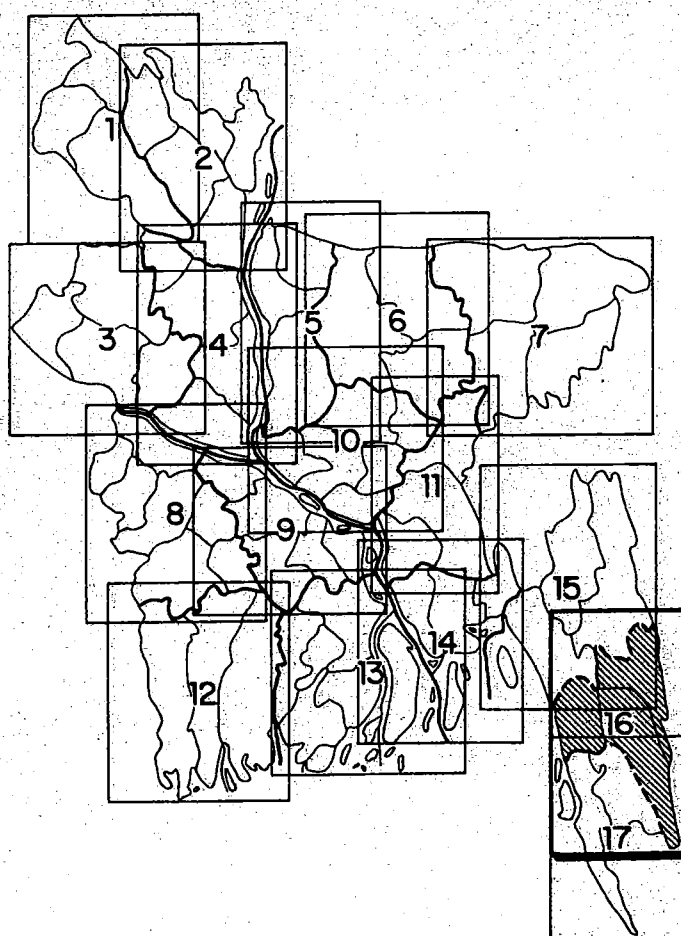
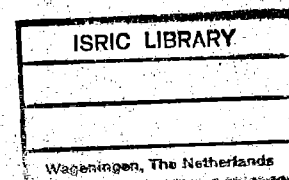


LAND RESOURCES APPRAISAL OF BANGLADESH
FOR AGRICULTURAL DEVELOPMENT

REPORT 5
LAND RESOURCES

VOLUME II-16
LAND RESOURCES MAP AND LEGEND

Parts of
RANGAMATI - CHITTAGONG - BANDARBAN



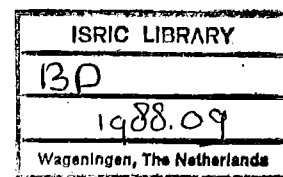
UNITED NATIONS DEVELOPMENT PROGRAMME



FOOD AND AGRICULTURE ORGANIZATION
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BGD/81/035
Technical Report 5
Volume II



LAND RESOURCES APPRAISAL
OF BANGLADESH FOR AGRICULTURAL DEVELOPMENT

REPORT 5
LAND RESOURCES

VOLUME II
LAND RESOURCES MAP AND LEGEND

Report prepared for
the Government of the People's Republic of Bangladesh
by
the Food and Agriculture Organization of the United Nations
acting as executing agency for
the United Nations Development Programme

based on the work of

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UNITED NATIONS DEVELOPMENT PROGRAMME
FOOD AND AGRICULTURE ORGANIZATION OF THE UNITED NATIONS

Rome, 1988

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CONTENTS

	<u>Page</u>
LIST OF REPORTS	v
ACKNOWLEDGEMENTS	vi
1. INTRODUCTION	1
2. CLIMATIC RESOURCES LEGEND	9
3. INUNDATION RESOURCES LEGEND	19
4. SOIL AND LANDFORM RESOURCES LEGEND	25
REFERENCES	39
APPENDIXES	1
MAP Land Resources Inventory (relevant sheet, plus explanatory sheet)	At back

LIST OF TABLES

Table 1.1	Correlation between 17 Land Resources Inventory Map sheets and reconnaissance soil survey report areas	4
Table 1.2	Reconnaissance soil survey reports published by the Soil Resources Development Institute	7
Table 2.1	Generalized minimum temperature characteristics of thermal (T) zones	9
Table 2.2	Generalized mean temperature characteristics of thermal (T) zones	11
Table 2.3	Generalized maximum temperature characteristics of extreme temperature (e) sub-zones	11
Table 2.4	Country summary of extents of thermal zones	13
Table 2.5	Generalized moisture characteristics of pre-kharif period (p) zones	15
Table 2.6	Generalized moisture characteristics of kharif growing period (K100) zones	15
Table 2.7	Country summary of extents of moisture zones	17
Table 3.1	Country summary of extents of inundation land types and disastrous flooding hazards	22
Table 4.1	Physiographic units and subunits	27
Table 4.2	Country summary of extents of inundation land types by physiographic unit	28
Table 4.3	Summary descriptions of General Soil Types	34
Table 4.4	Country summary of area and proportions occupied by General Soil Types	38

LIST OF FIGURES

	<u>Page</u>
Figure 1.1 Bangladesh Administrative Districts	3
Figure 1.2 Land Resources Inventory Map sheets and reconnaissance soil survey areas	6
Figure 1.3 Make-up of the national computerized Land Resources Inventory Legend	8
Figure 2.1 Characterization of thermal regime	10
Figure 2.2 Generalized map of thermal resources	12
Figure 2.3 Rainfed growing period model for characterization of moisture regime	14
Figure 2.4 Generalized map of moisture resources	16
Figure 3.1 Generalized map of inundation land types	20
Figure 3.2 Schematic presentation of the relationship between groundwater level and inundation level by land type	23
Figure 3.3 Example of inundation regime analysis	24
Figure 4.1 Generalized map of physiographic units	30
Figure 4.2 Relationship of soils to topography in a typical soil association (MO726)	32
Figure 4.3 Make-up of a soil association map unit	33
Figure 4.4 Generalized map of General Soil Types	36

LIST OF APPENDIXES

Appendix 1.1 List of Districts and Upazilas	41
Appendix 4.1 Soil and landform legend for Land Resources Inventory	53

LIST OF REPORTS
COMPRISING THE LAND RESOURCES APPRAISAL OF BANGLADESH

REPORT 1	EXECUTIVE SUMMARY
REPORT 2	AGROECOLOGICAL REGIONS OF BANGLADESH
REPORT 3	LAND RESOURCES DATA BASE
Vol. I	Climatic Data Base
Vol.II	Soil, Landform and Hydrological Data Base
REPORT 4	HYDROCLIMATIC RESOURCES
Vol. I	Climatic Resources Inventory
Vol.II	Inundation Resources Inventory
REPORT 5	LAND RESOURCES
Vol. I	Computerized Land Resources Inventory
Vol.II	Land Resources Maps and Legend
REPORT 6	LAND SUITABILITY ASSESSMENT
REPORT 7	AEZ COMPUTER SYSTEM DOCUMENTATION AND PROCESSING
Vol. I	Introduction to the System and Soil Data Processing
Vol.II	Climatic, Inundation Regime and Land Resources Inventory Data Processing

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- Mr D. Mazzei, Cartographer, who organized the drafting and printing of the maps and figures in the reports.
- The farmers of Bangladesh whose skill and experience in adapting their cropping and farming systems to the multitude of micro-agroecological environments in the country provide the basis for much of the agricultural information given in Report 2.

Chapter 1

INTRODUCTION

Report 5 deals with the land resources inventory, in two volumes. Volume I describes the computerized land resources inventory. Volume II (this volume) comprises the land resources inventory map and legend. The information in these volumes is based on the climatic, soil, landform and hydrological data presented in Report 3.

The 64 administrative Districts and 486 Upazilas into which Bangladesh is divided are listed in Appendix 1.1. The Districts are indicated on Figure 1.1.

The Land Resources Inventory Map is presented at the back of this report volume. It comprises 17 map sheets on 1:250 000 scale, together with an explanatory sheet illustrating the agroclimatic, soil, landform and hydrological components of the legend. ^{1/} The 17 map sheets are listed in Table 1.1 and shown on Figure 1.2, together with the reconnaissance soil survey report areas relevant for the Districts which the respective sheets cover. Table 1.2 lists the reconnaissance soil survey reports published by the Soil Resources Development Institute.

The make-up of the Land Resources Inventory Legend is shown in Figure 1.3. The component parts are described below in Chapters 2-4.

^{1/} This volume comprises 17 parts. Each part contains one sheet of the Land Resources Inventory Map together with the Legend for that sheet and a copy of the explanatory sheet. The text of the report is the same in each part.

Fig. 1-1

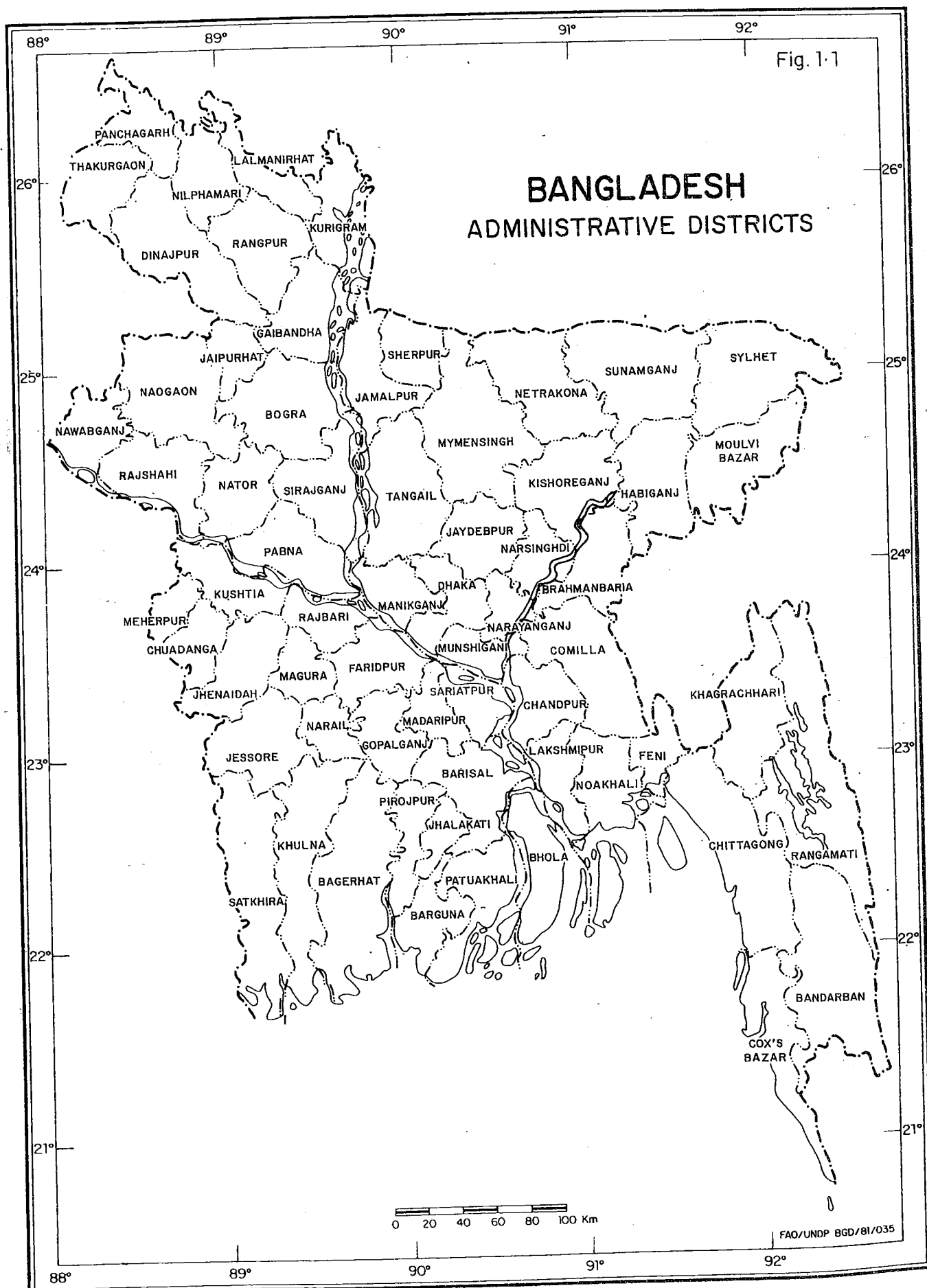


Table 1.1 CORRELATION BETWEEN 17 LAND RESOURCES INVENTORY MAP SHEETS
AND RECONNAISSANCE SOIL SURVEY REPORT AREAS

Land Resources Inventory Map		Reconnaissance Soil Survey Report		No of map sheets
Sheet No	Districts included	Report No 1/	Report title	
1	Panchagarh, Thakurgaon, Dinajpur	14 24 19	Thakurgaon Subdivision Dinajpur Sadar Subdivision Bogra District and part of Dinajpur Sadar Subdivision (part)	1 1 1
2	Nilphamari, Lalmanirhat, Rangpur, Gaibandha, Kurigram	13 15	Nilphamari and Rangpur Sadar Subdivisions (revised) Kurigram and Gaibandha Subdivisions (2 vols)	1 2 2
3	Naogaon, Nawabganj, Nator, Rajshahi	11	Rajshahi (2 vols)	2
4	Jaipurhat, Bogra, Sirajganj, Pabna	19	Bogra District and part of Dinajpur Sadar Subdivision (part)	1
5	Sherpur, Jamalpur, Tangail	28	Pabna District (revised)	1
6	Netrakona, Mymensingh, Kishoreganj	5 29	Tangail District Jamalpur Subdivision (revised)	1 1
7	Sunamganj, Sylhet, Habiganj, Moulvi Bazar	12 31	Netrakona and Mymensingh Sadar North Subdivisions Kishoreganj and Mymensingh Sadar South Subdivisions	1 2
8	Kushtia, Meherpur, Chuadanga, Jhenaidah, Magura, Narail, Jessore	1 23	Sylhet Sadar and Moulvi Bazar Subdivisions Sunamganj and Habiganj Subdivisions	2 2
9	Goalanda, Faridpur, Madaripur, Sariatpur, Gopalganj	20 26	Kushtia District Jessore District	1 1
		16 18	Goalanda and Faridpur Sadar Subdivisions Gopalganj and Madaripur Subdivisions	1 1

1/ Serial number given in Table 1.2

Table 1.1 (cont.)

Land Resources Inventory Map		Reconnaissance Soil Survey Report		No of map sheets
Sheet No	Districts included	Report No 1/	Report title	
10	Joydebpur (Gazipur), Narsinghdi, Manikganj, Dhaka, Narayanganj, Munshiganj	32	Dhaka District (revised)	2
11	Brahmanbaria, Comilla, Chandpur	17	Noakhali District and Sadar North, Sadar South and Chandpur Subdivisions of Comilla District (revised) (part)	1 +1(part)
		30	Brahmanbaria Subdivision	1
12	Satkhira, Khulna, Bagerhat	21	Satkhira Subdivision	1
		27	Khulna Sadar and Bagerhat Subdivisions	1
		-	Khulna Sunderbans. (Not surveyed)	-
13	Barisal, Jhalakati, Pirojpur, Patuakhali, Bhola, Barguna	10	Barisal District and part of Bagerhat Subdivision (part)	2
14	Lakshmipur, Feni, Noakhali	17	Noakhali District and Sadar North, Sadar South and Chandpur Subdivisions of Comilla District (revised) (part)	1 +1(part)
		34	Chhagalnaya and Parshuram Thanas of Feni Subdivision (unpublished)	1
15	Khagrachhari; parts of Rangamati and Chittagong	22	Chittagong Sadar North Subdivision	1
		33	Chittagong Hill Tracts (part)	1 +1(part)
		-	Reserved Forest areas of Chittagong Hill Tracts (part). (Not surveyed)	-
16	Parts of Rangamati, Chittagong, Bandarban	25	Chittagong Sadar South and Cox's Bazar Subdivisions (part)	1(part)
		33	Chittagong Hill Tracts (part)	2(parts)
		-	Reserved Forest areas of Chittagong Hill Tracts (part). (Not surveyed)	-
17	Cox's Bazar; part of Bandarban	25	Chittagong Sadar South and Cox's Bazar Subdivisions (part)	1 +1(part)
		33	Chittagong Hill Tracts (part)	1
		-	Reserved Forest areas of Chittagong Hill Tracts (part). (Not surveyed)	-

LAND RESOURCES INVENTORY MAP SHEETS AND RECONNAISSANCE SOIL SURVEY AREAS

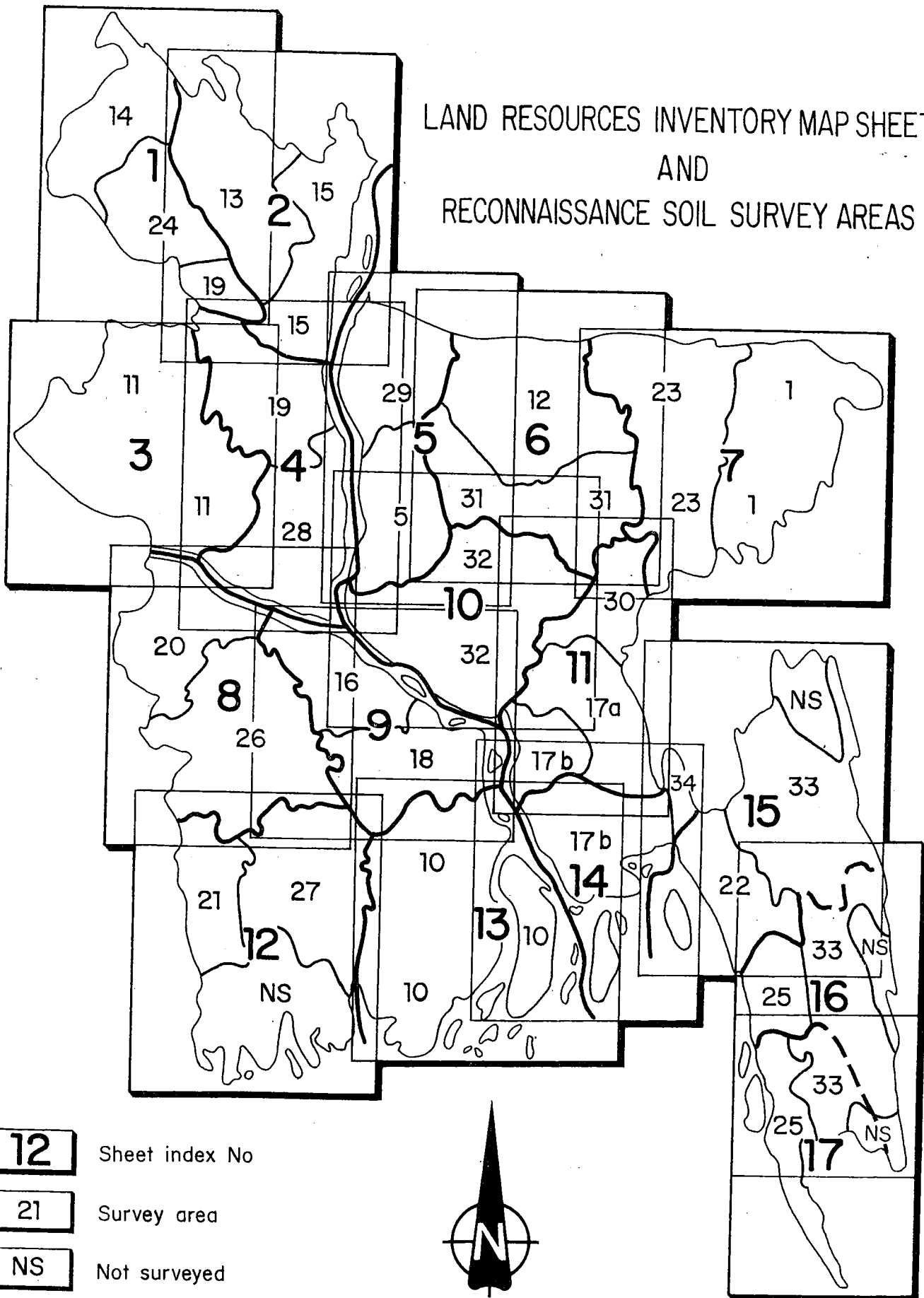


Table 1.2 RECONNAISSANCE SOIL SURVEY REPORTS PUBLISHED
BY THE SOIL RESOURCES DEVELOPMENT INSTITUTE

Title 1/		Year of publication
1	Sadar and Moulvi Bazar Subdivisions, Sylhet District	1965
2	Pabna District (First edition) 2/	1966
3	Comilla Sadar North and South Subdivisions (First edition)	1966
4	Dhaka District (First edition)	1967
5	Tangail District	1967
6	Jamalpur Subdivision (First edition)	1967
7	Sadar Subdivision, Rangpur District (First edition)	1967
8	Nilphamari Subdivision, Rangpur District (First edition)	1967
9	Noakhali District and Chandpur Subdivision of Comilla District (first edition)	1967
10	Barisal District and part of Bagerhat Subdivision	1968
11	Rajshahi District (2 volumes)	1968
12	Netrakona and Sadar North Subdivisions, Mymensingh District	1969
13	Nilphamari and Rangpur Sadar Subdivisions, Rangpur District (Revised edition)	1969
14	Thakurgaon Subdivision, Dinajpur District	1970
15	Kurigram and Gaibandha Subdivisions, Rangpur District	1970
16	Goalundo and Faridpur Sadar Subdivisions, Faridpur District	1971
17	Noakhali District and Sadar North, Sadar South and Chandpur Subdivisions of Comilla District (Revised edition)	1971
18	Gopalganj and Madaripur Subdivisions, Faridpur District	1972
19	Bogra District and part of Dinajpur Sadar Subdivision	1972
20	Kushtia District	1973
21	Satkhira Subdivision, Khulna District	1973
22	Sadar North Subdivision, Chittagong District	1976
23	Sunamganj and Habiganj Subdivisions, Sylhet District	1976
24	Dinajpur Sadar Subdivision	1976
25	Sadar South and Cox's Bazar Subdivisions, Chittagong District	1976
26	Jessore District	1977
27	Khulna Sadar and Bagerhat Subdivisions	1977
28	Pabna District (Revised edition)	1977
29	Jamalpur Subdivision (Revised edition)	1977
30	Brahmanbaria Subdivision, Comilla District	1977
31	Kishoreganj and Sadar South Subdivisions, Mymensingh Brahmanbaria District	1977
32	Dhaka District (Revised edition)	1981
33	Chittagong Hill Tracts	1986
34	Chhagalnaiya and Parshuram Thanas, Feni Subdivision	Unpublished

- 1/ Original title. Former Subdivisions of Districts were subsequently made Districts and the old Districts abolished.
- 2/ Where a first edition is indicated, this has been superseded by a revised edition indicated further down in the list.

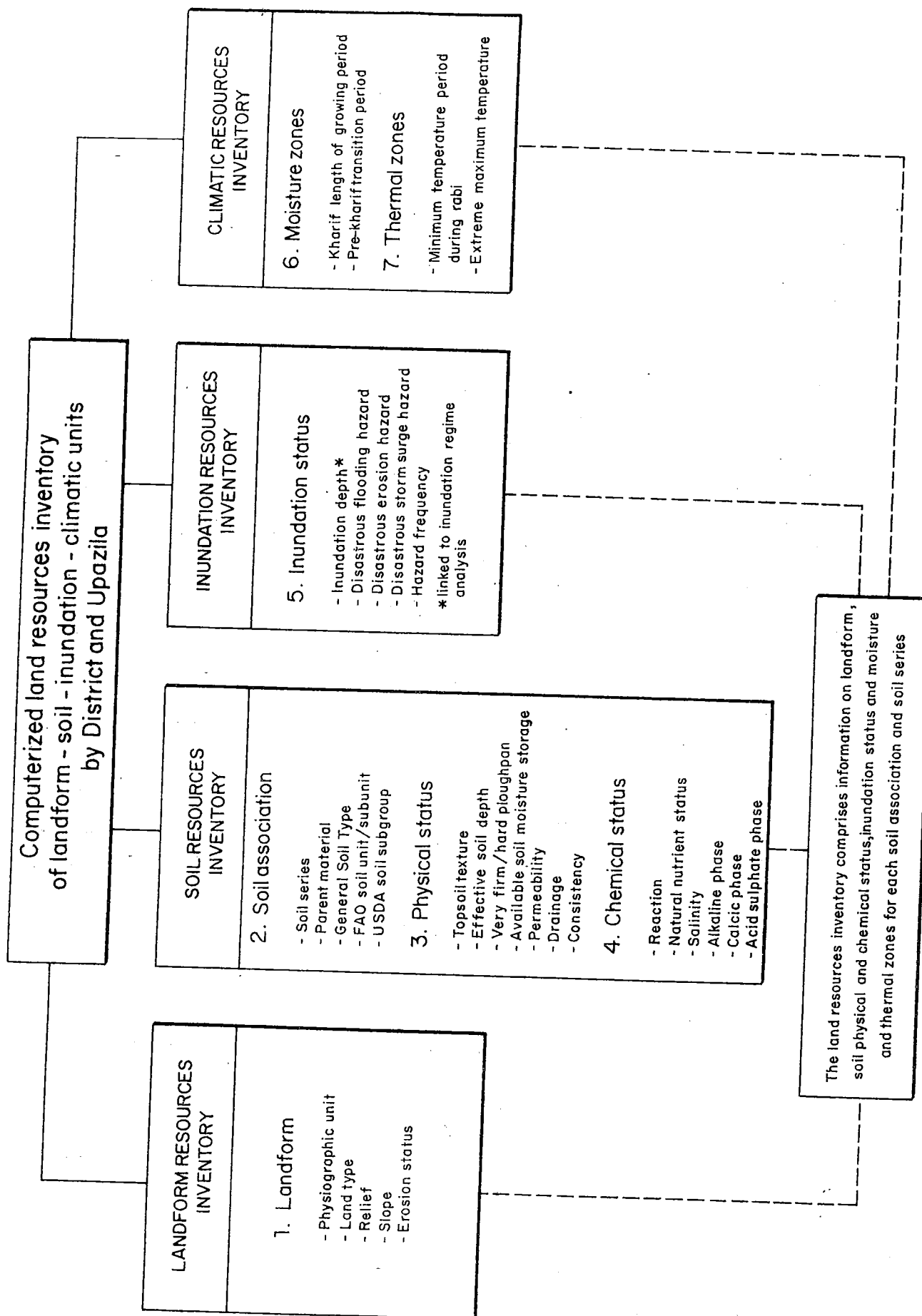


Figure 1.3

MAKE-UP OF THE NATIONAL COMPUTERIZED LAND RESOURCES INVENTORY LEGEND

Chapter 2

CLIMATIC RESOURCES LEGEND

The climatic resources inventory described in Volume I of this report comprises thermal and moisture components.

Figure 2.1 presents a schematic characterization of the annual temperature regime in Bangladesh. Two kinds of thermal zone have been mapped:

- (a) rabi temperature zones (T zones);
- (b) extreme summer temperature zones (e zones).

The characteristics of these zones are shown in Tables 2.1, 2.2 and 2.3. Their extents are shown in Figure 2.2 and in Table 2.4.

Figure 2.3 presents a schematic model of the annual moisture regime in Bangladesh. It indicates the seasonal periods for which information on duration, begin date and end date is given in Tables 2.5 and 2.6. Figure 2.4 presents a generalized map of the pre-kharif and kharif moisture zones. Table 2.7 provides a country summary of the extents of these moisture zones.

Table 2.1 GENERALIZED MINIMUM TEMPERATURE CHARACTERISTICS OF THERMAL (T) ZONES

Thermal zone	Begin period	SD (days)	End period	SD (days)	Length period	SD (days)
MINIMUM TEMPERATURES <15.0°C ^{1/}						
T1	16 Dec	8	20 Jan	18	35	22
T2	6 Dec	10	20 Jan	14	45	20
T3	6 Dec	9	4 Feb	17	60	21
T4	29 Nov	8	17 Feb	15	80	17
T5	20 Nov	7	28 Feb	17	100	20
MINIMUM TEMPERATURES <17.5°C ^{1/}						
T1	2 Dec	9	12 Feb	18	72	22
T2	26 Nov	10	12 Feb	16	79	19
T3	24 Nov	8	14 Feb	14	83	15
T4	15 Nov	7	9 Mar	9	115	13
T5	11 Nov	5	19 Mar	12	129	14
MINIMUM TEMPERATURES <20.0°C ^{1/}						
T1	20 Nov	7	5 Mar	10	105	14
T2	14 Nov	10	2 Mar	9	108	14
T3	10 Nov	7	10 Mar	11	120	15
T4	2 Nov	7	26 Mar	9	144	13
T5	26 Oct	7	5 Apr	11	161	14

^{1/} Means of stations occurring in the individual zones

Figure 2.1 CHARACTERIZATION OF THERMAL REGIME

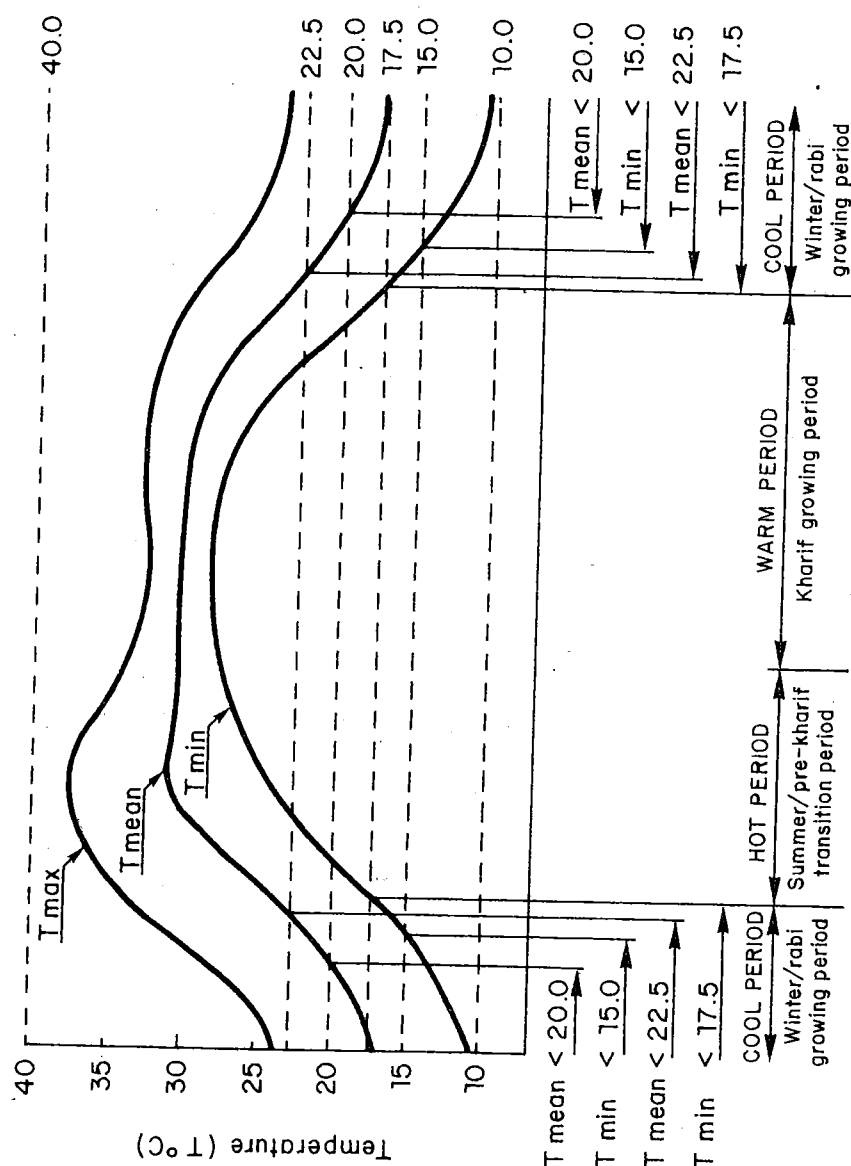


Table 2.2 GENERALIZED MEAN TEMPERATURE CHARACTERISTICS OF THERMAL (T) ZONES

Thermal zone	Begin period	SD (days)	End period	SD (days)	Length period	SD (days)
MEAN TEMPERATURES <17.5°C ^{1/}						
T1	--	--	--	--	--	--
T2	31 Dec	1	3 Jan	3	4	4
T3	30 Dec	5	4 Jan	5	6	7
T4	26 Dec	6	7 Jan	7	12	10
T5	23 Dec	6	14 Jan	12	22	12
MEAN TEMPERATURES <20.0°C ^{1/}						
T1	23 Dec	7	12 Jan	11	20	14
T2	17 Dec	8	14 Jan	10	28	15
T3	14 Dec	8	23 Jan	13	40	15
T4	9 Dec	8	3 Feb	6	56	15
T5	3 Dec	9	11 Feb	15	70	19
MEAN TEMPERATURES <22.5°C ^{1/}						
T1	1 Dec	7	14 Feb	13	76	19
T2	25 Nov	8	9 Feb	13	77	18
T3	24 Nov	9	18 Feb	9	87	12
T4	19 Nov	8	27 Feb	6	101	15
T5	9 Nov	10	5 Mar	11	117	15

^{1/} Means of stations occurring in the individual zones

Table 2.3 GENERALIZED MAXIMUM TEMPERATURE CHARACTERISTICS OF EXTREME TEMPERATURE (e) SUBZONES

Extreme temperature zone	Occurrence of maximum temperatures ^{1/}					
	<35°C		>35°C		>37.5°C	>40°C
	days	SD	days	SD	days	days
e1	353	9	12	9	2	0.1
e2	325	20	40	20	16	2
e3	321	17	44	17	22	6
e4	308	19	57	19	30	10

^{1/} Means of stations occurring in the individual zones

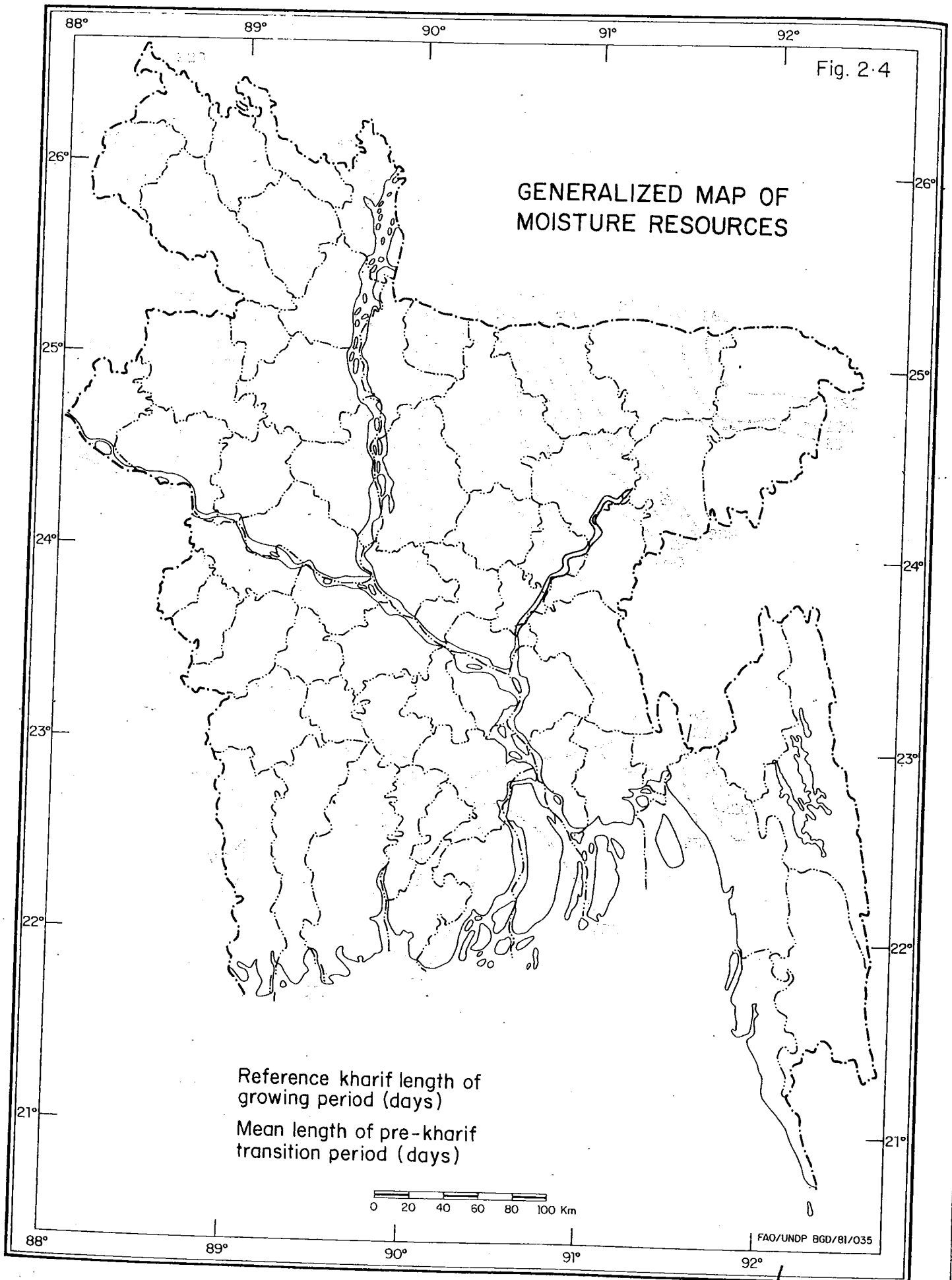
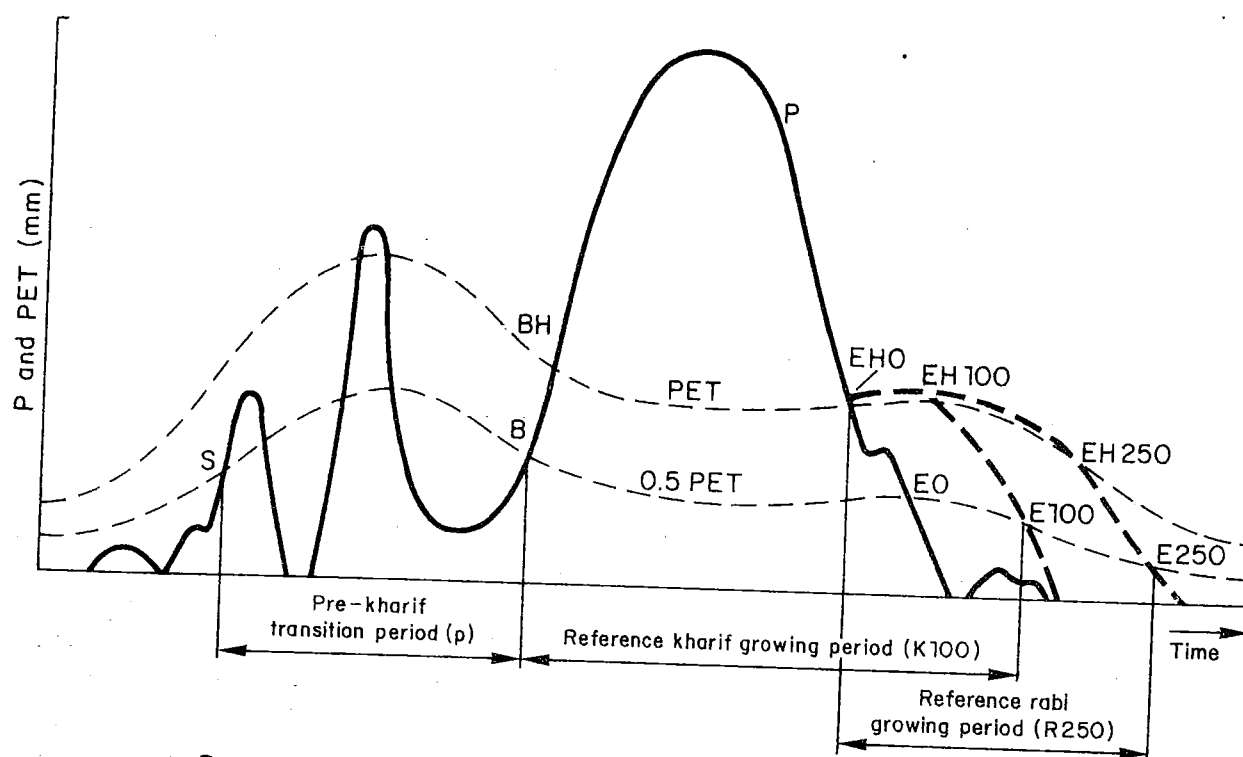


Table 2.4 COUNTRY SUMMARY OF EXTENTS OF THERMAL ZONES

Extreme temperature (e) zone	Thermal (T) zone					Total
	T1	T2	T3	T4	T5	
	Ha					
e1	1 260 997	1 074 712	4 098 534	2 034 831	469 618	8 938 692
e2	0	0	225 679	2 122 463	1 118 145	3 466 287
e3	0	0	0	962 995	619 887	1 582 882
e4	0	0	0	145 870	344 237	490 107
Total	1 260 997	1 074 712	4 324 213	5 266 159	2 551 887	14 477 968

Figure 2.3 RAINFED GROWING PERIOD MODEL FOR CHARACTERIZATION OF MOISTURE REGIME



- P - Precipitation
- PET - Potential evapotranspiration
- S - Start of pre-kharif transition period
- B - Beginning of reference kharif growing period
- BH - Beginning of kharif humid moisture period
- EHO - End of kharif humid moisture period
- EO - End of rainy season
- EH100 - End of kharif humid moisture period with 100 mm soil moisture supply
- E100 - End of reference kharif growing period
- EH250 - End of rabi humid moisture period with 250 mm soil moisture supply
- E250 - End of reference rabi growing period

Table 2.5 GENERALIZED MOISTURE CHARACTERISTICS OF
PRE-KHARIF TRANSITION PERIOD (p) ZONES

Zone	Duration (days)	Period		No of dry days	No of moist days	Frequency of moisture types (% of decads)			
		Begin (S)	End (B)			H	1	2	D
p1	10-20	17 Mar	2 Apr	1-9	9-11	40	16	19	23
p2	20-30	20 Mar	14 Apr	9-17	11-13	39	19	19	21
p3	30-40	22 Mar	26 Apr	17-24	13-16	29	17	27	27
p4	40-50	24 Mar	8 May	24-32	16-18	28	16	28	28
p5	50-60	24 Mar	18 May	32-39	18-21	18	17	30	35
p6	60-70	17 Mar	21 May	39-48	21-22	18	19	35	26

H - Humid ($P \geq PET$)

1 - Moist subhumid ($P > 0.5 PET$ but $< PET$)

2 - Dry subhumid ($P > 0$ but $< 0.5 PET$)

D - Dry ($P = 0$)

Table 2.6 GENERALIZED MOISTURE CHARACTERISTICS OF KHARIF GROWING PERIOD (K100) ZONES

Zone	Kharif Growing Period (K100)		Kharif Humid Period (BH-EHO)			Rabi Growing Period (R250)		
	Days	Period	Days	Period	Excess rain- fall (mm)	Days	Period	
K1	170-180	27 May-18 Nov	105-115	22 Jun-12 Oct	600-750	105-115	12 Oct-30 Jan	
K2	180-190	24 May-25 Nov	115-130	13 Jun-15 Oct	650-800	115-125	15 Oct-12 Feb	
K3	190-200	21 May- 2 Dec	115-135	10 Jun-15 Oct	700-1200	115-135	15 Oct-17 Feb	
K4	200-210	18 May- 9 Dec	125-145	1 Jun-15 Oct	700-1200	115-135	15 Oct-17 Feb	
K5	210-220	9 May-10 Dec	130-160	20 May-15 Oct	700-1500	120-140	15 Oct-22 Feb	
K6	220-230	3 May-14 Dec	140-170	17 May-21 Oct	800-2000*	120-145	21 Oct- 2 Mar**	
K7	230-240	27 Apr-18 Dec	155-175	10 May-24 Oct	1200-2500	120-145	24 Oct- 5 Mar	
K8	240-250	24 Apr-25 Dec	165-175	5 May-24 Oct	1400-2500	135-150	24 Oct-15 Mar	
K9	250-260	18 Apr-29 Dec	165-180	5 May-27 Oct	1600-2800	135-150	27 Oct-18 Mar	
K10	260-270	12 Apr- 2 Jan	170-190	27 Apr-27 Oct	1800-4000	135-150	27 Oct-18 Mar	
K11	270-280	3 Apr- 3 Jan	185-195	20 Apr- 1 Nov	2500-4000	135-150	1 Nov-22 Mar	
K12	280-290	27 Mar- 6 Jan	195-210	10 Apr- 3 Nov	3000-4500	135-150	3 Nov-25 Mar	

* Excess moisture of Humid Moisture Period in K6 zone for areas of coastal Chittagong, Sandwip and Hatiya is in the range 2000-3000 mm.

** Rabi periods in K6 zone for areas of coastal Chittagong, Sandwip and Hatiya end 10-15 days earlier than elsewhere in the zone.

Fig. 2.2

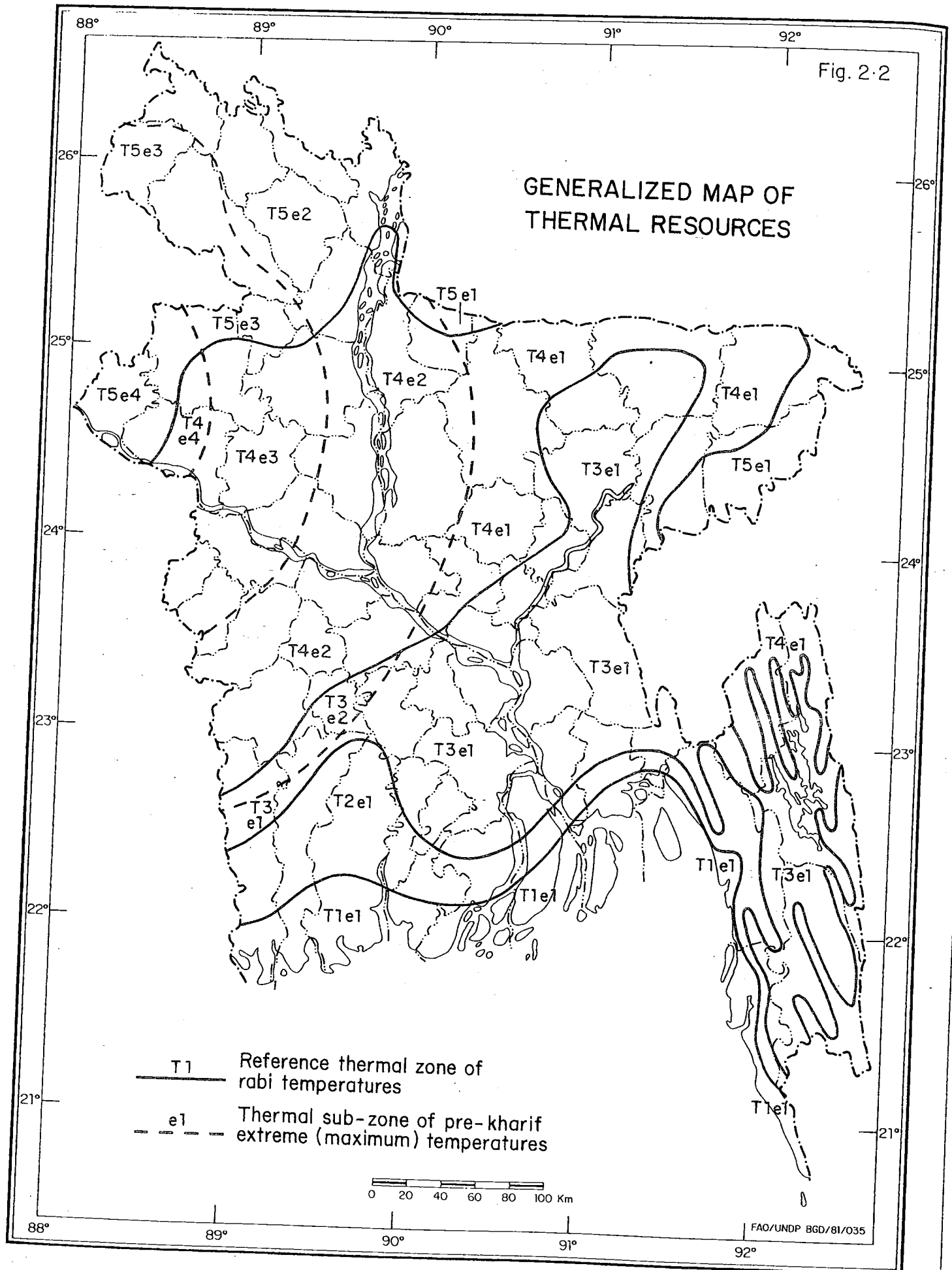


Table 2.7 COUNTRY SUMMARY OF EXTENTS OF MOISTURE ZONES

Pre-kharif transition (P) zones		Kharif growing period (K) zones												Total																	
K1	K2	K3	K4	K5	K6	K7	K8	K9	K10	K11	K12																				
Ha																															
p1	0	0	0	0	0	0	0	0	0	170	266	155	141	255	912	581	319														
p2	0	0	0	0	0	0	65	026	65	509	136	486	627	131	0	0	894	152													
p3	0	0	0	37	835	210	906	673	812	812	857	170	561	48	940	0	1	954	911												
p4	0	0	246	742	206	950	1	091	470	4	587	476	837	077	0	0	0	6	969	715											
p5	41	399	433	123	323	264	1	890	791	1	048	972	0	0	0	0	0	3	737	549											
p6	0	0	42	712	297	610	0	0	0	0	0	0	0	0	0	0	0	340	322												
Total	41	399	433	123	612	718	2	433	186	2	351	348	5	261	288	1	714	960	236	070	185	426	797	397	155	141	255	912	14	477	968

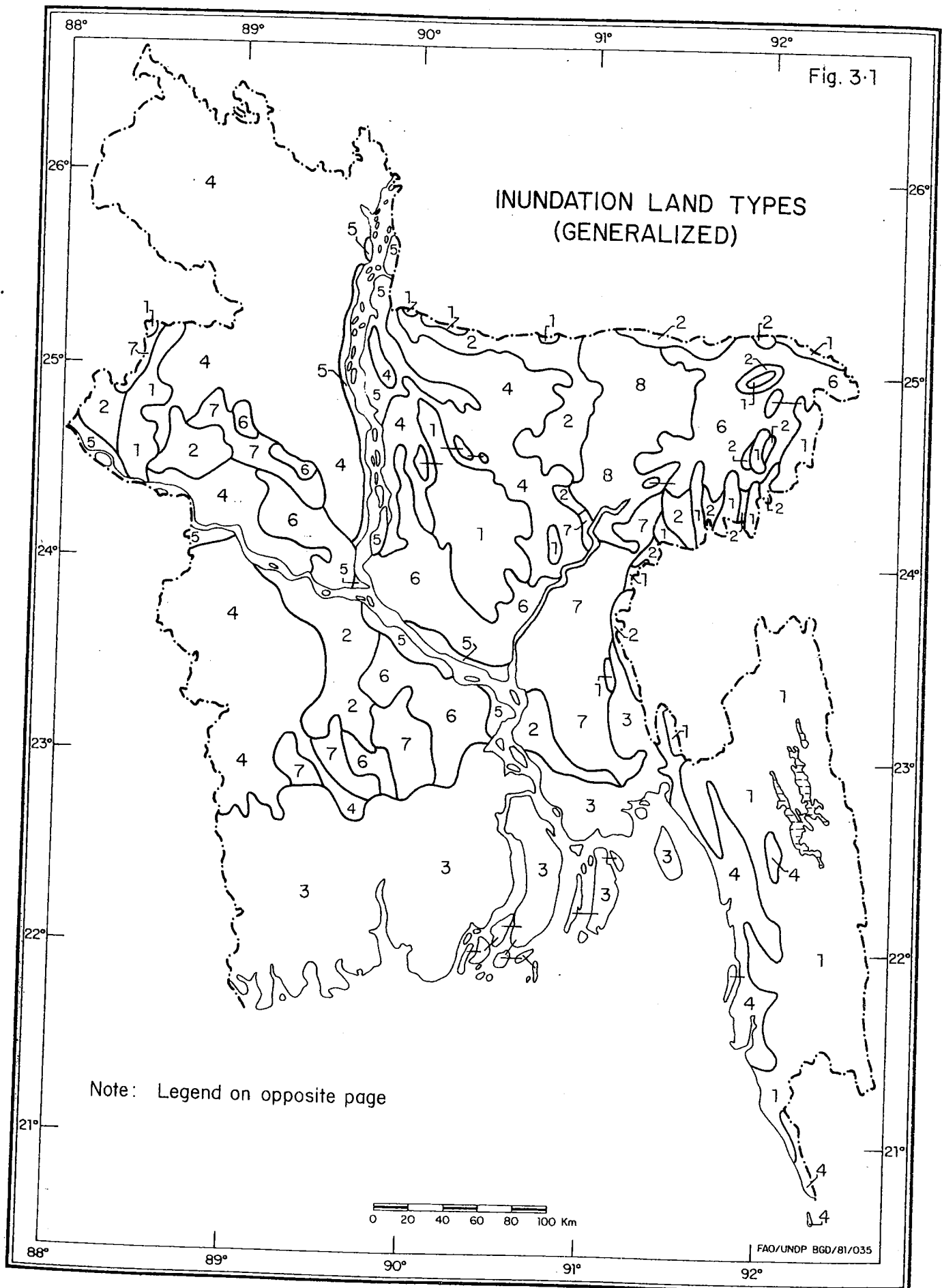
Chapter 3

INUNDATION RESOURCES LEGEND

The inundation resources inventory described in Volume I of this report provides detailed information on inundation land types and disastrous flooding hazards. Table 3.1 below provides a country summary of the extents of land in each inundation land type and of land exposed to various flood hazards.

Figure 3.1 shows a highly generalized map of the predominant inundation land types in different parts of the country. As is illustrated below in Figure 4.2, several land types may occur within the area of a single village in Bangladesh's floodplain landscapes. The relationship between inundation land types and seasonal depth of inundation is illustrated in Figure 3.2.

Figure 3.3 provides an example of the inundation regime analysis carried out on the weekly records of groundwater-levels in 435 wells monitored by the Bangladesh Water Development Board (BWDB). Mean data for all the wells for which records were analysed are given in Report 3, Volume II, Appendix 3.4.



Legend for Figure 3.1

INUNDATION LAND TYPES

1. Mainly Highland
2. Highland to Medium Lowland
3. Mainly Medium Highland
4. Medium Highland and Highland
5. Medium Highland and Medium Lowland
6. Medium Highland to Lowland
7. Medium Lowland and Lowland
8. Lowland and Very Lowland

Table 3.1 COUNTRY SUMMARY OF EXTENTS OF INUNDATION LAND TYPES AND DISASTROUS FLOODING HAZARDS

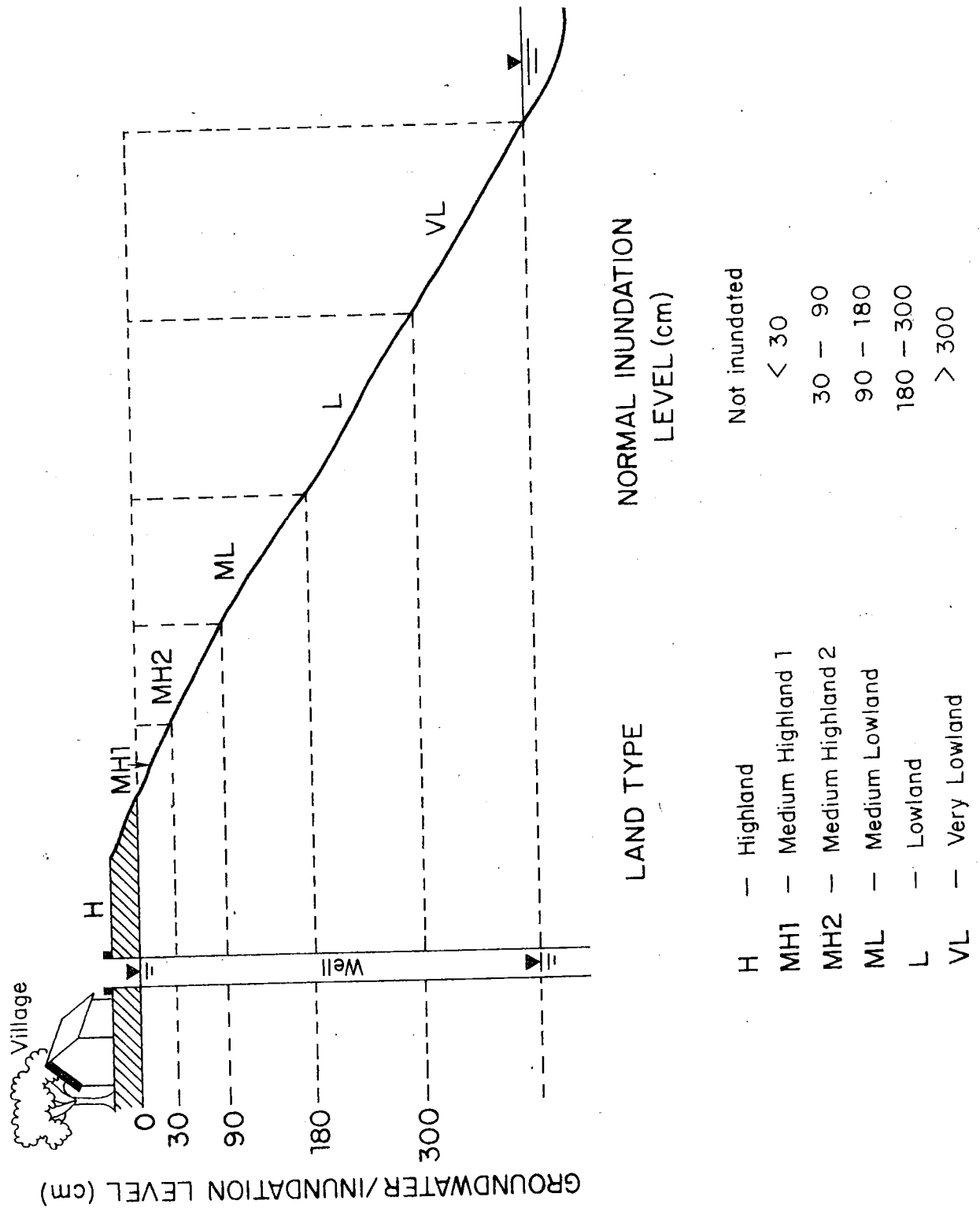
AEZ INUNDATION REGIME INVENTORY - BANGLADESH

LAND TYPES AND FLOODING HAZARDS

COUNTRY SUMMARY

LAND TYPES	INUNDATION DEPTH (M)	EXTENT (HA)	DISASTROUS FLOODING HAZARDS					
			FLOOD(Z) AREA %	FREQ %	RIVER EROSION(X) AREA %	FREQ %	STORM SURGE(Y) AREA %	FREQ %
HIGHLAND			1	2-5	2	20-50		
MEDIUM HIGHLAND-1	0.0 - 0.3	3889580						
MEDIUM HIGHLAND-1 BOTTOMLAND	0.0 - 0.3	1181725						
MEDIUM HIGHLAND-2	0.3 - 0.9	1254			100	>50		
MEDIUM HIGHLAND-2 BOTTOMLAND	0.3 - 0.9	3339044						
MEDIUM LOWLAND	0.3 - 0.9	45209					18	20-50
MEDIUM LOWLAND BOTTOMLAND	0.9 - 1.8	1655182						
LOWLAND	0.9 - 1.8	62783						
LOWLAND BOTTOMLAND	1.8 - 3.0	863333						
VERY LOWLAND	1.8 - 3.0	235560	50	>50	5	20-50		
VERY LOWLAND BOTTOMLAND	3.0 - 4.5	96423	22	>50				
	3.0 - 4.5	96820	82	>50				
			23	>50				
SUB-TOTAL			11466913					
HOMESTEAD & WATER			1115722					
TOTAL			12582635					

Figure 3.2 SCHEMATIC PRESENTATION OF THE RELATIONSHIP BETWEEN GROUNDWATER LEVEL AND INUNDATION LEVEL BY LAND TYPE



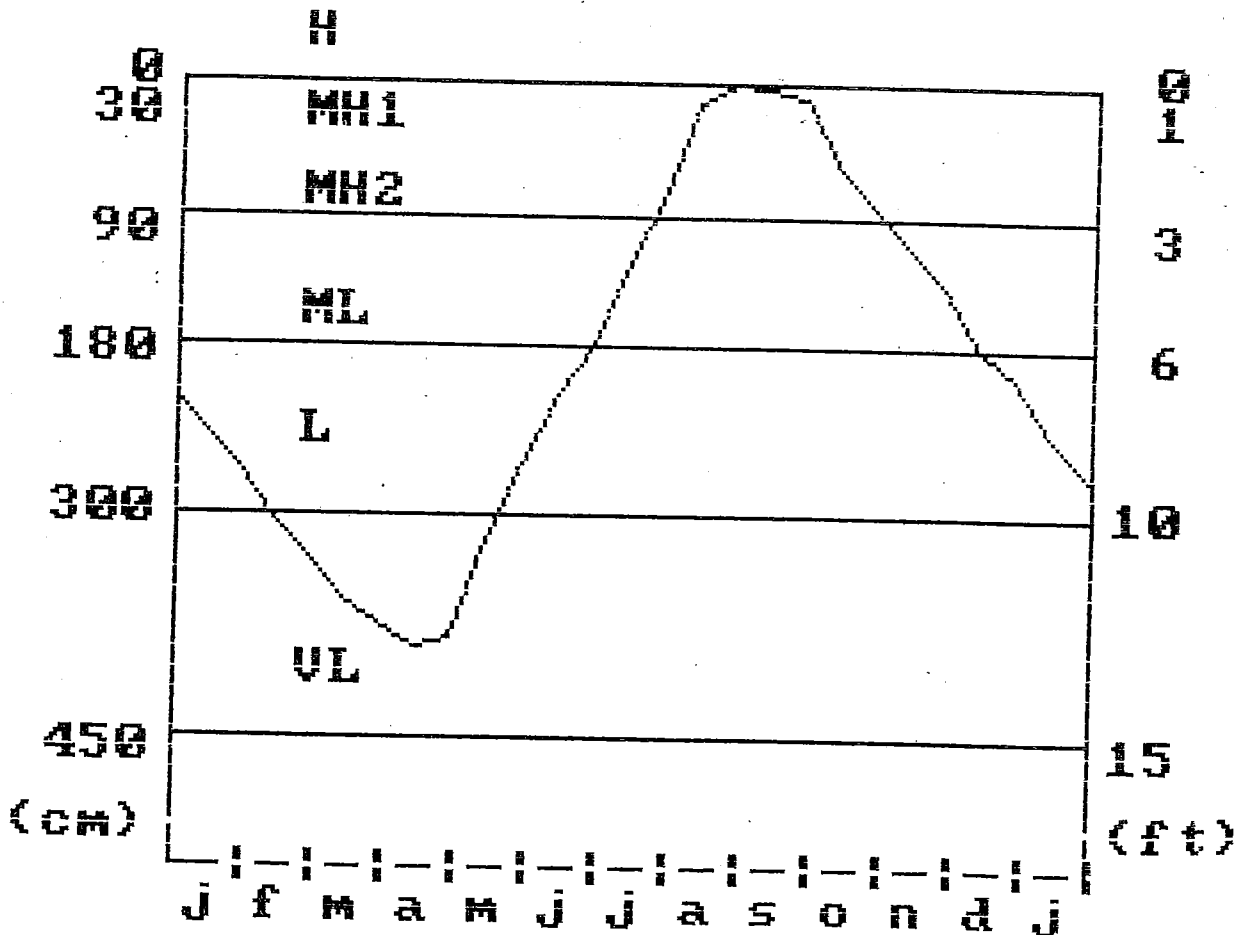
AEZ INUNDATION ANALYSIS - BANGLADESH

Figure 3.3

WELL-044 LATITUDE-23.45 LONGITUDE-90.54 YEARS- 5
 DISTRICT-COMILLA UPAZILA-MURADNAGAR CATCHMENT- 75
 SOIL ASSOCIATION-M0726 THERMAL ZONE-T3E1 MOISTURE ZONE-K06P4

INUNDATION REGIME - AVERAGE PROFILE

LT	IL	BI	EI	IP	OIN	ORI	ORD	SIN	SRI	SRD
H	0	23/ 8	23/ 8	0	-	-	-	-	-	-
MH1	15	7/ 8	25/ 9	48	15-0	0.9	0.5	15- 0	0.9	0.5
MH1/2	30	4/ 8	30/ 9	56	30-0	1.6	0.8	30- 15	5.0	3.0
MH2	60	27/ 7	10/10	73	60-0	2.3	1.3	60- 30	4.3	3.0
MH2/ML	90	20/ 7	26/10	96	90-0	2.7	1.4	90- 60	4.3	1.9
ML	135	5/ 7	21/11	136	135-0	2.8	1.5	135- 90	3.0	1.8
ML/L	180	23/ 6	8/12	165	180-0	3.0	1.7	180-135	3.8	2.6
L	240	29/ 5	10/ 1	221	240-0	2.9	1.8	240-180	2.5	1.9
L/VL	300	12/ 5	8/ 2	266	300-0	3.0	1.8	300-240	3.5	2.1
VL	375	24/ 4	25/ 3	331	375-0	3.2	1.8	375-300	4.2	1.6
VL	450	-	-	-	450-0	-	-	450-375	-	-



LT - LAND TYPE
 H - HIGHLAND
 MH1- MEDIUM HIGHLAND-1
 MH2- MEDIUM HIGHLAND-2
 ML - MEDIUM LOWLAND
 L - LOWLAND
 VL - VERY LOWLAND
 IL - INUNDATION LEVEL(CM)

BI - BEGIN INUNDATION(DATE)
 EI - END INUNDATION(DAYS)
 IP - INUNDATION PERIOD(DAYS)
 OIN- OVERALL INTERVAL(CM)
 ORI- OVERALL RATE OF INCREASE(CM/DAY)
 ORD- OVERALL RATE OF DECREASE(CM/DAY)
 SIN- SPECIFIC INTERVAL(CM)
 SRI- SPECIFIC RATE OF INCREASE(CM/DAY)
 SRD- SPECIFIC RATE OF DECREASE(CM/DAY)

Chapter 4

SOIL AND LANDFORM RESOURCES LEGEND

The 1 034 soil associations shown on the soil maps included in the country's reconnaissance soil survey reports have been consolidated into a unified national legend. The framework for this legend is provided by the 34 physiographic units and subunits described in Volume I of this report. Table 4.1 lists these physiographic units and subunits, and shows the symbols by which they are indicated on the Land Resources Inventory Map. Figure 4.1 shows the distribution of the physiographic units in a generalized manner. Table 4.2 provides a country summary of the extents of physiographic units together with their included inundation land types.

Soil associations typically comprise a number of different soil series occurring in sequence between the highest and lowest parts of the landscape within which they are mapped. Figure 4.2 illustrates a transect across the ridge and basin relief of a typical floodplain soil association. Figure 4.3 shows the composition of such an association.

Bangladesh's 574 soil series (including variants) have been classified within 21 General Soil Types. Summary descriptions of these are given in Table 4.3, and a country summary of their extents is given in Table 4.4. Figure 4.4 presents a highly generalized map showing the distribution of the most extensive General Soil Types. Detailed descriptions of General Soil Types and their distribution are given in Report 2. A correlation between General Soil Types, soil units and subunits of the FAO-Unesco Soil Map of the World (FAO 1985) and subgroups of the USDA Soil Taxonomy (Soil Survey Staff) is provided in Report 2, Table 3.2, and in Report 5, Volume I, Table 4.4.

Appendix 4.1 presents the main soil and landform legend for individual Land Resources Inventory Map sheets. This legend provides information:

- (a) on the reconnaissance soil survey report(s) from which the data were derived;
- (b) for each soil association occurring on the sheet:
 - (i) the map symbol;
 - (ii) the physiographic unit or subunit in which the soil association occurs (indicated in the map symbol, as illustrated in Figure 4.3);
 - (iii) the soil series included in the soil association, together with their inundation land type(s), parent material, classification in the General Soil Type, FAO-Unesco and USDA systems, and area (in hectares);
 - (iv) the area of homesteads and water, if any;
 - (v) the total area of the soil association;
 - (vi) a summary showing the total area on the sheet occupied by soils, various miscellaneous land types, water of various kinds and unsurveyed land (if any), together with the total area of the sheet.

The number given in brackets below each soil series name listed in Appendix 4.1 is the code number of the soil series in the data base. Within each soil association described in the table, the soil series are listed in numerical order of these code numbers within each inundation land type. The topographical sequence in which the soils normally occur within a particular association is shown in the full description of the association given in the reconnaissance soil survey report indicated in column 1 of the table.

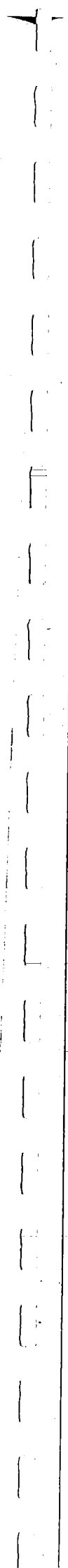


Table 4.1 PHYSIOGRAPHIC UNITS AND SUBUNITS

Unit	Sub-unit	Symbol 1/	Name	Area (in sq.km)
1		Ph	Old Himalayan Piedmont Plain	4 008
2		-	Tista Floodplain	10 304
	2a	Ta	- Active Tista Floodplain	(836)
	2b	Tm	- Tista Meander Floodplain	(9 468)
3		Kb	Karatoya-Bangali Floodplain	2 572
4		Al	Lower Atrai Basin	851
5		Pl	Lower Purnabhaha Floodplain	129
6		-	Brahmaputra Floodplain	16 344
	6a	Ba	- Active Brahmaputra-Jamuna Floodplain	(3 190)
	6b	By	- Young Brahmaputra and Jamuna Floodplains	(5 924)
	6c	Bo	- Old Brahmaputra Floodplain	(7 230)
7		-	Ganges River Floodplain	24 508
	7a	Ga	- Active Ganges Floodplain	(3 335)
	7b	Gh	- High Ganges River Floodplain	(13 205)
	7c	Gl	- Low Ganges River Floodplain	(7 968)
8		-	Ganges Tidal Floodplain	17 066
	8a	Gn	- Ganges Tidal Floodplain (non-saline)	(5 238)
	8b	Gs	- Ganges Tidal Floodplain (saline)	(6 258)
	8c	Gm	- Ganges Tidal Floodplain (Sunderbans)	(5 570)
9		Gb	Gopalganj-Khulna Bils	2 247
10		Ab	Arial Bil	144
11		-	Meghna River Floodplain	2 464
	11a	Mm	- Middle Meghna River Floodplain	(1 555)
	11b	MI	- Lower Meghna River Floodplain	(909)
12		-	Meghna Estuarine Floodplain	17 011
	12a	Mn	- Young Meghna Estuarine Floodplain (non-saline)	(2 136)
	12b	Ms	- Young Meghna Estuarine Floodplain (saline)	(7 135)
	12c	Mo	- Old Meghna Estuarine Floodplain	(7 740)
13		-	Surma-Kusiyara Floodplain	9 195
	13a	Se	- Eastern Surma-Kusiyara Floodplain	(4 622)
	13b	Sb	- Sylhet Basin	(4 573)
14		Pn	Northern and Eastern Piedmont Plains	4 038
15		Cc	Chittagong Coastal Plain	3 720
16		Ci	St Martin's Coral Island	8
17		-	Barind Tract	7 727
	17a	Bl	- Level Barind Tract	(5 048)
	17b	Bn	- North-eastern Barind Tract	(1 079)
	17c	Bd	- High Barind Tract	(1 600)
18		Mt	Madhupur Tract	4 244
19		-	Northern and Eastern Hills	18 172
	19a	Hh	- High Hill Ranges	(10 944)
	19b	Hl	- Low Hills	(7 228)
20		Ha	Akhaura Terrace	113

1/ These symbols are used in the mapping unit symbols on the Land Resources Inventory Map.

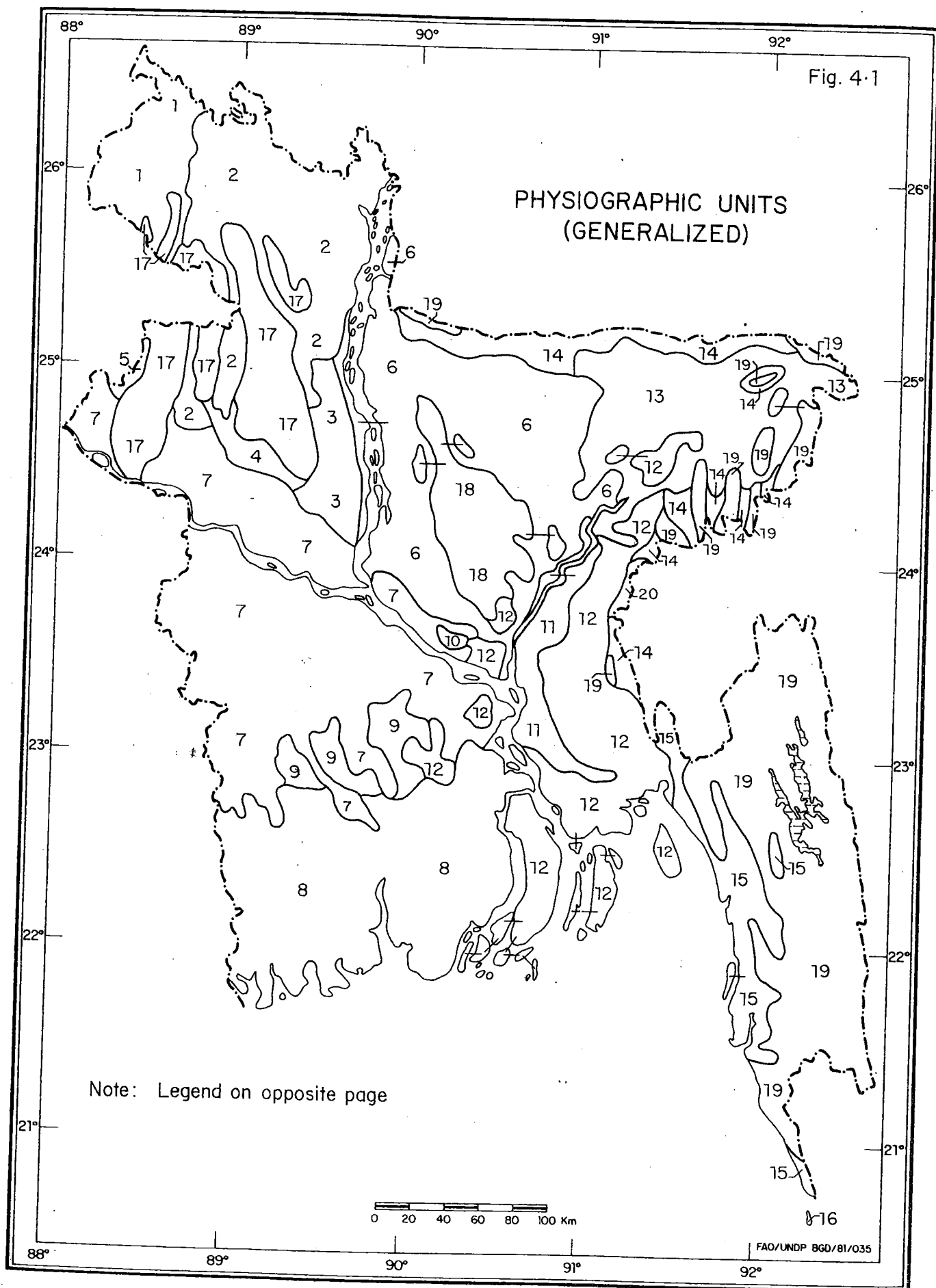
Table 4.2 COUNTRY SUMMARY OF EXTENTS OF INUNDATION LAND TYPES BY PHYSIOGRAPHIC UNIT

Physiographic unit	Highland	Medium Highland	Medium Lowland	Area in inundation land type (Ha)			Homesteads + water	Total
				Very Lowland	Lowland	Very Lowland		
1 Old Himalayan Piedmont Plain	234 315	134 119	2 912	0	0	0	26 808	398 154
2 Tista Floodplain	331 726	543 459	40 358	5 131	0	0	109 773	1 030 447
2a Active Tista Floodplain	1 968	59 750	0	0	0	0	21 926	83 644
2b Tista Meander Floodplain	329 758	483 709	40 358	5 131	0	0	87 847	946 803
3 Karatoya-Bangali Floodplain	59 940	113 382	34 903	11 509	1 447	0	35 977	257 158
4 Lower Atrai Basin	1 724	7 165	17 780	54 681	0	0	3 755	85 105
5 Lower Purnabhaba Floodplain	0	0	1 290	7 737	0	0	3 869	12 896
6 Brahmaputra Floodplain	323 925	614 274	321 527	133 444	91	0	241 171	1 315 463
6a Active Brahmaputra-Jamuna Floodplain	16 924	117 287	63 324	26 155	0	0	95 311	319 001
6b Young Brahmaputra and Jamuna Floodplains	105 500	245 206	114 732	53 123	0	0	73 833	592 394
6c Old Brahmaputra Floodplain	201 501	251 781	143 471	54 166	91	0	72 027	723 037
7 Ganges River Floodplain	703 461	757 471	470 016	153 230	14 169	0	352 400	2 450 747
7a Active Ganges Floodplain	39 183	109 467	61 064	14 036	0	0	109 697	333 447
7b High Ganges River Floodplain	562 642	416 688	161 758	29 962	0	0	149 499	1 320 549
7c Low Ganges River Floodplain	101 636	231 316	247 194	109 232	14 169	0	93 204	796 751
8 Ganges Tidal Floodplain	39 075	1 321 463	39 267	68	0	0	306 700	1 706 573
8a Ganges Tidal Floodplain (non-saline)	22 132	400 414	4 700	68	0	0	96 468	523 782
8b Ganges Tidal Floodplain (saline)	15 741	499 803	11 569	0	0	0	98 644	625 757
8c Ganges Tidal Floodplain (Sunderbans)	1 202	421 246	22 998	0	0	0	111 588	557 034
9 Gopalganj-Khulna Bils	6 353	29 208	90 912	63 772	25 461	0	8 994	224 700
10 Arial Bil	0	0	1 877	10 538	0	0	2 021	14 436
11 Meghna River Floodplain	12 307	27 786	74 386	38 205	17 520	0	66 114	246 398
11a Middle Meghna River Floodplain	13	12 755	45 176	38 213	17 520	0	41 787	155 464
11b Lower Meghna River Floodplain	12 294	15 031	29 210	72	0	0	24 327	90 934
12 Meghna Estuarine Floodplain	14 666	602 242	321 921	166 089	23 563	0	738 519	1 700 911
12a Young Meghna Estuarine Floodplain (non saline)	0	122 727	4 202	0	0	0	86 449	213 378
12b Young Meghna Estuarine Floodplain (saline)	734	295 570	64 028	0	0	0	353 175	713 507
12c Old Meghna Estuarine Floodplain	13 932	183 945	253 691	166 089	23 563	0	132 806	774 026

Table 4.2 (cont'd)

Physiographic unit	Highland	Area in inundation land type (Ha)				Homesteads + water	Total
		Medium Highlandl/	Medium Lowland	Very Lowland			
13 Surma-Kusiyara Floodplain	22 611	131 898	178 935	107 065	111 771	919 504	
13a Eastern Surma-Kusiyara Floodplain	22 273	116 099	90 594	158	63 630	462 159	
13b Sylhet Basin	338	15 799	88 341	106 907	48 141	457 345	
14 Northern and Eastern Piedmont Plains	132 479	126 688	64 628	3 499	39 742	403 758	
15 Chittagong Coastal Plain	61 835	163 512	47 671	0	98 873	372 007	
16 St Martin's Coral Island	264	508	16	0	16	804	
17 Barind Tract	337 451	337 994	22 735	0	63 727	772 741	
17a Level Barind Tract	149 590	276 076	21 907	0	47 099	504 851	
17b North-eastern Barind Tract	38 922	60 766	719	0	7 519	107 926	
17c High Barind Tract	148 939	1 152	109	0	9 109	159 964	
18 Madhupur Tract	233 945	76 416	31 568	0	42 847	424 359	
19 Northern and Eastern Hills	1 677 618	40 867	7 255	140	90 387	1 817 172	
19a High Hill Ranges	1 069 346	6 797	1 644	0	16 583	1 094 390	
19b Low Hills	608 272	34 070	5 611	140	73 804	722 782	
20 Akhaura Terrace	6 257	1 272	1 145	288	670	11 324	
Total	4 199 952	5 039 724	1 771 102	193 243	2 178 045	14 483 626	

1/ Medium Highland 1 and 2 combined. Individual areas for MH1 and MH2 are obtainable from the BARC Computer Centre, together with figures for Bottomland in each inundation land type.



Legend for Figure 4.1

PHYSIOGRAPHIC UNITS

- 1 Old Himalayan Piedmont Plain (Ph) 1/
- 2 Tista Floodplain (Ta, Tm)
- 3 Karatoya-Bangali Floodplain (Kb)
- 4 Lower Atrai Basin (Al)
- 5 Lower Purnabhaha Floodplain (Pl)
- 6 Brahmaputra Floodplain
 - 6a Active Floodplain (Ba)
 - 6b Young Brahmaputra and Jamuna Floodplains (By)
 - 6c Old Brahmaputra Floodplain (Bo)
- 7 Ganges River Floodplain
 - 7a Active Floodplain (Ga)
 - 7b High Ganges River Floodplain (Gh)
 - 7c Low Ganges River Floodplain (Gl)
- 8 Ganges Tidal Floodplain (Gn, Gs, Gm)
- 9 Gopalganj-Khulna Bils (Gb)
- 10 Arial Bil (Ab)
- 11 Meghna River Floodplain (Mm, Ml)
- 12 Meghna Estuarine Floodplain
 - 12a+ Young Meghna Estuarine Floodplain (saline & non-saline)
 - b (Mn, Ms)
 - 12c Old Meghna Estuarine Floodplain (Mo)
- 13 Surma-Kusiyara Floodplain
 - 13a Eastern Surma-Kusiyara Floodplain (Se)
 - 13b Sylhet Basin (Sb)
- 14 Northern and Eastern Piedmont Plains (Pn)
- 15 Chittagong Coastal Plain (Cc)
- 16 St Martin's Coral Island (Ci)
- 17 Barind Tract (Bl, Bn, Bd)
- 18 Madhupur Tract (Mt)
- 19 Northern and Eastern Hills (Hh, Hl)
- 20 Akhaura Terrace (Ha)

1/ Prefix symbol for Physiographic Unit/Subunit used on Land Resources Inventory Map sheets and in map Legend

Figure 4.2 RELATIONSHIP OF SOILS TO TOPOGRAPHY IN A TYPICAL SOIL ASSOCIATION (MO 726)

General Soil Type	Noncalcareous Dark Grey Floodplain Soils										
FAO soil unit	Eutric Gleysols										
Land type	Soil series										
Highland	Homesteads										
Medium Highland	Tippera										
Medium Lowland	Jalkundi Dhamti										
Lowland	Barura										
% of association	10	5	5	10	30	10	25	5	Water		
Soil descriptions											
Drainage class	p		p		p		p		p		
Topsoil colour	og		dg		dg-dog		g		dg-vdg		
Topsoil texture	sil-sic		sil-sic		sil		sil-sic		sil-sic		
Subsoil colour	o-og		log-oy		og-dg		vdgb/o-og		vdgb-vdgb/lob		
Subsoil texture	sil		sil-sic		sil		sil		sil-sic		
A1 thickness (cm)	0		15		15-50		15-50		25-50 +		
Selected laboratory data											
Topsoil OM %	1.7	3.1	1.5	1.4	1.4	2.0	2.9	2.9			
Topsoil pH	5.0	5.3	5.4	5.7	5.7	5.9	5.4	5.4			
Subsoil pH	7.5	7.3	7.3	7.7	7.7	7.1	6.4	6.4			
Subsoil clay %	24	18	18	16	16	45	37	37			

Notes : 1 Adapted from Noakhali-Comilla reconnaissance soil survey report; Comilla soil association 17

2 Abbreviations. Colour :

o=olive g=grey og=olive-grey dg=dark grey yb=yellow-brown dog=dark olive-grey
lob=light olive-brown vdgb=very dark grey vdg=very dark grey-brown

Texture :

sil=silt loam sici=silty clay loam sic=silty clay

Laboratory data : OM = organic matter

3 Laboratory data show results for single profiles. They do not indicate range in contents within the series

Figure 4.3 MAKE-UP OF A SOIL ASSOCIATION MAP UNIT

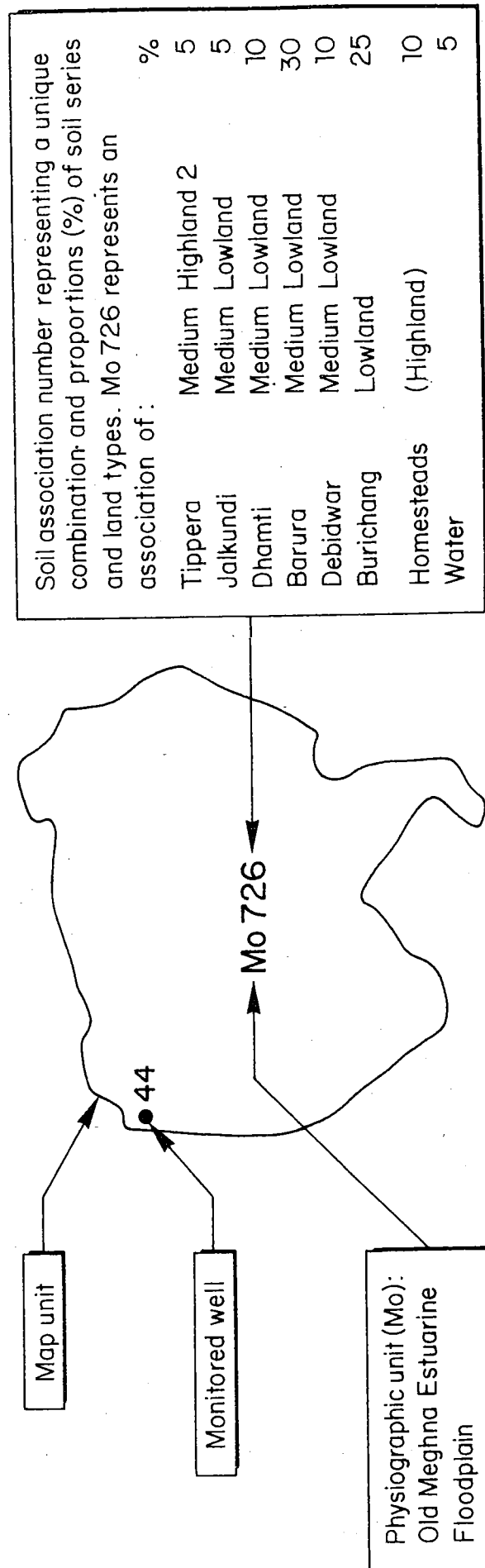


Table 4.3 SUMMARY DESCRIPTIONS OF GENERAL SOIL TYPES

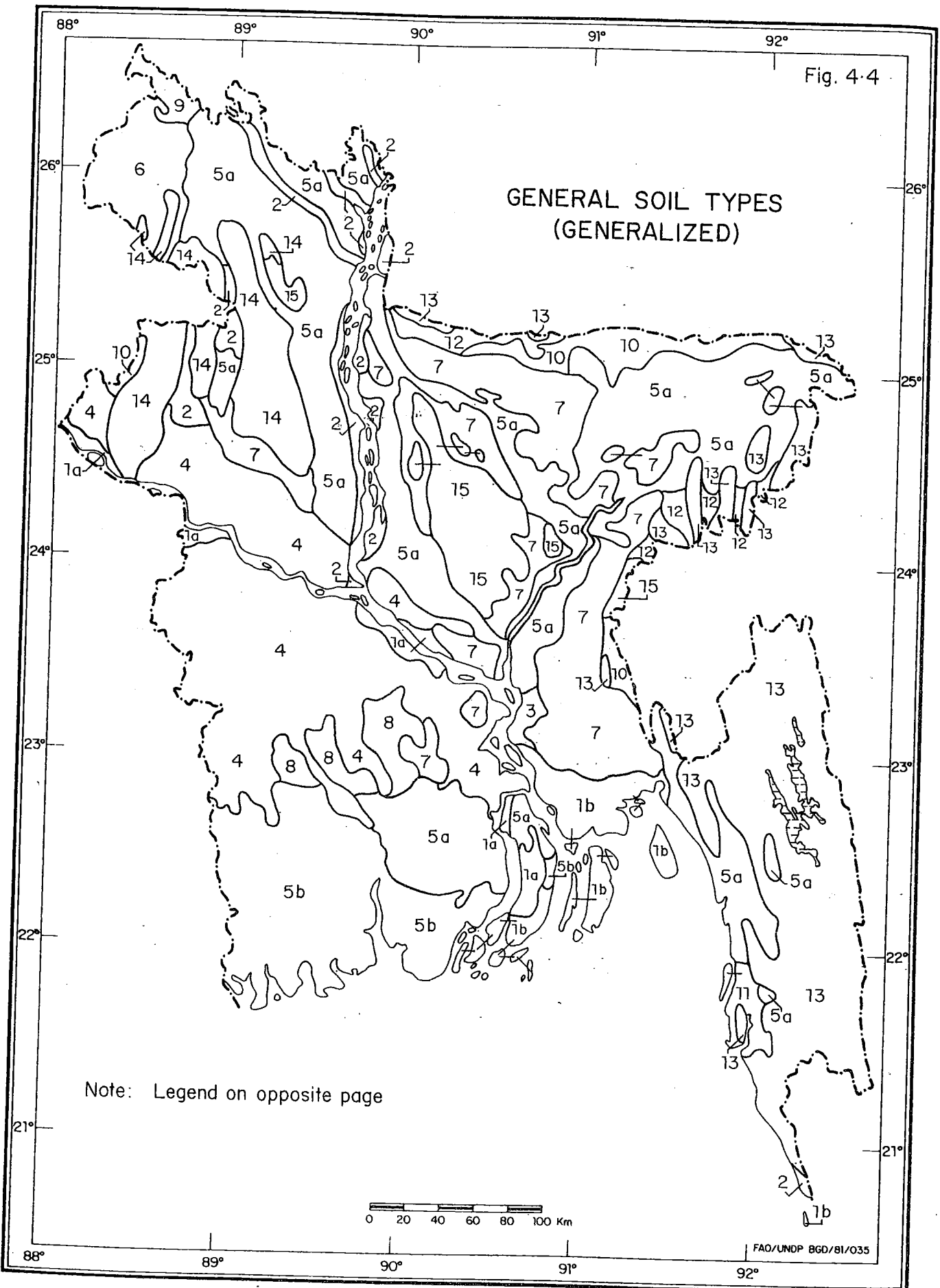
General Soil Type	Diagnostic Properties
<u>Floodplain Soils</u>	
1. Calcareous Alluvium	Raw or stratified alluvium; calcareous throughout or within 125 cm from surface.
2. Noncalcareous Alluvium	Raw or stratified alluvium; not calcareous or sulphidic within 125 cm from surface (but generally neutral to moderately alkaline).
3. Calcareous Brown Floodplain Soils	Moderately well to imperfectly drained floodplain ridge soils with a well oxidized cambic B horizon; calcareous throughout or within 125 cm from surface.
4. Calcareous Grey Floodplain Soils	Seasonally flooded soils with a cambic B horizon which is dominantly grey and/or has prominent grey gleyans; calcareous throughout or within 125 cm from surface.
5. Calcareous Dark Grey Floodplain Soils	Seasonally flooded soils with a cambic B horizon which either is dominantly dark grey or has prominent dark grey gleyans or pressure faces; calcareous within 125 cm from surface. Many basin soils have a neutral to acid topsoil and a near-neutral subsoil over a calcareous substratum at 40-60 cm.
6. Noncalcareous Grey Floodplain Soils	Seasonally flooded soils with a cambic B horizon which is dominantly grey and/or has prominent grey gleyans; not calcareous within 125 cm from surface. Topsoil generally is slightly to very strongly acid (when not submerged); lower layers generally are slightly acid to moderately alkaline.
7. Noncalcareous Brown Floodplain Soils	Moderately well to imperfectly drained floodplain ridge soils with a well oxidized cambic B horizon; not calcareous within 125 cm from surface. Topsoil and upper subsoil generally are medium to strongly acid; lower layers are less acid to neutral. Soils on Old Himalayan Piedmont Plain have a thick dark brown topsoil and are transitional to Black Terai Soils.
8. Noncalcareous Dark Grey Floodplain Soils	Soils similar to Noncalcareous Grey Floodplain Soils but with a dark grey cambic B horizon and/or dark grey gleyans.
9. Black Terai Soils	Imperfectly to poorly drained soils with a very dark brown to black topsoil more than 25 cm thick. A brown cambic B horizon occurs in soils where the dark A horizon is less than about 90 cm thick. Medium to strongly acid in upper layers; less acid to neutral below.
10. Acid Basin Clays	Poorly or very poorly drained, grey or dark grey heavy clays with a cambic B horizon; very strongly or extremely acid (pH <5) to 50 cm or more, but not sulphuric or sulphidic.
11. Acid Sulphate Soils	Poorly or very poorly drained, grey or dark grey soils, with or without a cambic B horizon, which are actually or potentially toxically acid (pH <3.5) within 125 cm from surface. Associated with present or former Sunderbans forest. Mainly saline.

Table 4.3 (cont.)

General Soil Type	Diagnostic Properties
12. Peat	Very poorly drained soils in which organic matter (peat or muck) comprises all or more than half of the upper 80 cm.
13. Grey Piedmont Soils	Imperfectly to poorly drained soils in piedmont alluvium; similar to Noncalcareous Grey Floodplain Soils, but generally having a more prominently mottled subsoil which is medium to strongly acid.
<u>Hill soils</u>	
14. Brown Hill Soils	Excessively to moderately well drained soils with a yellow-brown to strong brown (locally red-brown), cambic or argillic B horizon (except where very shallow), mainly overlying soft or fragmented rock at 50-100 cm. Mainly very strongly or extremely acid throughout; sometimes less acid in the surface layer and in weathering rock.
<u>Terrace Soils</u>	
15. Shallow Red-Brown Terrace Soils	Moderately well to imperfectly drained, olive-yellow to strong brown soils with a cambic or argillic B horizon overlying grey, heavy, Madhupur Clay at 25-60 cm. Mainly strongly or very strongly acid, but very shallow soils locally contain lime nodules.
16. Deep Red-Brown Terrace Soils	Well drained to moderately well drained, red to yellow-brown soils with a cambic or argillic B horizon overlying a strongly red-mottled pervious clay substratum. Strongly or very strongly acid throughout.
17. Brown Mottled Terrace Soils	Imperfectly drained soils similar to Deep Red-Brown Terrace Soils but with a strongly mottled pale brown and red subsoil overlying the dominantly red-mottled substratum.
18. Shallow Grey Terrace Soils	Poorly drained, grey (albic), silty soils overlying grey, heavy, Madhupur Clay at 20-60 cm. Slightly to strongly acid in the silty topsoil and subsoil, becoming less acid (locally calcareous) in the clay substratum.
19. Deep Grey Terrace Soils	Poorly drained, grey (albic), silty soils, more red-mottled in the subsoil than the shallow soils and overlying a dominantly red-mottled, pervious, clay substratum. Mainly medium to strongly acid throughout.
20. Grey Valley Soils	Poorly drained, deep, grey (albic), porous, silty soils occurring in terrace valleys.
<u>Man-Made Land</u>	
21. Made-land	Soils on artificially raised cultivation platforms; better drained and more permeable than the soil materials from which they are derived, but broadly similar to them in other properties.

Fig. 4.4

GENERAL SOIL TYPES (GENERALIZED)



Legend for Figure 4.4

GENERAL SOIL TYPES

- 1a Calcareous Alluvium (non-saline)
- 1b Calcareous Alluvium (seasonally saline)
- 2 Noncalcareous Alluvium
- 3 Calcareous Grey Floodplain Soils
- 4 Calcareous Dark Grey Floodplain Soils
- 5a Noncalcareous Grey Floodplain Soils (non-saline)
- 5b Noncalcareous Grey Floodplain Soils (seasonally saline)
- 6 Noncalcareous Brown Floodplain Soils
- 7 Noncalcareous Dark Grey Floodplain Soils
- 8 Noncalcareous Dark Grey Floodplain Soils and Peat
- 9 Black Terai Soils
- 10 Acid Basin Clays
- 11 Acid Sulphate Soils
- 12 Grey Piedmont Soils
- 13 Brown Hill Soils
- 14 Shallow and Deep Grey Terrace Soils
- 15 Deep Red-Brown Terrace Soils

Note: Only the principal General Soil Type of each map unit is indicated. A more detailed soils legend is given on the Agroecological Regions and Subregions Map in Report 2.

Table 4.4 COUNTRY SUMMARY OF AREA AND PROPORTIONS
OCCUPIED BY GENERAL SOIL TYPES

General Soil Type	Area ha	Proportion %
<u>Floodplain Soils</u>		
Calcareous Alluvium	591 796	4.1
Noncalcareous Alluvium	562 242	3.9
Calcareous Brown Floodplain Soils	478 518	3.3
Calcareous Grey Floodplain Soils	170 767	1.2
Calcareous Dark Grey Floodplain Soils	1 434 678	9.9
Noncalcareous Grey Floodplain Soils	3 387 153	23.4
Noncalcareous Brown Floodplain Soils	383 312	2.6
Noncalcareous Dark Grey Floodplain Soils	1 599 645	11.0
Black Terai Soils	83 408	0.6
Acid Basin Clays	348 994	2.4
Acid Sulphate Soils	226 647	1.6
Peat	130 005	0.9
Grey Piedmont Soils	215 279	1.5
Made-land	106 278	0.7
Area of Floodplain Soils	9 718 722	67.1
Proportion of total soil area		(79.0)
<u>Hill Soils</u>		
Brown Hill Soils	1 561 472	10.8
Area of Hill Soils	1 561 472	10.8
Proportion of total soil area		(12.7)
<u>Terrace Soils</u>		
Shallow Red-Brown Terrace Soils	72 549	0.5
Deep Red-Brown Terrace Soils	39 380	1.3
Brown Mottled Terrace Soils	34 235	0.3
Shallow Grey Terrace Soils	265 427	1.8
Deep Grey Terrace Soils	352 152	2.4
Grey Valley Soils	114 287	0.8
Area of Terrace Soils	1 028 030	7.1
Proportion of total soil area		(8.3)
Total Soil Area	12 308 224	85.0
<u>Miscellaneous Land Types</u>		
Rivers, bils, etc.	973 430	6.7
Urban	81 945	0.6
Homesteads + included tanks	1 122 670	7.7
Area of Miscellaneous Land Types	2 178 045	15.0
TOTAL	14 486 269	100.0

REFERENCES

FAO. FAO-Unesco Soil Map of the World. Draft Revised Legend. FAO, Rome. (The amended
1985 Fourth Draft of the Revised Legend published in 1987 contains minor changes from
the 1985 draft, chiefly in the introduction of new symbols for soil units: see
Report 2, Appendix Table A3.3.)

Soil Survey Staff. Soil Taxonomy. Agriculture Handbook No 436. Soil Conservation Service,
1975 US Dept. of Agriculture. Washington, D.C.

APPENDIX 1.1

List of Districts and Upazilas

Appendix 1.1

LIST OF DISTRICTS AND UPAZILASDHAKA DIVISION 01

<u>Upazila</u>	<u>Code</u>	<u>Upazila</u>	<u>Code</u>
<u>DHAKA DISTRICT 13</u>			
Nawabganj	80	Dhamrai	259
Dohar	234	Keraniganj	23
Sabhar	258	Tejgaon	236
<u>FARIDPUR DISTRICT 15</u>			
Alfadanga	215	Bhanga	218
Boalmari	216	Char Bhadrason	220
Faridpur	221	Modhukhali	425
Nagarkanda	217	Sadarpur	219
<u>JOYDEBPUR (GAZIPUR) DISTRICT 18</u>			
Kapasias	253	Kaliganj	254
Sripur	255	Jaydebpur	256
Kaliakair	257	Tongi	428
<u>MANIKGANJ DISTRICT 36</u>			
Sibalay	226	Daulatpur	227
Ghior	228	Saturia	229
Manikganj	230	Harirampur	231
Singair	232		
<u>MUNSHIGANJ DISTRICT 39</u>			
Sirajdikhan	238	Srinagar	239
Lohajang	240	Tangibari	241
Munshiganj	242	Gazaria	243
<u>NARAYANGANJ DISTRICT 43</u>			
Fatulla PS	244	Narayanganj	245
Araihazar	247	Rupganj	248
Bandar	441	Siddhirganj	443
Sonargaon	444		
<u>NARSINGHDI DISTRICT 44</u>			
Narsinghdi	249	Raipura	250
Shibpur	251	Manohardi	252
Belabo	449	Palas	450
<u>GOALANDA DISTRICT 19</u>			
Baliakandi	222	Pangsa	223
Goalanda	225	Rajbari	420

Appendix 1.1

LIST OF DISTRICTS AND UPAZILAS

<u>Upazila</u>	<u>Code</u>	<u>Upazila</u>	<u>Code</u>
<u>GOPALGANJ DISTRICT 20</u>			
Gopalganj	212	Muqsudpur	213
Kasiani	214	Kotwalipara	418
Tungipara	420		
<u>MADARIPUR DISTRICT 34</u>			
Kalkini	202	Sibchar	208
Madaripur	209	Rajair	210
<u>JAMALPUR DISTRICT 23</u>			
Sarishabari	268	Jamalpur	269
Madarganj	270	Melandaha	271
Islampur	272	Dewanganj	273
Bahadurabad	421	Bakshiganj	422
<u>SHERPUR DISTRICT 60</u>			
Sribordi	274	Sherpur	275
Nakla	276	Nalitabari	277
Jhinaigati	438		
<u>SARIATPUR DISTRICT 59</u>			
Gosairhat	203	Bhedarganj	204
Sariatpur	205	Naria	206
Janjira	207	Damadya	434
<u>KISHOREGANJ DISTRICT 29</u>			
Husainpur	288	Kishoreganj	289
Pakundia	290	Katiadi	291
Kuliarchar	292	Bhairab Bazar	293
Bajitpur	294	Astagram	295
Nikli	296	Karimganj	297
Itna	298	Mitamoin	427
Tarail	299		
<u>MYMENSINGH DISTRICT 40</u>			
Haluaghat	278	Phulpur	279
Iswarganj	280	Nandail	281
Mymensingh	282	Muktagacha	283
Phulbaria	284	Trisal	285
Bhaluka	286	Gafargaon	287
Gouripur	436		

Appendix 1.1

LIST OF DISTRICTS AND UPAZILAS

<u>Upazila</u>	<u>Code</u>	<u>Upazila</u>	<u>Code</u>
<u>NETRAKONA DISTRICT 47</u>			
Kendua	300	Madan	301
Khaliajuri	302	Mohanganj	303
Atpara	304	Barhatta	305
Netrakona	306	Durgapur	308
Kalmakanda	309	Dhobaura	451
Purbadhala	307		
<u>TANGAIL DISTRICT 64</u>			
Mirzapur	260	Nagarpur	261
Tangail	262	Basail	263
Kalihati	264	Ghatail	265
Gopalpur	266	Madhupur	267
Bhuyanpur	445	Delduar	446
Sakhipur	448		
<u>KHULNA DIVISION 02</u>			
<u>BAGERHAT DISTRICT 01</u>			
Mollahat	161	Fakirhat	162
Bagerhat	163	Rampal	164
Morrelganj	166	Kachua	167
Chitalmari	455	Mangla Port	457
Sarankhola	165		
<u>KHULNA DISTRICT 28</u>			
Paikgachha	153	Dacope	154
Baitaghata	155	Dumuria	156
Phultala	157	Khulna	159
Bajua	470	Koyra	472
Terakhada	160	Daulatpur	158
Rupsa	444		
<u>BARGUNA DISTRICT 03</u>			
Bamna	177	Betagi	178
Barguna	180	Amtali Bandar	181
Patharghata	176		
<u>BARISAL DISTRICT 04</u>			
Bakarganj	191	Barisal	192
Wazirpur	196	Babuganj	197
Mehendiganj	198	Hijla	199
Muladi	200	Gaurnadi	201
Agailjhora	463		

Appendix 1.1

LIST OF DISTRICTS AND UPAZILAS

<u>Upazila</u>	<u>Code</u>	<u>Upazila</u>	<u>Code</u>
<u>BHOLA DISTRICT 05</u>			
Lalmohan	186	Tazumuddin	187
Barahanuddin	188	Daulatkhan	189
Bhola	190	Char Fesson	466
Manpura	467	Char Shashibhusan	500
<u>CHUADANGA DISTRICT 10</u>			
Alamdanga	122	Chuadanga	123
Damurhuda	124	Jibannagar	125
<u>JESSORE DISTRICT 24</u>			
Abhaynagar	139	Bagherpara	140
Jessore	141	Manirampur	142
Kesabpur	143	Jhikergacha	144
Sarsha	145		
<u>JHALAKATI DISTRICT 25</u>			
Kathalia	174	Nalchiti	193
Rajapur	194	Jhalakati	195
<u>JHENAIDAH DISTRICT 26</u>			
Kotchandpur	127	Kaliganj	128
Jhenaidah	129	Harinakunda	130
Sailkupa	131	Chougachha	468
Mahepur			
<u>KUSHTIA DISTRICT 31</u>			
Khoksa	114	Kumarkhali	115
Kushtia	116	Mirpur	117
Bheramara	118	Daulatpur	119
<u>MAGURA DISTRICT 35</u>			
Sripur	132	Magura	133
Salikha	134	Muhammadpur	135
<u>MEHERPUR DISTRICT 37</u>			
Gangni	120	Meherpur	121
<u>NARAIL DISTRICT 42</u>			
Narail	136	Lohagara	137
Kalia	482		

Appendix 1.1

LIST OF DISTRICTS AND UPAZILAS

<u>Upazila</u>	<u>Code</u>	<u>Upazila</u>	<u>Code</u>
<u>PATUAKHALI DISTRICT 52</u>			
Mirzaganj	179	Kalapara	182
Galachipa	183	Patuakhali	184
Bauphal	185	Dasmina	483
Dumki	484		
<u>PIROJPUR DISTRICT 53</u>			
Nazirpur	168	Banaripara	169
Kaukhali	171	Pirojpur	172
Bhandaria	173	Indurkani	169
Matbaria	175	Swarupkati	170
<u>SATKHIRA DISTRICT 57</u>			
Kalaroa	146	Debhata	148
Kaliganj	149	Syamnagar	150
Asasuni	151	Tala	152
Satkhira	159		
<u>RAJSHAHI DIVISION 03</u>			
<u>NAWABGANJ DISTRICT 46</u>			
Gomastapur	77	Bholahat	78
Nawabganj	80	Nachol	81
Sibganj	79		
<u>PABNA DISTRICT 50</u>			
Chatmohar	106	Faridpur	107
Atgharia	108	Ishurdi	109
Pabna	110	Sujanagar	111
Santhia	112	Bera	113
Bhangura	505		
<u>PANCHAGARH DISTRICT 51</u>			
Tetulia	01	Panchagarh	02
Boda	03	Debiganj	04
Atwari	06		
<u>RAJSHAHI DISTRICT 56</u>			
Tanor	82	Godagari	83
Rajshahi	84	Paba	85
Mohanpur	86	Bagmara	87
Durgapur	88	Puthia	89
Charghat	90	Bagha	509

Appendix 1.1

LIST OF DISTRICTS AND UPAZILAS

<u>Upazila</u>	<u>Code</u>	<u>Upazila</u>	<u>Code</u>
<u>RANGPUR DISTRICT 55</u>			
Gangachara	32	Rangpur	33
Pirgachha	35	Badarganj	36
Mitapukur	37	Pirganj	38
Kaunia	34	Taraganj	504
<u>SIRAJGANJ DISTRICT 60</u>			
Taras	97	Raiganj	9
Kazipur	99	Sirajganj	100
Kamarkhanda	101	Belkuchi	102
Chauhali	103	Shahzadpur	104
Ullapara	105		
<u>THAKURGAON DISTRICT 64</u>			
Thakurgaon	05	Baliadangi	07
Ranisankail	08	Haripur	09
Pirganj	10		
<u>DINAJPUR DISTRICT 14</u>			
Bochaganj	11	Biral	12
Dinajpur	13	Kaharol	14
Birganj	15	Khansama	16
Chirirbandar	17	Parbatipur	18
Phulbari	19	Hakimpur	20
Nawabganj	21	Ghoraghat	22
Birampur	490		
<u>GAIBANDHA DISTRICT 17</u>			
Sundarganj	47	Sadullapur	48
Gaibandha	49	Phulchari	50
Saghatta	51	Palasbari	52
Gobindaganj	53		
<u>JAIPURHAT DISTRICT 22</u>			
Panchbibi	54	Jaipurhat	55
Khetlal	56	Akkelpur	488
Kalai	569		
<u>KURIGRAM DISTRICT 30</u>			
Bhurungamari	39	Nageswari	40
Phulbari	41	Kurigram	43
Ulipur	44	Chilmari	45
Rahumari	46	Dhushmara	492
Rajarhat	494		

Appendix 1.1

LIST OF DISTRICTS AND UPAZILAS

<u>Upazila</u>	<u>Code</u>	<u>Upazila</u>	<u>Code</u>
<u>NAOGAON DISTRICT 41</u>			
Raninagar	67	Atrai	68
Manda	69	Niamatpur	70
Mohadevpur	71	Naogaon	72
Badalgachi	73	Dhamoirhat	74
Patnitala	75	Porsa	76
Sapahar	77		
<u>NATOR DISTRICT 45</u>			
Lalpur	91	Bagatipara	92
Nator	93	Baraigram	94
Gurudaspur	95	Singra	96
<u>NILPHAMARI DISTRICT 48</u>			
Domar	23	Dimla	24
Jaldhaka	25	Nilphamari	26
Saidpur	27	Kishoreganj	28
<u>LALMANIRHAT DISTRICT 33</u>			
Patgram	29	Hatibandha	30
Kaliganj	31	Lalmanirhat	42
Aditmari	502		
<u>BOGRA DISTRICT 06</u>			
Sibganj	57	Gabtali	58
Shariakandi	59	Dhunat	60
Sherpur	61	Bogra	62
Kahalu	63	Dupchanchia	64
Nandigram	65	Adamdighi	66
Sonatala	487		
<u>CHITTAGONG DIVISION 04</u>			
<u>BANDARBAN DISTRICT 02</u>			
Bandarban	406	Lama	408
Nakhyongchhari	409	Baishari	513
Gajalia	514	Rawangchhari	516
Ruma	517	Thanchi	518
<u>BRAHMANBARIA DISTRICT 07</u>			
Nasirnagar	342	Sarail	343
Brahmanbaria	344	Kasba	345
Nabinagar	346	Akhaura	522
Ashuganj	523	Bancharampur	524

Appendix 1.1

LIST OF DISTRICTS AND UPAZILAS

<u>Upazila</u>	<u>Code</u>	<u>Upazila</u>	<u>Code</u>
<u>CHANDPUR DISTRICT 08</u>			
Kachua	358	Matlab	359
Hajiganj	360	Chandpur	361
Faridganj	362	Haimchar	527
Shahrasti	530		
<u>CHITTAGONG DISTRICT 09</u>			
Sandwip	376	Mirsarai	377
Sitakund	378	Double Mooring	379
Panchlais	380	Chittagong	381
Hathazari	382	Fatikchhari	383
Raozan	384	Rangunia	385
Anwara	388	Patenga	537
Boalkhali	386	Banskhali	390
Patiya	387	Chandanaais	566
Satkania	389	Lohagara	568
<u>COMILLA DISTRICT 11</u>			
Homna	348	Daudkandi	349
Muradnagar	350	Debidwar	351
Chandina	352	Burichang	353
Comilla	354	Chauddagram	355
Laksham	356	Barura	357
Brahmanpara	519	Nangalkot	521
<u>COX'S BAZAR DISTRICT 12</u>			
Kutubdia	391	Chakaria	393
Maishkhali	393	Cox's Bazar	394
Ramu	395	Ukhiya	396
Teknaf	397		
<u>FENI DISTRICT 16</u>			
Parshuram	372	Chhagalnaya	373
Feni	374	Sonagazi	375
Fulgazi	532	Daganbhuya	533
<u>HABIGANJ DISTRICT 21</u>			
Chunarughat	334	Bahubal	335
Nabiganj	336	Azmiriganj	337
Baniachang	338	Habiganj	339
Madhabpur	341	Kakailcheo	538
Lakhai	340		

Appendix 1.1

LIST OF DISTRICTS AND UPAZILAS

<u>Upazila</u>	<u>Code</u>	<u>Upazila</u>	<u>Code</u>
<u>KHAGRACHHARI DISTRICT 27</u>			
Ramgarh	398	Mahalchhari	399
Dighinala	400	Barapanchhari	540
Guimara	541	Khagrachhari	542
Lakshmichhari	543	Manikchhari	544
Matiranga	545	Chotomerung	599
<u>LAKSHMIPUR DISTRICT 32</u>			
Raipur	363	Ramganj	364
Lakshmipur	365	Ramgati	370
<u>MOULVI BAZAR DISTRICT 38</u>			
Barlekha	328	Kulaura	329
Rajnaagar	330	Kamalganj	331
Moulvi Bazar	332	Srimangal	333
<u>NOAKHALI DISTRICT 49</u>			
Begumganj	366	Senbag	367
Companyganj	368	Noakhali	369
Hatiya	371	Chatkhil	562
<u>RANGAMATI DISTRICT 54</u>			
Langadu	402	Barkal	403
Rangamati	404	Chandraghona	405
Baghaichhari	546	Betbunia	547
Farua	548	Jurachhari	549
Kaptai	550	Nannarchhari	552
Pablakhali	553	Rajasthali	554
Sajek	555	Bilaichhari	600
<u>SUNAMGANJ DISTRICT 61</u>			
Dharmapasha	310	Tahirpur	311
Sachna (Jamalganj)	312	Sulla	313
Dera	314	Sunamganj	315
Chhatak	316	Jagannathpur	317
Dwarabazar	559	Madhyanagar	561
Biswambharpur	430		
<u>SYLHET DISTRICT 62</u>			
Balaganj	318	Biswanath	319
Sylhet	320	Goyainghat	321
Jaintiapur	322	Kanaairghat	323
Zakiganj	324	Beani Bazar	325
Golapganj	326	Fenchuganj	327
Companyganj	564		

APPENDIX 4.1

Soil and Landform Legend for
Land Resources Inventory

SOIL AND LANDFORM RESOURCES OF BANGLADESH

MAP SHEET 16

RECONNAISSANCE SOIL SURVEY OF PART OF CHITTAGONG SADAR SOUTH AND COX'S BAZAR (CX) (1973), AND
PART OF CHITTAGONG HILL TRACTS (CH) (1955)

CHITTAGONG COASTAL PLAIN

YOUNG CHITTAGONG COASTAL TIDAL FLOODPLAIN

MAP SYMBOL	SOIL SERIES	LAND TYPE	PARENT MATERIAL	GENERAL SOIL TYPE	FAO SOIL UNIT	USDA SOIL FAMILY	EXTENT (HA)
..... CCM	MUD 2 (349)	MEDIUM LOWLAND	CHITTAGONG COAST -AL FLOODPLAIN ALLUVIUM	NONCALCAREOUS ALLUVIUM	ORTHIEUTRIC FLUVISOLS (JEO)	TYPIC FLUVAQUENT (312)	5491
1(CX)						HOMESTEAD & WATER	0
						TOTAL	5491

SOIL AND LANDFORM RESOURCES OF BANGLADESH

MAP SHEET 16

RECONNAISSANCE SOIL SURVEY OF PART OF CHITTAGONG SADAR SOUTH AND COX'S BAZAR (CX) (1973), AND
PART OF CHITTAGONG HILL TRACTS (CH) (1955)

CHITTAGONG COASTAL PLAIN

MANGROVE TIDAL FLOODPLAIN

MAP SYMBOL	SOIL SERIES	LAND TYPE	PARENT MATERIAL	GENERAL SOIL TYPE	FAO SOIL UNIT	USDA SOIL FAMILY	EXTENT (HA)
..... • CC923 •	HARBANG (202)	HIGHLAND	CHITTAGONG COAST -AL FLOODPLAIN ALLUVIUM	ACID SULPHATE SOIL	THIONI-EUTRIC GLEYSOLS (GET)	SULFIC HAPLAQUEPT (312)	37
8 (CX)	BARABAKIA (40)	MEDIUM HIGHLAND-1	CHITTAGONG COAST -AL FLOODPLAIN ALLUVIUM	NONCALCAREOUS GREY FLOODPLAIN SOIL	CHROMI-EUTRIC GLEYSOLS (GER)	AERIC HAPLAQUEPT (410)	184
	CHERINGA (100)	MEDIUM HIGHLAND-1	CHITTAGONG COAST -AL FLOODPLAIN ALLUVIUM	ACID SULPHATE SOIL	CHROMI-THIONIC GLEYSOLS (GTB)	SULFIC HAPLAQUEPT (410)	46
	BADARKHALI (21)	MEDIUM HIGHLAND-2	CHITTAGONG COAST -AL FLOODPLAIN ALLUVIUM	ACID SULPHATE SOIL	CHROMI-THIONIC GLEYSOLS (GTB)	TYPIC SULFAQUEPT (310)	185
	BARABAKIA (40)	MEDIUM HIGHLAND-2	CHITTAGONG COAST -AL FLOODPLAIN ALLUVIUM	NONCALCAREOUS GREY FLOODPLAIN SOIL	CHROMI-EUTRIC GLEYSOLS (GER)	AERIC HAPLAQUEPT (410)	556
	CHERINGA (100)	MEDIUM HIGHLAND-2	CHITTAGONG COAST -AL FLOODPLAIN ALLUVIUM	ACID SULPHATE SOIL	CHROMI-THIONIC GLEYSOLS (GTB)	SULFIC HAPLAQUEPT (410)	139
	DHURUNG (135)	MEDIUM HIGHLAND-2	CHITTAGONG COAST -AL FLOODPLAIN ALLUVIUM	ACID SULPHATE SOIL	CHROMI-THIONIC GLEYSOLS (GTB)	SULFIC HAPLAQUEPT (410)	185
	KUTUBDIA (303)	MEDIUM HIGHLAND-2	CHITTAGONG COAST -AL FLOODPLAIN ALLUVIUM	ACID SULPHATE SOIL	CHROMI-THIONIC GLEYSOLS (GTB)	SULFIC HAPLAQUEPT (410)	704
	NONACHARI (385)	MEDIUM HIGHLAND-2	CHITTAGONG COAST -AL FLOODPLAIN ALLUVIUM	NONCALCAREOUS GREY FLOODPLAIN SOIL	CHROMI-EUTRIC GLEYSOLS (GER)	AERIC HAPLAQUEPT (312)	37
	KUTUBDIA (303)	MEDIUM LOWLAND	CHITTAGONG COAST -AL FLOODPLAIN ALLUVIUM	ACID SULPHATE SOIL	CHROMI-THIONIC GLEYSOLS (GTB)	SULFIC HAPLAQUEPT (410)	704

SOIL AND LANDFORM RESOURCES OF BANGLADESH

MAP SHEET 16

RECONNAISSANCE SOIL SURVEY OF PART OF CHITTAGONG SADAR SOUTH AND COX'S BAZAR (CX) (1973), AND
PART OF CHITTAGONG HILL TRACTS (CH) (1965)

CHITTAGONG COASTAL PLAIN

MANGROVE TIDAL FLOODPLAIN

MAP SYMBOL	SOIL SERIES	LAND TYPE	PARENT MATERIAL	GENERAL SOIL TYPE	FAO SOIL UNIT	USDA SOIL FAMILY	EXTENT (HA)
.....	MUD 2	MEDIUM LOWLAND	CHITTAGONG COAST -AL FLOODPLAIN	NONCALCAREOUS ALLUVIUM	ORTHIEUTRIC FLUVISOLS (JEO)	TYPIC FLUVAQUEUT (312)	185
• CC923 •	(349)		ALLUVIUM			HOMESTEAD & WATER	741
.....							
8(CX)						TOTAL	3703

SOIL AND LANDFORM RESOURCES OF BANGLADESH

MAP SHEET 16

RECONNAISSANCE SOIL SURVEY OF PART OF CHITTAGONG SADAR SOUTH AND CDX'S BAZAR (CX) (1973), AND PART OF CHITTAGONG HILL TRACTS (CH) (1965)

CHITTAGONG COASTAL PLAIN

OLD CHITTAGONG COASTAL TIDAL FLOODPLAIN

MAINLY RIDGES

MAP SYMBOL	SOIL SERIES	LAND TYPE	PARENT MATERIAL	GENERAL SOIL TYPE	FAD SOIL UNIT	USDA SOIL FAMILY	EXTENT (HA)
.....	GAHIRA (165)	HIGHLAND	CHITTAGONG COAST -AL FLOODPLAIN ALLUVIUM	NONCALCAREOUS GREY FLOODPLAIN SOIL	CHROMI-EUTRIC GLEYSOLS (GEB)	AERIC HAPLAQUEPT (312)	242
10 (CX)	GAHIRA (165)	MEDIUM HIGHLAND-1	CHITTAGONG COAST -AL FLOODPLAIN ALLUVIUM	NONCALCAREOUS GREY FLOODPLAIN SOIL	CHROMI-EUTRIC GLEYSOLS (GEB)	AERIC HAPLAQUEPT (312)	302
	NOAPARA 2 (383)	MEDIUM HIGHLAND-1	CHITTAGONG COAST -AL FLOODPLAIN ALLUVIUM	NONCALCAREOUS GREY FLOODPLAIN SOIL	CHROMI-EUTRIC GLEYSOLS (GEB)	TYPIC HAPLAQUEPT (412)	362
	RAOJAN (443)	MEDIUM HIGHLAND-1	CHITTAGONG COAST -AL FLOODPLAIN ALLUVIUM	NONCALCAREOUS GREY FLOODPLAIN SOIL	CHROMI-EUTRIC GLEYSOLS (GEB)	TYPIC HAPLAQUEPT (312)	13807
	GAHIRA (165)	MEDIUM HIGHLAND-2	CHITTAGONG COAST -AL FLOODPLAIN ALLUVIUM	NONCALCAREOUS GREY FLOODPLAIN SOIL	CHROMI-EUTRIC GLEYSOLS (GEB)	AERIC HAPLAQUEPT (312)	909
	NOAPARA 2 (383)	MEDIUM HIGHLAND-2	CHITTAGONG COAST -AL FLOODPLAIN ALLUVIUM	NONCALCAREOUS GREY FLOODPLAIN SOIL	CHROMI-EUTRIC GLEYSOLS (GEB)	TYPIC HAPLAQUEPT (412)	1091
	NOAPARA 2 (383)	MEDIUM LOWLAND	CHITTAGONG COAST -AL FLOODPLAIN ALLUVIUM	NONCALCAREOUS GREY FLOODPLAIN SOIL	CHROMI-EUTRIC GLEYSOLS (GEB)	TYPIC HAPLAQUEPT (412)	242
	RAOJAN (443)	MEDIUM LOWLAND	CHITTAGONG COAST -AL FLOODPLAIN ALLUVIUM	NONCALCAREOUS GREY FLOODPLAIN SOIL	CHROMI-EUTRIC GLEYSOLS (GEB)	TYPIC HAPLAQUEPT (312)	1211
						HOMESTEAD & WATER	6057
						TOTAL	24223

MAP SHEET 16

RECONNAISSANCE SOIL SURVEY OF PART OF CHITTAGONG SADAR SOUTH AND COX'S BAZAR (CX) (1973), AND
PART OF CHITTAGONG HILL TRACTS (CH) (1965)

CHITTAGONG COASTAL PLAIN

OLD CHITTAGONG COASTAL TIDAL FLOODPLAIN

RIDGES AND BASINS

[illegible]

SOIL AND LANDFORM RESOURCES OF BANGLADESH

MAP SHEET 16

RECONNAISSANCE SOIL SURVEY OF PART OF CHITTAGONG SADAR SOUTH AND COX'S BAZAR (CX) (1973), AND
PART OF CHITTAGONG HILL TRACTS (CH) (1965)

CHITTAGONG COASTAL PLAIN

KARNAPHULI RIVER FLOODPLAIN

CHARLAND

MAP SYMBOL	SOIL SERIES	LAND TYPE	PARENT MATERIAL	GENERAL SOIL TYPE	FAO SOIL UNIT	USDA SOIL FAMILY	EXTENT (HA)
..... • CC930 •	KARNAPHULI SA AL (273)	MEDIUM LOWLAND	MINOR EASTERN RIVERS ALLUVIUM	NONCALCAREOUS ALLUVIUM	ARENII-EUTRIC FLUVISOLS (JEQ)	TYPIC FLUVAQUENT (210)	8
18 (CX)	KARNAPHULI SI AL (274)	MEDIUM LOWLAND	MINOR EASTERN RIVERS ALLUVIUM	NONCALCAREOUS ALLUVIUM	CHROMI-EUTRIC FLUVISOLS (JEB)	TYPIC FLUVAQUENT (312)	5
	KARNAPHULI SA AL (273)	LOWLAND	MINOR EASTERN RIVERS ALLUVIUM	NONCALCAREOUS ALLUVIUM	ARENII-EUTRIC FLUVISOLS (JEQ)	TYPIC FLUVAQUENT (210)	8
	KARNAPHULI SI AL (274)	LOWLAND	MINOR EASTERN RIVERS ALLUVIUM	NONCALCAREOUS ALLUVIUM	CHROMI-EUTRIC FLUVISOLS (JEB)	TYPIC FLUVAQUENT (312)	5
						HOMESTEAD & WATER	0
						TOTAL	26

SOIL AND LANDFORM RESOURCES OF BANGLADESH

MAP SHEET 16

RECONNAISSANCE SOIL SURVEY OF PART OF CHITTAGONG SADAR SOUTH AND COX'S BAZAR (CX) (1973), AND
PART OF CHITTAGONG HILL TRACTS (CH) (1965)

CHITTAGONG COASTAL PLAIN

KARNAPHULI RIVER FLOODPLAIN

MAINLY RIDGES

MAP SYMBOL	SOIL SERIES	LAND TYPE	PARENT MATERIAL	GENERAL SOIL TYPE	FAO SOIL UNIT	USDA SOIL FAMILY	EXTENT (HA)
..... • CC931 •	CHANDRAGHONA (86)	HIGHLAND	MINOR EASTERN RIVERS ALLUVIUM	NONCALCAREOUS GREY FLOODPLAIN SOIL	CHROMI-EUTRIC GLEYSOLS (GEB)	AERIC HAPLAQUEPT (312)	74
19 (CX)	PANCHLAIS (398)	HIGHLAND	MINOR EASTERN RIVERS ALLUVIUM	NONCALCAREOUS GREY FLOODPLAIN SOIL	CHROMI-EUTRIC GLEYSOLS (GEB)	AERIC HAPLAQUEPT (312)	372
	RANGUNIA (439)	HIGHLAND	MINOR EASTERN RIVERS ALLUVIUM	NONCALCAREOUS GREY FLOODPLAIN SOIL	CHROMI-EUTRIC GLEYSOLS (GEB)	TYPIC HAPLAQUEPT (312)	372
	PANCHLAIS (398)	MEDIUM HIGHLAND-1	MINOR EASTERN RIVERS ALLUVIUM	NONCALCAREOUS GREY FLOODPLAIN SOIL	CHROMI-EUTRIC GLEYSOLS (GEB)	AERIC HAPLAQUEPT (312)	540
	RANGUNIA (439)	MEDIUM HIGHLAND-1	MINOR EASTERN RIVERS ALLUVIUM	NONCALCAREOUS GREY FLOODPLAIN SOIL	CHROMI-EUTRIC GLEYSOLS (GEB)	TYPIC HAPLAQUEPT (312)	1492
	PANCHLAIS (398)	MEDIUM HIGHLAND-2	MINOR EASTERN RIVERS ALLUVIUM	NONCALCAREOUS GREY FLOODPLAIN SOIL	CHROMI-EUTRIC GLEYSOLS (GEB)	AERIC HAPLAQUEPT (312)	1623
						HOMESTEAD & WATER	2982
						TOTAL	7455

SOIL AND LANDFORM RESOURCES OF BANGLADESH

MAP SHEET 16

RECONNAISSANCE SOIL SURVEY OF PART OF CHITTAGONG SADAR SOUTH AND COX'S BAZAR (CX) (1973), AND
PART OF CHITTAGONG HILL TRACTS (CH) (1965)

CHITTAGONG COASTAL PLAIN

KARNAPHULI RIVER FLOODPLAIN

MAINLY RIDGES

MAP SYMBOL	SOIL SERIES	LAND TYPE	PARENT MATERIAL	GENERAL SOIL TYPE	FAO SOIL UNIT	USDA SOIL FAMILY	EXTENT (HA)
.....	PANCHLAIS	HIGHLAND	MINOR EASTERN RIVERS ALLUVIUM	NONCALCAREOUS GREY FLOODPLAIN SOIL	CHROMI-EUTRIC GLEYSOLS (GEB)	AERIC HAPLAQUEPT (312)	31
• CC932 •							
.....							
20 (CX)	RANGUNIA (439)	HIGHLAND	MINOR EASTERN RIVERS ALLUVIUM	NONCALCAREOUS GREY FLOODPLAIN SOIL	CHROMI-EUTRIC GLEYSOLS (GEB)	TYPIC HAPLAQUEPT (312)	313
	PANCHLAIS (398)	MEDIUM HIGHLAND-1	MINOR EASTERN RIVERS ALLUVIUM	NONCALCAREOUS GREY FLOODPLAIN SOIL	CHROMI-EUTRIC GLEYSOLS (GEB)	AERIC HAPLAQUEPT (312)	117
	RANGUNIA (439)	MEDIUM HIGHLAND-1	MINOR EASTERN RIVERS ALLUVIUM	NONCALCAREOUS GREY FLOODPLAIN SOIL	CHROMI-EUTRIC GLEYSOLS (GEB)	TYPIC HAPLAQUEPT (312)	1849
	PANCHLAIS (398)	MEDIUM HIGHLAND-2	MINOR EASTERN RIVERS ALLUVIUM	NONCALCAREOUS GREY FLOODPLAIN SOIL	CHROMI-EUTRIC GLEYSOLS (GEB)	AERIC HAPLAQUEPT (312)	353
						HOMESTEAD & WATER	470
						TOTAL	3133

SOIL AND LANDFORM RESOURCES OF BANGLADESH

MAP SHEET 16

RECONNAISSANCE SOIL SURVEY OF PART OF CHITTAGONG SADAR SOUTH AND COX'S BAZAR (CX) (1973), AND
PART OF CHITTAGONG HILL TRACTS (CH) (1965)

CHITTAGONG COASTAL PLAIN

MINOR RIVER FLOODPLAINS

MAINLY RIDGES

MAP SYMBOL	SOIL SERIES	LAND TYPE	PARENT MATERIAL	GENERAL SOIL TYPE	FAO SOIL UNIT	USDA SOIL FAMILY	EXTENT (HA)
..... • CC933 •	BELONIA (58)	HIGHLAND	MINOR EASTERN RIVERS ALLUVIUM	NONCALCAREOUS GREY FLOODPLAIN SOIL	CHROMI-EUTRIC GLEYSOLS (GEB)	AERIC HAPLAQUEPT (312)	985 1
21 (CX)	DOLU (144)	HIGHLAND	MINOR EASTERN RIVERS ALLUVIUM	NONCALCAREOUS ALLUVIUM	CHROMI-EUTRIC FLUVISOLS (JEB)	AERIC FLUVAQUEPT (312)	328 2
	FENI (161)	HIGHLAND	MINOR EASTERN RIVERS ALLUVIUM	NONCALCAREOUS GREY FLOODPLAIN SOIL	CHROMI-EUTRIC GLEYSOLS (GEB)	AERIC HAPLAQUEPT (312)	1118 1
	HALDA (199)	HIGHLAND	MINOR EASTERN RIVERS ALLUVIUM	NONCALCAREOUS GREY FLOODPLAIN SOIL	CHROMI-EUTRIC GLEYSOLS (GEB)	TYPIC HAPLAQUEPT (312)	66 3
	BELONIA (58)	MEDIUM HIGHLAND-1	MINOR EASTERN RIVERS ALLUVIUM	NONCALCAREOUS GREY FLOODPLAIN SOIL	CHROMI-EUTRIC GLEYSOLS (GEB)	AERIC HAPLAQUEPT (312)	81 1
	DOLU (144)	MEDIUM HIGHLAND-1	MINOR EASTERN RIVERS ALLUVIUM	NONCALCAREOUS ALLUVIUM	CHROMI-EUTRIC FLUVISOLS (JEB)	AERIC FLUVAQUEPT (312)	328 2
	HALDA (199)	MEDIUM HIGHLAND-1	MINOR EASTERN RIVERS ALLUVIUM	NONCALCAREOUS GREY FLOODPLAIN SOIL	CHROMI-EUTRIC GLEYSOLS (GEB)	TYPIC HAPLAQUEPT (312)	81 3
	BELONIA (58)	MEDIUM HIGHLAND-2	MINOR EASTERN RIVERS ALLUVIUM	NONCALCAREOUS GREY FLOODPLAIN SOIL	CHROMI-EUTRIC GLEYSOLS (GEB)	AERIC HAPLAQUEPT (312)	247 1
	HALDA (199)	MEDIUM HIGHLAND-2	MINOR EASTERN RIVERS ALLUVIUM	NONCALCAREOUS GREY FLOODPLAIN SOIL	CHROMI-EUTRIC GLEYSOLS (GEB)	TYPIC HAPLAQUEPT (312)	247 3
	BELONIA (58)	MEDIUM LOWLAND	MINOR EASTERN RIVERS ALLUVIUM	NONCALCAREOUS GREY FLOODPLAIN SOIL	CHROMI-EUTRIC GLEYSOLS (GEB)	AERIC HAPLAQUEPT (312)	983 1

ha
1 = 3482
2 = 722
3 = 356

SOIL AND LANDFORM RESOURCES OF BANGLADESH

MAP SHEET 16

RECONNAISSANCE SOIL SURVEY OF PART OF CHITTAGONG SADAR SOUTH AND COX'S BAZAR (CX) (1973), AND
PART OF CHITTAGONG HILL TRACTS (CH) (1965)

CHITTAGONG COASTAL PLAIN

MINOR RIVER FLOODPLAINS

MAINLY RIDGES

MAP SYMBOL	SOIL SERIES	LAND TYPE	PARENT MATERIAL	GENERAL SOIL TYPE	FAO SOIL UNIT	USDA SOIL FAMILY	EXTENT (HA)
..... • CC933 •	HALDA (199)	MEDIUM LOWLAND	MINOR EASTERN RIVERS ALLUVIUM	NONCALCAREOUS GREY FLOODPLAIN SOIL	CHROMI-EUTRIC GLEYSOILS (GEB)	TYPIC HAPLAQUEPT (312)	66
21 (CX)	MUD 2 (349)	MEDIUM LOWLAND	CHITTAGONG COAST -AL FLOODPLAIN ALLUVIUM	NONCALCAREOUS ALLUVIUM	ORTHIE-EUTRIC FLUVISOLS (JEO)	TYPIC FLUVAQUENT (312)	66
						HOMESTEAD & WATER	1973
						TOTAL	6571

- 1

- 2

SOIL AND LANDFORM RESOURCES OF BANGLADESH

MAP SHEET 16

RECONNAISSANCE SOIL SURVEY OF PART OF CHITTAGONG SADAR SOUTH AND COX'S BAZAR (CX) (1973), AND
PART OF CHITTAGONG HILL TRACTS (CH) (1965)

CHITTAGONG COASTAL PLAIN

MINOR RIVER FLOODPLAINS

MAINLY RIDGES

MAP SYMBOL	SOIL SERIES	LAND TYPE	PARENT MATERIAL	GENERAL SOIL TYPE	FAO SOIL UNIT	USDA SOIL FAMILY	EXTENT (HA)
..... CC934	BELONIA (58)	HIGHLAND	MINOR EASTERN RIVERS ALLUVIUM	NONCALCAREOUS GREY FLOODPLAIN SOIL	CHROMI-EUTRIC GLEYSOLS (GEB)	AERIC HAPLAQUEPT (312)	173
22 (CX)	FENI (161)	HIGHLAND	MINOR EASTERN RIVERS ALLUVIUM	NONCALCAREOUS GREY FLOODPLAIN SOIL	CHROMI-EUTRIC GLEYSOLS (GEB)	AERIC HAPLAQUEPT (312)	35
	HALDA (199)	HIGHLAND	MINOR EASTERN RIVERS ALLUVIUM	NONCALCAREOUS GREY FLOODPLAIN SOIL	CHROMI-EUTRIC GLEYSOLS (GEB)	TYPIC HAPLAQUEPT (312)	173
	BELONIA (58)	MEDIUM HIGHLAND-1	MINOR EASTERN RIVERS ALLUVIUM	NONCALCAREOUS GREY FLOODPLAIN SOIL	CHROMI-EUTRIC GLEYSOLS (GEB)	AERIC HAPLAQUEPT (312)	293
	HALDA (199)	MEDIUM HIGHLAND-1	MINOR EASTERN RIVERS ALLUVIUM	NONCALCAREOUS GREY FLOODPLAIN SOIL	CHROMI-EUTRIC GLEYSOLS (GEB)	TYPIC HAPLAQUEPT (312)	215
	BELONIA (58)	MEDIUM HIGHLAND-2	MINOR EASTERN RIVERS ALLUVIUM	NONCALCAREOUS GREY FLOODPLAIN SOIL	CHROMI-EUTRIC GLEYSOLS (GEB)	AERIC HAPLAQUEPT (312)	878
	HALDA (199)	MEDIUM HIGHLAND-2	MINOR EASTERN RIVERS ALLUVIUM	NONCALCAREOUS GREY FLOODPLAIN SOIL	CHROMI-EUTRIC GLEYSOLS (GEB)	TYPIC HAPLAQUEPT (312)	646
	MUHARI (350)	MEDIUM HIGHLAND-2	MINOR EASTERN RIVERS ALLUVIUM	NONCALCAREOUS GREY FLOODPLAIN SOIL	CHROMI-EUTRIC GLEYSOLS (GEB)	AERIC HAPLAQUEPT (312)	173
	BELONIA (58)	MEDIUM LOWLAND	MINOR EASTERN RIVERS ALLUVIUM	NONCALCAREOUS GREY FLOODPLAIN SOIL	CHROMI-EUTRIC GLEYSOLS (GEB)	AERIC HAPLAQUEPT (312)	344
	HALDA (199)	MEDIUM LOWLAND	MINOR EASTERN RIVERS ALLUVIUM	NONCALCAREOUS GREY FLOODPLAIN SOIL	CHROMI-EUTRIC GLEYSOLS (GEB)	TYPIC HAPLAQUEPT (312)	173

SOIL AND LANDFORM RESOURCES OF BANGLADESH

MAP SHEET 16

RECONNAISSANCE SOIL SURVEY OF PART OF CHITTAGONG SADAR SOUTH AND COX'S BAZAR (CX) (1973), AND
PART OF CHITTAGONG HILL TRACTS (CH) (1965)

CHITTAGONG COASTAL PLAIN

MINOR RIVER FLOODPLAINS

MAINLY RIDGES

MAP SYMBOL	SOIL SERIES	LAND TYPE	PARENT MATERIAL	GENERAL SOIL TYPE	FAO SOIL UNIT	USDA SOIL FAMILY	EXTENT (HA)
.....	MUHARI	MEDIUM LOWLAND	MINOR EASTERN RIVERS ALLUVIUM	NONCALCAREOUS GREY FLOODPLAIN SOIL	CHROMI-EUTRIC GLEYSOLS (GEB)	AERIC HAPLAQUEPT (312)	173
• CC934 •	• (350)						
.....							
22(CX)						HOMESTEAD & WATER	173
						TOTAL	3449

SOIL AND LANDFORM RESOURCES OF BANGLADESH

MAP SHEET 16

RECONNAISSANCE SOIL SURVEY OF PART OF CHITTAGONG SADAR SOUTH AND COX'S BAZAR (CX) (1973), AND
PART OF CHITTAGONG HILL TRACTS (CH) (1965)

CHITTAGONG COASTAL PLAIN

MINOR RIVER FLOODPLAINS

MAINLY RIDGES

MAP SYMBOL	SOIL SERIES	LAND TYPE	PARENT MATERIAL	GENERAL SOIL TYPE	FAO SOIL UNIT	USDA SOIL FAMILY	EXTENT (HA)
..... • CC952 •	KARNAPHULI (272)	HIGHLAND	MINOR EASTERN RIVERS ALLUVIUM	NONCALCAREOUS BROWN FLOODPLAIN SOIL	ORTHI-DYSTRIC CAMBISOLS (BDO)	FLUVENTIC USTOCHREPT (313) HOMESTEAD & WATER	449 5
1(CH)						TOTAL	454

SOIL AND LANDFORM RESOURCES OF BANGLADESH

MAP SHEET 16

RECONNAISSANCE SOIL SURVEY OF PART OF CHITTAGONG SADAR SOUTH AND COX'S BAZAR (CX) (1973), AND PART OF CHITTAGONG HILL TRACTS (CH) (1965)

CHITTAGONG COASTAL PLAIN

MINOR RIVER FLOODPLAINS

MAINLY RIDGES

MAP SYMBOL	SOIL SERIES	LAND TYPE	PARENT MATERIAL	GENERAL SOIL TYPE	FAO SOIL UNIT	USDA SOIL FAMILY	EXTENT (HA)
.....	KAPTAI(DP)	HIGHLAND	TERTIARY ROCKS	BROWN HILL SOIL	HAPLIC ALISOLS (UO)	PLINTHIC HAPLUSTULT (313)	2
• CC956 •	(268)						
.....							
3A (CH)	KARNAPHULI (272)	HIGHLAND	MINOR EASTERN RIVERS ALLUVIUM	NONCALCAREOUS BROWN FLOODPLAIN SOIL	ORTHID-DYSTRIC CAMBISOLS (BDO)	FLUVENTIC USTOCHREPT (313)	47
	RUMA (451)	HIGHLAND	MINOR EASTERN RIVERS ALLUVIUM	NONCALCAREOUS BROWN FLOODPLAIN SOIL	ORTHID-DYSTRIC CAMBISOLS (BDO)	DYSTRIC EUTROCHREPT (312)	87
	MOGHACHARI (345)	MEDIUM HIGHLAND-2	MINOR EASTERN RIVERS ALLUVIUM	NONCALCAREOUS GREY FLOODPLAIN SOIL	CHROMI-EUTRIC GLEYSOLS (GEB)	AERIC HAPLAQUEPT (312)	2
						HOMESTEAD & WATER	18
						TOTAL	156

SOIL AND LANDFORM RESOURCES OF BANGLADESH

MAP SHEET 16

RECONNAISSANCE SOIL SURVEY OF PART OF CHITTAGONG SADAR SOUTH AND COX'S BAZAR (CX) (1973), AND
PART OF CHITTAGONG HILL TRACTS (CH) (1965)

CHITTAGONG COASTAL PLAIN

MINOR RIVER FLOODPLAINS

MAINLY RIDGES

MAP SYMBOL	SOIL SERIES	LAND TYPE	PARENT MATERIAL	GENERAL SOIL TYPE	FAO SOIL UNIT	USDA SOIL FAMILY	EXTENT (HA)
..... • CC957 •	KARNAPHULI (272)	HIGHLAND	MINOR EASTERN RIVERS ALLUVIUM	NONCALCAREOUS BROWN FLOODPLAIN SOIL	ORTH1-DYSTRIC CAMBISOLS (BDO)	FLUVENTIC USTOCHREPT (313)	251
3B (CH)	RUMA (451)	HIGHLAND	MINOR EASTERN RIVERS ALLUVIUM	NONCALCAREOUS BROWN FLOODPLAIN SOIL	ORTH1-DYSTRIC CAMBISOLS (BDO)	DYSTRIC EUTROCHREPT (312)	458
	MOGHACHARI (345)	MEDIUM HIGHLAND-2	MINOR EASTERN RIVERS ALLUVIUM	NONCALCAREOUS GREY FLOODPLAIN SOIL	CHROM1-EUTRIC GLEYSOLS (GEB)	AERIC HAPLAQUEPT (312)	7
						HOMESTEAD & WATER	22
						TOTAL	738

SOIL AND LANDFORM RESOURCES OF BANGLADESH

MAP SHEET 16

RECONNAISSANCE SOIL SURVEY OF PART OF CHITTAGONG SADAR SOUTH AND COX'S BAZAR (CX) (1973), AND
PART OF CHITTAGONG HILL TRACTS (CH) (1965)

CHITTAGONG COASTAL PLAIN

MINOR RIVER FLOODPLAINS

RIDGES AND BASINS

MAP SYMBOL	SOIL SERIES	LAND TYPE	PARENT MATERIAL	GENERAL SOIL TYPE	FAO SOIL UNIT	USDA SOIL FAMILY	EXTENT (HA)
.....	KARNAPHULI	HIGHLAND	MINOR EASTERN RIVERS ALLUVIUM	NONCALCAREOUS BROWN FLOODPLAIN SOIL	ORTHI-DYSTRIC CAMBISOLS (BDO)	FLUVENTIC USTOCHREPT (313)	70
• CC958 •							
.....							
4 (CH)	RUMA (451)	HIGHLAND	MINOR EASTERN RIVERS ALLUVIUM	NONCALCAREOUS BROWN FLOODPLAIN SOIL	ORTHI-DYSTRIC CAMBISOLS (BDO)	DYSTRIC EUTROCHREPT (312)	2
	TEIABIL (553)	HIGHLAND	TERTIARY ROCKS	BROWN HILL SOIL	ORTHI-FERRIC ALISOLS (UFO)	PLINTHIC HAPLUSTULT (313)	2
	MOGHACHARI (345)	MEDIUM HIGHLAND-2	MINOR EASTERN RIVERS ALLUVIUM	NONCALCAREOUS GREY FLOODPLAIN SOIL	CHROMI-EUTRIC GLEYSOLS (GEB)	AERIC HAPLAQUEPT (312)	130
						HOMESTEAD & WATER	15
						TOTAL	219

SOIL AND LANDFORM RESOURCES OF BANGLADESH

MAP SHEET 16

RECONNAISSANCE SOIL SURVEY OF PART OF CHITTAGONG SADAR SOUTH AND COX'S BAZAR (CX) (1973), AND
PART OF CHITTAGONG HILL TRACTS (CH) (1965)

CHITTAGONG COASTAL PLAIN

PIEDMONT PLAINS AND VALLEYS

MAINLY RIDGES

MAP SYMBOL	SOIL SERIES	LAND TYPE	PARENT MATERIAL	GENERAL SOIL TYPE	FAO SOIL UNIT	USDA SOIL FAMILY	EXTENT (HA)
..... • CC935 •	FATEHPUR (160)	HIGHLAND	NORTHERN AND EASTERN PIEDMONT ALLUVIUM	GREY PIEDMONT SOIL	CHROMI-EUTRIC GLEYSOLS (GEB)	AERIC HAPLAQUEPT (312)	1069
23 (CX)	MIRSARAI (344)	HIGHLAND	NORTHERN AND EASTERN PIEDMONT ALLUVIUM	NONCALCAREOUS GREY FLOODPLAIN SOIL	CHROMI-EUTRIC GLEYSOLS (GEB)	TYPIC HAPLAQUEPT (312)	2133
	PAHARTALI (389)	HIGHLAND	NORTHERN AND EASTERN PIEDMONT ALLUVIUM	NONCALCAREOUS GREY FLOODPLAIN SOIL	CHROMI-EUTRIC GLEYSOLS (GEB)	TYPIC HAPLAQUEPT (312)	4692
	SUBHAPUR (529)	HIGHLAND	NORTHERN AND EASTERN PIEDMONT ALLUVIUM	NONCALCAREOUS GREY FLOODPLAIN SOIL	CHROMI-EUTRIC GLEYSOLS (GEB)	AERIC HAPLAQUEPT (312)	1069
	UKHIYA (567)	HIGHLAND	NORTHERN AND EASTERN PIEDMONT ALLUVIUM	NONCALCAREOUS GREY FLOODPLAIN SOIL	CHROMI-EUTRIC GLEYSOLS (GEB)	AERIC HAPLAQUEPT (312)	1069
	MANU (330)	MEDIUM HIGHLAND-1	NORTHERN AND EASTERN PIEDMONT ALLUVIUM	NONCALCAREOUS GREY FLOODPLAIN SOIL	CHROMI-EUTRIC GLEYSOLS (GEB)	AERIC HAPLAQUEPT (413)	48
	MIRSARAI (344)	MEDIUM HIGHLAND-1	NORTHERN AND EASTERN PIEDMONT ALLUVIUM	NONCALCAREOUS GREY FLOODPLAIN SOIL	CHROMI-EUTRIC GLEYSOLS (GEB)	TYPIC HAPLAQUEPT (312)	530
	PAHARTALI (389)	MEDIUM HIGHLAND-1	NORTHERN AND EASTERN PIEDMONT ALLUVIUM	NONCALCAREOUS GREY FLOODPLAIN SOIL	CHROMI-EUTRIC GLEYSOLS (GEB)	TYPIC HAPLAQUEPT (312)	2133
	SUBHAPUR (529)	MEDIUM HIGHLAND-1	NORTHERN AND EASTERN PIEDMONT ALLUVIUM	NONCALCAREOUS GREY FLOODPLAIN SOIL	CHROMI-EUTRIC GLEYSOLS (GEB)	AERIC HAPLAQUEPT (312)	216
	MANU (330)	MEDIUM HIGHLAND-2	NORTHERN AND EASTERN PIEDMONT ALLUVIUM	NONCALCAREOUS GREY FLOODPLAIN SOIL	CHROMI-EUTRIC GLEYSOLS (GEB)	AERIC HAPLAQUEPT (413)	168

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1 = 7894

2 = 4482

3 = 3639

SOIL AND LANDFORM RESOURCES OF BANGLADESH

MAP SHEET 16

RECONNAISSANCE SOIL SURVEY OF PART OF CHITTAGONG SADAR SOUTH AND COX'S BAZAR (CX) (1973), AND
PART OF CHITTAGONG HILL TRACTS (CH) (1965)

CHITTAGONG COASTAL PLAIN

PIEDMONT PLAINS AND VALLEYS

MAINLY RIDGES

MAP SYMBOL	SOIL SERIES	LAND TYPE	PARENT MATERIAL	GENERAL SOIL TYPE	FAD SOIL UNIT	USDA SOIL FAMILY	EXTENT (HA)
..... • CC935 •	MIRSARAI (344)	MEDIUM HIGHLAND-2	NORTHERN AND EASTERN PIEDMONT ALLUVIUM	NONCALCAREOUS GREY FLOODPLAIN SOIL	CHROMI-EUTRIC GLEYSOLS (GEB)	TYPIC HAPLAQUEPT (312)	1603
23 (CX)	MIRSARAI (344)	MEDIUM LOWLAND	NORTHERN AND EASTERN PIEDMONT ALLUVIUM	NONCALCAREOUS GREY FLOODPLAIN SOIL	CHROMI-EUTRIC GLEYSOLS (GEB)	TYPIC HAPLAQUEPT (312)	216
	PAHARTALI (389)	MEDIUM LOWLAND	NORTHERN AND EASTERN PIEDMONT ALLUVIUM	NONCALCAREOUS GREY FLOODPLAIN SOIL	CHROMI-EUTRIC GLEYSOLS (GEB)	TYPIC HAPLAQUEPT (312)	1069
						HOMESTEAD & WATER	5332
						TOTAL	21347

SOIL AND LANDFORM RESOURCES OF BANGLADESH

MAP SHEET 16

RECONNAISSANCE SOIL SURVEY OF PART OF CHITTAGONG SADAR SOUTH AND COX'S BAZAR (CX) (1973), AND
PART OF CHITTAGONG HILL TRACTS (CH) (1965)

CHITTAGONG COASTAL PLAIN

PIEDMONT PLAINS AND VALLEYS

MAINLY RIDGES

MAP SYMBOL	SOIL SERIES	LAND TYPE	PARENT MATERIAL	GENERAL SOIL TYPE	FAO SOIL UNIT	USDA SOIL FAMILY	EXTENT (HA)
..... • CC936 •	FATEHPUR (160)	HIGHLAND	NORTHERN AND EASTERN PIEDMONT ALLUVIUM	GREY PIEDMONT SOIL	CHROMI-EUTRIC GLEYSOLS (GEB)	AERIC HAPLAQUEPT (312)	987 - 3
24 (CX)	MIRSARAI (344)	HIGHLAND	NORTHERN AND EASTERN PIEDMONT ALLUVIUM	NONCALCAREOUS GREY FLOODPLAIN SOIL	CHROMI-EUTRIC GLEYSOLS (GEB)	TYPIC HAPLAQUEPT (312)	3554 - 2
	PAHARTALI (389)	HIGHLAND	NORTHERN AND EASTERN PIEDMONT ALLUVIUM	NONCALCAREOUS GREY FLOODPLAIN SOIL	CHROMI-EUTRIC GLEYSOLS (GEB)	TYPIC HAPLAQUEPT (312)	1973 - 1
	SUBHAPUR (529)	HIGHLAND	NORTHERN AND EASTERN PIEDMONT ALLUVIUM	NONCALCAREOUS GREY FLOODPLAIN SOIL	CHROMI-EUTRIC GLEYSOLS (GEB)	AERIC HAPLAQUEPT (312)	987 - 3
	UKHTYA (567)	HIGHLAND	NORTHERN AND EASTERN PIEDMONT ALLUVIUM	NONCALCAREOUS GREY FLOODPLAIN SOIL	CHROMI-EUTRIC GLEYSOLS (GEB)	AERIC HAPLAQUEPT (312)	987 - 3
	MANU (330)	MEDIUM HIGHLAND-1	NORTHERN AND EASTERN PIEDMONT ALLUVIUM	NONCALCAREOUS GREY FLOODPLAIN SOIL	CHROMI-EUTRIC GLEYSOLS (GEB)	AERIC HAPLAQUEPT (413)	48
	MIRSARAI (344)	MEDIUM HIGHLAND-1	NORTHERN AND EASTERN PIEDMONT ALLUVIUM	NONCALCAREOUS GREY FLOODPLAIN SOIL	CHROMI-EUTRIC GLEYSOLS (GEB)	TYPIC HAPLAQUEPT (312)	691
	PAHARTALI (389)	MEDIUM HIGHLAND-1	NORTHERN AND EASTERN PIEDMONT ALLUVIUM	NONCALCAREOUS GREY FLOODPLAIN SOIL	CHROMI-EUTRIC GLEYSOLS (GEB)	TYPIC HAPLAQUEPT (312)	1973 - 1
	SUBHAPUR (529)	MEDIUM HIGHLAND-1	NORTHERN AND EASTERN PIEDMONT ALLUVIUM	NONCALCAREOUS GREY FLOODPLAIN SOIL	CHROMI-EUTRIC GLEYSOLS (GEB)	AERIC HAPLAQUEPT (312)	198
	MANU (330)	MEDIUM HIGHLAND-2	NORTHERN AND EASTERN PIEDMONT ALLUVIUM	NONCALCAREOUS GREY FLOODPLAIN SOIL	CHROMI-EUTRIC GLEYSOLS (GEB)	AERIC HAPLAQUEPT (413)	150

SOIL AND LANDFORM RESOURCES OF BANGLADESH

MAP SHEET 16

RECONNAISSANCE SOIL SURVEY OF PART OF CHITTAGONG SADAR SOUTH AND COX'S BAZAR (CX) (1973), AND
PART OF CHITTAGONG HILL TRACTS (CH) (1965)

CHITTAGONG COASTAL PLAIN

PIEDMONT PLAINS AND VALLEYS

MAINLY RIDGES

MAP SYMBOL	SOIL SERIES	LAND TYPE	PARENT MATERIAL	GENERAL SOIL TYPE	FAD SOIL UNIT	USDA SOIL FAMILY	EXTENT (HA)
.....	MIRSARAI	MEDIUM HIGHLAND-2	NORTHERN AND EASTERN PIEDMONT ALLUVIUM	NONCALCAREOUS GREY FLOODPLAIN SOIL	CHROMI-EUTRIC GLEYSOLS (GEB)	TYPIC HAPLAQUEPT (312)	2074
• CC936 •							
.....							
24 (CX)	MIRSARAI (344)	MEDIUM LOWLAND	NORTHERN AND EASTERN PIEDMONT ALLUVIUM	NONCALCAREOUS GREY FLOODPLAIN SOIL	CHROMI-EUTRIC GLEYSOLS (GER)	TYPIC HAPLAQUEPT (312)	987
	PAHARTALI (389)	MEDIUM LOWLAND	NORTHERN AND EASTERN PIEDMONT ALLUVIUM	NONCALCAREOUS GREY FLOODPLAIN SOIL	CHROMI-EUTRIC GLEYSOLS (GEB)	TYPIC HAPLAQUEPT (312)	198
						HOMESTEAD & WATER	4935
						TOTAL	19742

SOIL AND LANDFORM RESOURCES OF BANGLADESH

MAP SHEET 16

RECONNAISSANCE SOIL SURVEY OF PART OF CHITTAGONG SADAR SOUTH AND COX'S BAZAR (CX) (1973), AND
PART OF CHITTAGONG HILL TRACTS (CH) (1965)

NORTHERN AND EASTERN HILLS

LOW HILLS

ROLLING TO STEEP LOW HILLS, WITH LOCAL ALLUVIUM IN VALLEYS

MAP SYMBOL	SOIL SERIES	LAND TYPE	PARENT MATERIAL	GENERAL SOIL TYPE	FAO SOIL UNIT	USDA SOIL FAMILY	EXTENT (HA)
.....	DANTMARA (MDPEDP)	HIGHLAND	TERTIARY ROCKS	BROWN HILL SOIL	LEPTI-HAPLIC ALISOLS (UOI)	PLINTHIC HAPLUSTULT (410)	37
• HL940 •							
.....	HIAKHU (207)	HIGHLAND	TERTIARY ROCKS	BROWN HILL SOIL	PISTI-FERRIC ALISOLS (UFP)	PISOLITHIC HAPLUSTULT (310)	37
26 (CX)	KALAPANI (256)	HIGHLAND	TERTIARY ROCKS	BROWN HILL SOIL	ORTHI-FERRIC ALISOLS (UFO)	HUMIC HAPLUSTULT (310)	182
	KHIRAM (290)	HIGHLAND	TERTIARY ROCKS	BROWN HILL SOIL	FERRI-GLEYIC ALISOLS (UGF)	AQUIC HAPLUSTULT (410)	37
	NALUA (363)	HIGHLAND	TERTIARY ROCKS	BROWN HILL SOIL	HAPLIC ALISOLS (UO)	PLINTHIC HAPLUSTULT (310)	363
	RANGAMATI (437)	HIGHLAND	TERTIARY ROCKS	BROWN HILL SOIL	ORTHI-FERRIC ALISOLS (UFO)	PLINTHIC HAPLUSTULT (310)	508
	RANGAPANI (438)	HIGHLAND	TERTIARY ROCKS	BROWN HILL SOIL	ORTHI-FERRIC ALISOLS (UFO)	PLINTHIC HAPLUSTULT (310)	326
	SALBAN (463)	HIGHLAND	TERTIARY ROCKS	BROWN HILL SOIL	DYSTRI-GLEYIC CAMBISOLS (BGD)	TYPIC DYSTROCHREPT (310)	1162
	SARTA (484)	HIGHLAND	NORTHERN AND EASTERN PIEDMONT ALLUVIUM	GREY PIEDMONT SOIL	CHROMI-DYSTRIC GLEYSOLS (GDB)	TYPIC HAPLAQUEPT (313)	182
	SYLOK (538)	HIGHLAND	NORTHERN AND EASTERN PIEDMONT ALLUVIUM	GREY PIEDMONT SOIL	CHROMI-EUTRIC GLEYSOLS (GER)	TYPIC HAPLAQUEPT (312)	654

SOIL AND LANDFORM RESOURCES OF BANGLADESH

MAP SHEET 16

RECONNAISSANCE SOIL SURVEY OF PART OF CHITTAGONG SADAR SOUTH AND COX'S BAZAR (CX) (1973), AND
PART OF CHITTAGONG HILL TRACTS (CH) (1965)

NORTHERN AND EASTERN HILLS

LOW HILLS

ROLLING TO STEEP LOW HILLS, WITH LOCAL ALLUVIUM IN VALLEYS

MAP SYMBOL	SOIL SERIES	LAND TYPE	PARENT MATERIAL	GENERAL SOIL TYPE	FAO SOIL UNIT	USDA SOIL FAMILY	EXTENT (HA)
.....	SARTA	MEDIUM HIGHLAND-1	NORTHERN AND EASTERN PIEDMONT ALLUVIUM	GREY PIEDMONT SOIL	CHROMI-DYSTRIC GLEYSOLS (GDB)	TYPIC HAPLAQUEPT (313)	37
• HL940 •							
.....							
26 (CX)	SYLOK (538)	MEDIUM HIGHLAND-2	NORTHERN AND EASTERN PIEDMONT ALLUVIUM	GREY PIEDMONT SOIL	CHROMI-EUTRIC GLEYSOLS (GER)	TYPIC HAPLAQUEPT (312)	37
						HOMESTEAD & WATER	73
						TOTAL	3635

SOIL AND LANDFORM RESOURCES OF BANGLADESH

MAP SHEET 16

RECONNAISSANCE SOIL SURVEY OF PART OF CHITTAGONG SADAR SOUTH AND COX'S BAZAR (CX) (1973), AND
PART OF CHITTAGONG HILL TRACTS (CH) (1965)

NORTHERN AND EASTERN HILLS

LOW HILLS

ROLLING TO STEEP LOW HILLS, WITH LOCAL ALLUVIUM IN VALLEYS

MAP SYMBOL	SOIL SERIES	LAND TYPE	PARENT MATERIAL	GENERAL SOIL TYPE	FAO SOIL UNIT	USDA SOIL FAMILY	EXTENT (HA)
..... • HL941 •	KALAPANI (256)	HIGHLAND	TERTIARY ROCKS	BROWN HILL SOIL	ORTHIO-FERRIC ALISOLS (UFO)	HUMIC HAPLUSTULT (310)	82
27 (CX)	KHIRAM (290)	HIGHLAND	TERTIARY ROCKS	BROWN HILL SOIL	FERRI-GLEYIC ALISOLS (UGF)	AQUIC HAPLUSTULT (410)	82
	NALUA (363)	HIGHLAND	TERTIARY ROCKS	BROWN HILL SOIL	HAPLIC ALISOLS (UO)	PLINTHIC HAPLUSTULT (310)	310
	RANGAMATI (437)	HIGHLAND	TERTIARY ROCKS	BROWN HILL SOIL	ORTHIO-FERRIC ALISOLS (UFO)	PLINTHIC HAPLUSTULT (310)	164
	RANGAPANI (438)	HIGHLAND	TERTIARY ROCKS	BROWN HILL SOIL	ORTHIO-FERRIC ALISOLS (UFO)	PLINTHIC HAPLUSTULT (310)	228
	SALBAN (463)	HIGHLAND	TERTIARY ROCKS	BROWN HILL SOIL	DYSTRI-GLEYIC CAMBISOLS (BGO)	TYPIC DYSTROCHREPT (310)	521
	SARTA (484)	HIGHLAND	NORTHERN AND EASTERN PIEDMONT ALLUVIUM	GREY PIEDMONT SOIL	CHROMI-DYSTRIC GLEYSOLS (GDB)	TYPIC HAPLAQUEPT (313)	16
	SWALAK (IMDR) (536)	HIGHLAND	NORTHERN AND EASTERN PIEDMONT ALLUVIUM	NONCALCAREOUS BROWN FLOODPLAIN SOIL	GLEYI-HAPLIC ALISOLS (UOG)	CHREPTIC HAPLUSTULT (310)	16
	SWALAK (537)	HIGHLAND	NORTHERN AND EASTERN PIEDMONT ALLUVIUM	NONCALCAREOUS BROWN FLOODPLAIN SOIL	GLEYI-HAPLIC ALISOLS (UOG)	CHREPTIC HAPLUSTULT (310)	82
	SYLOK (538)	HIGHLAND	NORTHERN AND EASTERN PIEDMONT ALLUVIUM	GREY PIEDMONT SOIL	CHROMI-EUTRIC GLEYSOLS (GER)	TYPIC HAPLAQUEPT (312)	82

SOIL AND LANDFORM RESOURCES OF BANGLADESH

MAP SHEET 16

RECONNAISSANCE SOIL SURVEY OF PART OF CHITTAGONG SADAR SOUTH AND COX'S BAZAR (CX) (1973), AND
PART OF CHITTAGONG HILL TRACTS (CH) (1965)

NORTHERN AND EASTERN HILLS

LOW HILLS

ROLLING TO STEEP LOW HILLS, WITH LOCAL ALLUVIUM IN VALLEYS

MAP SYMBOL	SOIL SERIES	LAND TYPE	PARENT MATERIAL	GENERAL SOIL TYPE	FAO SOIL UNIT	USDA SOIL FAMILY	EXTENT (HA)
..... • HL941 •	ITAKHOLA (224)	MEDIUM HIGHLAND-1	NORTHERN AND EASTERN PIEDMONT ALLUVIUM	ACID BASIN CLAY	CHROMI-DYSTRIC GLEYSOLS (GDB)	TYPIC HAPLAQUEPT (413)	3
27 (CX)	ITAKHOLA (224)	MEDIUM HIGHLAND-2	NORTHERN AND EASTERN PIEDMONT ALLUVIUM	ACID BASIN CLAY	CHROMI-DYSTRIC GLEYSOLS (GDB)	TYPIC HAPLAQUEPT (413)	13
						HOMESTEAD & WATER	33
						TOTAL	1632

SOIL AND LANDFORM RESOURCES OF BANGLADESH

MAP SHEET 16

RECONNAISSANCE SOIL SURVEY OF PART OF CHITTAGONG SADAR SOUTH AND COX'S BAZAR (CX) (1973), AND
PART OF CHITTAGONG HILL TRACTS (CH) (1965)

NORTHERN AND EASTERN HILLS

LOW HILLS

ROLLING TO STEEP LOW HILLS, WITH LOCAL ALLUVIUM IN VALLEYS

MAP SYMBOL	SOIL SERIES	LAND TYPE	PARENT MATERIAL	GENERAL SOIL TYPE	FAO SOIL UNIT	USDA SOIL FAMILY	EXTENT (HA)
..... • HL942 •	BIJIPUR (76)	HIGHLAND	NORTHERN AND EASTERN PIEDMONT ALLUVIUM	GREY PIEDMONT SOIL	CHROMI-EUTRIC GLEYSOLS (GEB)	TYPIC HAPLAQUEPT (312)	52
28 (CX)	HIARHU (207)	HIGHLAND	TERTIARY ROCKS	BROWN HILL SOIL	PISI-FERRIC ALISOLS (UFP)	PISOLITHIC HAPLUSTULT (310)	52
	KHIRAM (290)	HIGHLAND	TERTIARY ROCKS	BROWN HILL SOIL	FERRI-GLEYIC ALISOLS (UGF)	AQUIC HAPLUSTULT (410)	253
	NALUA (363)	HIGHLAND	TERTIARY ROCKS	BROWN HILL SOIL	HAPLIC ALISOLS (UG)	PLINTHIC HAPLUSTULT (310)	1627
	RANGAMATI (437)	HIGHLAND	TERTIARY ROCKS	BROWN HILL SOIL	ORTHIO-FERRIC ALISOLS (UFO)	PLINTHIC HAPLUSTULT (310)	710
	RANGAPANI (438)	HIGHLAND	TERTIARY ROCKS	BROWN HILL SOIL	ORTHIO-FERRIC ALISOLS (UFO)	PLINTHIC HAPLUSTULT (310)	560
	SALBAN (463)	HIGHLAND	TERTIARY ROCKS	BROWN HILL SOIL	DYSTRI-GLEYIC CAMBISOLS (BGD)	TYPIC DYSTROCHREPT (310)	508
	SARTA (484)	HIGHLAND	NORTHERN AND EASTERN PIEDMONT ALLUVIUM	GREY PIEDMONT SOIL	CHROMI-DYSTRIC GLEYSOLS (GDB)	TYPIC HAPLAQUEPT (313)	305
	SYLOK (538)	HIGHLAND	NORTHERN AND EASTERN PIEDMONT ALLUVIUM	GREY PIEDMONT SOIL	CHROMI-EUTRIC GLEYSOLS (GEB)	TYPIC HAPLAQUEPT (312)	915
						HOMESTEAD & WATER	102
						TOTAL	5084

SOIL AND LANDFORM RESOURCES OF BANGLADESH

MAP SHEET 16

RECONNAISSANCE SOIL SURVEY OF PART OF CHITTAGONG SADAR SOUTH AND COX'S BAZAR (CX) (1973), AND
PART OF CHITTAGONG HILL TRACTS (CH) (1965)

NORTHERN AND EASTERN HILLS

LOW HILLS

ROLLING TO STEEP LOW HILLS, WITH LOCAL ALLUVIUM IN VALLEYS

MAP SYMBOL	SOIL SERIES	LAND TYPE	PARENT MATERIAL	GENERAL SOIL TYPE	FAO SOIL UNIT	USDA SOIL FAMILY	EXTENT (HA)
..... • HL943	BIJIPUR (76)	HIGHLAND	NORTHERN AND EASTERN PIEDMONT ALLUVIUM	GREY PIEDMONT SOIL	CHROMI-EUTRIC GLEYSOLS (GEB)	TYPIC HAPLAQUEPT (312)	24
29 (CX)	DANTMARAI (MDP&DP) (117)	HIGHLAND	TERTIARY ROCKS	BROWN HILL SOIL	LEPTI-HAPLIC ALISOLS (UOI)	PLINTHIC HAPLUSTULT (410)	24
	HIAKHU (207)	HIGHLAND	TERTIARY ROCKS	BROWN HILL SOIL	PISI-FERRIC ALISOLS (UFP)	PISOLITHIC HAPLUSTULT (310)	24
	KALAPANI (256)	HIGHLAND	TERTIARY ROCKS	BROWN HILL SOIL	ORTHI-FERRIC ALISOLS (UFO)	HUMIC HAPLUSTULT (310)	771
	KHIRAM (290)	HIGHLAND	TERTIARY ROCKS	BROWN HILL SOIL	FERRI-GLEYIC ALISOLS (UGF)	AQUIC HAPLUSTULT (410)	120
	NALUA (363)	HIGHLAND	TERTIARY ROCKS	BROWN HILL SOIL	HAPLIC ALISOLS (UO)	PLINTHIC HAPLUSTULT (310)	120
	RAMGARH (429)	HIGHLAND	TERTIARY ROCKS	BROWN HILL SOIL	ORTHI-FERRIC ALISOLS (UFO)	PLINTHIC HAPLUSTULT (310)	361
	RANGAMATI (437)	HIGHLAND	TERTIARY ROCKS	BROWN HILL SOIL	ORTHI-FERRIC ALISOLS (UFO)	PLINTHIC HAPLUSTULT (310)	457
	RANGAPANI (438)	HIGHLAND	TERTIARY ROCKS	BROWN HILL SOIL	ORTHI-FERRIC ALISOLS (UFO)	PLINTHIC HAPLUSTULT (310)	120
	SALBAN (463)	HIGHLAND	TERTIARY ROCKS	BROWN HILL SOIL	DYSTRI-GLEYIC CAMBISOLS (RGD)	TYPIC DYSTROCHREPT (310)	120

SOIL AND LANDFORM RESOURCES OF BANGLADESH

MAP SHEET 16

RECONNAISSANCE SOIL SURVEY OF PART OF CHITTAGONG SADAR SOUTH AND COX'S BAZAR (CX) (1973), AND
PART OF CHITTAGONG HILL TRACTS (CH) (1965)

NORTHERN AND EASTERN HILLS

LOW HILLS

ROLLING TO STEEP LOW HILLS, WITH LOCAL ALLUVIUM IN VALLEYS

MAP SYMBOL	SOIL SERIES	LAND TYPE	PARENT MATERIAL	GENERAL SOIL TYPE	FAO SOIL UNIT	USDA SOIL FAMILY	EXTENT (HA)
..... • HL 943	SARTA (484)	HIGHLAND	NORTHERN AND EASTERN PIEDMONT ALLUVIUM	GREY PIEDMONT SOIL	CHROMI-DYSTRIC GLEYSOLS (GDB)	TYPIC HAPLAQUEPT (313)	120
29 (CX)	SYLOK (538)	HIGHLAND	NORTHERN AND EASTERN PIEDMONT ALLUVIUM	GREY PIEDMONT SOIL	CHROMI-EUTRIC GLEYSOLS (GEB)	TYPIC HAPLAQUEPT (312)	120
					HOMESTEAD & WATER		24
					TOTAL		2405

SOIL AND LANDFORM RESOURCES OF BANGLADESH

MAP SHEET 16

RECONNAISSANCE SOIL SURVEY OF PART OF CHITTAGONG SADAR SOUTH AND COX'S BAZAR (CX) (1973), AND
PART OF CHITTAGONG HILL TRACTS (CH) (1965)

NORTHERN AND EASTERN HILLS

LOW HILLS

ROLLING TO STEEP LOW HILLS, WITH LOCAL ALLUVIUM IN VALLEYS

MAP SYMBOL	SOIL SERIES	LAND TYPE	PARENT MATERIAL	GENERAL SOIL TYPE	FAO SOIL UNIT	USDA SOIL FAMILY	EXTENT (HA)
..... • HL945 •	BIJIPUR (76)	HIGHLAND	NORTHERN AND EASTERN PIEDMONT ALLUVIUM	GREY PIEDMONT SOIL	CHROMI-EUTRIC GLEYSOLS (GEB)	TYPIC HAPLAQUEPT (312)	15
31 (CX)	HOANAK (210)	HIGHLAND	NORTHERN AND EASTERN PIEDMONT ALLUVIUM	NONCALCAREOUS ALLUVIUM	CHROMI-EUTRIC FLUVISOLS (JEB)	TYPIC FLUVAQUEPT (210)	79
	KALAPANI (256)	HIGHLAND	TERTIARY ROCKS	BROWN HILL SOIL	ORTHIE-FERRIC ALISOLS (UFO)	HUMIC HAPLUSTULT (310)	79
	KHADIMNAGAR (284)	HIGHLAND	TERTIARY ROCKS	BROWN HILL SOIL	ORTHIE-DYSTRIC CAMBISOLS (BDO)	TYPIC DYSTROCHREPT (210)	158
	NALUA (363)	HIGHLAND	TERTIARY ROCKS	BROWN HILL SOIL	HAPLIC ALISOLS (UO)	PLINTHIC HAPLUSTULT (310)	158
	RANGAMATI (437)	HIGHLAND	TERTIARY ROCKS	BROWN HILL SOIL	ORTHIE-FERRIC ALISOLS (UFO)	PLINTHIC HAPLUSTULT (310)	237
	RANGAPANI (438)	HIGHLAND	TERTIARY ROCKS	BROWN HILL SOIL	ORTHIE-FERRIC ALISOLS (UFO)	PLINTHIC HAPLUSTULT (310)	426
	SALBAN (463)	HIGHLAND	TERTIARY ROCKS	BROWN HILL SOIL	DYSTRI-GLEYIC CAMBISOLS (BGO)	TYPIC DYSTROCHREPT (310)	301
	SYLOK (538)	HIGHLAND	NORTHERN AND EASTERN PIEDMONT ALLUVIUM	GREY PIEDMONT SOIL	CHROMI-EUTRIC GLEYSOLS (GEB)	TYPIC HAPLAQUEPT (312)	79
	SYLOK (538)	MEDIUM HIGHLAND-2	NORTHERN AND EASTERN PIEDMONT ALLUVIUM	GREY PIEDMONT SOIL	CHROMI-EUTRIC GLEYSOLS (GEB)	TYPIC HAPLAQUEPT (312)	15
TOTAL							1579
HOMESTEAD & WATER							32

SOIL AND LANDFORM RESOURCES OF BANGLADESH

MAP SHEET 16

SOIL AND LANDFORM RESOURCES OF BANGLADESH

MAP SHEET 16

RECONNAISSANCE SOIL SURVEY OF PART OF CHITTAGONG SADAR SOUTH AND COX'S BAZAR (CX) (1973), AND
PART OF CHITTAGONG HILL TRACTS (CH) (1965)

NORTHERN AND EASTERN HILLS

LOW HILLS

ROLLING TO STEEP LOW HILLS, WITH LOCAL ALLUVIUM IN VALLEYS

MAP SYMBOL	SOIL SERIES	LAND TYPE	PARENT MATERIAL	GENERAL SOIL TYPE	FAO SOIL UNIT	USDA SOIL FAMILY	EXTENT (HA)
.....	DANTMARA (MDP&DP)	HIGHLAND	TERTIARY ROCKS	BROWN HILL SOIL	LEPTI-HAPLIC ALISOLS (UOI)	PLINTHIC HAPLUSTULT (410)	186
HL946	(117)						
.....							
32 (CX)	DANTMARA (VSH&SH)	HIGHLAND	TERTIARY ROCKS	BROWN HILL SOIL	ORTHI-LEPTIC ALISOLS (UOI)	LITHIC HAPLUSTULT (410)	186
	(118)						
	HIAKHU (207)	HIGHLAND	TERTIARY ROCKS	BROWN HILL SOIL	PISI-FERRIC ALISOLS (UFP)	PISOLITHIC HAPLUSTULT (310)	372
	KALAPANI (256)	HIGHLAND	TERTIARY ROCKS	BROWN HILL SOIL	ORTHI-FERRIC ALISOLS (UFO)	HUMIC HAPLUSTULT (310)	922
	KHIRAM (290)	HIGHLAND	TERTIARY ROCKS	BROWN HILL SOIL	FERRI-GLEYIC ALISOLS (UGF)	AQUIC HAPLUSTULT (410)	922
	NALUA (363)	HIGHLAND	TERTIARY ROCKS	BROWN HILL SOIL	HAPLIC ALISOLS (UO)	PLINTHIC HAPLUSTULT (310)	1844
	RANGAMATI (437)	HIGHLAND	TERTIARY ROCKS	BROWN HILL SOIL	ORTHI-FERRIC ALISOLS (UFO)	PLINTHIC HAPLUSTULT (310)	5709
	RANGAPANI (438)	HIGHLAND	TERTIARY ROCKS	BROWN HILL SOIL	ORTHI-FERRIC ALISOLS (UFO)	PLINTHIC HAPLUSTULT (310)	1844
	SALBAN (463)	HIGHLAND	TERTIARY ROCKS	BROWN HILL SOIL	DYSTRI-GLEYIC CAMBISOLS (BGD)	TYPIC DYSTROCHREPT (310)	1658
	SARTA (484)	HIGHLAND	NORTHERN AND EASTERN PIEDMONT ALLUVIUM	GREY PIEDMONT SOIL	CHROMI-DYSTRIC GLEYSOLS (GDB)	TYPIC HAPLAQUEPT (313)	1108

TOTAL 1579

SOIL AND LANDFORM RESOURCES OF BANGLADESH

MAP SHEET 16

RECONNAISSANCE SOIL SURVEY OF PART OF CHITTAGONG SADAR SOUTH AND COX'S BAZAR (CX) (1973), AND
PART OF CHITTAGONG HILL TRACTS (CH) (1965)

NORTHERN AND EASTERN HILLS

LOW HILLS

ROLLING TO STEEP LOW HILLS, WITH LOCAL ALLUVIUM IN VALLEYS

MAP SYMBOL	SOIL SERIES	LAND TYPE	PARENT MATERIAL	GENERAL SOIL TYPE	FAO SOIL UNIT	USDA SOIL FAMILY	EXTENT (HA)
.....	SYLOK	HIGHLAND	NORTHERN AND EASTERN PIEDMONT ALLUVIUM	GREY PIEDMONT SOIL	CHROMI-EUTRIC GLEYSOLS (GER)	TYPIC HAPLAQUEPT (312)	3316
• HL946 •	(538)						
.....							
32 (CX)						HOMESTEAD & WATER	368
						TOTAL	18435

SOIL AND LANDFORM RESOURCES OF BANGLADESH

MAP SHEET 16

RECONNAISSANCE SOIL SURVEY OF PART OF CHITTAGONG SADAR SOUTH AND COX'S BAZAR (CA) (1973), AND
PART OF CHITTAGONG HILL TRACTS (CH) (1965)

NORTHERN AND EASTERN HILLS

LOW HILLS

ROLLING TO STEEP LOW HILLS, WITH LOCAL ALLUVIUM IN VALLEYS

MAP SYMBOL	SOIL SERIES	LAND TYPE	PARENT MATERIAL	GENERAL SOIL TYPE	FAO SOIL UNIT	USDA SOIL FAMILY	EXTENT (HA)
..... • HL975 •	HAZARIBAK (206)	HIGHLAND	TERTIARY ROCKS	BROWN HILL SOIL	ORTHI-DYSTRIC CAMBISOLS (BDO)	UDIC USTOCHREPT (213)	3163
16A (CH)	KAPTAI(DP) (268)	HIGHLAND	TERTIARY ROCKS	BROWN HILL SOIL	HAPLIC ALISOLS (UO)	PLINTHIC HAPLUSTULT (313)	1683
	KARNAPHULI (272)	HIGHLAND	MINOR EASTERN RIVERS ALLUVIUM	NONCALCAREOUS BROWN FLOODPLAIN SOIL	ORTHI-DYSTRIC CAMBISOLS (BDO)	FLUVENTIC USTOCHREPT (313)	51
	MOGHACHARI (345)	MEDIUM HIGHLAND-2	MINOR EASTERN RIVERS ALLUVIUM	NONCALCAREOUS GREY FLOODPLAIN SOIL	CHROMI-EUTRIC GLEYSOLS (GER)	AERIC HAPLAQUEPT (312)	51
						HOMESTEAD & WATER	153
						TOTAL	5101

SOIL AND LANDFORM RESOURCES OF BANGLADESH

MAP SHEET 16

RECONNAISSANCE SOIL SURVEY OF PART OF CHITTAGONG SADAR SOUTH AND COX'S BAZAR (CX) (1973), AND
PART OF CHITTAGONG HILL TRACTS (CH) (1965)

NORTHERN AND EASTERN HILLS

LOW HILLS

ROLLING TO STEEP LOW HILLS, WITH LOCAL ALLUVIUM IN VALLEYS

MAP SYMBOL	SOIL SERIES	LAND TYPE	PARENT MATERIAL	GENERAL SOIL TYPE	FAO SOIL UNIT	USDA SOIL FAMILY	EXTENT (HA)
.....	HAZARIKAK	HIGHLAND	TERTIARY ROCKS	BROWN HILL SOIL	ORTHIDYSTRIC CAMBISOLS (BDO)	UDIC USTOCHREPT (213)	93
HL977	(206)						
.....	TEIARIL	HIGHLAND	TERTIARY ROCKS	BROWN HILL SOIL	ORTHIDYSTRIC ALISOLS (UFO)	PLINTHIC HAPLUSTULT (313)	50
17 (CH)	(553)					HOMESTEAD & WATER	0
TOTAL							143

SOIL AND LANDFORM RESOURCES OF BANGLADESH

MAP SHEET 16

RECONNAISSANCE SOIL SURVEY OF PART OF CHITTAGONG SADAR SOUTH AND COX'S BAZAR (CX) (1973), AND
PART OF CHITTAGONG HILL TRACTS (CH) (1965)

NORTHERN AND EASTERN HILLS

LOW HILLS

ROLLING TO STEEP LOW HILLS, WITH LOCAL ALLUVIUM IN VALLEYS

MAP SYMBOL	SOIL SERIES	LAND TYPE	PARENT MATERIAL	GENERAL SOIL TYPE	FAO SOIL UNIT	USDA SOIL FAMILY	EXTENT (HA)
..... HL978	HAZARIBAK (206)	HIGHLAND	TERTIARY ROCKS	BROWN HILL SOIL	ORTHIDYSTRIC CAMBISOLS (BDO)	UDIC USTOCHREPT (213)	4609
18 (CH)	KARNAPHULI (272)	HIGHLAND	MINOR EASTERN RIVERS ALLUVIUM	NONCALCAREOUS BROWN FLOODPLAIN SOIL	ORTHIDYSTRIC CAMBISOLS (BDO)	FLUVENTIC USTOCHREPT (313)	73
	TEIABIL (553)	HIGHLAND	TERTIARY ROCKS	BROWN HILL SOIL	ORTHIFERRIC ALISOLS (UFO)	PLINTHIC HAPLUSTULT (313)	2487
	MOGHACHARI (345)	MEDIUM HIGHLAND-2	MINOR EASTERN RIVERS ALLUVIUM	NONCALCAREOUS GREY FLOODPLAIN SOIL	CHROMISUTRIC GLEYSOLS (GEB)	AERIC HAPLAQUEPT (312)	73
						HOMESTEAD & WATER	73
						TOTAL	7315

SOIL AND LANDFORM RESOURCES OF BANGLADESH

MAP SHEET 16

RECONNAISSANCE SOIL SURVEY OF PART OF CHITTAGONG SADAR SOUTH AND COX'S BAZAR (CX) (1973), AND
PART OF CHITTAGONG HILL TRACTS (CH) (1985)

NORTHERN AND EASTERN HILLS

LOW HILLS

ROLLING TO STEEP LOW HILLS, WITH LOCAL ALLUVIUM IN VALLEYS

MAP SYMBOL	SOIL SERIES	LAND TYPE	PARENT MATERIAL	GENERAL SOIL TYPE	FAO SOIL UNIT	USDA SOIL FAMILY	EXTENT (HA)
..... • HL979 •	HAZARIRAK (206)	HIGHLAND	TERTIARY ROCKS	BROWN HILL SOIL	ORTHIDYSTRIC CAMBISOLS (B00)	UDIC USTOCHREPT (213)	330
19A (CH)	KAPTAI (DP) (268)	HIGHLAND	TERTIARY ROCKS	BROWN HILL SOIL	HAPLIC ALISOLS (U0)	PLINTHIC HAPLUSTULT (313)	83
	KARNAPHULI (272)	HIGHLAND	MINOR EASTERN RIVERS ALLUVIUM	NONCALCAREOUS BROWN FLOODPLAIN SOIL	ORTHIDYSTRIC CAMBISOLS (B00)	FLUVENTIC USTOCHREPT (313)	143
	TEIABIL (553)	HIGHLAND	TERTIARY ROCKS	BROWN HILL SOIL	ORTHIDYSTRIC ALISOLS (UFO)	PLINTHIC HAPLUSTULT (313)	143
	MOGHACHARI (345)	MEDIUM HIGHLAND-2	MINOR EASTERN RIVERS ALLUVIUM	NONCALCAREOUS GREY FLOODPLAIN SOIL	CHROMI-EUTRIC GLEYSOLS (GEB)	AERIC HAPLAQUEPT (312)	53
						HOMESTEAD & WATER	0
						TOTAL	752

SOIL AND LANDFORM RESOURCES OF BANGLADESH

MAP SHEET 16

RECONNAISSANCE SOIL SURVEY OF PART OF CHITTAGONG SADAR SOUTH AND COX'S BAZAR (CX) (1973), AND
PART OF CHITTAGONG HILL TRACTS (CH) (1965)

NORTHERN AND EASTERN HILLS

LOW HILLS

ROLLING TO STEEP LOW HILLS, WITH LOCAL ALLUVIUM IN VALLEYS

MAP SYMBOL	SOIL SERIES	LAND TYPE	PARENT MATERIAL	GENERAL SOIL TYPE	FAO SOIL UNIT	USDA SOIL FAMILY	EXTENT (HA)
..... • HL980 •	HAZARIKAK (206)	HIGHLAND	TERTIARY ROCKS	BROWN HILL SOIL	ORTHIDYSTRIC CAMBISOLS (BDO)	UDIC USTOCHREPT (213)	2945
19B (CH)	KAPTAL(OP) (268)	HIGHLAND	TERTIARY ROCKS	BROWN HILL SOIL	HAPLIC ALISOLS (UO)	PLINTHIC HAPLUSTULT (313)	687
	KARNAPHULI (272)	HIGHLAND	MINOR EASTERN RIVERS ALLUVIUM	NONCALCAREOUS BROWN FLOODPLAIN SOIL	ORTHIDYSTRIC CAMBISOLS (BDO)	FLUVENTIC USTOCHREPT (313)	50
	TEIABIL (553)	HIGHLAND	TERTIARY ROCKS	BROWN HILL SOIL	ORTHIDYSTRIC ALISOLS (UFO)	PLINTHIC HAPLUSTULT (313)	1226
						HOMESTEAD & WATER	0
						TOTAL	4908

SOIL AND LANDFORM RESOURCES OF BANGLADESH

MAP SHEET 16

RECONNAISSANCE SOIL SURVEY OF PART OF CHITTAGONG SADAR SOUTH AND COX'S BAZAR (CX) (1973), AND
PART OF CHITTAGONG HILL TRACTS (CH) (1965)

NORTHERN AND EASTERN HILLS

LOW HILLS

ROLLING TO STEEP LOW HILLS, WITH LOCAL ALLUVIUM IN VALLEYS

MAP SYMBOL	SOIL SERIES	LAND TYPE	PARENT MATERIAL	GENERAL SOIL TYPE	FAO SOIL UNIT	USDA SOIL FAMILY	EXTENT (HA)
..... • HL981 •	HAZARIRAK (206)	HIGHLAND	TERTIARY ROCKS	BROWN HILL SOIL	ORTHIDYSTRIC CAMBISOLS (BDO)	UDIC USTOCHREPT (213)	10335
19C (CH)	KAPTAL(DP) (268)	HIGHLAND	TERTIARY ROCKS	BROWN HILL SOIL	HAPLIC ALISOLS (UD)	PLINTHIC HAPLUSTULT (313)	2405
	KARNAPHULI (272)	HIGHLAND	MINOR EASTERN RIVERS ALLUVIUM	NONCALCAREOUS BROWN FLOODPLAIN SOIL	ORTHIDYSTRIC CAMBISOLS (BDO)	FLUVENTIC USTOCHREPT (313)	534
	TEIABIL (553)	HIGHLAND	TERTIARY ROCKS	BROWN HILL SOIL	ORTHIDYSTRIC ALISOLS (UFO)	PLINTHIC HAPLUSTULT (313)	4277
	MOGHACHARI (345)	MEDIUM HIGHLAND-2	MINOR EASTERN RIVERS ALLUVIUM	NONCALCAREOUS GREY FLOODPLAIN SOIL	CHROMI-EUTRIC GLEYSOLS (GEB)	AERIC HAPLAQUEPT (312)	179
TOTAL							17820
HOMESTEAD & WATER							0

SOIL AND LANDFORM RESOURCES OF BANGLADESH

MAP SHEET 16

RECONNAISSANCE SOIL SURVEY OF PART OF CHITTAGONG SADAR SOUTH AND COX'S BAZAR (CX) (1973), AND
PART OF CHITTAGONG HILL TRACTS (CH) (1965)

NORTHERN AND EASTERN HILLS

LOW HILLS

ROLLING TO STEEP LOW HILLS, WITH LOCAL ALLUVIUM IN VALLEYS

MAP SYMBOL	SOIL SERIES	LAND TYPE	PARENT MATERIAL	GENERAL SOIL TYPE	FAO SOIL UNIT	USDA SOIL FAMILY	EXTENT (HA)
.....	HAZARIBAK	HIGHLAND	TERTIARY ROCKS	BROWN HILL SOIL	ORTHI-DYSTRIC CAMBISOLS (800)	UDIC USTOCHREPT (213)	21
• HL983 •	(206)						
.....							
21A (CH)	KARNAPHULI (272)	HIGHLAND	MINOR EASTERN RIVERS ALLUVIUM	NONCALCAREOUS BROWN FLOODPLAIN SOIL	ORTHI-DYSTRIC CAMBISOLS (800)	FLUVENTIC USTOCHREPT (313)	2
	LAMA (310)	HIGHLAND	TERTIARY ROCKS	BROWN HILL SOIL	ORTHI-DYSTRIC CAMBISOLS (800)	DYSTRIC EUTROCHREPT (313)	5
	TEIABIL (553)	HIGHLAND	TERTIARY ROCKS	BROWN HILL SOIL	ORTHI-FERRIC ALISOLS (UFO)	PLINTHIC HAPLUSTULT (313)	9
	MOGHACHARI (345)	MEDIUM HIGHLAND-2	MINOR EASTERN RIVERS ALLUVIUM	NONCALCAREOUS GREY FLOODPLAIN SOIL	CHROMI-EUTRIC GLEYSOLS (GEB)	AERIC HAPLAQUEPT (312)	1
						HOMESTEAD & WATER	1
						TOTAL	39

SOIL AND LANDFORM RESOURCES OF BANGLADESH

MAP SHEET 16

RECONNAISSANCE SOIL SURVEY OF PART OF CHITTAGONG SADAR SOUTH AND COX'S BAZAR (CX) (1973), AND
PART OF CHITTAGONG HILL TRACTS (CH) (1965)

NORTHERN AND EASTERN HILLS

LOW HILLS

ROLLING TO STEEP LOW HILLS, WITH LOCAL ALLUVIUM IN VALLEYS

MAP SYMBOL	SOIL SERIES	LAND TYPE	PARENT MATERIAL	GENERAL SOIL TYPE	FAO SOIL UNIT	USDA SOIL FAMILY	EXTENT (HA)
..... • HL984 •	HAZARIRAK (206)	HIGHLAND	TERTIARY ROCKS	BROWN HILL SOIL	ORTH1-DYSTRIC CAMBISOLS (BDO)	UOIC USTOCHREPT (213)	4294
21B (CH)	KARNAPHULI (272)	HIGHLAND	MINOR EASTERN RIVERS ALLUVIUM	NONCALCAREOUS BROWN FLOODPLAIN SOIL	ORTH1-DYSTRIC CAMBISOLS (BDO)	FLUVENTIC USTOCHREPT (313)	73
	LAMA (310)	HIGHLAND	TERTIARY ROCKS	BROWN HILL SOIL	ORTH1-DYSTRIC CAMBISOLS (BDO)	DYSTRIC EUTROCHREPT (313)	946
	RUMA (451)	HIGHLAND	MINOR EASTERN RIVERS ALLUVIUM	NONCALCAREOUS BROWN FLOODPLAIN SOIL	ORTH1-DYSTRIC CAMBISOLS (BDO)	DYSTRIC EUTROCHREPT (312)	73
	TEIABIL (553)	HIGHLAND	TERTIARY ROCKS	BROWN HILL SOIL	ORTH1-FERRIC ALISOLS (UFO)	PLINTHIC HAPLUSTULT (313)	1819
	MOGHACHARI (345)	MEDIUM HIGHLAND-2	MINOR EASTERN RIVERS ALLUVIUM	NONCALCAREOUS GREY FLOODPLAIN SOIL	CHROMI-EUTRIC GLEYSOLS (GEB)	AERIC HAPLAQUEPT (312)	73
TOTAL							7278
HOMESTEAD & WATER							0

SOIL AND LANDFORM RESOURCES OF BANGLADESH

MAP SHEET 16

RECONNAISSANCE SOIL SURVEY OF PART OF CHITTAGONG SADAR SOUTH AND COX'S BAZAR (CX) (1973), AND
PART OF CHITTAGONG HILL TRACTS (CH) (1965)

NORTHERN AND EASTERN HILLS

HIGH HILL RANGES

MODERATELY STEEP HILLS

MAP SYMBOL	SOIL SERIES	LAND TYPE	PARENT MATERIAL	GENERAL SOIL TYPE	FAO SOIL UNIT	USDA SOIL FAMILY	EXTENT (HA)
..... • HH1006 •	BELAICHARI (56)	HIGHLAND	TERTIARY ROCKS	BROWN HILL SOIL	LEPTI-DYSTRIC CAMBISOLS (BDI)	LITHIC UDIC USTOCHREPT (113)	373
38 (CH)	KAPTAI (DP) (268)	HIGHLAND	TERTIARY ROCKS	BROWN HILL SOIL	HAPLIC ALISOLS (UD)	PLINTHIC HAPLUSTULT (313)	622
	KAPTAI (SH) (269)	HIGHLAND	TERTIARY ROCKS	BROWN HILL SOIL	ORTHI-LEPTIC ALISOLS (UIO)	LITHIC HAPLUSTULT (113)	1492
						HOMESTEAD & WATER	0
						TOTAL	2487

SOIL AND LANDFORM RESOURCES OF BANGLADESH

MAP SHEET 16

RECONNAISSANCE SOIL SURVEY OF PART OF CHITTAGONG SADAR SOUTH AND COX'S BAZAR (CX) (1973), AND
PART OF CHITTAGONG HILL TRACTS (CH) (1965)

NORTHERN AND EASTERN HILLS

HIGH HILL RANGES

MODERATELY STEEP HILLS

MAP SYMBOL	SOIL SERIES	LAND TYPE	PARENT MATERIAL	GENERAL SOIL TYPE	FAO SOIL UNIT	USDA SOIL FAMILY	EXTENT (HA)
.....	KAPTAL(DP)	HIGHLAND	TERTIARY ROCKS	BROWN HILL SOIL	HAPLIC ALISOLS	PLINTHIC	1817
• HH1009 •	(268)			(UO)		HAPLUSTULT (313)	
.....							
41A (CH)	RANKHIANG (442)	HIGHLAND	TERTIARY ROCKS	BROWN HILL SOIL	ORTHI-DYSTRIC CAMBISOLS (B00)	UDIC USTOCHREPT (313)	930
						HOMESTEAD & WATER	0
						TOTAL	2797

SOIL AND LANDFORM RESOURCES OF BANGLADESH

MAP SHEET 16

RECONNAISSANCE SOIL SURVEY OF PART OF CHITTAGONG SADAR SOUTH AND COX'S BAZAR (CX) (1973), AND
PART OF CHITTAGONG HILL TRACTS (CH) (1965)

NORTHERN AND EASTERN HILLS

HIGH HILL RANGES

MODERATELY STEEP HILLS

MAP SYMBOL	SOIL SERIES	LAND TYPE	PARENT MATERIAL	GENERAL SOIL TYPE	FAO SOIL UNIT	USDA SOIL FAMILY	EXTENT (HA)
.....	KAPTAI(DP)	HIGHLAND	TERTIARY ROCKS	BROWN HILL SOIL	HAPLIC ALISOLS	PLINTHIC	404
• HH1010 •	(268)				(UO)	HAPLUSTULT (313)	
.....							
41B (CH)	RANKHIANG (442)	HIGHLAND	TERTIARY ROCKS	BROWN HILL SOIL	ORTHI-DYSTRIC CAMBISOLS (B00)	UDIC USTOCHREPT (313)	218
						HOMESTEAD & WATER	0
						TOTAL	622

SOIL AND LANDFORM RESOURCES OF BANGLADESH

MAP SHEET 16

RECONNAISSANCE SOIL SURVEY OF PART OF CHITTAGONG SADAR SOUTH AND COX'S BAZAR (CX) (1973), AND
PART OF CHITTAGONG HILL TRACTS (CH) (1965)

NORTHERN AND EASTERN HILLS

HIGH HILL RANGES

MODERATELY STEEP HILLS

MAP SYMBOL	SOIL SERIES	LAND TYPE	PARENT MATERIAL	GENERAL SOIL TYPE	FAO SOIL UNIT	USDA SOIL FAMILY	EXTENT (HA)
.....	KAPTAL(DP)	HIGHLAND	TERTIARY ROCKS	BROWN HILL SOIL	HAPLIC ALISOLS (UD)	PLINTHIC HAPLUSTULT (313)	54
• HH996 •	(268)						
.....							
30 (CH)	KAPTAL(SH) (269)	HIGHLAND	TERTIARY ROCKS	BROWN HILL SOIL	ORTHY-LEPTIC ALISOLS (UIO)	LITHIC HAPLUSTULT (113)	101
						HOMESTEAD & WATER	0
						TOTAL	155

SOIL AND LANDFORM RESOURCES OF BANGLADESH

MAP SHEET 16

RECONNAISSANCE SOIL SURVEY OF PART OF CHITTAGONG SADAR SOUTH AND COX'S BAZAR (CX) (1973), AND
PART OF CHITTAGONG HILL TRACTS (CH) (1965)

NORTHERN AND EASTERN HILLS

HIGH HILL RANGES

MAINLY STEEP AND VERY STEEP HILLS

MAP SYMBOL	SOIL SERIES	LAND TYPE	PARENT MATERIAL	GENERAL SOIL TYPE	FAO SOIL UNIT	USDA SOIL FAMILY	EXTENT (HA)
..... • HH1001 •	BELAICHARI (56)	HIGHLAND	TERTIARY ROCKS	BROWN HILL SOIL	LEPTI-DYSTRIC CAMBISOLS (B01)	LITHIC UDIC USTOCHREPT (113)	2269
33 (CH)	KAPTAI (DP) (268)	HIGHLAND	TERTIARY ROCKS	BROWN HILL SOIL	HAPLIC ALISOLS (U01)	PLINTHIC HAPLUSTULT (313)	4264
	KARNAPHULI (272)	HIGHLAND	MINOR EASTERN RIVERS ALLUVIUM	NONCALCAREOUS BROWN FLOODPLAIN SOIL	ORTHI-DYSTRIC CAMBISOLS (B00)	FLUVENTIC USTOCHREPT (313)	138
	RUMA (451)	HIGHLAND	MINOR EASTERN RIVERS ALLUVIUM	NONCALCAREOUS BROWN FLOODPLAIN SOIL	ORTHI-DYSTRIC CAMBISOLS (B00)	DYSTRIC EUTROCHREPT (312)	138
						HOMESTEAD & WATER	69
						TOTAL	6878

SOIL AND LANDFORM RESOURCES OF BANGLADESH

MAP SHEET 16

RECONNAISSANCE SOIL SURVEY OF PART OF CHITTAGONG SADAR SOUTH AND COX'S BAZAR (CX) (1973), AND
PART OF CHITTAGONG HILL TRACTS (CH) (1965)

NORTHERN AND EASTERN HILLS

HIGH HILL RANGES

MAINLY STEEP AND VERY STEEP HILLS

MAP SYMBOL	SOIL SERIES	LAND TYPE	PARENT MATERIAL	GENERAL SOIL TYPE	FAO SOIL UNIT	USDA SOIL FAMILY	EXTENT (HA)
.....	RELATCHARI	HIGHLAND	TERTIARY ROCKS	BROWN HILL SOIL	LEPTI-DYSTRIC CAMBISOLS (BDI)	LITHIC UDIC USTOCHREPT (113)	1722
• HH1003 •	(56)						
.....							
35 (CH)	KAPTAI(SH) (269)	HIGHLAND	TERTIARY ROCKS	BROWN HILL SOIL	ORTHI-LEPTIC ALISOLS (UIO)	LITHIC HAPLUSTULT (113)	3200
						HOMESTEAD & WATER	0
						TOTAL	4922

SOIL AND LANDFORM RESOURCES OF BANGLADESH

MAP SHEET 16

RECONNAISSANCE SOIL SURVEY OF PART OF CHITTAGONG SADAR SOUTH AND COX'S BAZAR (CX) (1973), AND
PART OF CHITTAGONG HILL TRACTS (CH) (1965)

NORTHERN AND EASTERN HILLS

HIGH HILL RANGES

MAINLY STEEP AND VERY STEEP HILLS

MAP SYMBOL	SOIL SERIES	LAND TYPE	PARENT MATERIAL	GENERAL SOIL TYPE	FAD SOIL UNIT	USDA SOIL FAMILY	EXTENT (HA)
..... • HH1004 •	BELAICHARI (56)	HIGHLAND	TERTIARY ROCKS	BROWN HILL SOIL	LEPTI-DYSTRIC CAMBISOLS (BDI)	LITHIC UDIC USTOCHREPT (113)	251
36 (CH)	KAPTAI(DP) (268)	HIGHLAND	TERTIARY ROCKS	BROWN HILL SOIL	HAPLIC ALISOLS (UD)	PLINTHIC HAPLUSTULT (313)	1002
	KAPTAI(SH) (269)	HIGHLAND	TERTIARY ROCKS	BROWN HILL SOIL	ORTHI-LEPTIC ALISOLS (UIO)	LITHIC HAPLUSTULT (113)	417
						HOMESTEAD & WATER	0
						TOTAL	1670

SOIL AND LANDFORM RESOURCES OF BANGLADESH

MAP SHEET 16

RECONNAISSANCE SOIL SURVEY OF PART OF CHITTAGONG SADAR SOUTH AND COX'S BAZAR (CX) (1973), AND
PART OF CHITTAGONG HILL TRACTS (CH) (1965)

NORTHERN AND EASTERN HILLS

HIGH HILL RANGES

MAINLY STEEP AND VERY STEEP HILLS

MAP SYMBOL	SOIL SERIES	LAND TYPE	PARENT MATERIAL	GENERAL SOIL TYPE	FAO SOIL UNIT	USDA SOIL FAMILY	EXTENT (HA)
..... • HH1007 •	BELAICHARI (56)	HIGHLAND	TERTIARY ROCKS	BROWN HILL SOIL	LEPTI-DYSTRIC CAMBISOLS (RDI)	LITHIC UDIC USTOCHREPT (113)	18310
39 (CH)	KAPTAL(DP) (268)	HIGHLAND	TERTIARY ROCKS	BROWN HILL SOIL	HAPLIC ALISOLS (UD)	PLINTHIC HAPLUSTULT (313)	31353
	KAPTAL(SH) (269)	HIGHLAND	TERTIARY ROCKS	BROWN HILL SOIL	ORTHI-LEPTIC ALISOLS (UIO)	LITHIC HAPLUSTULT (113)	73993
	KARNAPHULI (272)	HIGHLAND	MINOR EASTERN RIVERS ALLUVIUM	NONCALCAREOUS BROWN FLOODPLAIN SOIL	ORTHI-DYSTRIC CAMBISOLS (RDO)	FLUVENTIC USTOCHREPT (313)	1256
HOMESTEAD & WATER							0
TOTAL							125412

SOIL AND LANDFORM RESOURCES OF BANGLADESH

MAP SHEET 16

RECONNAISSANCE SOIL SURVEY OF PART OF CHITTAGONG SADAR SOUTH AND COX'S BAZAR (CX) (1973), AND
PART OF CHITTAGONG HILL TRACTS (CH) (1965)

NORTHERN AND EASTERN HILLS

HIGH HILL RANGES

MAINLY STEEP AND VERY STEEP HILLS

MAP SYMBOL	SOIL SERIES	LAND TYPE	PARENT MATERIAL	GENERAL SOIL TYPE	FAO SOIL UNIT	USDA SOIL FAMILY	EXTENT (HA)
.....	KAPTAL(DP)	HIGHLAND	TERTIARY ROCKS	BROWN HILL SOIL	HAPLIC ALISOLS	PLINTHIC HAPLUSTULT (313)	4554
• HH1008 •	(268)				(UD)		
.....							
40 (CH)	RANKHIANG (442)	HIGHLAND	TERTIARY ROCKS	BROWN HILL SOIL	ORTHI-DYSTRIC CAMBISOLS (B00)	UDIC USTOCHREPT (313)	2452
						HOMESTEAD & WATER	0
						TOTAL	7006

MAP SHEET 16

RECONNAISSANCE SOIL SURVEY OF PART OF CHITTAGONG SADAR SOUTH AND COX'S BAZAR (CX) (1973), AND
PART OF CHITTAGONG HILL TRACTS (CH) (1965)

NORTHERN AND EASTERN HILLS

HIGH HILL RANGES

MAINLY STEEP AND VERY STEEP HILLS

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SOIL AND LANDFORM RESOURCES OF BANGLADESH

MAP SHEET 16

RECONNAISSANCE SOIL SURVEY OF PART OF CHITTAGONG SADAR SOUTH AND COX'S BAZAR (CX) (1973), AND
PART OF CHITTAGONG HILL TRACTS (CH) (1965)

NORTHERN AND EASTERN HILLS

HIGH HILL RANGES

MAINLY STEEP AND VERY STEEP HILLS

MAP SYMBOL	SOIL SERIES	LAND TYPE	PARENT MATERIAL	GENERAL SOIL TYPE	FAO SOIL UNIT	USDA SOIL FAMILY	EXTENT (HA)
..... • HH1013 •	KAPTAI(OP) (268)	HIGHLAND	TERTIARY ROCKS	BROWN HILL SOIL	HAPLIC ALISOLS (UO)	PLINTHIC HAPLUSTULT (313)	1800
44 (CH)	KAPTAI(SH) (269)	HIGHLAND	TERTIARY ROCKS	BROWN HILL SOIL	ORTHI-LEPTIC ALISOLS (UIO)	LITHIC HAPLUSTULT (113)	4320
	PANKHIANG (442)	HIGHLAND	TERTIARY ROCKS	BROWN HILL SOIL	ORTHI-DYSTRIC CAMBISOLS (B90)	UDIC USTOCHREPT (313)	1080
						HOMESTEAD & WATER	0
						TOTAL	7200

SOIL AND LANDFORM RESOURCES OF BANGLADESH

MAP SHEET 16

RECONNAISSANCE SOIL SURVEY OF PART OF CHITTAGONG SADAR SOUTH AND COX'S BAZAR (CX) (1973) AND
PART OF CHITTAGONG HILL TRACTS (CH) (1965)

NORTHERN AND EASTERN HILLS

HIGH HILL RANGES

MAINLY STEEP AND VERY STEEP HILLS

MAP SYMBOL	SOIL SERIES	LAND TYPE	PARENT MATERIAL	GENERAL SOIL TYPE	FAO SOIL UNIT	USDA SOIL FAMILY	EXTENT (HA)
..... • HH1017 •	KANKRACHARI (267)	HIGHLAND	TERTIARY ROCKS	BROWN HILL SOIL	REGI-DYSTRIC CAMBISOLS (BDR)	DYSTRIC EUTROCHREPT (312)	194
48A (CH)	KAPTAI(DP) (268)	HIGHLAND	TERTIARY ROCKS	BROWN HILL SOIL	HAPLIC ALISOLS (UD)	PLINTHIC HAPLUSTULT (313)	369
	KARNAPHULI (272)	HIGHLAND	MINOR EASTERN RIVERS ALLUVIUM	NONCALCAREOUS BROWN FLOODPLAIN SOIL	ORTHI-DYSTRIC CAMBISOLS (BDO)	FLUVENTIC USTOCHREPT (313)	52
	MOGHACHARI (345)	MEDIUM HIGHLAND-2	MINOR EASTERN RIVERS ALLUVIUM	NONCALCAREOUS GREY FLOODPLAIN SOIL	CHROMI-EUTRIC GLEYSOLS (GER)	AERIC HAPLAQUEPT (312)	76
						HOMESTEAD & WATER	6
						TOTAL	647

SOIL AND LANDFORM RESOURCES OF BANGLADESH

MAP SHEET 16

RECONNAISSANCE SOIL SURVEY OF PART OF CHITTAGONG SADAR SOUTH AND COX'S BAZAR (CX) (1973)* AND
PART OF CHITTAGONG HILL TRACTS (CH) (1965)

NORTHERN AND EASTERN HILLS

HIGH HILL RANGES

MAINLY STEEP AND VERY STEEP HILLS

MAP SYMBOL	SOIL SERIES	LAND TYPE	PARENT MATERIAL	GENERAL SOIL TYPE	FAO SOIL UNIT	USDA SOIL FAMILY	EXTENT (HA)
..... • HH1018 •	KANKRACHARI (267)	HIGHLAND	TERTIARY ROCKS	BROWN HILL SOIL	REGI-DYSTRIC CAMBISOLS (BDR)	DYSTRIC EUTROCHREPT (312)	1090
48B (CH)	KAPTAI(DP) (268)	HIGHLAND	TERTIARY ROCKS	BROWN HILL SOIL	HAPLIC ALISOLS (UO)	PLINTHIC HAPLUSTULT (313)	2180
	KARNAPHULI (272)	HIGHLAND	MINOR EASTERN RIVERS ALLUVIUM	NONCALCAREOUS BROWN FLOODPLAIN SOIL	ORTHY-DYSTRIC CAMBISOLS (BDO)	FLUVENTIC USTOCHREPT (313)	33
						HOMESTEAD & WATER	0
						TOTAL	3303

SOIL AND LANDFORM RESOURCES OF BANGLADESH

MAP SHEET 16

RECONNAISSANCE SOIL SURVEY OF PART OF CHITTAGONG SADAR SOUTH AND COX'S BAZAR (CX) (1973), AND
PART OF CHITTAGONG HILL TRACTS (CH) (1965)

NORTHERN AND EASTERN HILLS

HIGH HILL RANGES

MAINLY STEEP AND VERY STEEP HILLS

MAP SYMBOL	SOIL SERIES	LAND TYPE	PARENT MATERIAL	GENERAL SOIL TYPE	FAO SOIL UNIT	USDA SOIL FAMILY	EXTENT (HA)
.....	KANKRACHARI	HIGHLAND	TERTIARY ROCKS	BROWN HILL SOIL	REGI-DYSTRIC CAMBISOLS (BDR)	DYSTRIC EUTROCHREPT (312)	643
• HH1019 •	(267)						
.....							
49 (CH)	KAPTAI(DP) (268)	HIGHLAND	TERTIARY ROCKS	BROWN HILL SOIL	HAPLIC ALISOLS (UD)	PLINTHIC HAPLUSTULT (313)	1210
						HOMESTEAD & WATER	38
						TOTAL	1391

MAP SHEET 16

RECONNAISSANCE SOIL SURVEY OF PART OF CHITTAGONG SÁDAR SOUTH AND COX'S BAZAR (CX) (1973), AND PART OF CHITTAGONG HILL TRACTS (CH) (1965)

NORTHERN AND EASTERN HILLS

HIGH HILL RANGES

MAINLY STEEP AND VERY STEEP HILLS

[illegible]

SOIL AND LANDFORM RESOURCES OF BANGLADESH

MAP SHEET 16

RECONNAISSANCE SOIL SURVEY OF PART OF CHITTAGONG SADAR SOUTH AND COX'S BAZAR (CX) (1973), AND
PART OF CHITTAGONG HILL TRACTS (CH) (1965)

NORTHERN AND EASTERN HILLS

HIGH HILL RANGES

MAINLY STEEP AND VERY STEEP HILLS

MAP SYMBOL	SOIL SERIES	LAND TYPE	PARENT MATERIAL	GENERAL SOIL TYPE	FAO SOIL UNIT	USDA SOIL FAMILY	EXTENT (HA)
..... • HH1023 •	KANKRACHARI (267)	HIGHLAND	TERTIARY ROCKS	BROWN HILL SOIL	REGI-DYSTRIC CAMBISOLS (BDR)	DYSTRIC EUTROCHREPT (312)	3145
52B (CH)	KAPTAI (DPI) (268)	HIGHLAND	TERTIARY ROCKS	BROWN HILL SOIL	HAPLIC ALISOLS (UO)	PLINTHIC HAPLUSTULT (313)	7731
	KARNAPHULI (272)	HIGHLAND	MINOR EASTERN RIVERS ALLUVIUM	NONCALCAREOUS BROWN FLOODPLAIN SOIL	ORTHI-DYSTRIC CAMBISOLS (BDO)	FLUVENTIC USTOCHREPT (313)	132
	LAMA (310)	HIGHLAND	TERTIARY ROCKS	BROWN HILL SOIL	ORTHI-DYSTRIC CAMBISOLS (BDO)	DYSTRIC EUTROCHREPT (313)	132
	RANKHIANG (442)	HIGHLAND	TERTIARY ROCKS	BROWN HILL SOIL	ORTHI-DYSTRIC CAMBISOLS (BDO)	UDIC USTOCHREPT (313)	1635
	MOGHACHARI (345)	MEDIUM HIGHLAND-2	MINOR EASTERN RIVERS ALLUVIUM	NONCALCAREOUS GREY FLOODPLAIN SOIL	CHROMI-EUTRIC GLEYSOLS (GEB)	AERIC HAPLAQUEPT (312)	132
						HOMESTEAD & WATER	0
						TOTAL	13107

SOIL AND LANDFORM RESOURCES OF BANGLADESH

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NORTHERN AND EASTERN HILLS

HIGH HILL RANGES

MAINLY STEEP AND VERY STEEP HILLS

MAP SYMBOL	SOIL SERIES	LAND TYPE	PARENT MATERIAL	GENERAL SOIL TYPE	FAO SOIL UNIT	USDA SOIL FAMILY	EXTENT (HA)
..... • HH948 •	BARKAL (44)	HIGHLAND	TERTIARY ROCKS	BROWN HILL SOIL	HAPLIC LUVISOLS (LO)	ULTIC HAPLUSTALF (310)	6739
36 (CX)	BIJIPUR (76)	HIGHLAND	NORTHERN AND EASTERN PIEDMONT ALLUVIUM	GREY PIEDMONT SOIL	CHROMI-EUTRIC GLEYSOLS (GEB)	TYPIC HAPLAQUEPT (312)	1404
	DHUM (133)	HIGHLAND	TERTIARY ROCKS	BROWN HILL SOIL	HAPLIC ALISOLS (UO)	DYSTRIC EUTROCHREPT (310)	1686
	JALDI (228)	HIGHLAND	TERTIARY ROCKS	BROWN HILL SOIL	CHROMI-DYSTRIC GLEYSOLS (GDB)	FLUVAQUENTIC DYSTROCHREPT (410)	2808
	SAJEK (460)	HIGHLAND	TERTIARY ROCKS	BROWN HILL SOIL	HAPLIC ALISOLS (UO)	PLINTHIC HAPLUSTULT (310)	1404
	SARTA (484)	HIGHLAND	NORTHERN AND EASTERN PIEDMONT ALLUVIUM	GREY PIEDMONT SOIL	CHROMI-DYSTRIC GLEYSOLS (GDB)	TYPIC HAPLAQUEPT (313)	282
	SITAKUND (SH) (516)	HIGHLAND	TERTIARY ROCKS	BROWN HILL SOIL	LEPTI-GLEYIC CAMBISOLS (BGI)	AFRIC LITHIC HAPLAQUEPT (310)	1404
	SUBALONG (528)	HIGHLAND	TERTIARY ROCKS	BROWN HILL SOIL	HAPLIC ALISOLS (UO)	PLINTHIC HAPLUSTULT (310)	10386
	SYLOK (538)	HIGHLAND	NORTHERN AND EASTERN PIEDMONT ALLUVIUM	GREY PIEDMONT SOIL	CHROMI-EUTRIC GLEYSOLS (GEB)	TYPIC HAPLAQUEPT (312)	282
	TAMABIL 1 (SH) (541)	HIGHLAND	TERTIARY ROCKS	BROWN HILL SOIL	DYSTRIC CAMBISOLS (BDI)	LITHIC DYSTROCHREPT (313)	1404
TOTAL							28091

HOMESTEAD & WATER 282

SOIL AND LANDFORM RESOURCES OF BANGLADESH

MAP SHEET 16

RECONNAISSANCE SOIL SURVEY OF PART OF CHITTAGONG SADAR SOUTH AND COX'S BAZAR (CX) (1973), AND
PART OF CHITTAGONG HILL TRACTS (CH) (1965)

NORTHERN AND EASTERN HILLS

HIGH HILL RANGES

MAINLY STEEP AND VERY STEEP HILLS

MAP SYMBOL	SOIL SERIES	LAND TYPE	PARENT MATERIAL	GENERAL SOIL TYPE	FAO SOIL UNIT	USDA SOIL FAMILY	EXTENT (HA)
..... • HH989 •	BELAICHARI (56)	HIGHLAND	TERTIARY ROCKS	BROWN HILL SOIL	LEPTI-DYSTRIC CAMBISOLS (BDI)	LITHIC UDIC USTOCHREPT (113)	6
25 (CH)	KAPTAI(DP) (268)	HIGHLAND	TERTIARY ROCKS	BROWN HILL SOIL	HAPLIC ALISOLS (UD)	PLINTHIC HAPLUSTULT (313)	609
	KAPTAI(SH) (269)	HIGHLAND	TERTIARY ROCKS	BROWN HILL SOIL	ORTHI-LEPTIC ALISOLS (UIO)	LITHIC HAPLUSTULT (113)	6
						HOMESTEAD & WATER	0
						TOTAL	621

SOIL AND LANDFORM RESOURCES OF BANGLADESH

MAP SHEET 16

RECONNAISSANCE SOIL SURVEY OF PART OF CHITTAGONG SADAR SOUTH AND COX'S BAZAR (CX) (1973), AND
PART OF CHITTAGONG HILL TRACTS (CH) (1965)

NORTHERN AND EASTERN HILLS

HIGH HILL RANGES

MAINLY STEEP AND VERY STEEP HILLS

MAP SYMBOL	SOIL SERIES	LAND TYPE	PARENT MATERIAL	GENERAL SOIL TYPE	FAO SOIL UNIT	USDA SOIL FAMILY	EXTENT (HA)
..... • HH991 •	KAPTAI(DP) (268)	HIGHLAND	TERTIARY ROCKS	BROWN HILL SOIL	HAPLIC ALISOLS (UO)	PLINTHIC HAPLUSTULT (313)	3894
27 (CH)	KAPTAI(SH) (269)	HIGHLAND	TERTIARY ROCKS	BROWN HILL SOIL	ORTHIL-LEPTIC ALISOLS (U10)	LITHIC HAPLUSTULT (113)	7231
						HOMESTEAD & WATER	0
						TOTAL	11125

SOIL AND LANDFORM RESOURCES OF BANGLADESH

MAP SHEET 16

RECONNAISSANCE SOIL SURVEY OF PART OF CHITTAGONG SADAR SOUTH AND COX'S BAZAR (CX) (1973), AND
PART OF CHITTAGONG HILL TRACTS (CH) (1965)

NORTHERN AND EASTERN HILLS

HIGH HILL RANGES

MAINLY STEEP AND VERY STEEP HILLS

MAP SYMBOL	SOIL SERIES	LAND TYPE	PARENT MATERIAL	GENERAL SOIL TYPE	FAD SOIL UNIT	USDA SOIL FAMILY	EXTENT (HA)
..... • HH994 •	KAPTAI(OP) (268)	HIGHLAND	TERTIARY ROCKS	BROWN HILL SOIL	HAPLIC ALISOLS (UO)	PLINTHIC HAPLUSTULT (313)	910
29A (CH)	KAPTAI(SH) (269)	HIGHLAND	TERTIARY ROCKS	BROWN HILL SOIL	ORTH-LEPTIC ALISOLS (U10)	LITHIC HAPLUSTULT (113)	489
						HOMESTEAD & WATER	0
						TOTAL	1399

SOIL AND LANDFORM RESOURCES OF BANGLADESH

MAP SHEET 16

RECONNAISSANCE SOIL SURVEY OF PART OF CHITTAGONG SADAR SOUTH AND COX'S BAZAR (CX) (1973), AND
PART OF CHITTAGONG HILL TRACTS (CH) (1965)

NORTHERN AND EASTERN HILLS

HIGH HILL RANGES

MAINLY STEEP AND VERY STEEP HILLS

MAP SYMBOL	SOIL SERIES	LAND TYPE	PARENT MATERIAL	GENERAL SOIL TYPE	FAO SOIL UNIT	USDA SOIL FAMILY	EXTENT (HA)
..... • HH997 •	KAPTAI(DP) (268)	HIGHLAND	TERTIARY ROCKS	BROWN HILL SOIL	HAPLIC ALISOLS (UD)	PLINTHIC HAPLUSTULT (313)	245
31A (CH)	KAPTAI(SH) (269)	HIGHLAND	TERTIARY ROCKS	BROWN HILL SOIL	ORTHI-LEPTIC ALISOLS (UIO)	LITHIC HAPLUSTULT (113)	455
						HOMESTEAD & WATER	0
						TOTAL	700

SOIL AND LANDFORM RESOURCES OF BANGLADESH

MAP SHEET 16

RECONNAISSANCE SOIL SURVEY OF PART OF CHITTAGONG SADAR SOUTH AND COX'S BAZAR (CX) (1973), AND
PART OF CHITTAGONG HILL TRACTS (CH) (1965)

NORTHERN AND EASTERN HILLS

HIGH HILL RANGES

MAINLY STEEP AND VERY STEEP HILLS

MAP SYMBOL	SOIL SERIES	LAND TYPE	PARENT MATERIAL	GENERAL SOIL TYPE	FAO SOIL UNIT	USDA SOIL FAMILY	EXTENT (HA)
.....	KAPTAI(OP)	HIGHLAND	TERTIARY ROCKS	BROWN HILL SOIL	HAPLIC ALISOLS (UO)	PLINTHIC HAPLUSTULT (313)	2330
• HH998 •	(268)						
.....							
31B (CH)	KAPTAI(SH) (269)	HIGHLAND	TERTIARY ROCKS	BROWN HILL SOIL	ORTH-LEPTIC ALISOLS (UIDO)	LITHIC HAPLUSTULT (113)	4327
						HOMESTEAD & WATER	0
						TOTAL	6657

SOIL AND LANDFORM RESOURCES OF BANGLADESH

MAP SHEET 16

RECONNAISSANCE SOIL SURVEY OF PART OF CHITTAGONG SADAR SOUTH AND COX'S BAZAR (CX) (1973), AND
PART OF CHITTAGONG HILL TRACTS (CH) (1965)

NORTHERN AND EASTERN HILLS

HIGH HILL RANGES

MAINLY STEEP AND VERY STEEP HILLS

MAP SYMBOL	SOIL SERIES	LAND TYPE	PARENT MATERIAL	GENERAL SOIL TYPE	FAO SOIL UNIT	USDA SOIL FAMILY	EXTENT (HA)
..... • HH999 •	KAPTAI(DP) (268)	HIGHLAND	TERTIARY ROCKS	BROWN HILL SOIL	HAPLIC ALISOLS (UO)	PLINTHIC HAPLUSTULT (313)	254
31C (CH)	KAPTAI(SH) (269)	HIGHLAND	TERTIARY ROCKS	BROWN HILL SOIL	ORTHI-LEPTIC ALISOLS (UIO)	LITHIC HAPLUSTULT (113)	471
						HOMESTEAD & WATER	0
						TOTAL	725

MAP SHEET 16

RECONNAISSANCE SOIL SURVEY OF PART OF CHITTAGONG SADAR SOUTH AND COX'S BAZAR (CX) (1973), AND
PART OF CHITTAGONG HILL TRACTS (CH) (1965)

NORTHERN AND EASTERN HILLS

HIGH HILL RANGES

STEEP AND VERY STEEP HILLS, WITH LOCAL ALLUVIUM IN VALLEYS

[illegible]

SOIL AND LANDFORM RESOURCES OF BANGLADESH

MAP SHEET 16

RECONNAISSANCE SOIL SURVEY OF PART OF CHITTAGONG SADAR SOUTH AND COX'S BAZAR (CX) (1973), AND
PART OF CHITTAGONG HILL TRACTS (CH) (1965)

NORTHERN AND EASTERN HILLS

HIGH HILL RANGES

STEEP AND VERY STEEP HILLS, WITH LOCAL ALLUVIUM IN VALLEYS

MAP SYMBOL	SOIL SERIES	LAND TYPE	PARENT MATERIAL	GENERAL SOIL TYPE	FAO SOIL UNIT	USDA SOIL FAMILY	EXTENT (HA)
..... • HH1021 •	KANKRACHARI (267)	HIGHLAND	TERTIARY ROCKS	BROWN HILL SOIL	REGI-DYSTRIC CAMBISOLS (ROR)	DYSTRIC EUTROCHREPT (312)	293
51 (CH)	KAPTAL(OP) (268)	HIGHLAND	TERTIARY ROCKS	BROWN HILL SOIL	HAPLIC ALISOLS (UO)	PLINTHIC HAPLUSTULT (313)	552
	KARNAPHULI (272)	HIGHLAND	MINOR EASTERN RIVERS ALLUVIUM	NONCALCAREOUS BROWN FLOODPLAIN SOIL	ORTHI-DYSTRIC CAMBISOLS (BDD)	FLUVENTIC USTOCHREPT (313)	271
						HOMESTEAD & WATER	12
						TOTAL	1128

SOIL AND LANDFORM RESOURCES OF BANGLADESH

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RECONNAISSANCE SOIL SURVEY OF PART OF CHITTAGONG SADAR SOUTH AND COX'S BAZAR (CX) (1973), AND
PART OF CHITTAGONG HILL TRACTS (CH) (1965)

NORTHERN AND EASTERN HILLS

HIGH HILL RANGES

STEEP AND VERY STEEP HILLS, WITH LOCAL ALLUVIUM IN VALLEYS

MAP SYMBOL	SOIL SERIES	LAND TYPE	PARENT MATERIAL	GENERAL SOIL TYPE	FAO SOIL UNIT	USDA SOIL FAMILY	EXTENT (HA)
.....	KAPTAI(OP)	HIGHLAND	TERTIARY ROCKS	BROWN HILL SOIL	HAPLIC ALISOLS	PLINTHIC HAPLUSTULT (313)	56
• HI1024 •	(268)				(UD)		
.....							
53A (CH)	RANKHIANG (442)	HIGHLAND	TERTIARY ROCKS	BROWN HILL SOIL	ORTHI-DYSTRIC CAMBISOLS (BDO)	UDIC USTOCHREPT (313)	103
						HOMESTEAD & WATER	35
						TOTAL	194

SOIL AND LANDFORM RESOURCES OF BANGLADESH

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RECONNAISSANCE SOIL SURVEY OF PART OF CHITTAGONG SADAR SOUTH AND COX'S BAZAR (CX) (1973), AND
PART OF CHITTAGONG HILL TRACTS (CH) (1965)

NORTHERN AND EASTERN HILLS

HIGH HILL RANGES

STEEP AND VERY STEEP HILLS, WITH LOCAL ALLUVIUM IN VALLEYS

MAP SYMBOL	SOIL SERIES	LAND TYPE	PARENT MATERIAL	GENERAL SOIL TYPE	FAO SOIL UNIT	USDA SOIL FAMILY	EXTENT (HA)
.....	BARAKAL	HIGHLAND	TERTIARY ROCKS	BROWN HILL SOIL	HAPLIC LUVISOLS (LO)	ULTIC HAPLUSTALF (310)	243
• HH951 •	(44)						
.....							
37 (CX)	BIJIPUR (76)	HIGHLAND	NORTHERN AND EASTERN PIEDMONT ALLUVIUM	GREY PIEDMONT SOIL	CHROMI-EUTRIC GLEYSOLS (GER)	TYPIC HAPLAQUEPT (312)	18
	DHUM (133)	HIGHLAND	TERTIARY ROCKS	BROWN HILL SOIL	HAPLIC ALISOLS (UD)	DYSTRIC EUTROCHREPT (310)	87
	JALDI (228)	HIGHLAND	TERTIARY ROCKS	BROWN HILL SOIL	CHROMI-DYSTRIC GLEYSOLS (GDB)	FLUVAQUENTIC DYSTROCHREPT (410)	174
	SAJEK (460)	HIGHLAND	TERTIARY ROCKS	BROWN HILL SOIL	HAPLIC ALISOLS (UD)	PLINTHIC HAPLUSTULT (310)	87
	SARTA (484)	HIGHLAND	NORTHERN AND EASTERN PIEDMONT ALLUVIUM	GREY PIEDMONT SOIL	CHROMI-DYSTRIC GLEYSOLS (GDB)	TYPIC HAPLAQUEPT (313)	173
	SUBALONG (528)	HIGHLAND	TERTIARY ROCKS	BROWN HILL SOIL	HAPLIC ALISOLS (UD)	PLINTHIC HAPLUSTULT (310)	573
	SYLOK (538)	HIGHLAND	NORTHERN AND EASTERN PIEDMONT ALLUVIUM	GREY PIEDMONT SOIL	CHROMI-EUTRIC GLEYSOLS (GER)	TYPIC HAPLAQUEPT (312)	312
	BIJIPUR (76)	MEDIUM HIGHLAND-1	NORTHERN AND EASTERN PIEDMONT ALLUVIUM	GREY PIEDMONT SOIL	CHROMI-EUTRIC GLEYSOLS (GER)	TYPIC HAPLAQUEPT (312)	18
	SARTA (484)	MEDIUM HIGHLAND-1	NORTHERN AND EASTERN PIEDMONT ALLUVIUM	GREY PIEDMONT SOIL	CHROMI-DYSTRIC GLEYSOLS (GDB)	TYPIC HAPLAQUEPT (313)	18
						HOMESTEAD & WATER	35
						TOTAL	1738

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SOIL AND LANDFORM RESOURCES OF BANGLADESH

MAP SHEET 16

RECONNAISSANCE SOIL SURVEY OF PART OF CHITTAGONG SADAR SOUTH AND COX'S BAZAR (CX) (1973) AND
PART OF CHITTAGONG HILL TRACTS (CH) (1965)

SOIL SERIES AREA TOTAL (HA)	460593
HOME+WATER AREA TOTAL (HA)	27430
CHARLAND	0
RESERVED FOREST (UNSURVEYED)	105401
RIVER + BIL	11292
URBAN	207
MUD FLAT	0
MUD	0
MUD+CHARLAND	0
MUD+CHARLAND (SALINE)	0
BEACH RIDGE	0
BEACH SAND	0
UNSURVEYED	0
MAP SHEET AREA TOTAL (HA)	613923