## APPÈNDIX 4

Basic Data Lists of Property

Population Area
Livestock and Poultry on Farms
Mineral Production
Manufacturing Production
Private Building Construction
Commercial Trade Total Gross Receipts
School
Crops Production
Fishpond Production
Household

### ° Fishpond Production

### Production and Area of Fishponds in Operation

1973

	Production (t)	roduction (t) Area (ha)	
Philippines	97,900	171,000	434,000
Region I Pangasinan	7,900 7,500	10,000 9,400	
Region III Tarlac	26,000	30,000	
The State of the S	the particular of		
Region V	3,700	10,000	
Camarines S Albay	663 99	3,314 497	
Region II	106	530	
Cagayan	91	455	
Isabela	15	7 <b>4</b> , a la c	Park to the

Source: Fisheries Statistic of the Philippines Bureau of Fisheries

Quantity and Value of Fish Production by Source Production

Year	Fish:	ponds
Tour	Quantity (t)	Value (x10 <sup>3</sup> ₽)
1972	98,923	332,379
1971	97,915	328,016
1970	96,461	252,727
1969	94,573	191,038
1968	86,711	182,441
1967	63,912	135,493
1966	63,654	129,855
1965	63,198	106,172

Source: Fisheries Statistic of the Philippines Bureau of Fisheries

### b. Retail Trade

### Summary Statistics for Retail Trade by Region

1971

	Number of Establish- ments	Employ- ment	Total Payrolls for Paid Employees (x10 <sup>3</sup> )	Total Benefits for Paid Employees (x10 <sup>3</sup> f)	Gross	Total Operating Costs (x10 <sup>3</sup> ¢)	Gross Margin (x10 <sup>3</sup> f)
Philippines	220,795	632,965	458,657	10,268	11,757,689	791,486	10,966,203
Region I Pangasinan	16,008 7,411	39,355 18,000		161 75	443,131 205,000		414,865 192,067
Region III Tarlac	22,791 3,438	55,607 6,000	27,478 4,100	530 80	898,472 136,000		847,408 127,814
Region V Camarines Albay	14,215 4,542 3,231	37,919 12,000 9,000		230 73 52	380,044 21,000 86,000	8,391	353,780 713,029 80,405
Region II Cagayan Isabela	8,724 2,998 3,343	26,437 9,000 10,000		42 14 16	284,508 98,000 109,000	4,201	272,284 93,568 104,323

Source: National Census and Statistics Office

### ° School

### Summary Statistics for School by Province

	Private Schools	Public Schools
Pangasinan	133	1,459
Tarlac	40	589
Camarines S	53	998
Albay	50	709
Cagayan	61	612
Isabela	39	682

### Elementary, Secondary and Collegiate Enrolment in Public and Private Schools 1975 ~ 76

		Elementary	Secondary	Collegiate	
.	Philippines	8,653,937	2,294,543	916,190	

Source: National Census and Statistics Office

## ° Private Building Construction

# Number, Floor Area and Value of Private Building Construction

for Selected Areas 197

	Number	Floor Area (x10 <sup>3</sup> P)	Value (x10³∉)
All selected areas	19,589	2,746	529,811
Manila	2,124	316	72,893
Suburbs	5,329	1,333	291,769
Other (32) Chartered Cities	12,136	1,096	163,148

Source: National Census and Statistics Office

### ° Commercial Trade Total Gross Receipts

### a. Wholesale Trade

### Summary Statistics for Wholesale Trade by Region

1971<sub>. No. 3</sub>

	Number of Establish- ments	Employ- ment	Total Payrolls for Paid Employees (x10%)	Total Benefits for Paid Employees (x10 <sup>3</sup> #)	Gross Receipts	Total Operating Costs (x10 <sup>3</sup> //)	Gross Margin (x10 <sup>3</sup> 2)
Philippines	4,593	62,405	245,183	4,919	10,439,213	592,608	9,846,605
Region I	372	3,234	9,284	173	334,894		318,764
Pangasinan	172	1,497	4,298	80	155,044		147,576
Region III	232	2,542	10,510	163	303,794	•	291,593
Tarlac	35	383	1,585	25	45,821		43,981
Region V	480	3,636	7,685	79	397,804	5,633	380,174
Camarines	153	1,162	2,455	25	127,094		121,461
Albay	109	826	1,747	18	90,410		86,403
Region II	140	1,374	2,988	10	152,062		143,748
Cagayan	48	472	1,027	3	52,255		49,398
Isabela	54	526	1,145	4	58,261		55,076

Source: National Census and Statistics Office

### ° Household

Total Number of Families and Total and Average Family Income
1971

	No. of Families (x10 <sup>3</sup> g)	Family Income (x10 <sup>3</sup> g)	Average Incom (x10 <sup>3</sup> g)		
Philippines	3,959	5,824,296	1,471		
Region I	296	1,261,079	4,255		
Pangasinan	243	1,035,278	4,260		
Region III	1 <b>90</b>	242,374	1,273		
Tarlac	39	49,750	1,276		
Region V	477	717,887	1,504		
Camarines S.	180	270,901	1,505		
Albay	in estatul <b>140</b> die 159	210,701	1,505		
Region II	286	369,315	1,292		
Cagayan	119	153,666	1,291		
Isabela	133	171,744	1,291		

Source: National Census and Statistics Office.

# 5. Basic Data Lists of Property

# ° Population Area

Population

	Flooded area	Province area		
Agno river basin	500,000	1,945,851		
Pangasinan	400,000	1,386,143		
Tarlac	100,000	559,708		
Bicol river basin	200,000	1,622,417		
Camarines S.	150,000	948,436		
Albay	50,000	673,981		
Cagayan river basin	180,000	1,229,360		
Cagayan	100,000	581,237		
Isabela	80,000	648,123		

# Target Area

	Flooded area	Province area		
Agno river basin	1,538 km <sup>2</sup>	8,422 km <sup>2</sup>		
Pangasinan	1,181	5,368		
Tarlac	357 (38) (1944) (37) (37) (37)	3,054		
Bicol river basin	568	7,820		
Camarines S.	480	5,267		
Albay	188 (1.15) No. 100	2,553		
Cagayan river basin	1,416	18,252		
Cagayan	864	8,139		
Isabela	552	10,113		

### ° Crops Production

# Croplands-Distribution by Major Crops in Philippines by the Region, 1974

 $x10^3$ ha

<del></del>		<u>.                                    </u>		Sugar		<u> </u>		210 110
	Total	Palay	Corn	Cane	Tobacco	Coconut	Abaca	Others
Philippines	10,117	3,437	2,763	491	59	2,206	170	991
Ilocos	559	351	63	6	14	11	-	114
C. Luzon	687	507	58	59	2	6		55
Cagayan	791	393	316		31	4	-	47
Bicol	889	341	151	4	<del>-</del>	221	70	102

# Value of Agricultural Production in Philippines

by the Region, 1974

x10<sup>6</sup>tor

	Total	Palay	Corn	Sugar Cane	Tobacco	Coconut	Abaca	Others
Philippines	17,546	5,594	2,289	3,450	48	1,800	126	4,239
Ilocos	1,009	540	35	19	11	13		391
C. Luzon	1,794	1,098	34	326	-	-	-	336
Cagayan	1,108	669	253	1	25	<b>.</b>	~	160
Bicol	1,292	548	102	11	-	91	61	479

## Production of Agricultural Crops in Philippines

by the Region, 1974

x10° €

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	Total	Palay	Corn	Sugar Cane	Tobacco	Coconut	Abaca	Others
Philippines	17,763	4,960	1,537	3,021	152	3,705	375	4,013
Ilocos	1,108	496	31	21	37	18	_	505
C. Luzon	1,900	1,101	35	287	2	-	<u></u>	475
Cagayan	943	552	161	1	77	-	. ==	152
Bicol	1,248	462	72	11	1	204	211	287

Source: Bureau of the Census and Statistics

### Mineral Production

### Mineral Production of Region and Province

1972

	Metallics	Non-Metallics	Total
	(x10 <sup>3</sup> g)	(x10 <sup>3</sup> P)	(x10 <sup>3</sup> g)
Philippines	1,778,232	466,861	2,245,093
Region I	92,749	46,183	1,389,932
Pangasinan	6,361	27,920	34,281
Region III	62,934	116,307	179,241
Tarlac		100	100
Règion V	40,084	1,093	41,177
Camarines S.		108	108
Albay		160	160
Region II		677	677
Cagayan		308	308
Isabela		143	143

Source: Bureau of Mines.

# ° Manufacturing Production

# Manufacturing Industry, General Information in Region

1968

.:.	Firms	Employment	Value of Fixed Asset x10 <sup>3</sup> f	Value of Production x10 <sup>3</sup> ₽
Philippines	4,260	365,827	4,196,000	10,553,000
	.,		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
Region I	85	2,978	30,200	90,200
Pangasinan	52	1,372	4,600	24,900
Region III	264	17,907	691,400	1,031,500
Tarlac	13	1,354	3,600	65,700
į				14 feb a 2
Region V	107	2,393	5,900	155,600
Camarines S.	54	1,202	3,700	16,500
Albay	24	380	1,000	139,100
Region II	90	3,787	11,600	55,300
Cagayan	29	945	6,900	22,800
Isabe <b>l</b> a	40	1,718	3,400	18,200

# Livestock and Poultry on farms

# Population of Livestock and Poultry in Region 1970

 $\times 10^3$ 

	Total	Carabao	Cattle	Swine	Horses	Goats	Chicken	Ducks
	10fa1	Carabab	Cattle	owrue	norses	Goats	Curcken	Ducks
Philippines	119,879	4,750	2,143	10,914	520	2,205	94,468	4,877
Region I	9,864	513	368	1,074	47	233	7,497	130
Pangasinan	4,494	230	123	469	21	107	3,468	72
Region III	12,208	572	85	723	33	172	9,895	728
Tarlac	1,902	128	3	163	<sup>1</sup> 3	59	1,492	54
Region V	9,136	426	92	974	90	67	7,212	252
Camarines S.	3,334	145	20	399	2	16	2,641	109
Albay	1,652	71	12	176	1.	6	1,320	64
Region II	7,873	469	121	853	25	36	5,901	465
Cagayan	2,504	177	21	285	11	11	1,929	48
Isabela	2,558	161	38	308	7	10	1,967	64

Source: Bureau of Animal Industry.

#### 1973

	Tota1	Carabao	Cattle	Swine	Horses	Coats	Chicken	Ducks
Philippines (x 10 <sup>3</sup> )		4,937	2,099	8,627	**	1,248	49,965	2,906
Philippines (x 10 <sup>6</sup> 2)		2,051	784	753	-	30	165	10

Source: Bureau of Animal Industry.

### APPENDIX 5

### Flood Hydrographs and Hyerographs

The Agno River Basin

Oct. 1967

Aug. 1968

Oct. 1968

July, Aug. 1969

Sept. 1970

July., Aug. 1972

Oct. 1973

Oct. 1974

Sept. 1975

May, June. 1976

The Bicol River Basin

Sept. Oct. 1968

Dec. 1969, Jan 1970

Oct. Nov. 1970

Dec. 1971, Jan, 1972

June, July 1972

Oct. 1973

Dec. 1973, Jan. 1974

June . 1974

Dec. 1974, Jan. 1975

Dec. 1975

Jan. 1976

The Cagayan River Basin

June, July 1967

Ang. 1967

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Sept. Oct. 1968

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Oct. Nov. 1970

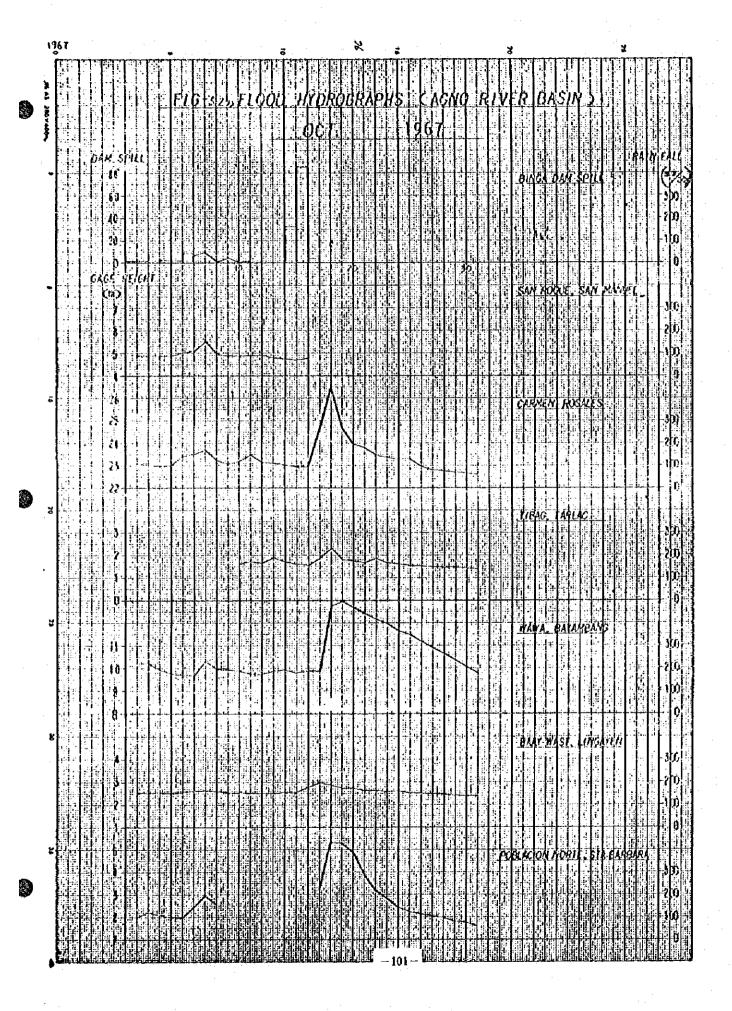
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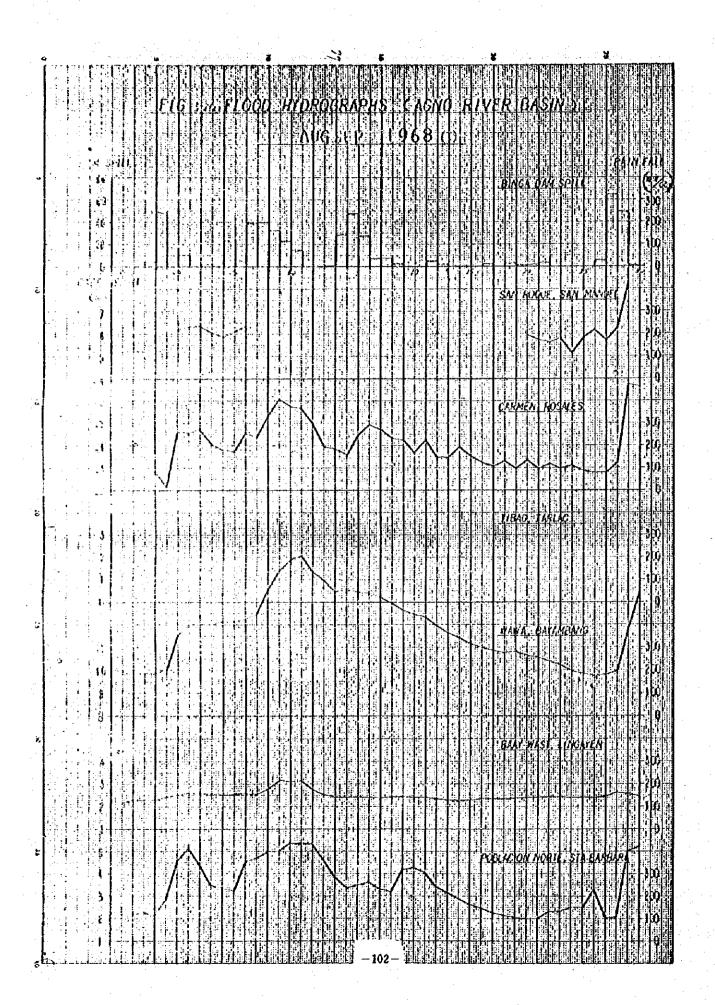
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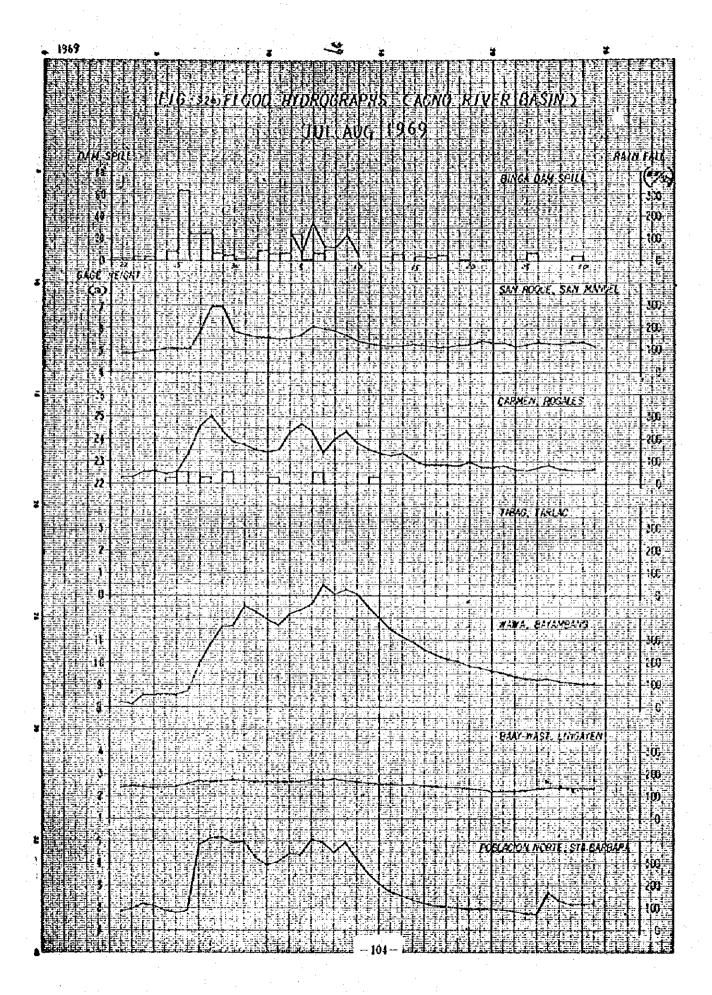
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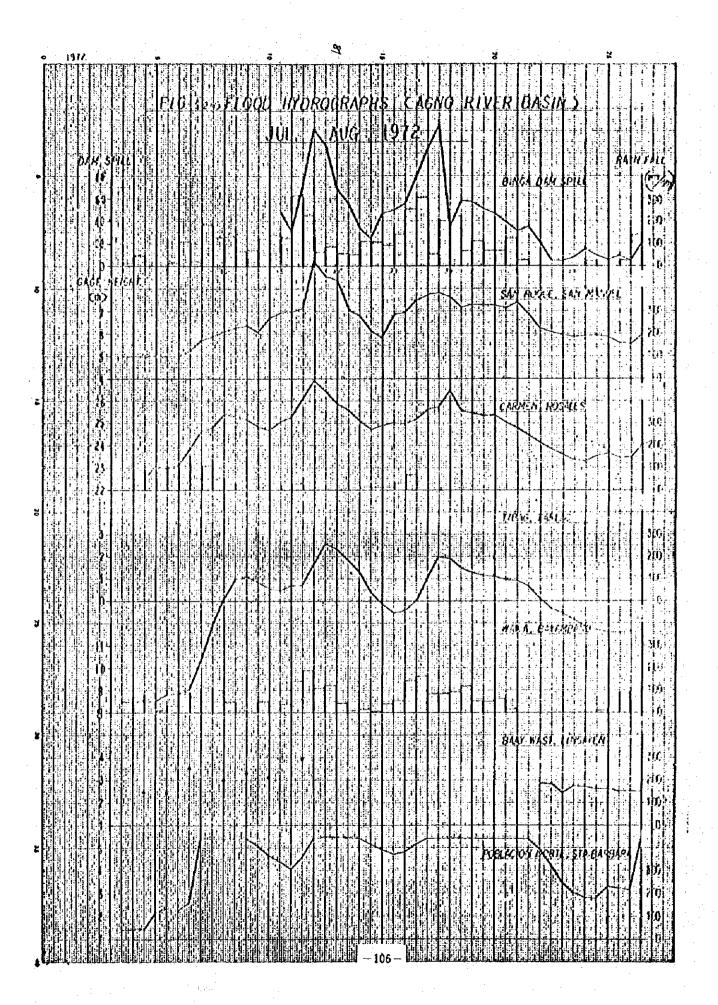




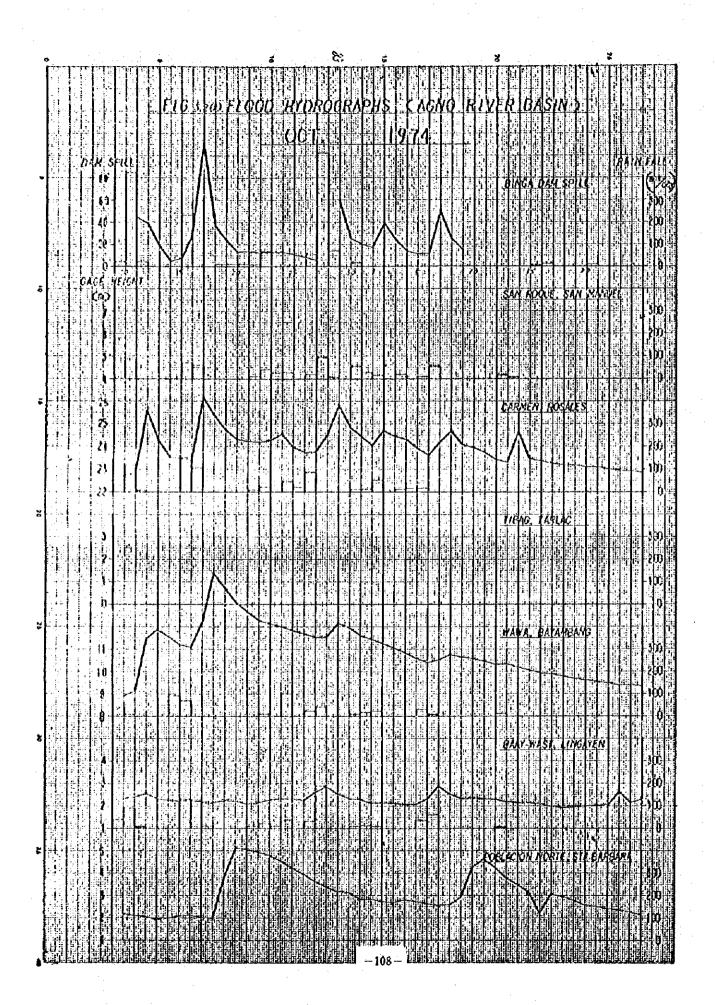
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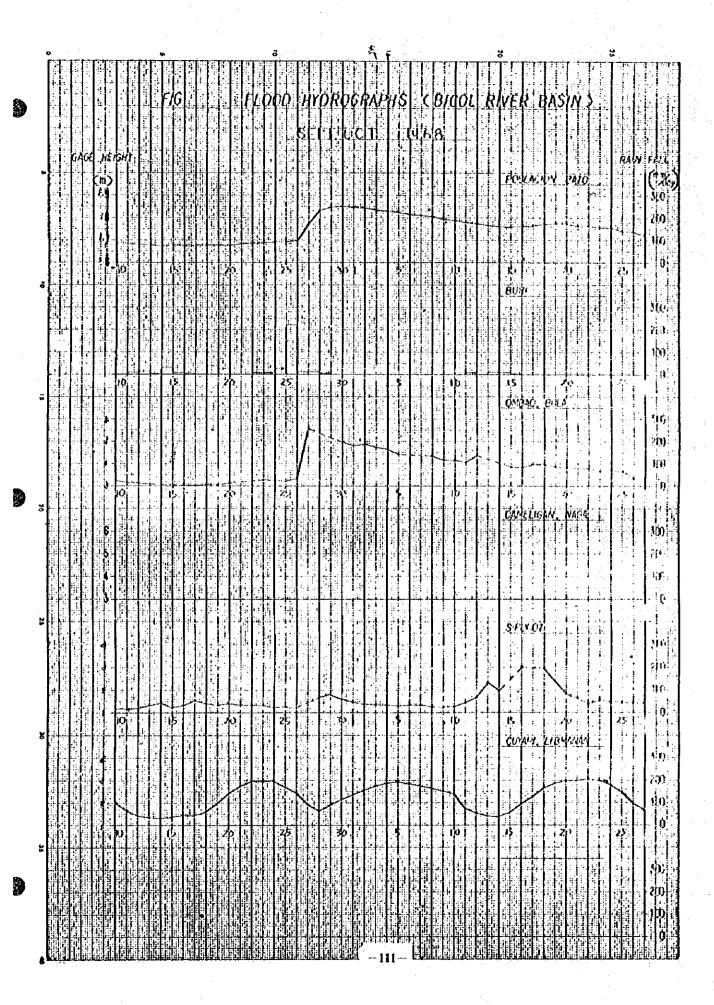
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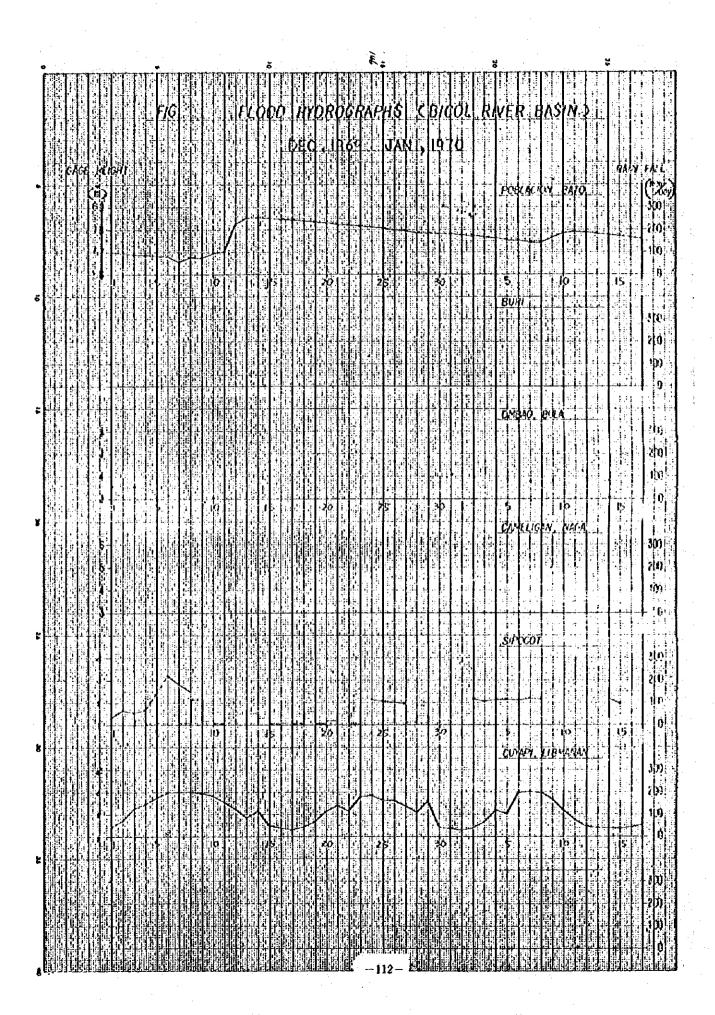


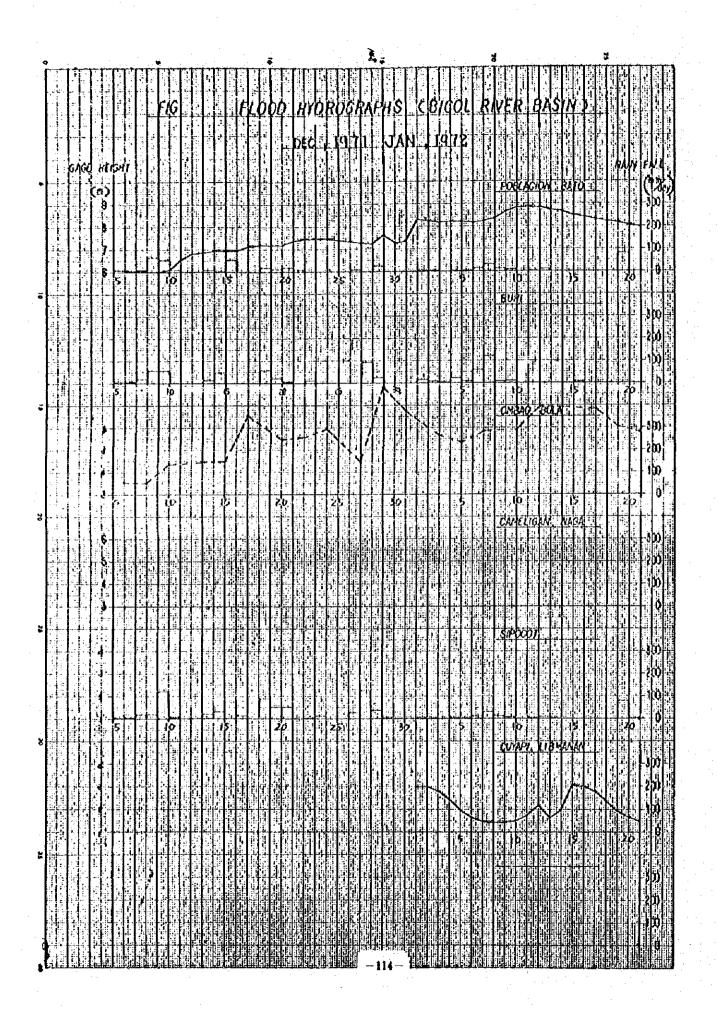
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