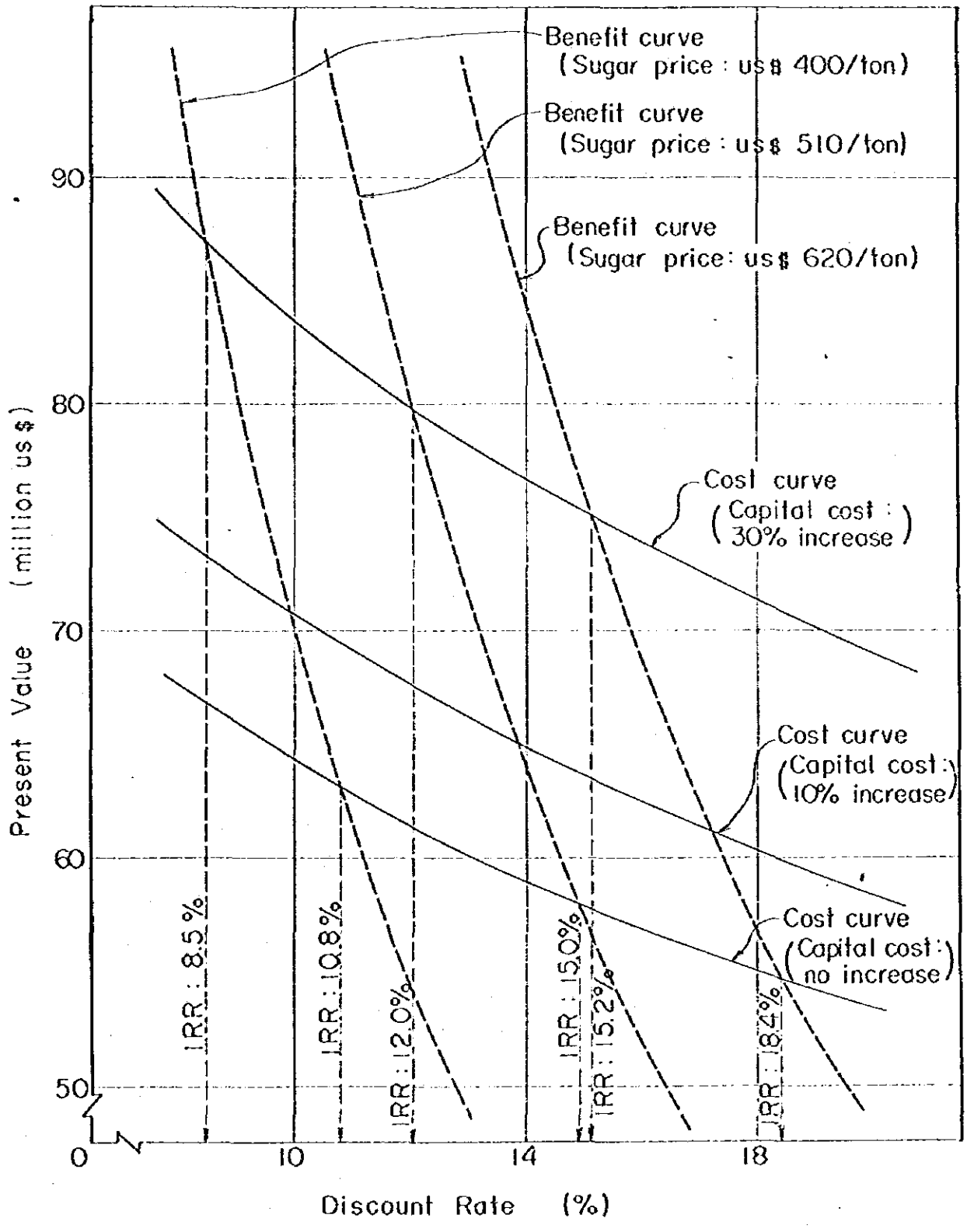


Fig. 8-2 SENSITIVITY TEST OF INTERNAL RATE OF RETURN AGAINST THE VARIATION OF SUGAR PRICE.

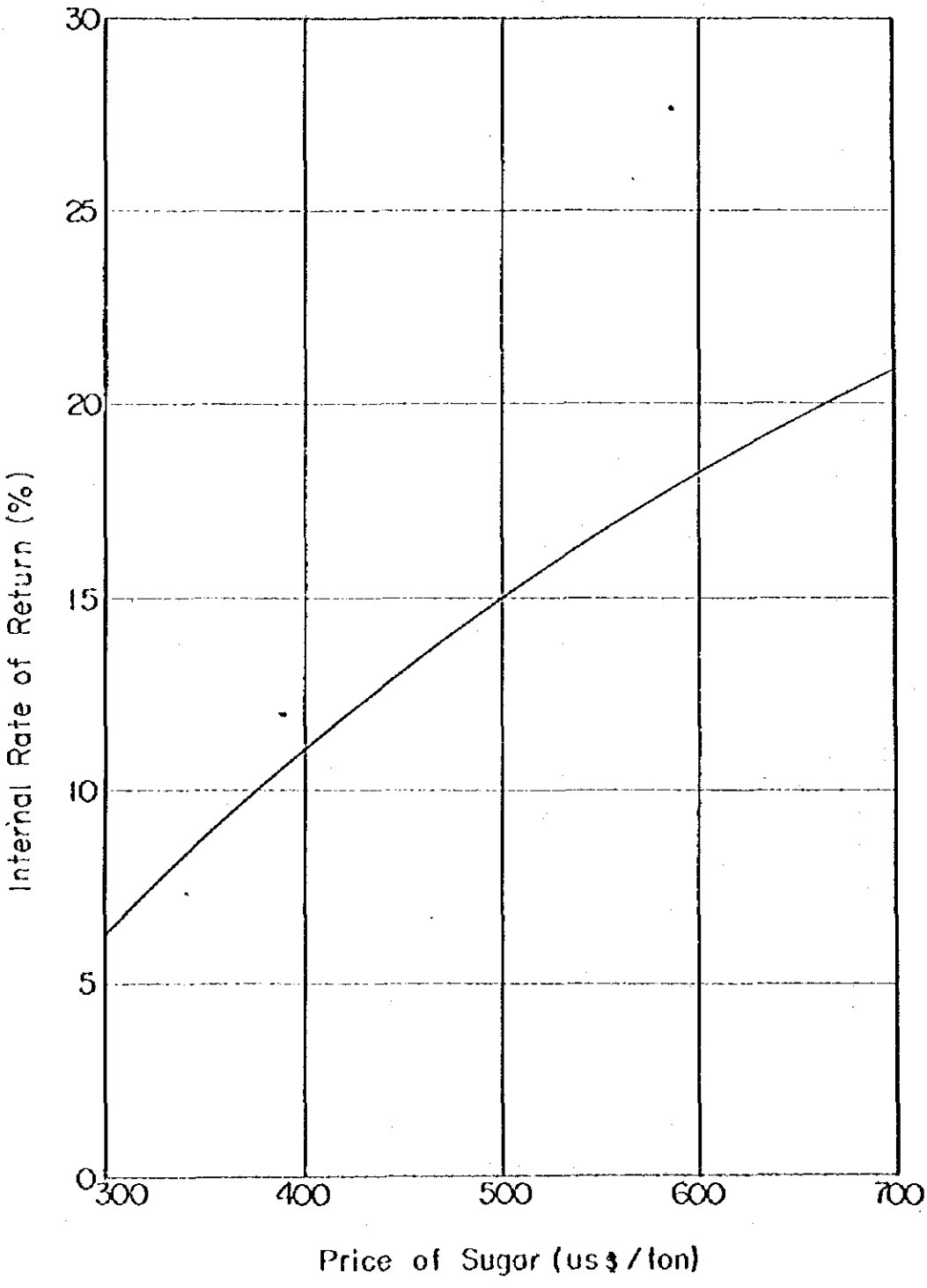


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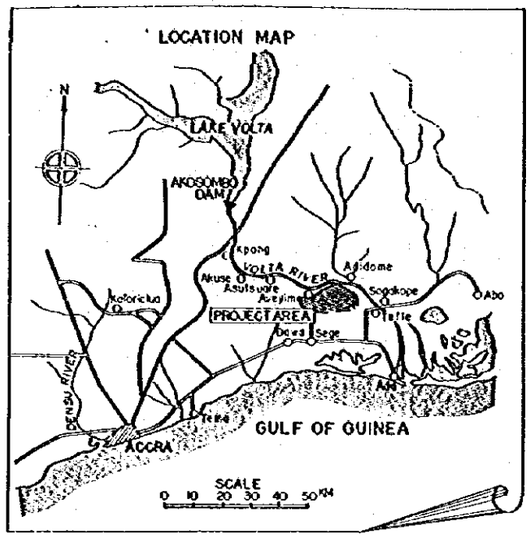
PLATE NO. 1

LOCATION MAP & GENERAL LAYOUT

TABLE OF NET IRRIGABLE AREA

BLOCK	AREA (Hectare)
1	400
2	650
3	650
4	600
5	2,000
6	1,500
7	1,700
Total	7,500

LOCATION MAP



PREPARED O. Yama	MINISTRY OF ECONOMIC PLANNING GOVERNMENT OF THE REPUBLIC OF GHANA	TITLE OF DRAWING LOCATION MAP & GENERAL LAYOUT	APPROVED
CHECKED S. Sato			
SUBMITTED S. Kuno	AVEYIME SUGAR PRODUCTION PROJECT	DWG. NO. 000-01	DATE
DATE DEC. 1 '65		NIPPON KOEI CO., LTD. CONSULTING ENGINEERS, TOKYO	

PLATE NO. 2

LEGEND

GREAT SOIL GROUP	SOIL SERIES	MAP UNIT	SOIL TYPE	SOIL PHASE
Acid gleisols	HAKE		1 Sandy surface - light clayey subsoil type	A Deep, well drained, nearly flat lowland phase.
			2 Clayey surface - sandy subsoil type	B Deep, moderately well drained, nearly flat lowland phase.
			3 Sandy surface - sandy subsoil type	C Deep, moderately to well drained, nearly flat lowland phase
	AMO		4 Loamy surface - clayey subsoil type	D Deep, imperfectly drained, flat lowland phase
			5 Silty clay surface - clayey subsoil type	E Deep, poorly drained, flat lowland phase
	TEFLE		6 Clayey surface - clayey subsoil type.	F Deep, very poorly drained, severely floodable , flat lowest land phase
				G Deep, very poorly drained, slightly floodable, gently sloping lowland phase
				H Deep, very poorly drained, moderately floodable, flat lowland phase

GREAT SOIL GROUP	SOIL SERIES	MAP UNIT	SOIL TYPE	SOIL PHASE
Acid gleisols	CHICHIWERE		7 Sandy surface - sandy subsoil type	I Deep, well drained, easily tillable, very gently sloping natural levee phase
				J Deep, well drained, easily tillable, gently sloping natural levee phase
Savannah ochrosols	AVEYIME		8 Sandy surface - loamy subsoil type	K Deep, well drained, nearly flat slightly elevated lowland phase
			9 Loamy surface - loamy subsoil type.	L Deep, moderately well drained, nearly flat slightly elevated lowland phase
	ZIPA		10 Sandy surface - loamy subsoil type	M Deep, well drained, mottled, nearly flat elevated lowland phase
			11 Loamy surface - loamy subsoil type	N Deep, moderately well drained, mottled, nearly flat elevated lowland phase
Tropical gley earth	AGAWTAW		12 Sandy surface - clay pan type	O Moderately shallow, imperfectly drained, very gently sloping upland phase

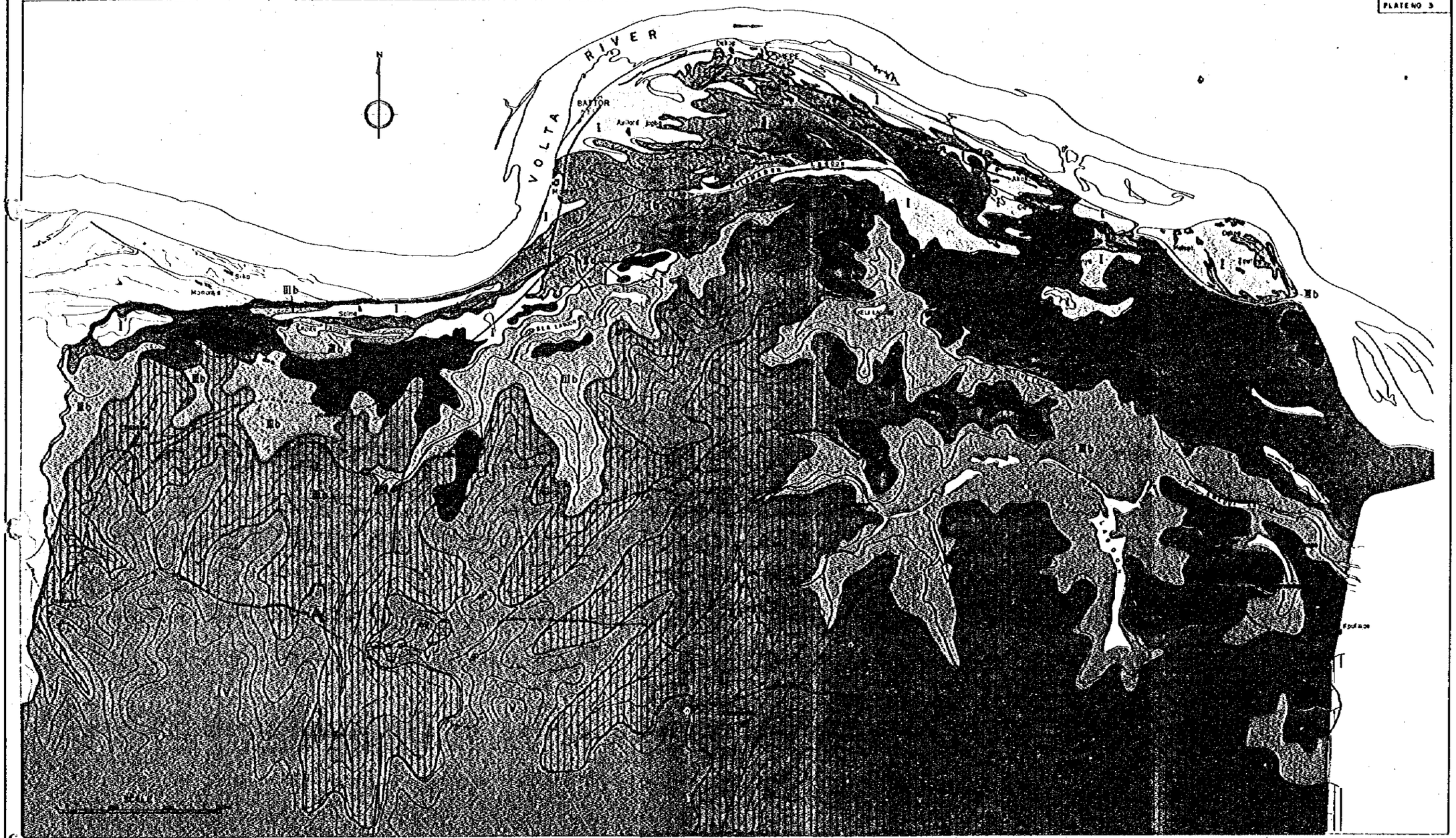
GREAT SOIL GROUP	SOIL SERIES	MAP UNIT	SOIL TYPE	SOIL PHASE
Tropical grey earth	AGAWTAW		13 Sandy surface loamy subsoil type.	P Moderately deep, moderately well drained, very gently sloping upland phase
				Q Moderately deep, moderately well drained, gently sloping upland phase
Regosolic ground water laterites	DOYUMU		14 Sandy surface gravelly loam subsoil type.	R Deep, moderately well drained, easily tillable, very gently sloping upland phase
				S Deep, moderately well drained, easily tillable, gently sloping upland phase
				T Deep, moderately well drained, usually rocky, very gently sloping upland phase

Remarks

? rock outcrops

PREPARED K Onuki	MINISTRY OF ECONOMIC PLANNING GOVERNMENT OF THE REPUBLIC OF GHANA	TITLE OF DRAWING SOIL MAP	APPROVED
CHECKED N. Arigo			
SUBMITTED J. Kimura	AVEYIME SUGAR PRODUCTION PROJECT	DWG NO 000 - 02	DATE
DATE DEC 1 65		NIPPON KOEI CO., LTD CONSULTING ENGINEERS, TOKYO	

PLATE NO. 3

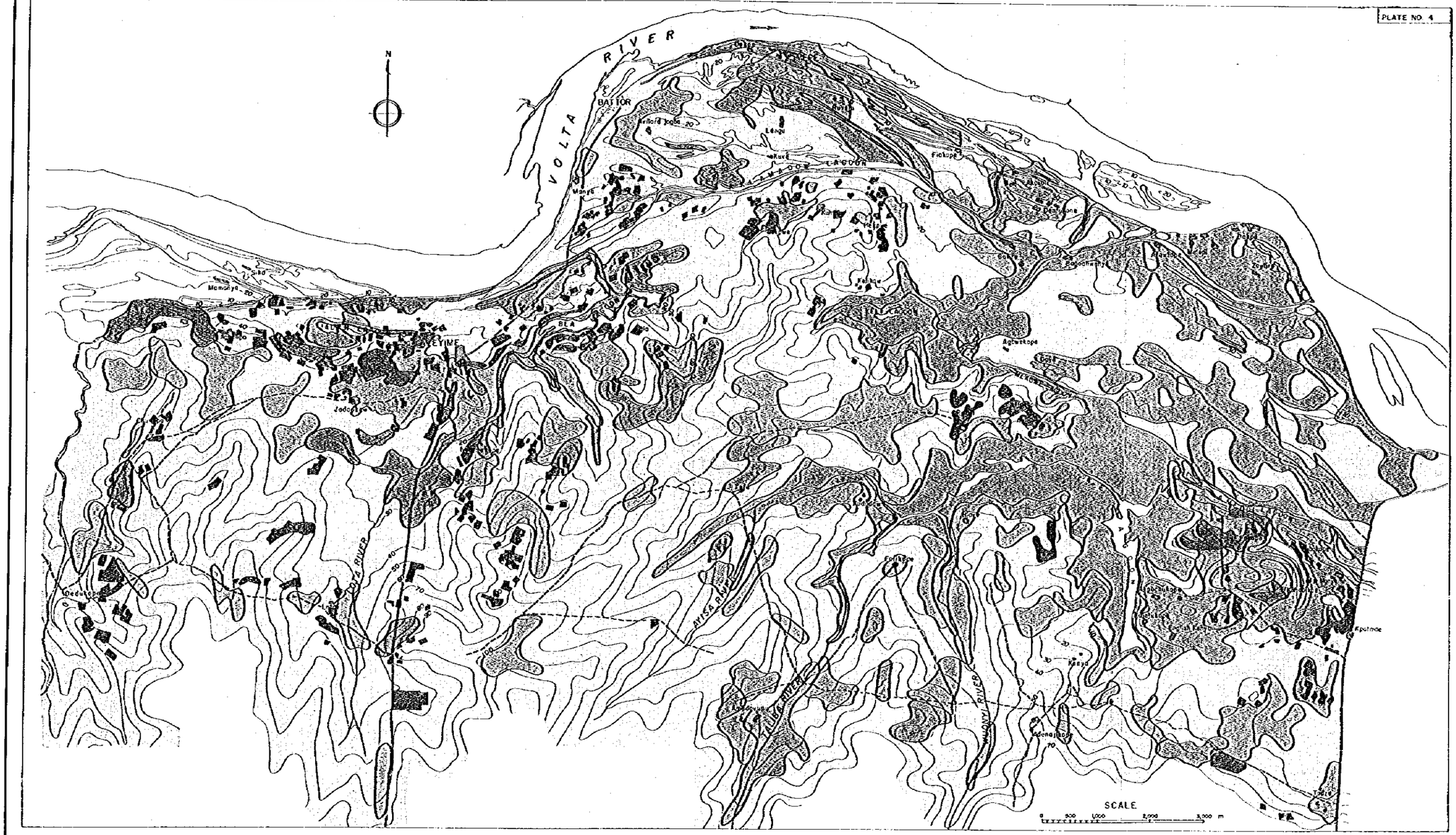


LEGEND

MAP UNIT	CLASS	
	CLASS I	Very suitable for irrigation farming. Deep, moderately to well drained, light to medium textured, slight problems of flooding, easily tillable, relatively rich fertility, fairly good irrigability, no erodibility. High productivities are got by proper management.
	CLASS IIa	Moderately suitable for irrigation farming. Deep, well drained light to medium textured, no problems of flooding, easily tillable, rather low fertility, fairly good irrigability, no erodibility.
	CLASS IIb	Moderately suitable for irrigation farming. Deep imperfectly to poorly drained, medium to fine textured, frequently flooded, uneasily tillable, fertile, good irrigability, no erodibility.
	CLASS IIIa	Fairly suitable for irrigation farming. Compact, shallow impermeable layer, unfavourable tillability, no problems of flooding, slight problems of erodibility, moderate irrigability, poor fertility.
	CLASS IIIb	Fairly suitable for irrigation farming. Deep, very poorly drained, fine textured, rich fertility, severe problems of oneual flooding, unfavourable tillability, good irrigability, no erodibility.
	CLASS IV	Usable for irrigation farming. Deep, moderately well drained, light to medium textured, no problems of flooding, severe erodibility, easily tillable, low fertility, unfavourable irrigability.
	CLASS V	Unavailable for irrigation farming, usable for recreation, source of construction materials etc.

PREPARED K. Osawa	MINISTRY OF ECONOMIC PLANNING GOVERNMENT OF THE REPUBLIC OF GHANA	TITLE OF DRAWING: LAND CAPABILITY MAP	APPROVED
CHECKED N. Aziz			
SUBMITTED J. Kuno	AVEYIME SUGAR PRODUCTION PROJECT	DWG NO. 000 - 03	DATE
DATE DEC 1 85		NIPPON KOEI CO., LTD. CONSULTING ENGINEERS, TOKYO	

PLATE NO. 4



LEGEND

Settlement & Associated Non-agricultural Land	Scrub & Grassland	Footpath
Densely Cultivated Land	Forest	Poved Road
Variable Mixture of Cultivation & Follow	Marshy Land	River

PREPARED K. Onuke CHECKED M. Aniya SUBMITTED J. Ikuse DATE DEC. 85	MINISTRY OF ECONOMIC PLANNING GOVERNMENT OF THE REPUBLIC OF GHANA AVEYIME SUGAR PRODUCTION PROJECT	TITLE OF DRAWING LAND USE MAP DWG NO 000-04	APPROVED DATE
		NIPPON KOEI CO., LTD CONSULTING ENGINEERS, TOKYO	