

12) DMMMSU 構内都市設備の概況

1. 電気設備

a. 変圧器容量及び台数	10 KVA	4台
	15 KVA	7台
	25 KVA	5台
	50 KVA	1台
	75 KVA	3台
b. 一次電圧/二次電圧	4160V / 240V	
c. 周波数	60 Hz	
d. 最大一次電流	15A (4160V)	
e. 引込電線サイズ	架空 3φ 3W No2	

2. 電話設備

a. 引込回線数	4回線
b. 電話器台数	14台
c. 方式	パーティー方式

3. 給水設備

a. 主配管	4" - 1½"
b. 受水槽容量	150,000 ガロン
c. 深井戸深さ	120 ft, 285 ft

4. 汚水処理設備

a. 特になし

5. ガス設備

a. シリンダーガス	LPG 50 kg ボンベ
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6. ごみ処理設備

a. 特になし

13) DMMMSU 構内 水質データ

Republic of the Philippines
 Ministry of Health
 Regional Health Office No. I
 (Regional Tertiary)
 Department of LABORATORIES
 San Fernando, La Union

WATER QUALITY EXAMINATION REPORT

Report No. 121 to 133
 Date Recd. 8-29-83

TO: the Municipal Health Officer
Sacnotan, La Union

No. of samples: 13 from Sacnotan, La Union
 Date of collection: 8-29-83 Date Exam: 8-29-83
 Appearance: 121 to 133 = slightly turbid Sediment: 121 to 133 = present

S A M P L E S	Colonies per	Lactose Broth		Completed Test
	ml or Agar 37 c	Gas 24 hrs.	Gas 48 hrs.	
121-DMMMS, Sacnotan Teak wood well	190col/cc	POSITIVE	POSITIVE	POSITIVE (Enterobacter)
122-Arosia and Deep well	260col/cc	POSITIVE	POSITIVE	POSITIVE (Intermediate)
123-Teak well DMMMSU, Sacnotan	130col/cc	POSITIVE	POSITIVE	POSITIVE (Enterobacter)
124-DMMMSU, Sacnotan Mangrove II Improved Spring	TNTC	POSITIVE	POSITIVE	POSITIVE (Intermediate)
125-Sacnotan, DMMMSU Sacnotan, La Union	60col/cc	POSITIVE	POSITIVE	POSITIVE (Enterobacter)
126-Plant Science Improved Spring - DMMMSU, Actn.	120col/cc	POSITIVE	POSITIVE	POSITIVE (Enterobacter)
127-Cology Improved Spring, Sacnotan	90col/cc	POSITIVE	POSITIVE	POSITIVE (Enterobacter)
128-Arosia Mangrove Camasa- Mataas-DMMMSU, Actn.	390col/cc	POSITIVE	POSITIVE	POSITIVE (Enterobacter)
129-Ciggery Improved DMMMSU, Sacnotan	150col/cc	POSITIVE	POSITIVE	POSITIVE (Enterobacter)
130-Faculty Village DMMMSU, Sacnotan	290col/cc	POSITIVE	POSITIVE	POSITIVE (Enterobacter)
131-Xarra-Improved DMMMSU, Sacnotan	60col/cc	POSITIVE	POSITIVE	POSITIVE (Enterobacter)
132-Xarra II Improved DMMMSU, Sacnotan	190col/cc	POSITIVE	POSITIVE	POSITIVE (Enterobacter)
133-Arosia Dorm. Improved Spring-DMMMSU, Actn.	180col/cc	POSITIVE	POSITIVE	POSITIVE (Enterobacter)

REMARKS: NEGATIVE FOR E COLI. SAMPLES NO. 121 to 133

(SGO) TERESITA RIOFLORIDO
 Examiner
 Medical Technologist

Noted (SGO) MARIO S. LUANTES, M.D.
 Acting Chief of Laboratory Services

14) リージョン I 気象データ

(1951-1970)

	1月	2月	3月	4月	5月	6月	7月	8月	9月	10月	11月	12月
<u>気温 (°C)</u>												
1. ABRA	25.5	25.4	27.0	28.5	29.1	27.7	28.2	27.6	27.3	27.5	26.6	25.6
2. LA UNION	19.2	19.8	21.5	22.8	23.0	22.0	20.0	19.0	19.5	20.0	19.5	19.5
3. PANGASINAN	26.1	26.7	28.3	29.6	29.7	28.8	28.3	27.8	27.9	28.2	27.4	26.7
4. MT. PROVINCE	21.5	20.8	21.5	23.5	24.5	23.8	24.8	26.0	24.0	23.0	22.3	21.5
5. ILOCOS SUR	25.5	26.0	27.2	28.4	28.9	27.8	27.3	26.8	26.8	27.3	26.8	26.1
6. ILOCOS NORTE	24.4	24.8	26.4	28.0	28.9	28.2	27.7	27.4	27.2	27.2	26.5	25.4
7. KALINGA-APAYO	24.8	25.0	27.0	29.0	29.2	28.0	28.2	27.9	27.7	27.5	26.7	25.6
8. IFUGAO	21.5	20.5	21.5	24.0	24.5	23.2	23.5	24.0	24.5	23.5	22.2	22.0
9. BAGUIO, BENGUET	17.8	18.3	19.5	20.3	20.4	19.8	19.4	19.0	19.1	19.4	18.9	18.4
<u>湿度 (%)</u>												
1. BAGUIO, BENGUET	79	78	79	81	85	88	90	92	91	87	82	80
2. DAGPAN, PAGASINAN	73	72	71	70	74	80	83	85	84	79	77	75
3. LAOAG, ILOCOS NORTE	73	72	72	71	75	82	84	86	86	78	75	74
4. VIGAN, ILOCOS SUR	76	76	76	76	77	83	86	87	87	81	78	78
<u>降雨量 (mm)</u>												
1. ABRA	29.4	14.1	48.8	152.8	371.0	515.2	602.2	702.4	532.8	210.8	123.6	28.0
2. LA UNION	8.1	6.9	9.4	22.3	180.3	330.2	603.5	671.1	403.3	142.7	49.0	19.3
3. PANGASINAN	4.0	8.3	22.4	86.5	211.5	346.5	433.9	541.6	370.3	140.6	64.9	17.2
4. MT. PROVINCE	15.	25.	55.	105.	200.	230.	450.	450.	300.	210.	140.	50.
5. ILOCOS SUR	0.9	1.7	7.1	21.9	127.8	420.1	474.3	704.3	407.0	79.3	40.5	10.8
6. ILOCOS NORTE	4.2	0.8	2.5	13.7	122.2	436.0	404.3	565.8	389.6	65.6	50.0	11.9
7. KALING-APAYAO	35.	30.	55.	80.	250.	400.	500.	550.	300.	200.	250.	75.
8. IFUGAO	30.	25.	55.	105.	250.	300.	450.	600.	350.	220.	150.	50.
9. BAGUIO, BENGUET	11.0	11.3	38.7	104.8	288.4	476.3	576.8	817.5	670.9	257.4	142.5	26.6

15) 建設主要資材 単価表

CASE I : PHRPC I. II. III コンサルタント調査 S.57.10
CASE II : PHRPC I. II. III 契約単価 S.58.9
CASE III : S.58.10 初旬 現地業者見積り調査

	UNIT	82' 10 CASE I P	83' 9 CASE II P	83' 10 CASE III P	83' December RESULT
<u>* TEMPORARY WORK</u>					
Temporary office	Sm	1,000.-		1,540.-	1,150.-
Marking	Sm	10.-		17.-	17.-
Scaffolding; Outside	Sm	30.-			35.-
Inside	Sm	15.-			18.-
Cleaning	Sm	20.-		10.- (3+7)	20.-
<u>* EARTH WORK</u>					
Excavation; by machine	Cm	35.-	39.-	40.-	42.-
by hand	Cm		44.-	85.-	
Backfilling	Cm	20.-	24.-	60.-	24.-
Filling	Cm	80.-		180.- (120+60)	
Disposal in the site	Cm	20.-	21.-	55.-	24.-
Crushed stone laying	Cm	120.-	170.-	250.- (190+60)	172.-
Broken Stone foundation	Cm	120.-	170.-	250.- (190+60)	172.-
Leveling concrete	Cm	680.-	687.-	670.- (630+40)	745.-
<u>* CONCRETE WORK</u>					
Portland cement; 40kg/Bag	Bag	31.-	35.-	40.-	35.-
White cement; 40kg/Bag	Bag	115.-		130.-	
Sand	Cm	55.-		100.-	64.-
Graval	Cm	110.-	156.-	180.-	127.-
Concrete: incl. pouring					
Fc-210kg/cm ² s-15cm	Cm	672.- (552+120)	881.-	930.- (880+40)	810.-
Fc-280kg/cm ² s-15cm	Cm	705.- (585+120)		1,000.- (950+50)	920.-
Pumping charge	Cm	50.-		60.-	57.5

	UNIT	82' 10 CASE I P	83' 9 CASE II P	83' 10 CASE III P	83' December RESULT
Form: install & removal					
General	Sm	68.-	95.-	120.- (80+40)	82.-
Exposed	Sm	100.-	128.-	130.- (90+40)	115.-
Reinforcing steel bar;					
Round bar 1/2φ	Ton	3,500.- (3,200+300)		7,900.- (7,200+700)	
Deformed bar 1/2φ	Ton	3,800.- (3,500+300)	5,000.-	8,200.- (7,500+700)	¥68,000.- (J)
* <u>PILING</u>					
Concrete pipe; 12" x 12"	Lm	690.- (590+100)		980.-	794.-
16" x 16"	Lm	1,080.- (980+100)		1,400.-	1,242.-
18" x 18"	Lm	1,300.- (1,200+100)		2,100.-	1,495.-
* <u>STEEL STRUCTURE WORK</u>					
Wide flange beam	Ton	7,500 - 7,800	2,350.-	10,800.-	¥228,300.- (J)
Channel	Ton	4,500 - 6,000		10,800.-	
Angle	Ton	3,800 - 4,500		9,600.-	
Steel plate	Ton	3,800 - 4,200		10,200.-	
Checkered plate	Ton	4,500.-		10,800.-	
Deck plate	Ton	3,800 - 4,200		11,400.-	
Steel pipe	Ton	4,200.-		10,200.-	
Square pipe	Ton	3,800.-		10,800.-	
High strength bolt	Ton	10,000.-		33,000.-	
Shop-fabrication	Ton	1,000.-		2,500.-	
Erection fee	Ton	1,000.-		2,300.-	
Rust resisting paint: 1 coat	Ton	200.-		400.-	
Transportation	Ton	250.-		700.-	

	UNIT	83' 10 CASE I P	83' 9 CASE II P	83' 10 CASE III P	83' December RESULT
* MASONRY WORK					
Concrete hollow block;					
T-100mm	Sm	91.-	92.-	138.- (120+18)	115.-
T-150mm	Sm	108.-	110.-	158.- (140+18)	130.-
Brick: 2" x 9"	Sm	70.-	240.-	355.- (330+35)	80.-
* WATERPROOFING WORK					
Bituminous menbrane waterproofing	Sm	90.- (80+10)	101 - 195	210.-	240.-
Calking: polysulfide 10 x 10mm	Lm	6.7	20.-	80.-	15.-
Cement waterproofing					110.-
* CARPENTRY WORK					
Flooring: w/base Apitong	Sm	115.- (85+30)	118.-		133.-
Baseboard: Yacal H-100mm	Lm	5.2 (4.2+1)		42.- (35+7)	6.-
Wood stud partition: Lausan	Sm			56.- (42+14)	
100mm x 50mm @450mm					
Wall horizontal furring:	Sm	27.-		19.- (12+7)	31.-
50mm x 25mm @450mm					
Ceiling ground: w/suspension bar	Sm	63.- (36+27)		70.- (56+14)	72.-
Ceiling wood: Tanguile	Sm	63.-		138.- (110+28)	72.-
12mm x 100mm					
Door frame: Yaka1	Lm	120.-	260.-	35.- (30+5)	140.-
Roof rafters & battens for roof tile:	Sm	137.-		320.- (250+70)	158.-
rafter 2"x4" @600, plywood T- $\frac{1}{2}$ "					
w/waterproof paper horizontal batten					
2"x1" @270					
Lumber: NARRA	BF	10.-		40.- (33+7)	12.-
GUIJO, YAKAL	BF	7.5		24.- (17+7)	9.-
LAUAN, TANGUILE	BF	3.8		20.- (17+3)	5.-

	UNIT	82' 10 CASE I P	83' 9 CASE II P	83' 10 CASE III P	83' December RESULT
* ROOFING WORK					
Spanish Ondula tile	Sm	382.-		210.-	439.-
Ditto ridge top tile	Lm	164.-			188.-
Dorrugated asbestos cement sheet: T-4.0mm	Sm	49.3 (45+4.3)	100.-	140.-	55.-
Pre-painted corrugated iron sheet:					
TWIN PIG #26	Sm	100.-	102.-	200.-	135.-
SEAMLOCH #26	Sm	77.-			86.-
RIB 525 #26	Sm	90.-			104.-
#30	Sm	73.-			84.-
MINI CON #30	Sm	68.-			78.-
Roof drain: vertical type 4"Ø	Pc	290.-			334.-
6"Ø	Pc	590.-	460.-		679.-
Down spout: steel pipe 4"Ø	Lm	160.-			184.-
6"Ø	Lm	181.-	460.-		208.-
* METAL WORK					
Floor access panel: 600 x 600	Ea	950.-			1,093.-
Ceiling access panel: 450 x 450	Ea	320.-	495.-		370.-
Trench cover: steel grating; w/frame W-300mm	Lm	545.-		200.-	627.-
Non-slip: brass	Lm	73.-		35.-	84.-
Steel ladder L-4.0m	Ea	1,818.-	1,700.-	(30+5) 4,200.-	2,091.-
Handrail: steel pipe H-110cm	Lm	450.-		420.-	518.-

	UNIT	82' 10 CASE I P	82' 9 CASE II P	83' 10 CASE III P	83' December RESULT
* DOOR & WINDOW					
Wood: Single swing door; not incl. jamb, 800x2, 100mm Tanguile	Ea	450 - 500	440.-	385.- (350+35)	460.-
Ditto, 900x2,400mm Tanguile	Ea	550.-	500.-	485.- (460+35)	633.-
Window;	Sm	230.-	380.-	184.- (170+14)	265.-
Steel: Single swing door; flush, 800x2, 100mm	Ea	950.-	2,900.-	1,810.- (1,600+210)	
Double swing door; flush, 1,600x2,100mm	Ea	1,800.-	4,561.-	3,280.- (3,000+280)	
Swing window	Sm	550.-		374.- (360+14)	
Fixed louver	Sm	450.-		434.- (420+14)	
Aluminium: window	Sm	1,550.-	2,100.-	1,160.- (1,100+60)	
Adjustable louver window: steel	Sm	550.-	230.-	644.- (630+14)	633.-
Hardware: Hinge 4"	Pc	20.-	145.-	310.- (300+10)	
Lock with lever handle	Set	270.-	275.-		
Door closer	Set	270.-	233.-	950.- (900+50)	
Lavatory hinge	Set	100.-	104.-		
Glass: Transparent T-3mm	Sm	120.-		225.-	140.-
T-5mm	Sm	200.- (130+70)	257.-	315.-	240.-
Frosted T-5mm	Sm	470.- (400+70)		270.-	540.-
Grey-pen T-5mm	Sm	750.- (680+70)		441.-	863.-
* FINISHES					
Plastering:					
Floor; Waterproofing cement mortar	Sm	40.-	88.-	45.- (24+21)	46.-
Trowel finish	Sm	14.-	24.-	11.- (3+8)	16.-
Cement mortar	Sm	30.-	35.-	42.- (21+21)	35.-

	UNIT	82' 10 CASE I P	83' 9 CASE II P	83' 10 CASE III P	83' December RESULT
Base; Cement mortar H-100mm	Lm	14.-		13.- (3+10)	16.-
Wall; Cement mortar	Sm	32.-		43.- (26+17)	37.-
Ceiling; Cement mortar	Sm	35.-		51.- (26+25)	40.-
Floor: Pebble washout finish	Sm	80.-	90.-		95.-
Vinyl asbestos tile	Sm	50.-	44.-	147.- (140+7)	60.-
Vitreous tile unglazed 25 x 25mm	Sm	120.-	120.-	244.- (220+22)	140.-
Marble tile, $\frac{3}{4}$ " x 12" x 24"	Sm	270.- (210+60)		330.-	311.-
Tilewood (Parquet), T- $\frac{3}{8}$ " Narra	Sm	180.- (80+100)		170.-	207.-
Terazzo tile	Sm	180.-	143.-	140.-	207.-
Carpet	Sm	150 - 300	322.-		345.-
Base: Vinyl sheet			88.-		110.-
Vinyl, H-100	Lm	10.-	12.-		
Wall: Synthetic adobe finish by chipping the surface	Sm	90.-	90.-	84.-	105.-
Vitreous tile, 100 x 100	Sm	120.-		205.- (180+25)	130.-
Marble, T- $\frac{3}{4}$ "	Sm	300.- (230+70)		360.-	345.-
Plywood, Narra T-6.0 w/furring	Sm	75.-		121.- (100+21)	86.-
Tanguile T-6.0	Sm	60.-		84.- (63+21)	69.-
Ceiling: Asbestos cement sheet T-4.0	Sm	65.-		119.- (91+28)	75.-
Gypsum board, T- $\frac{1}{2}$ "	Sm	60.- (40+20)		140.- (112+28)	69.-
Sypsum board, base T- $\frac{3}{8}$ "	Sm	45.-			52.-
Mineral acoustic board T- $\frac{1}{2}$ "	Sm	70.- (45+25)		118.- (98+20)	81.-
Mineral acoustic board on aluminum T-runner	Sm	230.-		196.- (175+21)	265.-
Plywood: T- 6.0mm 4'x8'	Pc	40.-	41.-	112.- (91+21)	46.-
T-12.0mm 4'x8'	Pc	90.-		231.- (196+35)	104.-
Veneering plywood; T-6.0mm 4'x8' Narra	Pc	80.-		189.- (168+21)	92.-

	UNIT	82' 10 CASE I P	83' 9 CASE II P	83' 10 CASE III P	83' December RESULT
<u>* PAINTING WORK</u>					
Synthetic resin paint; SOP	Sm	30.-	21.-	45.-	40.-
Emulsion paint; EP	Sm	27.-	21.-	45.-	35.-
Vinyl resin paint; VP	Sm	27.-	21.-	63.-	35.-
Oil stain clear lacquer; OSCL	Sm	60.-		84.-	65.-
Sprayed Lithin			120.-		135.-
<u>* SUNDRIES</u>					
Steel pipe, L-6.0m 4"φ	Pc	145.-			167.-
Vinyl pipe, 4"φ	Lm	60.-			69.-
Manhole cover, castiron, 24"φ	Ea	1,000.-			1,150.-
Toilet booth terrazzo block	Sm	1,100.-			1,265.-
Rised floor (Free access floor) not inclu. surface finish	Sm	1,200.-			1,380.-
Drainage pipe; concrete pipe 6"φ	Lm	65.- (20+45)			75.-
Room name plate	Ea	70.-			81.-
Grouting cement mortar, around doors and windows	Lm	14.-		12.- (7+5)	16.-
Gasoline (Petrol)	Lit	4.8			6.2
Diesel oil (Light oil)	Lit	2.9			3.4
<u>* EXTERNAL WORK</u>					
Pavement: Asphalt	Sm	90.-		110.-	110.-
Concrete 150 150	Sm	145.-		195.- (168+28)	167.-
Soil rough leveling	Sm	9.-		30.-	10.-
Curb: Concrete, 150x200mm	Lm	27.-	42.-	102.- (75+28)	31.-

	UNIT	82' 10 CASE I P	83' 9 CASE II P	83' 10 CASE III P	83' December RESULT
Tax. Overhead		15%			
* LABOR					
Common building laborer	Day	25.-		55.70	31.-
Foreman	Day	70.-		120.38	76.-
Bricklayer	Day	32.-		77.52	38.-
Stonemason	Day	45.-		77.52	51.-
Structural steel worker	Day	42.-		88.30	48.-
Welder	Day	35.-		88.33	41.-
Equipment operator	Day	60.-		81.60	66.-
Rodman (reinforcing)	Day	35.-		77.52	41.-
Carpenter	Day	50.-		77.52	56.-
Rofer (composition)	Day	40.-		81.60	46.-
Rofer (tile & slate)	Day	42.-		81.60	48.-
Sheet metal worker	Day	38.-		81.60	44.-
Tileayer	Day	45.-		81.60	51.-
Plasterer	Day	40.-		77.52	46.-
Glazier	Day	50.-		81.60	56.-
Papaer hanger	Day	48.-		77.52	54.-
Painter	Day	35.-		81.60	41.-
Electrician	Day	33.-		81.60	37.-
Plumber	Day	35.-		81.60	41.-

16) 大学アグロフォレストリー校外実習計画

NUMBER OF FIELD TRIPS PER SEMESTER (PROPOSED)

SUBJECTS	PLACES VISITED	NO. OF STUDENTS	NO. OF TRIPS PER SEMESTER
<u>*FIRST SEMESTER</u>			
Introduction to Agroforestry	*Mountain State Agricultural College, La Trinidad, Benguet		
	*Pagudpod Agroforestry Project, Ilocos Norte	30	2
Silviculture	*Manila Seedling Bank		
	*Forestry Research Institute, Baguio City		
	*Mangrove Forest Research Centre, Pagbilao, Quezon	35	1
Highland Agronomy	*MSAC, La Trinidad, Benguet		
	*BFD, Pacdal Baguio City	30	1
Forest Laws and Policies	*BFD Regional Office, Dagupan City		
	*FDC UPLB, Los Baños Laguna	30	2
Crop Processing Technology II	*FORPRIDECOM, Los Baños Laguna		
	*National Housing Corp., Bulacan	30	1
Handicraft Technology II	*NACIDA, Pacdal Baguio City		
	*NACIDA, Abra Province		
	*NACIDA, Pangasinan Province	35	2
Elective II	*Parks and Wildlife Office	30	1

SUBJECTS	PLACED VISITED	NO. OF STUDENTS	NO. OF TRIPS PER SEMESTER
<u>*SECOND SEMESTER</u>			
Forest Ecology	*University of the Philippines Los Baños, Laguna *Mangrove Forest Research Centre, Pagbilao, Quezon *Forest Research Institute Baguio City	35	2
Information Technology	*San Fernando La Union *Agoo, La Union	30	4
Arboriculture	*UPLB-CF Los Banos, Laguna	30	1
Crop. Protection	*International Rice Research Institute, Laguna	30	1
Crop. Processing Technology I	*MSAC, La Trinidad, Benguet	35	1
Watershed Mgt.	*Pantabangan Dam, Nueva Ecija *WMECP, Caranglan, Nueva Ecija	30	
Handicraft Technology I	*NACIDA Offices	35	1
Social Forestry	*Rural Areas/Suburbs	35	4
Forest Management	*UPLB-CF Los Baños, Laguna	35	2
Range Management	*Bolong's Range Farm, Balaoan, La Union *Alabang Farm, Rizal Province	30	1

SUBJECTS	PLACED VISITED	NO. OF STUDENTS	NO. OF TRIPS PER SEMESTER
<u>*SUMMER</u>			
Dendrology	*Univeristy of the Philippines, College of Forestry, Los Baños, Laguna *Mangrove Forest Research Centre, Pagbilao, Quezon	35	1
Practicum	*Logging Companies in; Cagayan Province Isabela Province Benguet Province Abra Province Mindanao	35	1

17) Region I の作物

CROPS PLANTED IN THE UPLAND
OF REGION I

CASE CROPS

GARLIC
BULB ONION
SWEET POTATO
CABBAGE
PEACHAY
RADISH
AMPALAYA
CUCUMBER
PATOLA
BUSH SQUASH
UPO
WATERMELON
CORN
RICE
COWPEA
WINGED BEAN
EGGPALNT
SITAO
OKRA
IRISH POTATO
SWEET PEPPER
BLACK PEPPER
TOMATO
CASSAVA
GINGER
PINEAPPLE
TARO
PEANUT

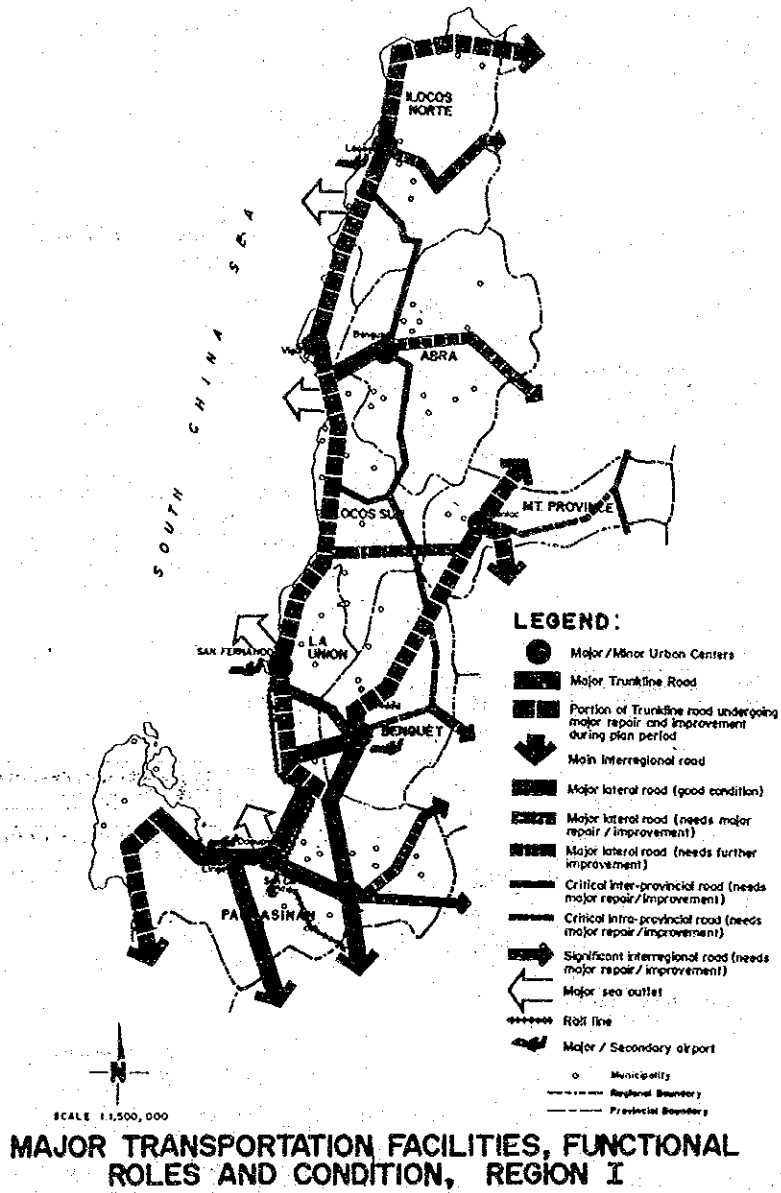
FRUIT TREES

MANGO
SANTOL
ORANGE
CALAMANSI
JACKFRUIT
GUAVA
GUYABANO
SINEGUELAS
STARAPPLE
DUHAT
TAMARIND
CASHEW

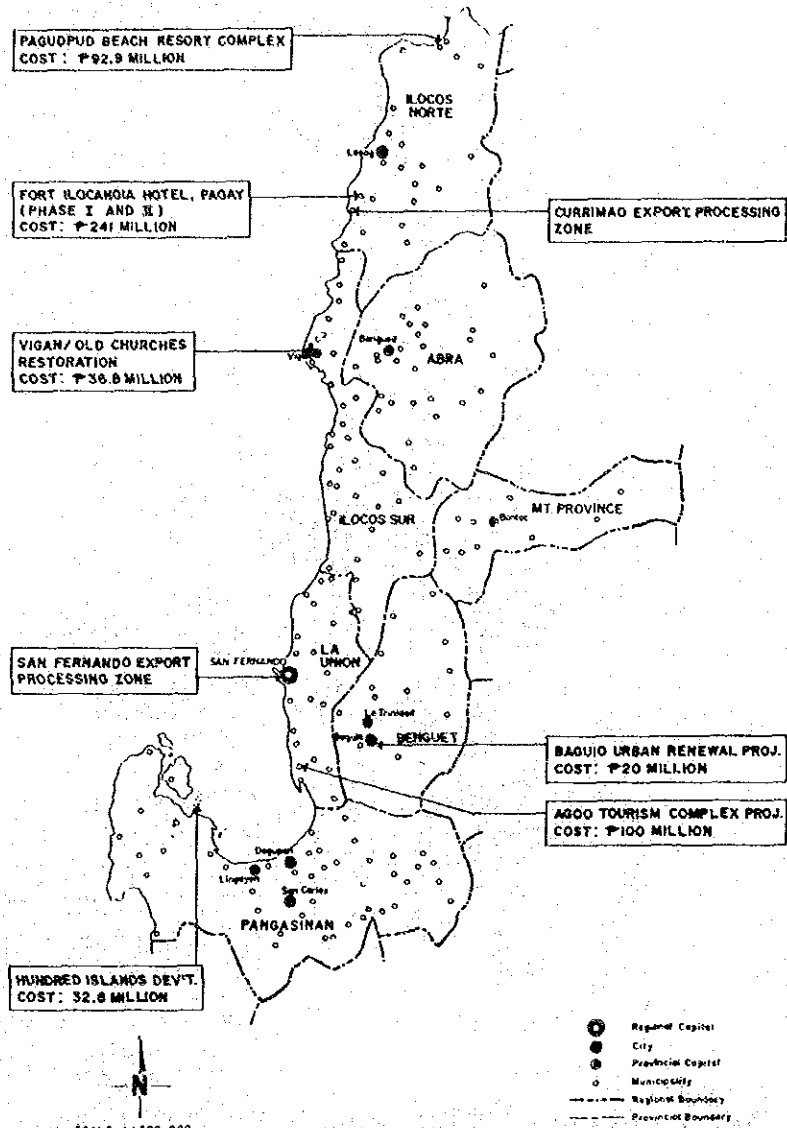
FOREST TREES

NATIVE IPIL-IPIL
GLANT IPIL-IPIL
NARRA
MOLAVE
MAHOGANY
TEAK
YEMANE
FALCATA
RAINTREE
AGOHO
TALISAY
BUCALYPUTUS
PEACNET PINE
ALNUS
BAORAS

18) Region I の交通機関の現状



19) Region I のインフラ関連計画



MAJOR INDUSTRIAL & TOURISM PROJECTS (PROPOSED, PIPELINE, ONGOING) FOR IMPLEMENTATION IN REGION I
CYs 1983 TO 1987

20) Region I の森林の現況

EXISTING REGIONAL CONDITION IN FORESTRY

Region I. Total Forest Land Area	- 12,432.99 sq. Km.
1. Commercial Forest	- 12%
2. Non-Commercial Forest	- 11%
3. Cogon or Open Bush Lands	- 16%
4. Plantation Forest	- 7%
5. Kaingin Cultivation	- 4%
6. Forest Reserves (Mossy forest, roads and trails)	- 50%

Forest Products:

1. Logs	165,050 cu. meters
2. Lumber	19,190,000 bd ft.
3. Rattan	
4. Oleoresin	
5. Bamboo	
6. Pulp wood	
7. Bamboo	
8. Bolo	
9. Nipa Shingles	
10. Anos	
11. Bikal	
12. Charcoal	
13. Firewood	
14. Plywood	
15. Veneer	
16. Poles, Piles and Posts	

Manufactures/Forest based Industries

1. Wood Carvings
2. Lumber Manufacture/Sawmills
3. Wood Furniture Making
4. Wood containers
5. Wood Fuel
6. Pulp and Paper Industries/Making
7. Mine Timber
8. Charcoal Making
9. Bakya Making
10. Handicraft Making

Total Land Area - Region I (15,684.5 sq. Km.)

FORESTRY PRODUCTION

ITEM	UNIT OF MEASURE	FY - 1982
Sawtimber	Cubic Meters	57,982.91
Pulpwood	- do -	1,652.30
Poles and Piles	- do -	52.38
Firewood	- do -	902.38
Charcoal	- do -	198.28
End Trimmings	- do -	-
Round Logs	- do -	-
Plywood	Board Feet	-
Lumber	- do -	33,609.09
Bamboo	Pieces	66,250.00
Buho	- do -	22,910.00
Bikal	- do -	-
Ligtang	- do -	-
Nipa Shingles	- do -	500.00
Palmagrava	- do -	10,668.00
Anoc	- do -	-
Rattan	- do -	15,245.00

EFFECTIVE DEMAND: PROJECTED (MT)

(a)

COMMODITY	ANNUAL PER CAPITA	1983
A. CEREALS		
1. Rice	.1338	498,536.79
2. Corn	.004	14,903.94
B. VEGETABLES	.0591	220,205.71
1. Leafy/yello	.015	55,889.78
2. Fruit vegetables	.0245	91,286.63
3. Leguminous	.0072	26,827.09
4. Roots, Bulbs Itubers	.0124	46,202.21
C. FRESH FRUITS	.0226	84,207.26
D. CASHCROPS		
1. Tobacco		
2. Cotton	400,000.02	-
3. Sugar	.0103	38,377.64
4. Garlic	-	-
E. POULITRY/LIVESTROCK		
1. Pork Meta	.008	29,987.88
2. Beef/Carabeef	.0028	10,432.76
3. Poultry Meat	.0029	10,805.36
4. Goat (Chevron)	-	-
5. Eggs	.0033	12,295.75
F. FISH/SEAFOODS	.0194	72,284.11

- Sources: 1. Regional Consumption Patterns for major foods
(Except as indicated by E.F. iviguetero, et al.)
2. As per rated capacity of textiles mills
(400,000 MT of lint)
3. (a) Multiplied by projected population

AGRICULTURAL PRODUCTS - 1982/83

Play irrigated - 431,739 MT Area Planted (AR) 161,700 Ha
2.67 MT/Ha

Unirrigated - 363,381.6 MT 197,490 Ha
1.84 MT/Ha

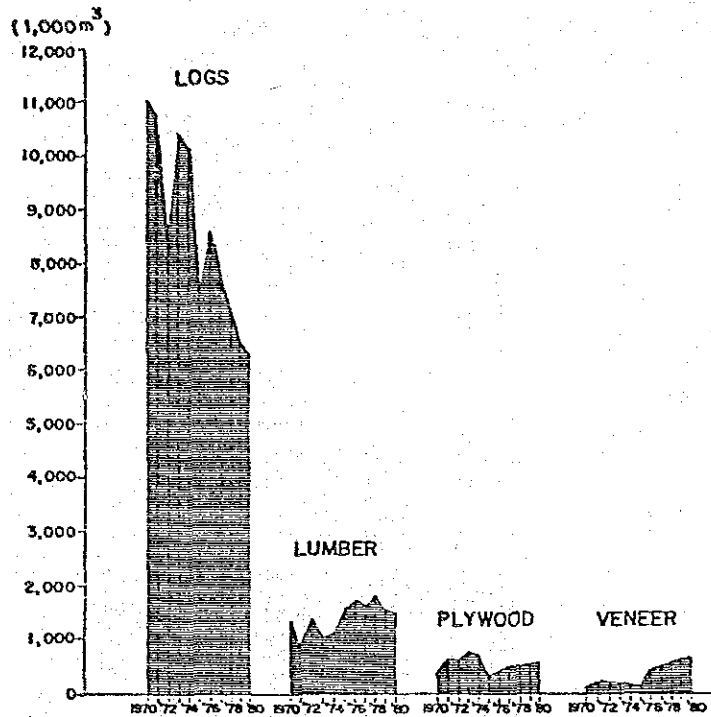
Corn - 51,410 MT Area Planted (AR) 61,850 Ha
0.83 MT/Ha

Fruits and Nuts	- 308,334 MT	AP - 28,220 Ha
Citrus	- 5,622 MT	AP - 2,200 Ha
Root Crops	- 114,398 MT	AP - 15,430 Ha
Vegetables	- 114,398 MT	AP - 18,440 Ha
Onions	- 14,375 MT	AP - 1,560 Ha
Ginger	- 858 MT	AP - 180 Ha
Irish Potatos	- 31,544 MT	AP - 2,940 Ha
Beans & Peas	- 15,710 MT	AP - 15,080 Ha

21) フィリピン 関連統計資料 (出典 NEDA)

a) 林産物の生産

Figure 4.3
QUANTITY OF PRODUCTION OF LOGS, LUMBER, PLYWOOD
AND VENEER: 1970 TO 1980



b) 輸出品物の推移

Table 7.3 - PHILIPPINE EXPORTS BY MAJOR COMMODITY
GROUPS: 1955, 1960, 1965, 1970 TO 3rd QUARTER 1981.
(F.O.B. value in million U.S. dollars)

Major commodity group	1973	1974	1975	1976	1977	1978	1979	1980	1981 ¹
Total	1,837	2,725	2,294	2,574	3,151	3,425	4,601	5,783	4,362
Cocconut products	374	609	466	540	761	908	1,024	811	577
Copra	166	140	172	150	201	136	89	47	19
Copra oil	153	381	231	299	412	621	742	567	418
Desiccated coconut	32	60	30	37	90	82	107	116	78
Copra meal or cake	23	28	33	54	58	69	86	81	62
Sugar and sugar products	294	766	616	456	535	216	240	657	514
Centrifugal and refined sugar	274	737	581	429	512	197	212	624	480
Molasses	19	28	34	24	20	16	27	33	31
Others	1	1	1	3	3	3	1	-	3
Forest products	444	338	260	308	294	352	536	468	306
Logs	304	216	167	135	134	145	144	92	62
Lumber	35	30	27	68	67	85	196	181	95
Plywood	58	26	21	43	41	72	107	111	80
Others	47	66	45	62	52	60	87	84	69
Mineral products	374	518	332	371	501	554	831	1,031	575
Copper concentrates	290	393	212	266	268	250	440	545	325
Gold	40	74	76	65	71	76	103	239	165
Iron ore and concentrates	18	12	13	7	-	-	-	-	-
Chromite ore	9	13	13	15	25	25	23	33	20
Others	17	26	18	18	137	203	265	214	65
Fruits and vegetables	57	91	124	142	157	177	214	365	289
Pineapple products	23	35	41	52	64	74	96	97	77
Bananas	28	45	73	76	72	86	100	114	92
Others	6	11	10	14	21	17	18	154	120
Abaca and products	24	46	22	27	25	25	39	31	18
Abaca unmanufactured	20	38	15	18	18	15	25	27	16
Abaca rope	4	8	7	9	11	10	13	4	2
Tobacco and products	27	31	35	29	29	30	33	30	41
Raw tobacco	26	30	34	28	28	29	32	29	15
Gins and others	1	1	1	1	1	1	1	1	26
Mineral fuel and lubricants	16	17	37	34	37	30	42	38	78
Chemicals	10	15	21	26	51	59	112	89	79
Textiles	24	20	22	28	21	31	39	33	20
Miscellaneous manufactures and Others	181	771	357	589	722	1,011	1,463	2,198	1,859
Re-exports	2	3	2	24	14	22	29	37	6

¹January - September 1981.
Source: National Census and Statistics Office.

c) 土地利用区分

Table 4.7 - STATUS OF LAND CLASSIFICATION BY PROVINCE
AS OF DECEMBER 31, 1980

Region/province	Classified area				Unclassified area		Area of region/province
	Alienable and disposable		Timberland		Area	Percent	
	Area	Percent	Area	Percent			
Philippines	13,269,340	45.70	8,743,790	30.11	7,025,490	24.19	29,038,620
National Capital Region	1,146,431	56.61	388,206	19.17	490,394	24.22	2,025,031
Batangas	209,862	66.38	15,147	4.80	91,036	28.82	315,845
Cavite	71,970	57.14	0	0.00	53,986	42.86	125,956
Laguna	86,461	52.03	4,740	2.85	74,970	45.12	166,171
Metro-Manila	3,828	100.00	0	0.00	0	0.00	3,828
Marinduque	73,720	76.85	18,310	19.09	3,895	4.06	95,925
Quezon	582,198	50.33	308,100	26.63	266,507	23.04	1,156,805
Rizal	118,592	73.89	41,909	26.11	0	0.00	160,501
Region 1	913,546	43.89	665,703	31.98	502,191	24.13	2,081,440
Abra	93,926	23.63	269,921	67.90	33,651	8.47	397,498
Benguet	36,386	18.56	23,784	12.13	135,865	69.31	196,035
Bontoc	20,915	10.07	75,366	36.30	111,351	53.63	207,632
Ilocos Norte	144,870	42.84	190,412	56.30	2,908	0.86	338,190
Ilocos Sur	120,500	47.01	37,400	14.59	98,438	38.40	256,338
La Union	95,528	63.98	17,750	11.89	36,031	24.13	149,309
Pangasinan	401,421	74.83	61,070	9.52	83,947	15.65	536,438
Region 2	1,017,451	29.37	1,239,720	35.78	1,207,337	34.85	3,464,508
Batanes	5,576	26.64	13,954	66.68	1,398	6.69	20,928
Cagayan	328,979	36.55	253,722	23.19	317,374	35.26	900,075
Iligan	25,203	10.01	90,440	35.93	136,093	54.06	251,736
Isabela	455,400	47.90	299,521	31.50	195,867	20.60	950,788
Kalinga Apayao	72,810	10.33	272,131	38.61	359,823	51.06	704,764
Nueva Viscaya	129,483	20.35	309,952	48.72	196,782	30.93	636,217
Quirino	0	0.00	0	0.00	0	0.00	0
Region 3	1,030,380	63.67	343,930	21.25	244,059	15.08	1,618,369
Bataan	69,325	60.79	44,713	39.21	0	0.00	114,038
Bulacan	176,393	85.76	26,636	12.95	2,644	1.29	205,673
Nueva Ecija	330,864	71.90	94,772	20.59	34,538	7.51	460,174
Pampanga	160,338	71.50	31,882	15.41	14,878	7.09	206,898
Tarlac	181,607	67.57	6,037	2.25	81,111	30.18	268,755
Zambales	111,853	30.83	139,890	38.56	111,088	30.61	362,831
Aurora	0	0	0	0.00	0	0.00	0
Region 4	815,837	33.38	809,764	33.14	818,239	33.48	2,443,840
Mindoro Occidental	154,085	33.92	258,139	56.82	42,086	9.26	454,310
Mindoro Oriental	222,433	51.19	212,073	48.81	0	0.00	434,506
Romblon	99,962	73.72	7,185	5.30	28,446	20.98	135,593
Palawan	339,357	23.91	332,367	23.42	747,707	52.67	1,419,431
Region 5	1,211,194	69.67	443,567	25.52	83,630	4.81	1,738,391
Albay	206,139	82.54	42,329	16.95	1,283	0.51	249,751
Camarines Norte	133,831	64.21	39,945	19.15	34,664	16.63	208,440
Camarines Sur	361,659	70.39	140,598	27.36	11,556	2.25	513,812
Catanduanes	73,090	48.36	69,324	45.86	8,734	5.78	151,148
Masbate	263,152	65.01	130,508	32.24	11,109	2.75	404,769
Sorsogon	178,323	82.35	20,863	9.91	16,285	7.74	215,471

Source: Bureau of Forest Development.

d) 年間造林面積の実績

Table 4.10 - AREA REFORESTED ANNUALLY: 1976-1980
(In hectares)

Year	Total	Established area ¹	Newly planted area					
			Government sector			Private Sector		
			Total	BFD	Other agencies	Total	Timber licenses	Civic program
1976	228,537	196,804	23,228	20,977	2,251	8,505	8,275	230
1977	271,037	217,781	33,358	23,677	9,681	19,898	17,276	2,622
1978	319,883	241,458	44,686	34,343	10,343	33,739	22,006	11,733
1979	355,198	275,801	51,858	35,305	16,553	27,539	19,580	7,959
1980	369,273	308,757	39,881	32,956	6,925	20,635	15,054	5,581

¹Area established by Bureau of Forest Development.
Source: Bureau of Forest Development.

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