

フィリピン共和国

フィリピン人造りセンター計画

建設事情資料集

昭和58年2月

国際協力事業団

118
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国際協力事業団

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第一章 建設事情資料集

1-1 建設資材単価

現地における建設資材単価は、程度・仕様によってかなりのバラツキがあるが、以下に主要資材の標準的単価を示す。

尚、下記の単価には総合請負業者の経費と利益は含まれていない。

1.	掘削（機械）（残土処分別）	m ²	P	50
2.	埋戻（手間のみ）	m ²	P	20
3.	割栗石厚 150mm（材工）	m ²	P	20
4.	無筋コンクリート（140kg/cm ³ ）（材工）	m ³	P	650
5.	鉄筋コンクリート（210kg/cm ³ ）（材工）	m ³	P	760
6.	型枠（材工，組み払い共）	m ²	P	75
7.	普通丸鋼	ton	P	3,500
8.	鉄筋加工組立（結束線・スペーサー共）	ton	P	400
9.	ポルトランドセメント（40kg/袋）	袋	P	31
10.	川砂	m ³	P	55
11.	砕石	m ³	P	100
12.	空洞コンクリートブロック厚 150	個	P	5
13.	アスファルト防水（材工）	m ²	P	100
14.	瓦葺（材工）（下地別）	m ²	P	400
15.	角波長尺カラー鉄板葺（材工）（下地別）	m ²	P	90
16.	外壁アドベ小叩（材工）	m ²	P	100
17.	床大理石厚 19mm（国産）（材工）	m ²	P	280
18.	床アスベストタイル（材工）	m ²	P	55
19.	壁モルタル金ゴテ（材工）	m ²	P	35
20.	壁半磁器タイル 100mm×100mm（材工）	m ²	P	130
21.	合板厚 6mm 1,219×2,438	枚	P	40
22.	化粧合板厚 6mm 1,219×2,438	枚	P	40
23.	石骨ボード 12mm 1,219×2,438	枚	P	80
24.	樹脂系ペイント（材工）	m ²	P	30
25.	片開き木製扉（枠共）（材工） 80cm×210cm	か所	P	1,100
26.	片開き鋼製扉（材工） 80cm×210cm	か所	P	1,500
27.	透明ガラス厚 5mm（材工）	m ²	P	230
28.	フリーアクセスフローアー（材工）（仕上別）	m ²	P	1,300

1-2 労務費

各工事の平均的な労務費を示す。

1. 一般人夫	P	25/日
2. 親方	P	70/日
3. ブロック工	P	32/日
4. 石工	P	45/日
5. 鉄骨工	P	42/日
6. 溶接工	P	35/日
7. 重機オペレーター	P	60/日
8. 鉄筋工	P	35/日
9. 木工	P	50/日
10. 防水工	P	40/日
11. 屋根工	P	42/日
12. 板金工	P	38/日
13. タイル工	P	45/日
14. 左官工	P	40/日
15. 内装工	P	50/日
16. ガラス工	P	50/日
17. 塗装工	P	35/日
18. 電気工	P	33/日
19. 配管工	P	35/日

注. 1 1日8時間労働とする。

2 最低賃金はP 18/日である。

1-3 輸 送 費

日本からマニラ港までの所要日数は約10日である。

建設資料及び機械の輸送費は品物によって違いがあるが概ね下記の通りである。

但し、梱包費は含まない。

1. 機械類及び部品	US \$	47	(ton or m ³)
2. 電気製品	US \$	42~55	(ton or m ³)
3. 自動車及び部品	US \$	32	(ton or m ³)
4. 建設機械及び部品	US \$	33	(ton or m ³)
5. 電子製品	US \$	85	(ton or m ³)

国内輸送費は生コンの場合5km以上1km毎にP 2.50/m³加算する。

一般輸送費はトラックの積載量、輸送距離によって違いがあるが30kmぐらい(マニラ近郊)の輸送費P 150/ton前後、また、250kmぐらい(マニラ→ダグバン)ではP 400/ton前後であると考えられる。

1-4 エネルギーコスト

1. ガソリン		P	5.20/ℓ
2. 軽油		P	3.20/ℓ
3. 電気料金	基本料金	P	12.6 /kWM
	基本燃料料金	P	0.2895/kWY
	従量料金	P	2.4 /kWH
4. プロパンガス		P	1.2 /kg

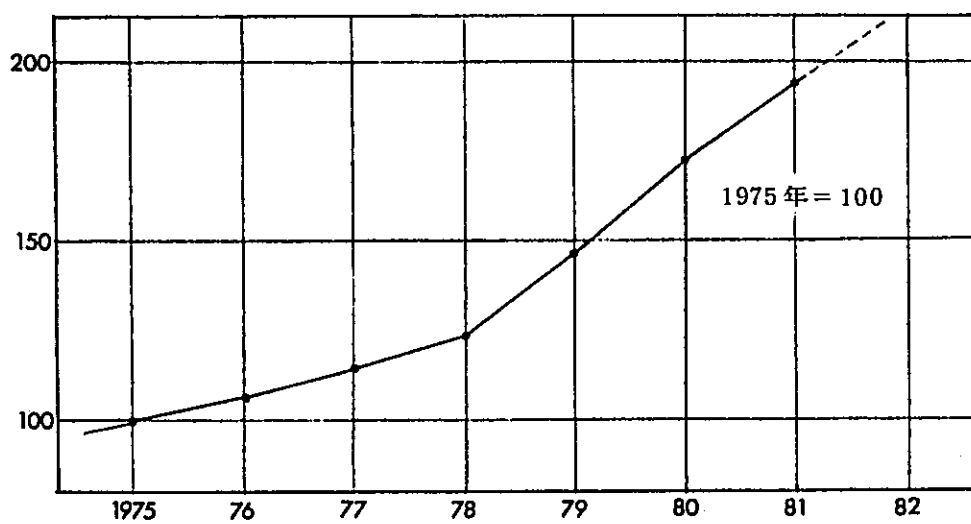
1-5 建設工事費

メトロマニラに於ける現地業者による平均的な建設工事費は、特殊基礎工事及び冷房設備工事を除いて、事務所建築でP 3000/m²前後といわれる。

これに建設予定地の特殊な条件、年10%以上といわれるインフレ率、冷房設備、エレベーター使用の場合は、エレベーター設備等の特殊設備、工期確保、高度な技術の要求等の諸条件の考慮が必要である。

1-6 消費者物価指数

消費者物価指数を下記のグラフに示す。



消費者物価指数

81年度の上昇率は12.4%といわれており、少なくとも年10%程度の上昇率を考慮する必要がある。

第三章 統計資料集

SUMMARY OF MAJOR STATISTICAL SERIES (continued)

Statistical series	Latest data		Compared to		Percent change
	Reference period	Value	Reference period	Value	
7. Loans outstanding of government and private non-bank financial institutions classified by purpose (million ₪)	June 1981	15,438.2	June 1980	11,705.6	31.9
In percent		100.0		100.0	
Government		88.4		86.8	
Agricultural		2.4		3.1	
Industrial		5.5		4.7	
Commercial		0.0		0.0	
Public utility		2.1		2.0	
Real estate		28.1		35.2	
Consumption		16.1		17.2	
Others		34.2		24.6	
Private		11.6		13.2	
Agricultural		0.4		0.7	
Industrial		7.2		7.9	
Commercial		0.3		0.3	
Public utility		0.8		0.9	
Real estate		0.8		0.9	
Consumption		1.6		1.7	
Others		0.5		0.8	
8. Total assets and liabilities of the Central Bank (million ₪)	Aug. 1981	68,134.2	Aug. 1980	56,381.4	20.8
Total assets		67,473.0		55,165.0	22.3
Total liabilities					
9. Total assets and liabilities of commercial banks (million ₪)	Aug. 1981	154,568.9	Aug. 1980	121,898.9	26.8
Total assets		141,614.6		111,740.9	26.7
Total liabilities					
10. Total assets and liabilities of development banks (million ₪)	Aug. 1981	33,959.1	Aug. 1980	26,913.4	26.2
Total assets		28,478.1		22,322.1	27.6
Total liabilities					

SUMMARY OF MAJOR STATISTICAL SERIES (continued)

Statistical series	Latest data		Compared to		Percent change
	Reference period	Value	Reference period	Value	
4. Internal debt outstanding by period of maturity (million ₪)	3rd Quarter 1981	46,306.5	3rd Quarter 1980	38,941.6	18.9
Long term		15,625.5		13,552.7	15.3
Medium term		18,087.4		15,707.5	15.2
Short term		12,593.6		9,681.4	33.8
5. External debt outstanding (disbursement basis) by maturity (million \$)	1980	12,700.5	1979	9,778.3	29.9
Public sector		5,931.1		4,467.0	32.8
Private sector		6,769.4		5,311.3	27.5
6. Total fixed term credit (disbursement basis) by maturity (million \$)	1980	9,709.6	1979	8,114.9	19.7
In percent		100.0		100.0	
Short term		0.7		2.4	
Medium term		7.5		5.4	
Long term		91.8		92.2	
Chapter 17. Money and Banking					
1. Money supply (million ₪)	Sept. 1981	20,336.7	Sept. 1980	19,606.1	3.7
2. Net foreign assets (million ₪)	Sept. 1981	(10,543.1)	Sept. 1980	(6,764.0)	(55.9)
3. Net domestic credits (million ₪)	Sept. 1981	103,026.1	Sept. 1980	88,934.9	15.8
4. Net non-money supply deposits (million ₪)	Sept. 1981	54,712.9	Sept. 1980	44,832.2	22.0
5. Net other accounts (million ₪)	Sept. 1981	17,433.4	Sept. 1980	17,732.6	(1.7)
6. Loans and investment outstanding (million ₪)	June 1981	157,685.7	June 1980	134,566.2	17.2
In percent		100.0		100.0	
Commercial banks		67.1		69.0	
Rural banks		3.3		3.4	
Development banks		17.6		15.5	
Savings banks		2.2		3.4	
Private non-bank financial institutions		1.1		1.1	
Government non-bank financial institutions		8.7		7.5	

SUMMARY OF MAJOR STATISTICAL SERIES (continued)

Statistical series	Latest data		Compared to		Percent change
	Reference period	Value	Reference period	Value	
Secondary Government		5,144		5,129	0.3
Private		3,112		3,134	(0.7)
Tertiary Government		2,032		1,995	1.9
Private		1,098		947	15.9
Enrollment in government and private schools (in thousands)		2,298		333	(10.5)
Elementary Government		800		614	30.3
Private					
2. Enrollment in government and private schools (in thousands)					
Elementary Government	SY 1979-80	8,227.4	SY 1977-78	8,178.6	0.6
Private		7,817.4		7,723.7	1.2
Secondary Government		409.9		454.9	(9.9)
Private		2,766.9		2,820.5	(1.9)
Government		1,490.0		1,370.1	8.8
Private		1,276.9		1,450.3	(12.0)
Chapter 11. Labor and Employment					
1. Total labor force (1,000 persons)	4th quarter 1978	17,363	4th quarter 1977	14,994	15.8
Employed		16,668		14,323	16.4
Unemployed		695		671	3.6
2. Labor force participation rate (percent)	4th quarter 1979	63.9	4th quarter 1977	57.6	
Philippines		57.9		53.8	
Urban		67.2		59.6	
Rural					
3. Filipino workers sent overseas during the year by major occupational group	1980	156,018	1979	92,519	68.6
Professional, technical and related workers		12,183		9,698	25.6
Managerial, executive, administrative workers		1,410		1,436	(1.8)
Clerical workers		5,223		2,895	80.4
Sales workers		534		266	100.8
Service workers		41,952		22,376	87.5
Agricultural, animal husbandry, forestry workers and fishermen		1,581		186	750.0
Production process workers, transport equipment operators and laborers		93,135		55,662	67.3

SUMMARY OF MAJOR STATISTICAL SERIES (continued)

Statistical series	Latest data		Compared to		Percent change
	Reference period	Value	Reference period	Value	
Chapter 12. Housing					
1. SSS: real estate housing loans (million ₱)	1980	1,593.0	1979	1,414.4	12.6
Chapter 13. Social Services					
1. Benefits paid by the Government Service Insurance System (million ₱)	1980	776.8	1979	692.1	12.2
2. Benefits paid by the Social Security System (million ₱)	1980	426.8	1979	343.3	24.3
Part IV. Infrastructure Statistics					
Chapter 14. Transportation and Communication					
1. Rail transport					
Passengers (1,000 persons)	1980	7,423.4	1979	8,531.6	(13.0)
Freight tonnes (1,000 MT)		141.9		145.0	(2.1)
Express tonnes (1,000 MT)		24.8		34.2	(27.5)
2. Domestic air transport (1,000 km)	1980	1,100,653	1979	1,291,497	(14.8)
Revenue passenger kilometres		1,291,497		1,825,136	(29.2)
Available seat kilometres					
3. Flights and passengers carried by international carriers	1981		1980		
Passengers carried, total		2,813,171		2,667,303	5.5
Incoming		1,308,276		1,238,383	5.6
Outgoing		1,439,931		1,381,828	4.2
In-transit		64,964		47,092	38.0
Flights, total		19,991		19,754	1.2
4. Total number of motor vehicles	1980	1,111,433	1979	1,069,139	4.0
Private passenger vehicles		424,358		447,232	(5.1)
Public utility vehicles		116,161		56,830	104.4
Service vehicles		282,957		280,897	0.7
Government owned cars and trucks		17,162		24,664	(30.4)
Trailers		15,668		19,570	(19.9)
Motorcycles		236,472		224,853	5.2
Others		19,655		15,093	23.6

SUMMARY OF MAJOR STATISTICAL SERIES (continued)

Statistical series	Latest data		Compared to		Percent change
	Reference period	Value	Reference period	Value	
5. Kilometres of road	1980	68,556	1979	65,358	4.9
National government		23,660		22,912	3.3
Local government		44,896		42,446	5.8
6. Number of bridges	FY 1974-75	13,831	FY 1973-74	13,674	1.1
National government		6,850		6,774	1.1
Local government		6,981		6,900	1.2
7. Length of bridges (linear metres)	FY 1974-75	289,298	FY 1973-74	286,537	1.0
National government		176,719		175,095	0.9
Local government		112,579		111,442	1.0
8. Coastwise shipping movements at 26 major ports	1980		1979		
Number of vessels entered		76,410		80,913	(5.6)
Number of vessels cleared		76,388		81,584	(6.4)
9. International shipping movements at Port of Manila	1980		1979		
Number of vessels entered		2,682		2,857	(6.1)
Number of vessels cleared		2,658		2,845	(6.6)
10. Number of licensed radio stations	1981	23,670	1980	20,022	18.2
11. Volume of mail handled (1,000 pieces)	1980	1,030,324	1979	950,160	8.5
Surface mail		771,131		710,720	8.5
Airmail		259,793		239,440	8.5
Chapter 15. Energy and Water Resources					
1. Electric energy (million kWh)	1980	15,105.2	1979	13,759.0	9.8
Production		13,164.9		12,060.2	9.2
Consumption					

SUMMARY OF MAJOR STATISTICAL SERIES (continued)

Statistical series	Latest data		Compared to		Percent change
	Reference period	Value	Reference period	Value	
Part V. Financial Statistics					
Chapter 16. Public Finance					
1. Holdings on government securities (million ₱) by holders	2nd Quarter 1981	36,723	2nd Quarter 1980	34,207	7.4
In percent		100.0		100.0	
Central Bank		19.3		18.7	
Commercial and other banks		35.8		32.9	
Trust funds		12.1		9.5	
Semi-government entities		21.3		23.1	
Private sector		10.8		14.4	
Foreign holders		0.7		1.4	
2. National government expenditures (million ₱)	1981	59,945	1980	42,000	30.8
In percent		100.0		100.0	
Economic services		46.3		47.5	
Education		10.3		11.6	
Housing, population and public health		8.0		6.8	
Social welfare and other community services		1.6		1.8	
National defense		9.7		10.7	
General public services		24.0		21.6	
3. Internal debt outstanding by level of government (million ₱)	3rd quarter 1981	46,306.5	3rd quarter 1981	38,941.6	18.9
National government		25,711.1		19,997.2	28.6
Local government		335.9		289.3	16.1
Government corporations		6,204.8		4,707.6	31.8
Monetary institutions		14,054.7		13,947.5	0.8

SUMMARY OF MAJOR STATISTICAL SERIES (continued)

Statistical series	Latest data		Compared to		Percent change
	Reference period	Value	Reference period	Value	
Coconut oil	1980	566.8	1979	742.5	(23.7)
Pineapples, canned		82.1		73.8	11.2
Gold		239.1		103.3	131.5
Albica (unmanufactured)		27.0		25.4	6.3
Copper concentrates		545.0		440.4	23.8
Other exports		3,295.5		2,368.8	39.1
3. Imports by end use (million \$)	1980	7,726.9	1979	6,142.7	25.8
Consumer goods		1,425.9		1,067.4	33.6
Capital goods		1,986.4		1,784.9	11.3
Raw materials and intermediate goods		4,314.8		3,289.3	31.2
4. Exports of non-traditional manufactures (million \$)	1980	2,106.9	1979	1,519.5	38.7
5. Balances of payments					
Overall surplus (deficit) (million \$)	1980	(381)	1979	(570)	49.6
Chapter 8. Tourism					
1. Number of visitors	1980	1,008,159	1979	966,873	4.3
2. Estimated tourist receipts (thousand \$)	1980	319,740	1979	240,600	32.9
Part III. Social Statistics					
Chapter 9. Vital, Health and Nutrition Statistics					
1. Crude birth and death rates (per 1,000 population)	1978		1977		
Birth rate		30.5		30.2	
Death rate		6.5		7.0	
2. Number of registered marriages	1978	340,108	1977	324,465	4.8

SUMMARY OF MAJOR STATISTICAL SERIES (continued)

Statistical series	Latest data		Compared to		Percent change
	Reference period	Value	Reference period	Value	
3. Daily per capita available food supply (grams/day)	1976	1,115.8	1975	1,094.3	2.0
Cereals and cereal products		360.4		371.8	(3.1)
Roots and tubers		102.4		96.8	5.8
Sugar and syrup		71.8		56.2	27.8
Pulses and nuts		12.8		15.2	(18.8)
Vegetables		76.4		79.2	(3.5)
Fruits		210.4		201.4	4.5
Meat products		54.6		64.0	(14.7)
Milk and milk products		40.2		37.8	26.4
Eggs		9.1		9.4	(3.2)
Fish and other marine products		124.9		125.7	(0.6)
Fats and oil		13.9		11.6	19.8
Miscellaneous food		38.9		31.2	24.7
4. Calories and nutrient values of available food supply (daily per capita)	1976		1975		
Calorie (number)		2,328		2,290	1.7
Protein (grams)		66.8		69.5	(3.9)
Fats (grams)		35.0		33.5	4.5
5. Bed capacity of government and private hospitals	1980		1979		
Government		31,850		31,050	2.6
Private		38,279		39,841	(3.9)
6. Number of hospitals	1980		1979		
Government		1,406		1,410	(0.3)
Private		345		335	3.0
		1,061		1,075	(1.3)
Chapter 10. Education					
1. Number of government and private schools	SY 1979-80		SY 1978-79		
Elementary		31,494		31,519	(0.1)
Government		30,311		30,221	0.3
Private		1,183		1,298	(8.9)

SUMMARY OF MAJOR STATISTICAL SERIES (continued)

Statistical series	Latest data		Compared to		Percent change
	Reference period	Value	Reference period	Value	
3. Amount of foreign investments approved by the BOI under R.A. 5455 (million ₱)	1980	570.7	1979	143.9	296.6
Agro-based sector		323.6		19.2	1,585.4
Mining and mineral processing sector		7.0		7.9	(11.4)
Metal-based sector		72.8		34.4	110.2
Chemical-based sector		96.0		42.0	128.6
Other sectors		71.3		40.4	76.5
4. Value of manufacturing output (million ₱)	1977	67,826	1974	47,552	42.6
Food		17,623		14,516	21.4
Beverages		3,925		1,762	122.8
Tobacco		3,190		2,149	48.4
Textiles		5,154		3,490	47.7
Footwear and wearing apparel		1,406		431	225.5
Wood and cork		1,742		1,281	36.0
Furniture and fixtures		410		194	111.3
Paper		2,498		1,578	58.3
Printing		1,003		667	50.4
Leather		94		60	56.7
Rubber		969		806	20.2
Chemicals		6,455		4,669	38.3
Petroleum and coal		8,274		6,315	31.0
Non-metallic mineral products		3,567		1,657	115.3
Basic metal		2,748		2,276	20.7
Metal products		1,998		1,290	54.9
Machinery except electrical		643		628	2.4
Electrical machinery		2,477		1,215	103.9
Transport equipment		3,386		1,878	80.3
Miscellaneous		264		690	(61.7)
5. Value of mining production (million ₱)	1981	8,499.9	1980	12,200.5	(30.3)
Precious metals		2,144.8		3,053.1	(29.8)
Base metals		3,861.6		6,104.6	(36.7)
Non-metals		2,493.5		3,042.8	(18.1)

SUMMARY OF MAJOR STATISTICAL SERIES (continued)

Statistical series	Latest data		Compared to		Percent change
	Reference period	Value	Reference period	Value	
6. Value of private building construction (million ₱)	1980	5,734.2	1979	5,234.9	9.5
National Capital Region (Metro Manila)		3,007.1		2,906.9	3.4
Rest of the regions		2,727.1		2,328.0	17.1
Residential buildings		2,339.1		2,107.2	10.5
National Capital Region (Metro Manila)		1,250.2		1,185.7	7.2
Rest of the regions		1,088.9		941.5	15.7
Non-residential buildings		2,802.8		2,582.0	8.6
National Capital Region (Metro Manila)		1,395.0		1,431.3	(2.5)
Rest of the regions		1,407.8		1,150.7	22.3
Additions/alterations		592.3		545.7	8.5
National Capital Region (Metro Manila)		362.0		310.0	16.8
Rest of the regions		230.3		235.7	(2.3)
Chapter 7. Foreign Trade: Balance of Payments					
1. Direction of external trade (million \$)	1980		1979		
Exports		5,787.8		4,601.2	25.8
Imports		7,726.9		6,141.7	25.8
Balance of trade (all countries)		(1,939.1)		(1,540.5)	(25.9)
2. Total exports (million \$)	1980	5,787.8	1979	4,601.2	25.8
Ten principal exports		2,492.3		2,232.4	11.6
Copra		47.3		89.1	(46.9)
Sugar		481.7		211.6	127.6
Banana		114.2		96.7	18.1
Logs and lumber		273.2		342.8	(25.5)
Desiccated coconut		116.0		107.0	8.4

SUMMARY OF MAJOR STATISTICAL SERIES (continued)

Statistical series	Latest data		Compared to		Percent change
	Reference period	Value	Reference period	Value	
2. Value of production of agricultural crops (million ₱)	Crop Year 1980	37,529.4	Crop year 1979	33,758.3	11.2
Food Crops		23,133.4		20,581.0	12.4
Palay		8,030.8		6,925.2	16.0
Corn		3,091.1		2,934.7	5.3
Rootcrops		1,896.8		1,562.9	21.4
Fruits and vegetables		9,469.4		8,410.6	12.6
Other food crops		645.2		747.6	(13.7)
Commercial crops		14,396.0		13,177.3	9.2
Coconut		9,263.7		8,524.9	8.7
Sugarcane		4,226.7		3,762.5	12.3
Abaca and other crops		469.7		359.6	30.6
Tobacco		195.7		340.3	(42.5)
Rubber		240.2		190.1	25.4
3. Number of registered Samahang Nayons	1980	18,343	1979	18,263	0.4
4. Membership of registered Samahang Nayons	1980	940,594	1979	936,798	0.4
Chapter 6. Establishment Characteristics: Industrial Sectors					
1. Number of newly registered corporations and partnerships	1980	5,999	1979	6,364	(5.7)
Corporations		4,964		5,330	(6.9)
Partnerships		1,035		1,034	0.1
2. Capital increases and withdrawals of corporations and partnerships (million ₱)	1980		1979		
Increases		3,776.4		2,375.9	58.9
Withdrawals		35.0		141.0	(75.2)
Net effect		3,741.4		2,234.9	66.2

SUMMARY OF MAJOR STATISTICAL SERIES (continued)

Statistical series	Latest data		Compared to		Percent change
	Reference period	Value	Reference period	Value	
2. Fish production (1,000 MT)	1980	1,672.2	1979	1,581.3	5.7
Commercial fishing		488.5		500.7	(2.4)
Fishponds		136.0		133.6	1.8
Municipal fisheries and sustenance fishing		1,047.8		947.0	10.6
3. Value of fish production (million ₱)	1980	11,644.4	1979	10,536.7	10.5
Commercial fishing		3,784.7		3,512.2	7.8
Fishponds		1,386.7		1,202.4	15.3
Municipal fisheries and sustenance fishing		6,472.9		5,822.1	11.2
4. Production of logs, lumber, plywood and veneer (1,000 m ³)	1980		1979		
Logs		6,352		6,578	(3.4)
Lumber		1,529		1,626	(6.0)
Plywood		553		503	9.9
Veneer		650		634	4.1
Chapter 5. Agriculture					
1. Production of agricultural crops (1,000 MT)	Crop Year 1980	29,554.8	Crop Year 1979	28,597.7	3.3
Food Crops		21,584.5		20,835.8	3.6
Palay		7,504.4		7,197.6	4.3
Corn		3,176.2		3,167.4	0.3
Rootcrops		3,469.6		3,568.8	(2.8)
Fruits and vegetables		7,047.3		6,554.4	7.5
Other food crops		387.0		347.6	11.3
Commercial Crops		7,970.3		7,761.8	2.7
Coconut		4,570.0		4,295.4	6.4
Sugarcane		3,120.8		3,198.9	(2.4)
Abaca and other crops		173.0		157.3	10.0
Tobacco		38.7		51.3	(24.6)
Rubber		67.8		58.8	15.3

SUMMARY OF MAJOR STATISTICAL SERIES (continued)

Statistical series	Latest data		Compared to		Percent change
	Reference period	Value	Reference period	Value	

3. Expenditures on gross domestic product at 1972 prices (million ₱)	1981	97,256	1980	92,792	4.8
Personal consumption expenditures		62,066		59,270	4.7
General government expenditures		8,768		8,374	4.7
Gross domestic capital formation		27,252		25,626	2.4
Construction		11,321		10,831	4.5
Durable equipment		12,253		11,923	2.8
Increase in stocks		3,678		3,872	(5.0)
Exports		17,136		17,740	(3.4)
(Less) Imports		18,753		19,968	(6.1)
Statistical discrepancy		787		750	4.9

4. Per capita national income (pesos)	1981	5,037	1980	4,349	15.8
At current prices		1,575		1,534	2.7
At 1972 prices					

5. Per capita private (personal) consumption expenditure (pesos)	1981	4,236	1980	3,684	15.0
At current prices		1,253		1,227	2.1
At 1972 prices					

Part II. Economic Statistics

Chapter 4. Natural Resources

1. Volume of trees in the Philippines (million m ³)	Dec. 31, 1980	1,548.5	Dec. 31, 1979	1,566.7	(2.4)
Productive public forest		1,426.7		1,464.9	(2.6)
Unproductive public forest		121.9		121.9	0.0

SUMMARY OF MAJOR STATISTICAL SERIES (continued)

Statistical series	Latest data		Compared to		Percent change
	Reference period	Value	Reference period	Value	

5. Consumer price index (all families; all items) (1972 = 100)	Sept. 1981	338.4	Sept. 1980	304.5	11.1
Philippines		325.3		291.6	11.6
National Capital Region		340.5		306.6	11.1
Areas outside Metro Manila		329.2		293.0	12.4
Region 1		333.3		29.70	12.2
Region 2		336.8		309.8	8.7
Region 3		343.9		308.0	11.7
Region 4		356.4		320.5	11.2
Region 5		342.7		309.9	10.6
Region 6		321.6		290.9	10.6
Region 7		311.8		283.8	9.9
Region 8		339.4		309.7	9.6
Region 9		336.2		303.3	10.8
Region 10		357.5		317.0	12.8
Region 11		361.1		318.7	13.8
Region 12					

Chapter 3. Economic Accounts

1. Gross national product in purchasers' value (million ₱)	1981	313,563	1980	264,265	18.7
At current prices		97,253		92,930	4.7
At 1972 prices					

2. Gross domestic product by industrial origin at 1972 prices (million ₱)	1981	97,256	1980	92,792	4.8
Agriculture, fishery and forestry		24,722		23,695	4.3
Mining and quarrying		2,275		2,236	1.7
Manufacturing		24,958		23,739	5.1
Construction		7,353		6,952	5.8
Electricity, gas, and water		993		921	7.8
Transport, communication and storage		5,025		4,827	4.1
Commerce		20,040		19,086	5.0
Services		11,890		11,336	4.9

SUMMARY OF MAJOR STATISTICAL SERIES (continued)

Statistical series	Latest data		Compared to		Percent change
	Reference period	Value	Reference period	Value	
2. Distribution of families by income class (1,000 families)	1975	6,859	1971	6,347	8.1
Urban (percent):		100.0		100.0	
Urban ₱1,000		0.7		5.4	
₱1,000 to ₱1,999		4.8		12.6	
₱2,000 to ₱2,999		13.3		17.3	
₱3,000 to ₱4,999		29.3		24.9	
₱5,000 and over		51.9		39.8	
Rural (percent):		100.0		100.0	
Under ₱1,000		3.6		22.4	
₱1,000 to ₱1,999		13.7		28.9	
₱2,000 to ₱2,999		21.0		18.0	
₱3,000 to ₱4,999		31.1		17.9	
₱5,000 and over		30.6		12.8	
3. Distribution of total income by income class (million ₱)	1975	40,058.9	1971	23,714	68.9
Urban (percent):		100.0		100.0	
Under ₱1,000		0.1		0.5	
₱1,000 to ₱1,999		0.9		3.3	
₱2,000 to ₱2,999		4.1		7.4	
₱3,000 to ₱4,999		13.9		16.3	
₱5,000 and over		81.0		72.4	
Rural (percent):		100.0		100.0	
Under ₱1,000		0.5		5.0	
₱1,000 to ₱1,999		4.6		15.1	
₱2,000 to ₱2,999		11.0		15.7	
₱3,000 to ₱4,999		25.6		24.1	
₱5,000 and over		58.3		40.0	
4. Mean family expenditure (peso)	1975	6,527	1971	4,637	40.8
Urban areas		8,760		6,809	
Metro Manila		10,243		7,766	
Other urban		7,899		6,447	
Rural areas		5,543		3,700	

SUMMARY OF MAJOR STATISTICAL SERIES

Statistical series	Latest data		Compared to		Percent change
	Reference period	Value	Reference period	Value	
Part I General Statistics					
Chapter 1. Population Statistics					
1. Population (1,000 persons)	May 1, 1980	48,098	May 1, 1975	42,071	14.3
2. Sex distribution					
Both sexes (1,000 persons)	May 1, 1980	48,098	May 1, 1975	42,071	14.3
Male (percent)		50.2		50.6	
Female (percent)		49.8		49.4	
3. Regional distribution					
Philippines (1,000 persons)	May 1, 1980	48,098	May 1, 1975	42,071	14.3
National Capital Region		5,926		4,970	19.2
Region 1		3,541		3,269	8.3
Region 2		2,215		1,933	14.6
Region 3		4,803		4,210	14.1
Region 4		6,119		5,214	17.4
Region 5		3,477		3,194	8.9
Region 6		4,526		4,146	9.2
Region 7		3,787		3,387	11.8
Region 8		2,799		2,600	7.7
Region 9		2,258		2,048	23.4
Region 10		2,759		2,314	19.2
Region 11		3,347		2,715	23.3
Region 12		2,271		2,070	9.7
4. Literacy rate of population (both sexes)	1970	76.4	1960	72.0	
Chapter 2. Income and Prices					
1. Average family income, Philippines (peso)	1975	5,840	1971	3,736	56.3
Urban		8,329		5,867	42.0
Metro Manila		10,469		7,785	34.5
Other urban		7,088		5,141	37.9
Rural		4,745		2,818	68.4

第三章 気象関連データ集

CLIMATOLOGICAL DATA

Station : MANILA

Period of Record : 1951 - 1970

Coordinates : 14° 35' N 120° 59' E

Month	Rainfall (mm.)	No. of Rainy Days	T E M P E R A T U R E (° C .)						
			Mean	Maxi- mum	Mini- mum	Dry Bulb	Wet Bulb	Dew Point	
JAN	13.3	4	25.9	29.7	22.2	25.6	21.7	20	
FEB	6.3	3	26.4	30.3	22.4	26.0	21.7	20	
MAR	10.1	4	27.7	31.9	23.5	27.5	22.6	21	
APR	21.3	4	29.1	33.2	24.9	29.0	23.7	22	
MAY	122.9	9	29.6	33.5	25.6	29.5	24.9	23	
JUN	286.9	16	28.7	32.1	25.2	28.6	25.1	24	
JUL	354.3	22	28.0	31.2	24.7	27.8	24.9	24	
AUG	473.9	22	27.5	30.5	24.5	27.4	24.9	24	
SEP	401.0	22	27.5	30.6	24.4	27.3	24.8	24	
OCT	181.9	17	27.8	31.1	24.3	27.5	24.3	23	
NOV	114.2	12	27.2	30.5	23.7	26.9	23.5	22	
DEC	58.1	9	26.3	29.8	22.9	25.9	22.5	21	
ANNUAL	2,044.2	142	27.6	31.2	24.0	27.3	23.6	22	

Month	Relative Humidity (%)	Mean Sea Level (MB)	Cloud- iness (0-8)	Prevaling Wind Direc- tion	No. of Days With & Speed (KPH)	Light- ning	Thunder- storm
FEB	69	1013.7	5	SE	9	0	0
MAR	65	1013.0	4	SE	11	0	0
APR	64	1011.6	4	SE	9	4	2
MAY	69	1009.9	5	SE	11	6	7
JUN	76	1009.5	6	SW	15	13	9
JUL	79	1009.1	6	SW	15	6	10
AUG	82	1008.4	6	SW	17	4	7
SEP	82	1009.1	6	SW	15	5	9
OCT	77	1010.5	5	NE	9	4	7
NOV	76	1011.3	5	NE	9	1	2
DEC	75	1012.8	5	NE	9	0	0
ANNUAL	74	1011.1	6	VRBL	12	43	53

SMSP/60381

CLIMATOLOGICAL DATA FOR PASIG, METRO MANILA
(14°36' N, 121°04' E)

Month	No. of Rainfall Days (mm)	TEMPERATURE (°C)				Relative Humidity (%)	Cloudiness (0-8)	Prevailing Wind Direction and Speed (kph)
		Mean	Maxi- mum	Mini- mum	Dry Bulb			
Jan	13.8	24.9	29.3	20.4	24.9	73	6	NE
Feb	7.8	25.4	30.5	20.2	25.3	70	6	E
Mar	7.9	26.8	32.0	21.5	27.0	68	6	E
Apr	21.7	28.5	34.3	22.7	28.3	67	4	E
May	173.4	28.7	33.5	23.9	28.4	73	7	NE
Jun	333.4	27.7	31.5	23.8	27.3	82	8	S
Jul	439.2	26.9	30.4	23.4	26.5	86	9	SE
Aug	430.5	27.0	30.5	23.4	26.3	85	9	SE
Sept	470.6	26.6	30.3	22.8	26.2	86	9	SE
Oct	177.1	26.7	30.5	22.6	26.3	82	8	NE
Nov	125.8	26.2	30.4	21.8	25.7	81	7	SE
Dec	52.9	24.9	29.4	20.4	22.2	78	8	NE
ANNUAL	2257.8	26.7	31.1	22.2	26.4	78	7	NE

* - Data taken from Streamline Analysis showing prevailing winds of Pasig

H O M E L Y S U M M A R Y
 For the Month of JANUARY 19 81
 R E P O R T

STATION	Max. Temp.	Min. Temp.	Wind Dir.	Wind Spd.	Mean Wind Dir.	Mean Wind Spd.	Humidity	Clouds	Remarks
1. Apariti	23.5	14.4	NE	24	NE	07	71	100%	
2. Alabat	27.6	20.1	NE	21	NE	09	71	100%	
3. Ambulong	0.4	18.5	NE	20	NE	04	71	100%	
4. Baguio	18.6	8.1	NE	17	NE	03	71	100%	
5. Baler	21.2	14.3	E	14	E	04	71	100%	
6. Basco	24.7	16.2	NNE	29	NNE	07	71	100%	
7. Cabanatuan	22.9	18.6	NE	24	NE	09	71	100%	
8. Calapan	26.8	19.7	N	20	N	07	71	100%	
9. Cajayan	0.8	20.0	NW	20	NW	02	71	100%	
10. Casiguran	27.0	19.4	NNE	14	NNE	07	71	100%	
11. Daet	29.0	19.3	NE	28	NE	07	71	100%	
12. Dagupan	0.5	23.7	E	24	E	05	71	100%	
13. Iba	0.8	21.7	E	24	E	06	71	100%	
14. Infanta	27.4	18.4	N	28	N	07	71	100%	
15. Itbayat									
16. Laoag	0.5	22.8	N	28	N	07	71	100%	
17. Legazpi	27.4	21.4	NE	26	NNE	08	71	100%	
18. M I A	24.8	21.8	W	20	W	10	71	100%	
19. Port Area									
20. Sangley	28.8	19.0	SE	20	SE	07	71	100%	
21. San Francisco									
22. Science Garden	0.1	20.4	NE	13	NNE	01	71	100%	
23. San Jose (Min.)	21	16	NE	18	E	07	71	100%	

Handwritten notes:
 22. Science Garden
 23. San Jose (Min.)

MONTHLY SUMMARY TELEGRAPHIC REPORT
For the Month of DECEMBER 1981

LUZON STATIONS	TOTAL	Maximum	Date	Minimum	Date	Max. Wind	Dir.	Mean Wind	Rainy	Stn.	Ave.	RH	Cl
	HR	Temp.	Temp.	Temp.	Temp.	Dir.	Dir.	Dir.	Days	Pres.	Temp.	%	i
1. Aparri	116.6	31.1	29	17.0	16	NE	24	02	NNE	01	29	63.1	29.4
2. Mindat	74.0	31.2	27	16.9	16	N	24	03	VRBL	03	26.1		
3. Ambulong	105.3	32.0	31	18.4	18	NE	20	05	NE	05	25.3		
4. Baguio	6.4	26.5	29	8.2	20	E	24	08	SE	10	13.1		
5. Baler	75.5	30.0	26	17.0	20	E	18	04	E	09	23.5		
6. Basco	152.0	20.4	24	11.0	25	NE	25	01	NNE	06	21.2		
7. Cabanatuan	113	30.9	25	17.0	22	N	25	04	NE	08	24.7		
8. Calapan	171.3	27.6	26	11.0	25	NE	26	08	NE	08	22		
9. Calayan													
10. Casiguran	193.0	30.8	29	17.9	14	NE	14	02	N	02	19	62.0	27.6
11. Daet													
12. Dagupan	1.4	31.2	28	16.6	21	WNW	14	02	W	04	21.3		
13. Iba	3.2	32.2	27	20.8	21	NE	22	07	E	07	22.3		
14. Infanta	157.2	35.1	27	19.5	15	NNW	20	17	NE	25	21.8		
15. Itbayat	538.7	33.6	29	15.4	20	N	24	02	NE	12	21.6		
16. Laoag	0.0	33.9	24	13.4	21	NNE	20	08	N	08	23.7		
17. Legazpi	477.1	35.0	25	21.0	16	E	50	25	NE	07	25.6		
18. M I A	48.0	33.4	26	17.0	21	WN	18	04	E	04	24.7		
19. Port Area	74.0	31.2	26	16.9	16	N	24	03	VRBL	03	26.4		
20. Sanpley													
21. San Francisco													
22. Science Garden	87.4	33.6	29	16.1	22	NE	22	08	NE	08	24.9		
23. San Jose (Min.)													

MONTHLY SUMMARY TELEGRAPHIC REFERENCE
For the Month of FEBRUARY 1981

LUZON STATIONS	TOTAL		Maximum		Minimum		Date		Max. Wind		Date		Mean		Wind		Dir.		Speed		Dir.		Speed		Dir.		Speed	
	RR	24-Hr.	Temp.	Temp.	Temp.	Temp.	Temp.	Temp.	Temp.	Temp.	Temp.	Temp.	Temp.	Temp.	Temp.	Temp.	Temp.	Temp.	Temp.	Temp.	Temp.	Temp.	Temp.	Temp.	Temp.	Temp.	Temp.	Temp.
1. Aparri	11.0	8.0	21.4	19	18.4	11	NE	20	06	NE	04	09	04	04	04	04	04	04	04	04	04	04	04	04	04	04	04	04
2. Alabat	21.1	16	29.8	24	20.0	25	NE	10	28	NE	05	09	05	05	05	05	05	05	05	05	05	05	05	05	05	05	05	05
3. Ambulong	25.5	23	21.5	21	18.3	12	NE	20	07	NE	03	03	03	03	03	03	03	03	03	03	03	03	03	03	03	03	03	03
4. Baguio	22.8	26	27.8	23	11.0	13	S	18	28	S	03	05	05	05	05	05	05	05	05	05	05	05	05	05	05	05	05	05
5. Baler	13.1	10.8	30.8	23	16.4	11	E	10	10	E	10	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17
6. Basco	21.1	6.7	27.0	23	11.4	05	NE	24	07	E	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13
7. Cabanatuan	0.0	0.0	32.6	17	23.2	03	E	10	21	E	08	07	07	07	07	07	07	07	07	07	07	07	07	07	07	07	07	07
8. Calapan	21.4	16.6	31.2	16	20.6	21	NE	22	11	NE	06	07	07	07	07	07	07	07	07	07	07	07	07	07	07	07	07	07
9. Calayan																												
10. Casiguran	18.2	8.0	31.0	24	19.3	06	NE	08	08	NE	04	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16
11. Daet	23.1	15.3	29.6	06	19.6	21	NE	22	02	E	08	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16
12. Dagupan	1.1	1.4	35.7	23	16.4	13	S	27	27	NSW	05	01	01	01	01	01	01	01	01	01	01	01	01	01	01	01	01	01
13. Iba	1.0	1.0	27.7	12	24.6	13	SE	34	12	UN	07	07	07	07	07	07	07	07	07	07	07	07	07	07	07	07	07	07
14. Infanta	20.8	14.8	30.0	26	19.5	22	NNE	16	07	UNB	07	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22
15. Itbayat																												
16. Laoag	0.0	0.0	35.2	28	17.4	20	N	24	07	NNN	05	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20
17. Legazpi	61.8	26.1	31.0	26	20.6	03	NE	27	28	NE	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13
18. M I A	3.0	3.0	32.5	25	16.6	08	ENE	22	22	SE	07	05	05	05	05	05	05	05	05	05	05	05	05	05	05	05	05	05
19. Port Area																												
20. Sangley																												
21. San Francisco																												
22. Science Garden	7.0	8.8	32.5	24	17.8	12	NE	12	12	NE	01	03	03	03	03	03	03	03	03	03	03	03	03	03	03	03	03	03
23. San Jose (Min.)																												

MONTHLY SUMMARY TELEGRAPHIC REPORT
 For the Month of MARCH 1931

LUZON STATIONS	TOTAL RR	Max. Temp.	Min. Temp.	Date Max.	Wind Dir.	Date Min.	Wind Dir.	Max. Wind	Mean Wind	Rainy Days	Stm.	Ave. Humid.
1. Apariti	33.5	31.5	19.0	03	SW	25	20	NE	05	06	100.0	81.0
2. Alabat												
3. Ambulong	0.2	30.7	18.7	08	NE	18	30	NE	05	02	100.0	81.0
4. Baguio		28.6	12.6	09	SE	18	03	W	04	00	100.0	81.0
5. Baler	31.7	33.2	19.4	04	E	12	11	E	03	11	100.0	81.0
6. Basco	21.7	31.0	21	11	W	27	21	NNE	06	08	100.0	81.0
7. Cabanatuan		33.7	19.5	04	E	28	11	E	08	01	100.0	81.0
8. Calapan	11.9	30.0	21.7	31	NE	24	05	SE	07	02	100.0	81.0
9. Calayan												
10. Casisuran	11.7	33.0	21	04	E	08	30	W	03	03	100.0	81.0
11. Daet	20.7	31.5	20	18	E	21	01	E	07	10	100.0	81.0
12. Dagupan		31.7	20	18	NNW	26	20	NNW	03	07	100.0	81.0
13. Tba		33.2	21	19	E	30	21	E	07	00	100.0	81.0
14. Infanta	107.1	31.2	20	19	W	27	17	W	03	03	100.0	81.0
15. Itbayat												
16. Laosag	60	31.9	23	15	NN	24	23	W	05	00	100.0	81.0
17. Legazpi	61.8	31.0	26	26	NE	27	28	NE	07	11	100.0	81.0
18. MIA		33.3	29	17	ESE	25	03	E	03	03	100.0	81.0
19. Port Area												
20. Sangley												
21. San Francisco												
22. Science Garden												
23. San Jose (Min.)												

MONTHLY SUMMARY TABLE REPORT

For the Month of APRIL 19 51

LUZON STATIONS	TOTAL RR	Max. Temp.	Min. Temp.	Date	Max. Wind	Dir.	Date	Mean Wind	Dir.	Date	Stn. Ave.	RH	Cl
1. Aparri	39.5	37.8	29	10	NE	18	12	NE	06	04	100.0	28.6	
2. Alabat	39	35.0	28	18	NE	16	16	NE	05	04	100.0	28.4	
3. Ambulong	27.8	37.8	05	21	NE	14	01	NE	02	04	100.0	29.5	
4. Baguio	24.8	29.0	04	14	E	24	04	SE	03	13	100.0	21.6	
5. Baler	32.6	34.0	19	22	N	10	17	E	02	17	100.0	28.0	
6. Basco	27.7	32.8	16	21	NNE	22	05		04		100.0	27.2	
7. Cabanatuan	42.7	37.8	19	22	NNE	17	19		03		100.0	28.7	
8. Calapan	4.8	35.0	20	23	E	24	05	UE	06	01	100.0	29.4	
9. Calayan													
10. Casiguran													
11. Daet	96.1	33.0	15	22	E	24	04	E	05	16	101.7	27.9	
12. Dagupan													
13. Iba	10	35.4	06	27	E	26	00	E	07	02	100.0	29.9	
14. Infanta	190.7	33.4	19	21				N	03	14	100.0	27.3	
15. Itbayat													
16. Laoag	0.2	37.1	26	22	NNW	24	04	W	05	01	100.0	29.8	
17. Legazpi	154.2	32.4	20	24	E	22	07	NE	06	26	100.0	29.4	
18. M I A	310	34.5	19	25	NNE	24	03	E	08	01	100.0	27.3	
19. Port Area													
20. Sangley													
21. San Francisco													
22. Science Garden	29.9	36.5	29	21				SE	02	01			
23. San Jose (Min.)													

MONTHLY SUMMARY TELEGRAPHIC REPORT
For the Month of MAY 19 21

LUZON STATIONS	TOTAL	Maximum	Date	Minimum	Date	Max. Wind	Date	Mean Wind	Rainy	Stn.	Ave. Rel. Cl.	
	RR	Temp.	Dir.	Temp.	Dir.	Spd.	Dir.	Spd.	Days	Temp.	%	
1. Apayao	614.7	276.0	19	214	28	NE	15	18	NPE	09	14	104.7/101.28.9
2. Alabat	86.2	271.6	24	271.7	10	SW	14	18	SW	04	11	101.8/101.28.9
3. Ambulong												
4. Baguio	276.2	152.2	13	27.4	04	SW	19	13	SE	02	26	101.2/101.21.0
5. Baler	156.4	110	08	25.7	14	SE	10	10	E	03	21	104.6/101.28.9
6. Basco	189.1	73.7	12	33.4	20	SW	24	12	W	06	11	104.7/101.27.1
7. Cabanatuan	122.6	110	26	36.0	07	E	22	02	E	05	17	101.4/101.27.1
8. Calapan	49.4	11.9	02	36.7	28	E	24	22	SE	05	16	101.7/101.30.1
9. Calayan												
10. Casiguran	181.4	17.0	08	37.9	30	NE	06	15	NPE	01	20	101.2/101.28.9
11. Daet	48.3	33.8	05	35.0	15	S	30	17	E	04	11	104.7/101.28.9
12. Dagupan												
13. Iba	107.6	47.4	11	24.4	01	SW	16	16	E	06	09	101.7/101.29.4
14. Infanta	172.1	64.3	11	37.8	30	SW	16	04	SE	14	14	101.6/101.29.4
15. Itbayat	649.4	42.2	11	31.5	31	SE	24	10	SE	06	06	101.7/101.27.0
16. Ilocos	206.6	80.2	16	36.9	04	NW	14	29	W	04	11	101.4/101.20.1
17. Legazpi	138.6	35.2	07	30.9	16	NE	20	07	NE	04	11	101.7/101.27.1
18. N I A	26.3	20.8	28	35.0	11	ESE	24	05	E	05	09	101.9/101.28.1
19. Port Area												
20. Sangley												
21. San Francisco												
22. Science Garden	71.8	25.0	27	37.3	11	SE	03	12	SE	02	12	100.5/101.29.9
23. San Jose (Min.)												

M O N T H L Y S U M M A R Y For the Month of JUNE 19 38

LUZON STATIONS	TOTAL RR	Maximum Date	Minimum Date	Max. Wind Dir.	Mean Wind Dir.	Max. Rain	Min. Rain	Avg. Rain
1. Aparri	86.5	16	08	SE	14	13	04	40
2. Alabat	111.5	17	09	SE	14	13	04	40
3. Ambulong	111.4	18	09	SW	12	12	09	27
4. Baguio	114.6	17	09	SW	14	14	06	17
5. Baler	111.5	17	09	SW	14	14	06	17
6. Basco	111.5	17	09	SW	14	14	06	17
7. Cabanatuan	111.5	17	09	SW	14	14	06	17
8. Calapan	111.5	17	09	SW	14	14	06	17
9. Calayan	111.5	17	09	SW	14	14	06	17
10. Casiguran	111.5	17	09	SW	14	14	06	17
11. Daet	111.5	17	09	SW	14	14	06	17
12. Dagupan	111.5	17	09	SW	14	14	06	17
13. Iba	111.5	17	09	SW	14	14	06	17
14. Infanta	111.5	17	09	SW	14	14	06	17
15. Itbayat	111.5	17	09	SW	14	14	06	17
16. Laong	111.5	17	09	SW	14	14	06	17
17. Legazpi	111.5	17	09	SW	14	14	06	17
18. M I A	111.5	17	09	SW	14	14	06	17
19. Port Area	111.5	17	09	SW	14	14	06	17
20. Sangley	111.5	17	09	SW	14	14	06	17
21. San Francisco	111.5	17	09	SW	14	14	06	17
22. Science Garden	111.5	17	09	SW	14	14	06	17
23. San Jose (Min.)	111.5	17	09	SW	14	14	06	17

MONETARY SUMMARY TELEGRAPHIC REPORT
For the Month of AUGUST 1981

LUZON STATIONS	TOTAL Maximum	Date	Minimum	Date	Max. Wind	Date	Mean Wind	Rainy:Stm.	AVE.:RH:Cl			
RR	Temp.	Dir.	Spd	Dir.	Spd	Dir.	Days:Pres.	TEMP.:i.				
1. Anauit	207.8	101.5	22.9	01	S	14	30	W	07	10	100.0/10	28.5
2. Alabat	180.9	51.4	35.0	06	/	/	/	UNE	02	16	100.0/10	29.0
3. Ambulong	167.4	185.3	23.3	02	SW	24	06	W	01	30	100.0/10	20.5
4. Baguio	199.3	81.3	14	01	W	30	24	W	01	15	100.0/10	28.3
5. Baler	118.5	43.5	36.0	03	SSW	38	30	SSW	10	23	100.0/10	28.4
6. Basco	326.6	52.6	15	01	SE	26	04	SE	04	23	100.0/10	23.6
7. Cabanatuan	78.9	14.8	15	03	PNW	34	12	NE	04	14	100.0/10	28.7
8. Calapan	290.1	76.2	03	01	S	15	01	W	02	19	100.0/10	29.3
9. Calsayan	204.6	58.4	07	10	SW	32	06	SW	18	17	100.0/10	28.7
10. Casiguran	193.2	58.2	01	05	SW	32	06	SW	06	16	100.0/10	28.6
11. Daet	694.0	19.4	18	02	SSE	48	05	SE	03	26	100.0/10	27.9
12. Dagupan	1014.1	124.4	07	05	SSW	55	05	SSW	09	29	100.0/10	26.5
13. Iba	102.5	23.1	01	03	SSW	22	05	S	04	09	100.0/10	29.3
14. Infanta	1632.1	403.2	26	13	W	18	03	/	/	15	100.0/10	28.5
15. Itbayat	508.3	74.0	15	02	W	29	08	W	04	20	100.0/10	28.5
16. Lacor	223.8	127.6	12	08	SSW	20	04	SSW	07	17	100.0/10	28.8
17. Lesani	247.7	76.4	06	02	WSW	30	06	WSW	06	24	100.0/10	26.8
18. M.I.A	193.8	50.0	08	03	W	15	06	W	06	19	100.0/10	27.7
19. Port Area												
20. Sanzley												
21. San Francisco												
22. Science Garden	341.6	86.4	26	02	/	/	/	SSW	03	04	100.0/10	28.5
23. San Jose (Min.)												
TARLAC	339.7	49.6	11	05.6	WSW	22	06	/	/	29	100.0/10	28.5

MONTHLY SUMMARY TELEGRAPHIC REPORT
For the Month of SEPTEMBER 1931

LUZON STATIONS	TOTAL	Maximum	Date	Minimum	Date	Max. Wind	Dir.	Mean	Wind	Dir.	Days	Ave. Rain	Dir.	Temp.	Days	Temp.
	HR	HR	HR	HR	HR	HR	Dir.	HR	HR	Dir.	HR	HR	Dir.	HR	HR	HR
1. Aparri	580.0	375.6	20	34.4	10	23.0	SSW	74	20	SSW	06	10	104.3	18	20.7	
2. Alabat																
3. Ambulong	545.9	105.6	20	27.7	06	21.8	S	05	1	S	08	104.3	18	28.4		
4. Baguio																
5. Baler	331.9	74.0	26	34.5	04	22.2	W	07	19	E	04	104.3	18	28.3		
6. Basco	345.7	119.2	20	/	/	/	NE	54	20	SE	06	19	104.3	18	28.3	
7. Cabanatuan	604.3	90.9	20	33.2	04	22.4	W	18	19	NE	04	14	104.3	18	27.8	
8. Calanan	606.2	36.8	08	32.2	04	22.4	NW	18	20	SE	04	22	104.3	18	27.4	
9. Calayan	290.1	76.3	03	37.0	01	21.5	S	35	21	E	02	19	104.3	18	27.2	
10. Casiguran	377.6	57.2	29	35.4	09	21.9	S	50	19	S	02	16	104.3	18	28.6	
11. Daet	280.9	64.8	25	37.1	02	22.7	SSW	40	20	NE	06	17	104.3	18	28.4	
12. Dagupan	167.8	65.1	19	36.4	13	22.8	W	45	20	NW	05	16	104.3	18	27.6	
13. Iba	282.3	93.4	20	33.5	16	24.8	S	50	21	E	06	15	104.3	18	29.1	
14. Infanta	298.6	62.6	25	34.4	04	23.4	NE	20	25	W	03	18	104.3	18	28.9	
15. Itbayat	1686.2	761.0	20	31.0	27	23.0	ESE	40	26	E	05	1	104.3	18	27.0	
16. Laoag	235.3	111.0	20	36.1	14	23.3	W	50	22	NE	05	10	104.3	18	29.7	
17. Legazpi	352.6	50.6	25	33.4	27	24.2	SSW	42	19	/	18	104.3	18	29.0		
18. M I A	220.4	68.2	25	37.8	13	21.3	SSW	20	20	W	06	17	104.3	18	28.0	
19. Port Area	171.8	45.5	25	33.0	11	22.0	WSW	32	30	WSE	03	18	104.3	18	28.5	
20. Sangley	163.2	62.5	24	33.5	10	23.0	SW	28	20	ESE	04	16	104.3	18	28.2	
21. San Francisco																
22. Science Garden	262.6	55.8	29	34.5	/	22.7	SSW	25	27	SSW	05	27	104.3	18	28.7	
23. San Jose (Min.)																

MONTHLY SUMMARY THE LATEST PRELIMINARY REFERENCE
 For the Month of OCTOBER 1931

LUZON STATIONS	NOVAIL	Maximum	Minimum	Date	Max.	Wind	Date	Mean	Wind	Relative	Wet.	AVE.	RR.	CI
	HR	Temp.	Temp.	Dir.	Dir.	Dir.	Dir.	Dir.	Dir.	Dir.	Dir.	Temp.	Temp.	Temp.
1. Apaita	122.7	34.5	36.4	07	21.9	30	NE	20	25	NPE	05	19	107.7	155.2
2. Alabat	101.3	28.8	32.9	13	22.0	28	/	NE	02	26	02	26	104.4	157.9
3. Ambulong	196.3	31.6	33.6	16	19.3	16	SE	29	08	20	20	209	106.3	155.2
4. Baguio	678.5	12.8	16.6	19	20.0	27	E	20	12	03	01	266	106.1	155.2
5. Baler	154.2	11.2	14.4	08	21.9	17	NNE	28	26	06	25	231	109.1	155.2
6. Basco	137.3	53.2	33.4	15	22.2	17	ESE	22	13	ESE	05	13	104.9	157.9
7. Cabanatuan	275.7	81.9	32.7	20	21.7	27	U	24	13	NE	07	21	107.7	157.9
8. Calapan														
9. Calayan														
10. Casauran	612.0	170.7	34.1	20	21.4	15	NE	08	26	01	17	27.7	105.8	157.9
11. Daet	575.8	33.2	32.7	19	21.0	11	NE	10	27	SE	04	23	104.3	157.9
12. Dagupan	134.7	63.6	33.9	02	21.9	08	SE	27	18	SSW	04	15	104.7	157.9
13. Iba	185.4	87.8	32.4	20	24.1	24	FSE	26	07	E	06	13	104.8	156.8
14. Infanta	646.1	100.8	33.0	22	22.8	25	N	26	25	WSW	09	25	106.9	157.9
15. Itbayat	302.4	70.5	30.5	09	21.6	23	NE	19	27	/	16	27.0	102.6	157.9
16. Laobe	93.7	31.8	35.0	25	20.4	15	N	22	24	E	06	08	106.7	157.9
17. Legazpi	490.6	172.4	32.4	22	22.5	17	FNE	28	28	SE	03	26	106.4	157.9
18. M I A	189.0	46.0	34.4	18	18.6	23	SW	12	19	E	03	17	105.7	157.9
19. Port Area	191.3	45.0	32.7	07	23.1	28	SE	14	14	VRBL	02	17	105.7	157.9
20. Sangley	104.4	18.0	33.0	08	23.0	16	SW	20	27	FSE	04	17	105.7	157.9
21. San Francisco														
22. Science Garden														
23. San Jose (Min.)														

MONTHLY SUMMARY TELEGRAPHIC REFERENCE
For the Month of NOVEMBER 1931

LUZON STATIONS	TOTAL		Maximum		Minimum		Date		Wind		Mean		Rainy		Stm.		AVE.		RH: Cl.			
	RR	24 Hr. T	Temp.	Dir.	Spd.	Dir.	Spd.	Dir.	Spd.	Dir.	Spd.	Dir.	Spd.	Dir.	Spd.	Dir.	Spd.	Dir.	Spd.	Dir.	Spd.	
1. Apurri	182.5	41.5	32.7	C2	21.0	27	NE	23	24	NE	08	19	101.7	101.7	101.7	101.7	101.7	101.7	101.7	101.7	101.7	
2. Alabat																						
3. Ambulong	3067.0	55.6	30.3	06	22.1	17	WNW	10	20	NE	04	22	101.7	101.7	101.7	101.7	101.7	101.7	101.7	101.7	101.7	
4. Baguio	2066.4	145.4	24	22	27.5	29	SE	58	16	WSE	07	11	101.7	101.7	101.7	101.7	101.7	101.7	101.7	101.7	101.7	
5. Baler	614.6	283.1	30.7	26	20.1	12	SE	100	24	E	05	16	101.7	101.7	101.7	101.7	101.7	101.7	101.7	101.7	101.7	
6. Basco	251.0	113.4	31.6	28	19.2	28	SE	38	20	NE	09	18	101.7	101.7	101.7	101.7	101.7	101.7	101.7	101.7	101.7	
7. Cabanatuan	126.7	114.4	32.8	04	21.5	15	S	85	24	E	07	09	101.7	101.7	101.7	101.7	101.7	101.7	101.7	101.7	101.7	
8. Calapan	215.2	68.0	31.7	27	22.0	19	NW	70	20	NE	07	28	101.7	101.7	101.7	101.7	101.7	101.7	101.7	101.7	101.7	
9. Calayan																						
10. Casiguran	751.5	126.1	24	26	20.4	28	E	60	24	N	03	23	101.7	101.7	101.7	101.7	101.7	101.7	101.7	101.7	101.7	
11. Daet	806.2	124.0	24	20	22.8	20	NW	140	24	NE	10	24	101.7	101.7	101.7	101.7	101.7	101.7	101.7	101.7	101.7	
12. Dagupan	203.4	149	24	06	20.4	18	NNW	80	24	WBL	04	05	101.7	101.7	101.7	101.7	101.7	101.7	101.7	101.7	101.7	
13. Iba	877	165.6	24	05	24.9	18	NW	42	24	NW	07	07	101.7	101.7	101.7	101.7	101.7	101.7	101.7	101.7	101.7	
14. Infanta	989.3	209.8	11	26	21.3	02	WSW	62	24	/	/	27	101.7	101.7	101.7	101.7	101.7	101.7	101.7	101.7	101.7	
15. Itbayat	1219.1	572.5	26	06	15.7	08	WNW	55	26	/	/	14	101.7	101.7	101.7	101.7	101.7	101.7	101.7	101.7	101.7	
16. Laoag	31.6	16.2	25	06	19.7	28	S	136	25	N	07	05	101.7	101.7	101.7	101.7	101.7	101.7	101.7	101.7	101.7	
17. Legazpi	864.8	114.4	15	26	23.2	05	SSW	75	15	NE	05	24	101.7	101.7	101.7	101.7	101.7	101.7	101.7	101.7	101.7	
18. MIA	175.1	165.2	24	26	19.0	24	SW	50	24	E	04	16	101.7	101.7	101.7	101.7	101.7	101.7	101.7	101.7	101.7	
19. Port Area	150.3	50.4	24	07	22.0	11	W	54	24	NNE	03	20	101.7	101.7	101.7	101.7	101.7	101.7	101.7	101.7	101.7	
20. Sanpley																						
21. San Francisco																						
22. Science Garden	181.1	72.6	23	23	24.0	24	NE	40	29	NE	02	03	101.7	101.7	101.7	101.7	101.7	101.7	101.7	101.7	101.7	
23. San Jose (Min.)																						

TEMPORARY 1981 TROPICAL CYCLONE SUMMARY

- Classification & Names: Max Winds Obs. : Min. Sea Level PPP : Max 24-hr RR (mm) : Brief History, Signals Hoisted & Damages
 Period of Occurrence : (kph) Place : Obs. (mb) ending 8em
1. T.S. BERING : 55-JLW(ship) : - : - : Developed east of Mindanao as T.D. and weakened into a IPA 450 km eastnortheast of Virac, Catanduanes. Occasional rains and gusty winds experienced over Bicol Region, Eastern and Central Visayas. PSS#1 hoisted over: Bicol Region, Visayas and Northeastern Mindanao.
2. T.S. BINING : 100-Recon Obs. : 967.0-Recon Obs. : 103.2-Port Area : T.S. BINING had attained storm intensity and induced the southwest monsoon before approaching the northwestern boundary of the PAR. : 75-Baguiro Rad. : 991.5-Pratas Is. : 60.0-Laog : ching the northwestern boundary of the PAR. : 55-Iba : 992.7-Basco : *RR measured before BINING entered Luzon incl. Metro Manila. : 100-Recon Obs. : 963.0-Recon Obs. : 150-4-Laoag : 110-9KFI(ship) : 995.5-Basco : 59-Basco : 150-Recon Obs. : 963.0-Recon Obs. : 220.4-Legaspi : 100-Recon Obs. : 989.4-Virac Rad. : 101.6-Virac Synop : BICOL REGION cut across Bicol Region, Southern Luzon and exited thru Mindoro. : 85-Baguiro Rad. : 997.6-Virac Synop : 87.0-Virac Radar : Bicol Region and Mindoro severely damaged. #2 hoisted over Bicol Region, Central Luzon including Metro Manila, Southern Tagalog Provinces, Marinduque, Mindoro and Bataan. PSS#1 hoisted over Samar, Northern Luzon, Northern Panay and Northern Palawan.
3. T. TURING : 140-Virac Radar : 989.5-Baler : 180.7-Maler : Formed inside the PAR about 1200 km east of Bicol Region, cut across Bicol Region, Southern Luzon and exited thru Mindoro. : 110-Recon Obs. : 997.0-Virac Radar : 82.2-Ambulong : 95-Baler : 998.2-Virac Synop : 73.5-Sc.Garden : Stormy weather prevailed over the affected areas. PSS#2 hoisted over Eastern Visayas, Bicol Region, Central Luzon, Mindoro, Southern Tagalog Provinces, Marinduque and Northern Luzon. PSS#1 hoisted over the rest of the Visayas.
4. T.S. DALING : 150-Virac Radar : 981.0-Recon Obs. : 220.4-Legaspi : Formed inside the PAR about 1200 km east of Bicol Region, cut across Bicol Region, Southern Luzon and exited thru Mindoro. : 100-Recon Obs. : 989.4-Virac Rad. : 101.6-Virac Synop : BICOL REGION cut across Bicol Region, Southern Luzon and exited thru Mindoro. : 85-Baguiro Rad. : 997.6-Virac Synop : 87.0-Virac Radar : Bicol Region and Mindoro severely damaged. #2 hoisted over Bicol Region, Central Luzon including Metro Manila, Southern Tagalog Provinces, Marinduque, Mindoro and Bataan. PSS#1 hoisted over Samar, Northern Luzon, Northern Panay and Northern Palawan.
5. T.S. ILANG : 140-Virac Radar : 989.5-Baler : 180.7-Maler : Formed 470 km east of Visayas and crossed thru Polillo Is., Aurora, Nueva Ecija and Pangasinan. Stormy weather prevailed over the affected areas. PSS#2 hoisted over Eastern Visayas, Bicol Region, Central Luzon, Mindoro, Southern Tagalog Provinces, Marinduque and Northern Luzon. PSS#1 hoisted over the rest of the Visayas.

Continuation of 1991 Tropical Cyclone Summary

5. T.D. SCORING July 07-09	- - -	- - -	40.1-Boronagan 26.4-Guluan	Developed east of Visayas and weakened into a LPA: 300 km east-northeast of Catanduanes. PSS#1 hoisted over Eastern Luzon and Eastern Visayas. No significant effect.
6. T.D. SCORING July 17-19	52-Recon Obs. 52-JRXX(ship)	905.0-Recon Obs. 995.0-JRXX(ship)	101.2-Iba 58.5-M I A	Did not cross the country but induced the SW flow: PSS#2 hoisted over Batanes Group. PSS#1 hoisted over Northern and Central Luzon incl. M. Manila.
7. T.D. SCORING July 21-22	- -	- -	176.8-Vigan 161.5-Iba 99.9-Laoag	Formed 110 km east-southeast of Taipei, Taiwan. Spared the country but induced the SW flow that caused rains over Northwestern Luzon. PSS#1 hoisted over Batanes, Babuyan Is., Ilocos Norte, Ilocos Sur and La Union.
8. T.D. SCORING July 30 - 01 August	- -	- -	- -	Developed east of Luzon as T.D. and weakened into a LPA 1200 km east of Basco. No effect.
9. T.D. SCORING August 4-1	110-Baguio Rad. 65-Recon Obs.	973.0-Recon Obs. 998.2-Laoag	71.0-Iba	Originated over South China Sea and attained storm intensity but did not cross the country. Western provinces of Luzon incl. M. Manila. PSS#1 hoisted: over the western provinces of Luzon incl. M. Manila Cavite, Batangas and Mindoro.
10. T.D. SCORING August 3-9	65-JRXX(ship)	-	124.4-Iba	Did not cross the country. PSS#1 hoisted over Northern and Central Luzon incl. M. Manila and Southern Tagalog provinces.
11. T.D. SCORING August 15-19	150-Recon Obs. 85-JRXX(ship)	964.0-Recon Obs. 994.0-JRXX(ship)	- -	Developed east of Luzon and induced the SW monsoon which brought rains over the western section of Luzon including Metro Manila. No signal hoisted.
12. T.D. SCORING August 26-31	95-Recon Obs.	962.0-Recon Obs.	-	Originated northwest of Guam, passed over the Northern eastern side of the FAR then crossed the Southern Is. (Ryukyus) of Japan. PIIING slightly induced: the SW monsoon causing rains over the western provinces of Luzon. PSS#1 hoisted over Batanes
13. T.D. SCORING September 15-21	133-Apariti Rad. 130-Baguio Rad. 104-Tuguegarao 102-Dasco 95-Vigan	905.8-Tuguegarao 938.2-Laoag 989.3-Basco 995.9-Vigan	98.2-Tuguegarao 111.0-Laoag 127.7-Vigan	Crossed Northern tip of Cagayan. PSS#3 hoisted over Cagayan, Ilocos Norte and Sur, Kalinza-Apayao Abra and Mt. Prov. PSS#2 hoisted over Rest of Northern Luzon, Pangasinan, Northern Samar, Sicol, Aurora, Quirino and Quezon. PSS#1 hoisted over Rest of Luzon incl. M. Manila, Mindoro and rest of the Visayas.

Continuation of 1951 Tropical Cyclone Summary

15. T.D. SALLING Sep. 24-26	:	:	:	: Developed east of Mindanao and crossed the : Visayas. PSS#1 hoisted over Zamboales, Rest of : Southern Luzon, Metro Manila, Batangas, Visayas, : Eastern and Northern Mindanao.
16. T. GASING Sep. 27-31 Oct.	:	: 270-Recon Obs.	: 892, Recon Obs.	: Entered the PAR but spared the country. : PSS#1 hoisted over Batangas.
17. T.S. UNSING Oct. 12-14	:	: 75-Recon Obs.	: 1002.0-Recon Obs.	: Crossed the Visayas. PSS#1 hoisted over : Manila, Batangas, Cavite, Mindoro, Visayas, Nor- : thern Mindanao and Quezon.
18. M. WALDING Oct. 18-21	:	: 165-Recon Obs.	: 947.0-Recon Obs.	: Entered the PAR but did not cross the coun- : try. PSS#2 hoisted over the Batangas and : Babuyan Islands. PSS#1 hoisted over Rest : of Northern Luzon.

1950 TROPICAL CYCLONE SUMMARY

Classification & Name	Max. Winds Obs. (kph)	Min. Sea Level Press. (mb)	24-hr RR (mm)	Brief History, Public Storm Signals Raised and Damages
1. T.D. ABLANG Feb. 12-14	63-Guluan 55-Calepan	1007.7-Guluan 1007.1-Davao	83.5-Davao 36.7-Catbalogan 34.0-Iloilo	Developed east of Surigao del Sur. It then cut across northeastern Mindanao, eastern Bohol between Cebu and Negros, finally dissipating over the Visayan Sea in the morning of February 14. ABLANG considerably activated the northeast monsoon which dumped rains to the eastern sections of the country. Public Storm Signal (PSS) number 1 was raised over northern Mindanao, Visayas and Biicol Region. No reported damage nor casualty.
2. T.D. BIKING Mar. 20-24 & 27	85-Daet 79-Viras 65-Resor 6-CZKB(ship)	1008.6-Borongan 1002.9-Talobani 1003.0-Resor	316.9-Daet 303.3-Catbalogan 203.6-Legaspi	Entered the Philippine Area of Responsibility (PAR) in the afternoon of March 20 and assumed a west northwest track crossing north of eastern Samar and northern Masbate. It finally degenerated into a low pressure area over the Sulu Strait. The northeast monsoon was induced which brought rains over eastern, central and southern Luzon and the Visayas. PSS no. 1 was raised over eastern Mindanao, rest of Visayas, eastern and central Luzon, southern Tagalog provinces including Metro Manila. Damages amounted to P3,058,000.00. Casualties: 4 dead. Missing: 100.
3. T.D. KORBING Apr. 28-May 1	55-FRPO(ship) & JCAD "	1005.6-Tagbilaran 1008.2-ship	90.0-Davao 30.0-Tagbilaran	Formed east of Mindanao and degenerated into a low pressure area (LPA) before landfall. It brought rains over Biicol, eastern Visayas and eastern Mindanao. PSS no. 1 was raised over eastern and Central Mindanao, eastern and Central Visayas and the Biicol Region. No damages and casualties reported.
4. T. DITANG May 10-21	1145-Tuguegarao 1140-Resor	956.0-Resor 993.6-Tuguegarao 995.0-Quigan	730.3-Boqui 191.2-Tuguegarao	DITANG crossed the western Cagayan on May 15, then recurved to the east northeast. It brought rains and gusty winds along the eastern section of Luzon. PSS no. 3 was raised over Catanduanes, Cagayan Norte and Surigao, Quirino, Cagayan, Mt. Province, Nueva Vizcaya, Ifugao, Isabela and Abra. PSS no. 2 over northern and eastern Samar, rest of Biicol, Quezon, Marikina, Nueva Ecija and rest of northern Luzon. PSS no. 1 over the rest of the Visayas, rest of Luzon including Metro Manila. Damages reported was P2,191,500.00 but no casualty was reported.
5. T.D. RUBING May 21-22	55-JHEV(ship) 45-ELHY "	1000.3-GZEV 1003.2-JHEV	26.2-Se. Garden	Originated in the South China Sea west of Bataan. Moved away from the country but induced the southwest monsoon which brought rains along the western section of Luzon. PSS no. 1 was raised over northern Visayas, Pampanga, Zambales and Bataan. No reported damage or casualty.

122-Virac R.	994.0-Recon	248.9-Baler	GLORING forced southeast of Guam and speedily tracked into the PAR
95-Recon	995.7-Baler	142.3-Cabanatuan	but slowed its pace prior to landfall south of Baler, Quezon. In
93-Virac		138.0-Daet	the morning of the 25th. It then crossed central Luzon and made
			its exit thru La Union and weakened into a LPA after recurring over
			Bashi Channel. PSS no.3 was raised over Bicol, Aurora, Nueva Ec-
			ija, and Nueva Vizcaya, Bulacan, Rizal, Benguet, Tarlac, Pangasinan,
			Kalinga-Apayao, Quezon, Quirino, Zambales, Pampanga, La Union, Ifo-
			gne and Ilocos Sur. PSS no.2 over Samar, Masbate, Romblon, Southe-
			Magalog Provinces including Metro Manila, rest of Central Luzon and
			rest of northern Luzon except Cagayan. PSS no.1 over the rest of
			the Visayas, Agusan del Norte and Cagayan. Damages amounted to
			P867,500.00 Casualty - 0.
85-Recon	992.0-Bagulo	146.3-Iloilo	HUANING crossed Visayas in the afternoon of the 23rd thru Northern
55-Guidua & Roxas	1005.5-Recon	110.0-Catbalogan	Leyte, northern Panay and Cebu. It intensified into a tropical
			storm before leaving the PAR. Rainy weather was experienced over
			southern Luzon including Metro Manila, Visayas and northern
			Mindanao. PSS no.1 was raised over central and southern Luzon in-
			cluding Metro Manila, Visayas and eastern Mindanao. Damage and
			casualty - 0
75-Bagulo R.	999.3-Bagulo	194.1-Pt. Princesa	ISANG developed east of Bicol and then crossed central Luzon thru
55-Iba & JAXP(ship)	998.5-DMM	114.9-Virac R.	Infanta, Quezon in the morning of the 1st of July. It induced the
		90.6-Iba	southwest monsoon flow that brought rains with occasional gusty
			winds over western Luzon. PSS no.1 was raised over Metro Manila
			and the rest of Luzon. Damage and casualty - 0
160-Recon	981.0-Recon	574.3-Calayao	LUSING upon its entry into the PAR, tracked west northwestward
110-Basseo R.	981.3-Basseo	167.0-Aparri	along south of Basco, Batanes in the evening of the 9th. Stormy
106-Ibayat	984.6-Ibayat	141.2-Iba	weather was experienced over extreme northern Luzon. PSS no. 3 over
	992.1-Calayao	136.6-Bagulo	Batanes, northern Cagayan, Ilocos Norte and northern Kalinga-Apayao
			PSS no.2 over the rest of northern Luzon and PSS no. 1 over the
			rest of Luzon including Metro Manila and Mindoro. Damage-6.5 M peso
			Casualty - 0
55-Infanta & Dagupan	1003.8-Bagulo	131.1-Baler	MARKING developed east of the Bicol Region crossing central Luzon at
45-Recon	1004.5-Iba	91.2-Ambuloag	a very fast rate. An apparent intensification of the southwest mon
			soon brought rains and occasional gusty winds over western Luzon.
			PSS no.1 was raised over Luzon including Metro Manila and Mindoro.
			No reported damage or casualty.

T.S. GLORING
May 22-26

T.B. HUANING
June 22-25

T.D. ISANG
June 30-July 2

T. LUSING
July 7-11

T.D. MARKING
July 16-17

1. KIRANG
 July 18-22
 KIRANG became a typhoon before unleashing its fury over the northern provinces of Luzon. PSS no.3 was hoisted over northern Luzon and Pangasinan. PSS no.2 over Metro Manila and the rest of Luzon while PSS no.1 was raised over eastern and central Visayas including Mindoro and Palawan. (for damages and casualties refer to P. Osang)

2. T. OSANG
 July 22-27
 OSANG entered the eastern boundary of the PAR as a storm and intensified further into a typhoon before cutting across northern Luzon. PSS no.3 was raised over Bicol, Quezon Provinces and northern Luzon. PSS no.2 over Metro Manila, rest of Luzon, Mindoro, Macbate, Samar, Marinduque while PSS no.1 was hoisted over the rest of the Visayas. Consolidated list of damages and casualties for KIRANG-1 OSANG: 2101,708,000.00 Dead-36 Missing-55 Injured-4

3. T.D. PARING
 August 15-17
 PARING developed east of Quezon then proceeded to areas Northern Luzon. Except for occasional rains and occasional gusty winds which was experienced mostly over the western section of Luzon there was no other significant effect brought about by this depression. PSS no.1 was raised over Metro Manila and the rest of Luzon. Casualty and damage- 0.

4. T. REMING
 August 24-28
 REMING passed about 400 kms. northeast of Batanes hitting northern Taiwan. The southwest monsoon was cut off by the presence of a low pressure area west of Luzon. PSS no.2 was hoisted over Batanes while PSS no.1 was raised over the rest of northern Luzon. It had no significant effect on the country.

5. T.D. SEMIANG
 August 30-Sept.4
 SEMIANG developed east of Surigao and traversed southern Luzon at a fast pace of 22 kph. PSS no.1 was raised over Metro Manila, northern Tagalog Provinces, Mindoro, Batan, Eastern Visayas and northern Mindanao. No reported damage and casualty.

6. T. TOYANG
 Sept. 9-10
 TOYANG passed over the northeastern boundary of the PAR and had no effect on the country. No storm signal was raised.

7. T. URDANG
 Sept. 14-18
 URDANG passed 120 kms. north of Batanes. It induced the southwest monsoon which dumped rains over Luzon and Western Visayas. PSS no.3 was raised over Batanes. PSS no.2 over Cagayan, Isabela, Ilocos Norte and Sur, Kalinga-Apayao, Abra and Mt. Province. PSS no.1 was raised over the rest of Luzon including Mindoro. No reported damage and casualty.

18. T. WEIPRING October 10-12	1240-Recon	893.C-Recon	none	WELPRING passed about 600 kms. northeast of Batanes and brought me significant effect. PSS no.1 was raised over Batanes.
19. T.B. YOHING October 20-30	75-Daet R., Bague R., Sagley Pt & Suble R.	998.0-Recon 1001.0-Suble B.	253.2-Infanta 228.0-Legaspi 225.7-Tayabas 170.0-Daet 150.8-Tuquegama	YOHING crossed eastern Samar, northern Quezon, southern Tagalog provinces and made its exit into the South China Sea thru Batan. Heavy weather with occasional gusty winds was experienced over the entire archipelago. PSS no.1 was hoisted over Metro Manila, rest of Luzon including Mindoro, Northern and central Visayas and north eastern Mindanao. Damages: P1,655,000.00 No casualties reported.
20. T. ARING November 1-7	1240-Recon 1210-Casiguran 1165-Virac 1150-Baler 1126-Calayay 1120-Daet 1115-Dagupan	926.0-Recon 955.9-Baler 979.3-Tayabas 980.1-Infanta 981.5-Casigu- ran 983.5-Bagude 985.5-Cabana- tuan	698.7-Bagude 297.2-Cabaxatuna 210.0-MIA 189.0-Virac 144.2-Calayay 129.4-Daet 122.7-Baler	ARING made its landfall between Baler and Casiguran, Quezon about midnight of November 4 then cut across Quirine, Nueva Vizcaya, Zamboanga and the Ilocos then recurved passing between Batanes and Taiwan. Stormy weather prevailed over Luzon. The heavy rains brought about flooding in low-lying areas of central and northern Luzon. PSS no.2 was raised over northern and central Luzon including Metro Manila, Southern Tagalog Provinces and Bicol Region. PSS no.2 over Samar, Mindoro, Mindanao and Kinabalu while PSS no.1 was hoisted over the rest of the Visayas. Damages-P1,355,471,000.00 dead-103 missing-25 Injured -1,384,053.
21. T.D. BASIANG November 11-13	65-Culuan	1006.4-Hinatuan	126.5-Catbalogan	BASIANG crossed the Visayas on November 12 and brought rains over Central and southern Luzon, Visayas and Mindanao. PSS no.1 was hoisted over Metro Manila, Southern Tagalog Provinces, Bicol Region, Zamboanga, Batangas, Visayas and northern Mindanao. Damages amounted to P191,000.00 Casualty - 0
22. T.D. KAYANG November 20-22	55-UJT(ship)	1005.7-UJTT	none	KAYANG passed thru the northeastern boundary of the PAR then recurved thus sparing the country. No storm signal was raised. It had no significant effect on the country.
23. T.S. DORANG December 15-21	95-Escon 80-Daet 75-JKMP(ship)	989.0-Recon 1001.6-Berengani 1001.9-Hinatuan 1003.0-JKMP	100.0-Culuan R. 80.0-Infanta 70.0-Daet 50.0-Cataram	DORANG developed east of the Visayas, moved westward and veered to the north. It then made a series of loops before it was pushed southwards by a high pressure area and finally dissipated east of Tasehax City. Except for occasional rains, DORANG had no significant effect on the country's weather. PSS no.2 was raised over the Bicol Region and northern Samar while PSS no.1 was hoisted over eastern, northern and central Visayas, rest of southern Luzon, Metro Manila, Rizal, Bulacan, Aurora, Central Quezon, Cagayan, Isabela and Quirine. No reported damages.

(注)

本資料はフィリピン人造りセンター
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基礎的参考資料として準備したものである。

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