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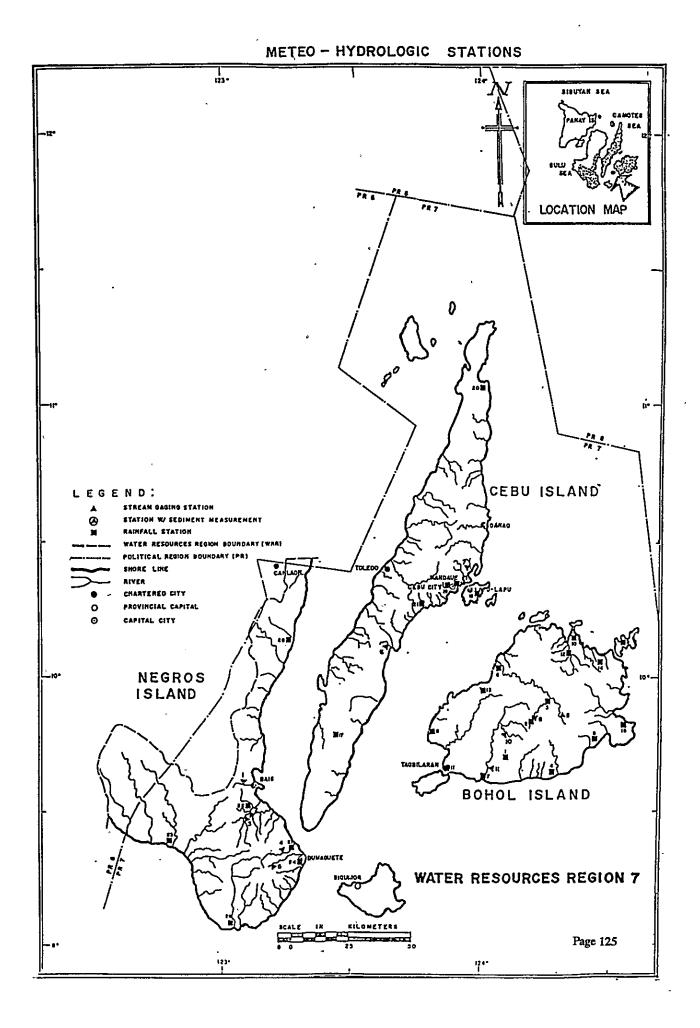
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Figure III.7.3 Data Availability of Streamflow Station in Region VII REGION 7 - CENTRAL VISAYAS

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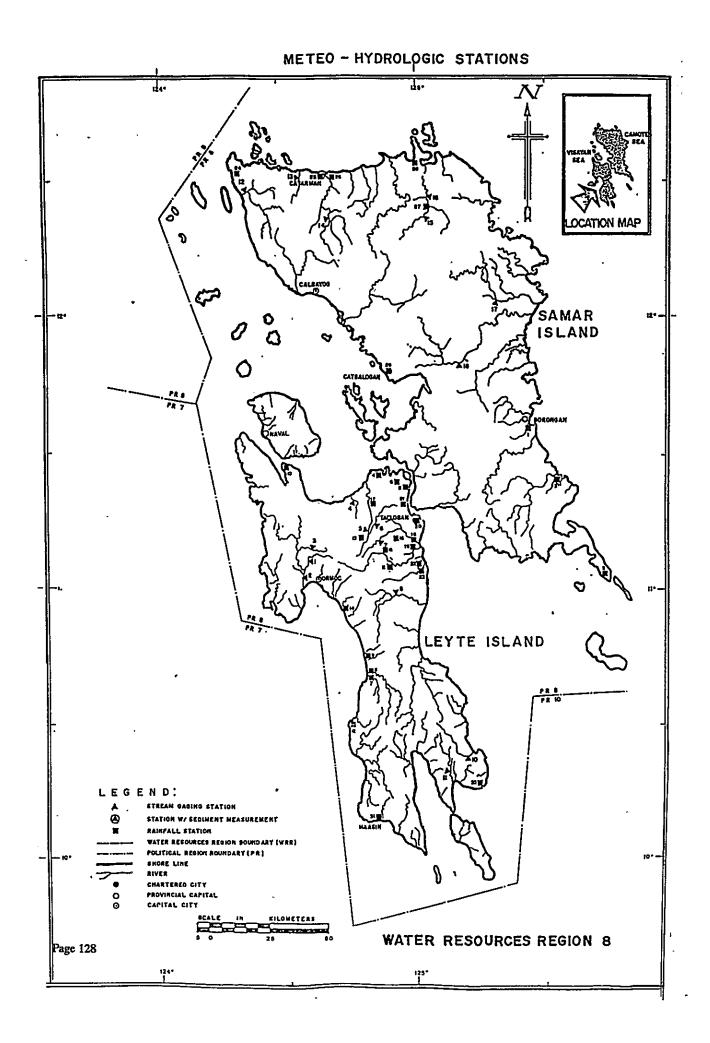


Figure III.8.2 Data Availability of Rainfall Station in Region VIII REGION 8- EASTERN VISAYAS

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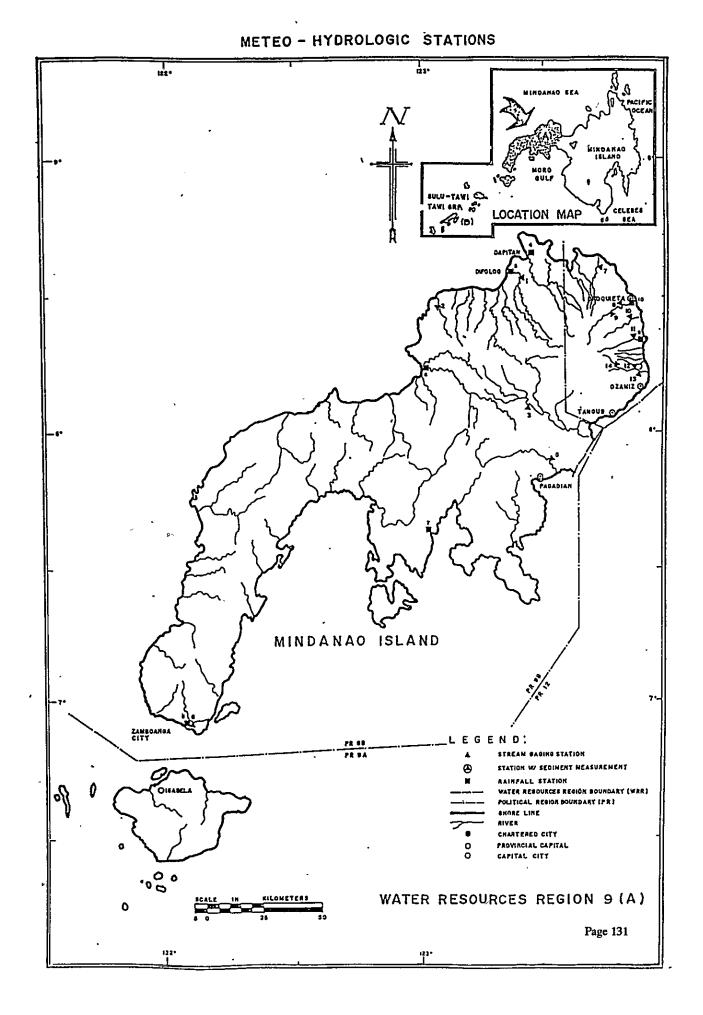
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HISTORICAL STREAM FLOW RECORDS

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Figure III.8.3 Data Availability of Streamflow Station in Region VIII REGION8 - EASTERN VISAYAS



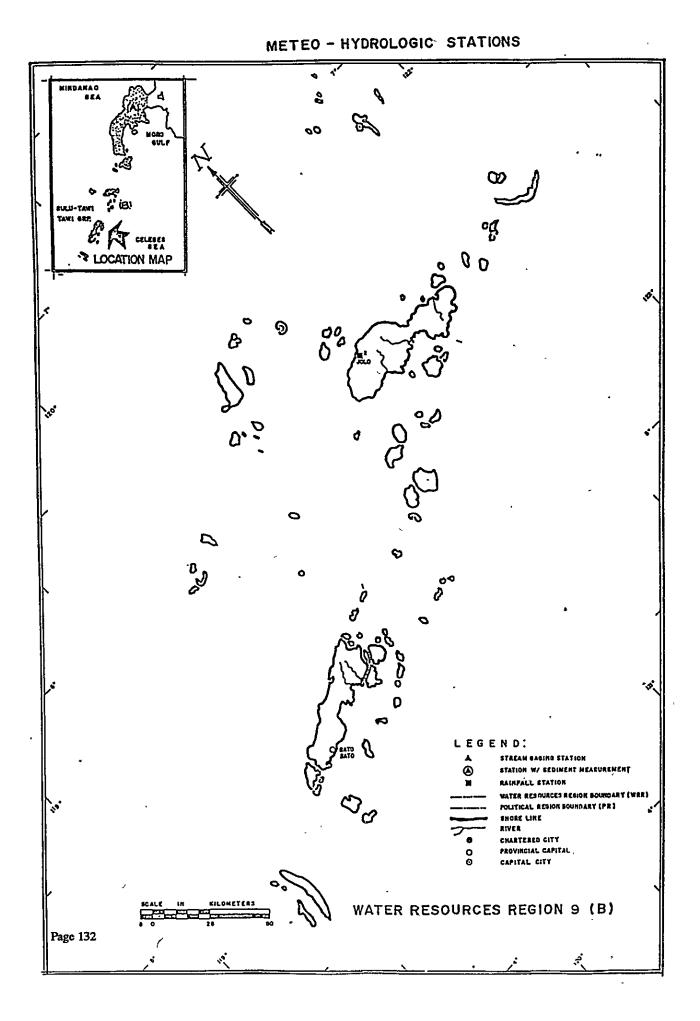


Figure III.9.2 Data Availability of Rainfall Station in Region IX REGION 9 - SOUTHWESTERN MINDANAO

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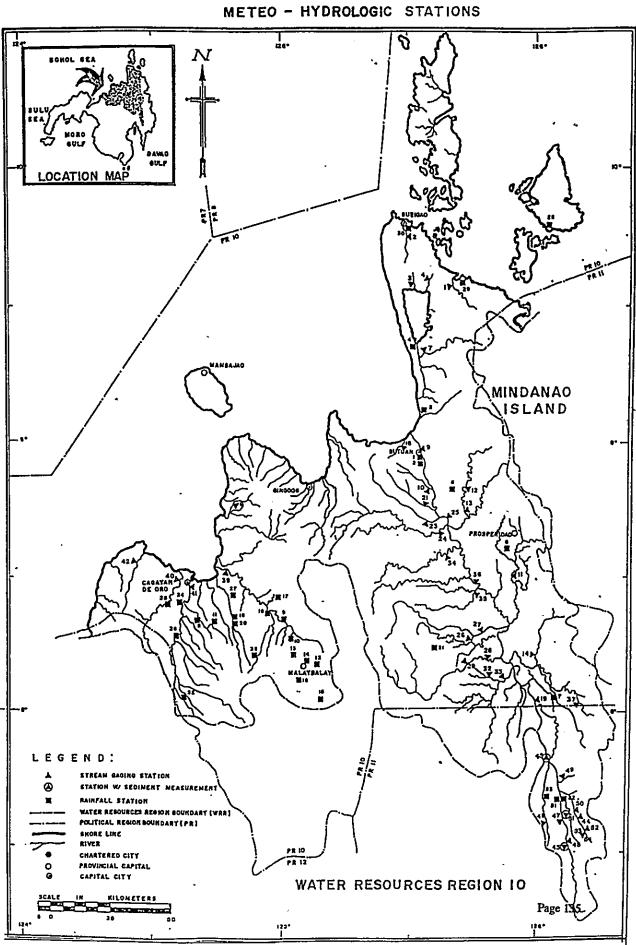
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Figure III.10.3 Data Availability of Streamflow Station in Region X (1/4) REGION 10 - NORTHERN MINDANAO

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	Bacuag River - Paotao, Bacuag, Surigao del Sur	9-37 1	125°37	2	TRANS D TO	NR	_													╡	╡	
	•			-	NWRC					_								-	╡			
4	Surigao River - Luma, Surigao, Surigao	4	125-25	101	-9- -9-	AR															4	
ŗ.	Mas-in River - Nasisi, Ormoc City	- 25 -	82.SI	14	- 99 -	Ĕ															╡	
4	Sougley Creek - Tubod, Mahrit, Surigao	- ZE -6	125-34	2	-do -	-95-										┎╴┨ ┠╼╋			╡		+	,
~	Tubay River - Jabonga, Agusan del Norne	1 61 8	125-32	229	NPC					-											╡	Report semi-annually
ъ	Puyo River - Bongbong, Jabonga, Agusta del Norte	9 20.	125* 31'	. 112	- ob -															-	_	Report semi-annually
~	Kalinawm River - Colorado, Jabonga, Agusan	9-19 125-31	16.25	470	MPW	Ĕ											-				_	
	diel Northe																-		╡			-
•0	Asiga River - Santiago, Aguan del Norte	9 IG 1	125-32	\$	NPC												_					Report semi-annually
~	Agusan River - Bit-os, Butuan City	- 25 - 2	125-30	11, 140	11, 140 CARBDP, NPC	٤		E									_					Installed by NPC as per
		┢	╞			┢		_								_					÷	request of CARBDP
ġ	Bugabus River - Bugabus, Butuan City	 12 12	125°35	H	2 N	É	E									1		_			2	Proposed to be converted to
		┢				┢╴								-				_				AR
Ħ	Agusan River - Magsayray Bridge, Buttan City		125°3Z	11,785	MPW	ş	E			E											-	Abardoned
4	Masao River - Masao, Buthan City	8-55 125-30	25°30	z	55 CARBDP, NPC	Å	E															Measures tide! Invols
5	Gibong River - Babbah, Prosperidad, Aguana	1.27	35 571	\$	MPW, NPC	ž	E															Established by MPW
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ž	Waws River - Stingat Beyugan, Agusta del Sur	- +2	125-42	ส	\$	- do -		_											I		-	Established by MPW
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ž.	Andaria River - Bryugan, Agusan del Sur	42	21-12	ឆ្ក	4	- 90 -																Established by MPW
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<u>16</u>	Bunawan River - Bunawan, Bunawan, Aguann	1	125* 59	141	-də-	- do -									₽₽			-			_	Established by MPW
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17.	Kasilayan Riwer - Baylo, Talacogon, Aguam dal Sur	8" 27	125-42	209	TRANSTD TO	- op -				_				_								
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18.	Agusan River, Sta. Josefa, Agusan dol Sur	8-01' 125-59	25° 39	1,648	MPW	\$	_	_						_		_		_	=			Abundcood
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HISTORICAL STREAM FLOW RECORDS

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Figure III.10.3 Data Availability of Streamflow Station in Region X (2/4) REGION 10 - NORTHERN MINDANAO

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STATION		COOR	COORDINATES	AREA	MAINTAINED									P B I	RIO	Δ	Ч Ч	R B C	0 8	۵								
Ő	RIVERSA.OCATIONS	LAT.	LAT. LONG.	SQ.XM.	вү	C BULL	(161 9161	0561 6961 8961	1561	5561 1561 5561	<u>2561</u> 9561	0961 6561 0561	7961 1961	\$961 1961 (961	2961 9961	1830 1868 1868	1161	1461 6461	<u>1161</u> 9161 5161	6461 \$461	1951 _0961	2061 2061	2861 2861 2861	8961 2461	1661 0661	(661 (6661	9661 6661	REMARKS
19.	Agusan River - Sta. Josefa, Agusan del Sur	7-59	125° 01'	122,1	- ob -	Ę										=		-										Abardoned by MPW & to be
	-								İ						•			_										relabilitated by CARBDP
ส่	Ojot River - Tagabase, Espanaza, Agusta del Sur	37-2	12° 34'	121	NPC		-		_																			Report twice a yr.
21.	Ojot River - Studine, Tagabase, Esperante,	D* -8	¥ .571	8L7	ģ.	Ĕ	E		-			╞						1	 	╠╴		_		_				NPC renders report to
	Aşusan del Sur									╞	E	┢			E	⊨												CARBDP semi-semually
ส	Wawa River - Wawa, Esperanza, Agusan del Sur	8.47	125-41	166	waw	ŝ	-				E	Ľ														—		Abradoned by MPW
ม่	Builso River . Milagros, Esperanza, Aguan	96.3	125° 34'	316	MPW, NPC	÷	-		F	┢			-	╞═			╟╴	Ħ-	╬╴	╟╴	F	╞					E	Abundoned by MPW &
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z	Librag River - Tahena, Esperanza, Aguan del Sur	£E • 3	125-35	245	2 E	÷	-		-				F	-				-	╠	<u>t</u> ∎	-						E	NPC moders report to
							╞			╞			E					_	1		 						E	CARBDP twice a yr.
ਸ	Confluence of Ojot and Busilan River - Remodior,	44	125°35	728	-8	ş	<u> </u>		E	╞				╞				-	┢╴	∦ ∎	F					F	E	NPC renders a report to
	Esperanza, Agusan dal Sur								E					-				—	╞					5			E	CARBDP twice a day
শ্ন	Cayawm River - Langasian, La Paz, Aguam del Sur	8° 15	125" 45	348	MPW, NPC	Ĕ			-					⊨								╞	,				E	Abradoned by MPW
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27.	Adgaten River - Halapitan, La Paz, Agusan del Sur	21 .2	125° 45	\$20	- do	- do -								_	12			ļ		E		_		_				Abendoned by MPW
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ส่	Bagui River - Casapa, Lowm, Aguana del Sur		125° 51'	627	NPC	-do-													_	H	L							NPC gives report to
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23.	Casapa Creek - Casapa, Loreto, Agusen del Sur	8-10	125 43	698	-do-																							Report twice a yr.
30.	Andatum River - Sinandigan, Sa. Irene,	8° 46	125-45	£58	- 99 -	- do -	_				_					_			_		_							Report twice a yr.
1	Bayugan, Agusan del Sur					-	<u> </u>		=				-	╞				—				=		1			E	
31.	Umsyan River - Waloe, Loreta, Agusen del Sur	£, 12	125*47	745	- do -		-		=		\vdash	E		╞		-		F			-				E		E	Report Iwice a yr.
32	Umsyam River - Sto. Tomes, Lowto, Agusen	8° 11'	125* 49	727	- do -	R		-	_			-		-	_	-		=					E	F				NPC gives report to
	del Sur										_			<u> </u>			E		 		-	╞			-	╞	E	CARBDP
ä	Ihaom River - Nuova Gricie, Loreta, Aguen	10	125-53	740	MPW, NPC	-do-											E	F				⊨				⊨	E	Abrodoned by MPW &
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HISTORICAL STREAM FLOW RECORDS

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Figure III.10.3 Data Availability of Streamflow Station in Region X (3/4) REGION 10 - NORTHERN MINDANAO

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34	Maaam River - Nuevo Trabejo, Sen Luis,	8° 31'	125-43	416	NHC	ŝ						-					I.	╪		+			+	
	Agusto del Sur										1			_			-		╡		1			CAKBUF
ž	Laminga River - Don Alajandrine, San Luis,	ر 22	125-45	lot	- ap -	- 00 -							_	_			H	_		_				NPC reader report to
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ļ	ernenn Arusen det Sur	¥° 2%	129-47	14.824	MPW.NPC	ž													_					Re-established by NPC
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1	Balantan River - Napaliran, Balingraay,	74.8	124-45	114	TRANSTD TO	\$	E	E				, , ,								_				
Г	Missmis Orientel				NWRC												_				∃			
ŝ	Tagoloan River - Tagoloan, Sta. Cruz,	37	71 124 47	1,656	- do -	- op-												1						
1-	Missmis Oriental													_										•
4	Iponan Riwer - Pagatpat, Cagayn del Ovo City	¥1 10	124-20	351	- ob -	- ab -													_				╡	
4		**	124° 38	166,1	\$	- ob -											_					╡	╡	
4	Alubijid River - Munsy, Alubijid, Misamis Oriental	7. 10	12.021	¥	- ob -	- op -															-			
	Aguaa River - Camahagan, Campostela, Davio	224	126* 06	343	-op-	- ab -				_			1					╢						
1						_			_							-	_	_	_					
4	Callawrn River - Ander, New Batam, Davao	SE -L	126° 10'	5	MPW, NPC	R															_	=		Nowly ostablished by
	del Norte																	_						NPC
\$	Agusan River - Kalaw Bridge, Monkeyo, Duvao	7 50	12.6° OF	1,355	CARBDP, NPC	- 99 														-		-	- B	Re-established by MPW as
†-	del Nors						-								<u> </u>						_	_		per request of CARBDP
4	r - San Fernando, Now Battan	7.31	126*07	246	MPW, NPC		E																	Abendoned by MPW
t	Derveo del Norte		Γ			-														_			╡	& re-installed by NPC
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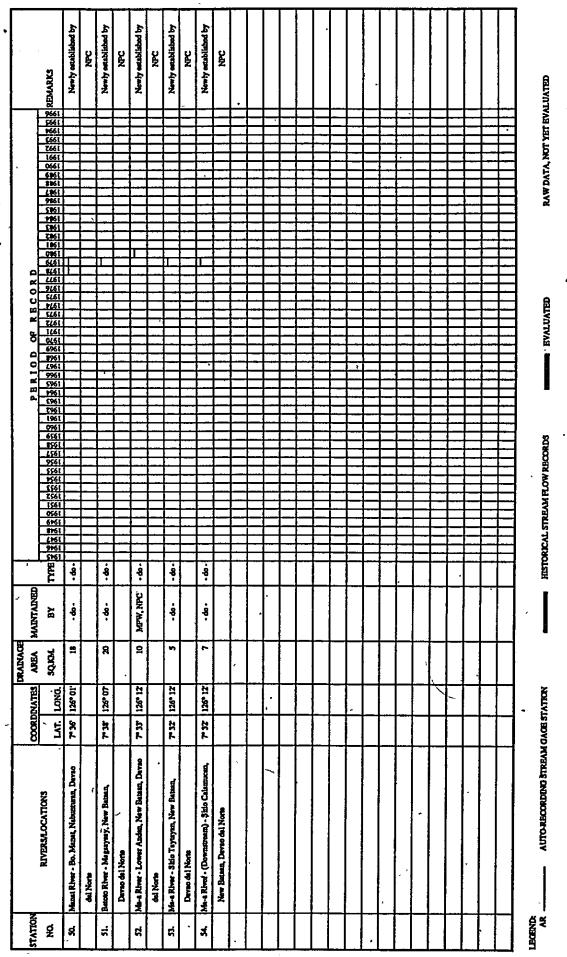
HISTORICAL STREAM FLOW RECORDS

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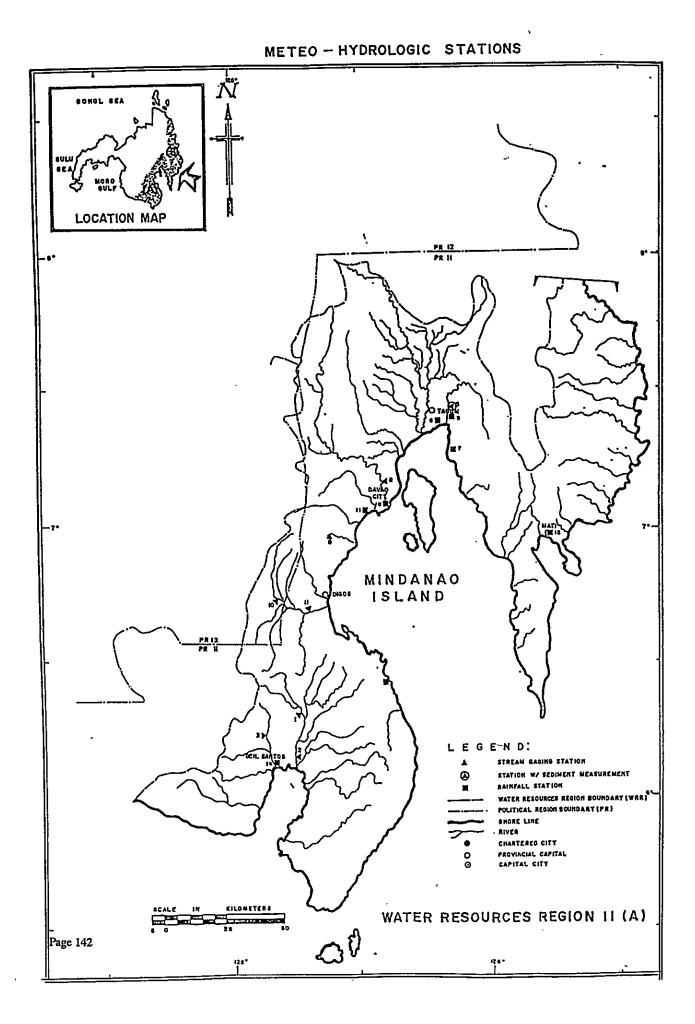
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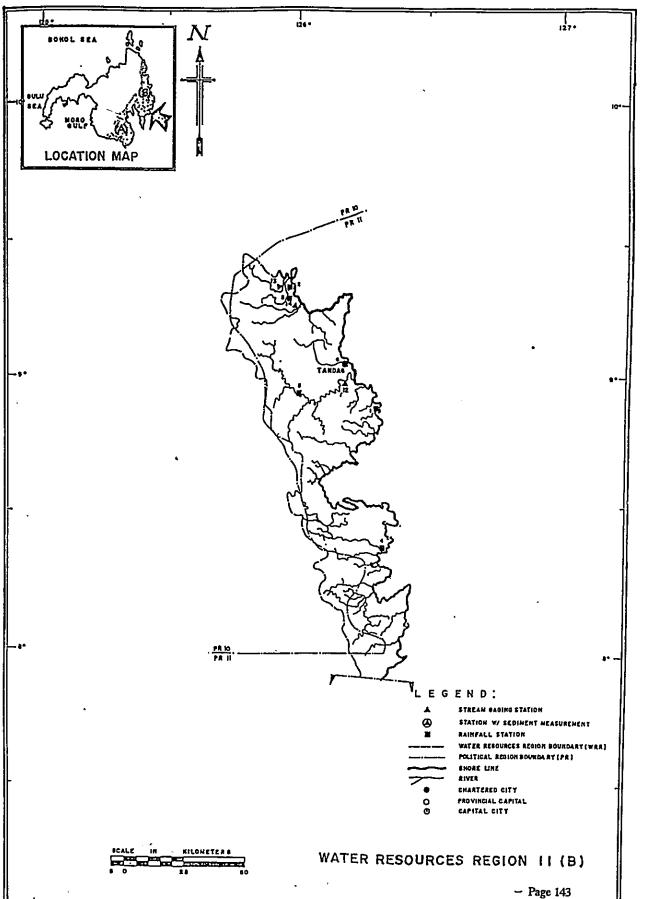
Figure III.10.3 Data Availability of Streamflow Station in Region X (4/4) REGION 10 - NORTHERN MINDANAO



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METEO - HYDROLOGIC STATIONS

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Figure III.11.3 Data Availability of Streamflow Station in Region XI REGION 11 - SOUTHEASTERN MINDANAO

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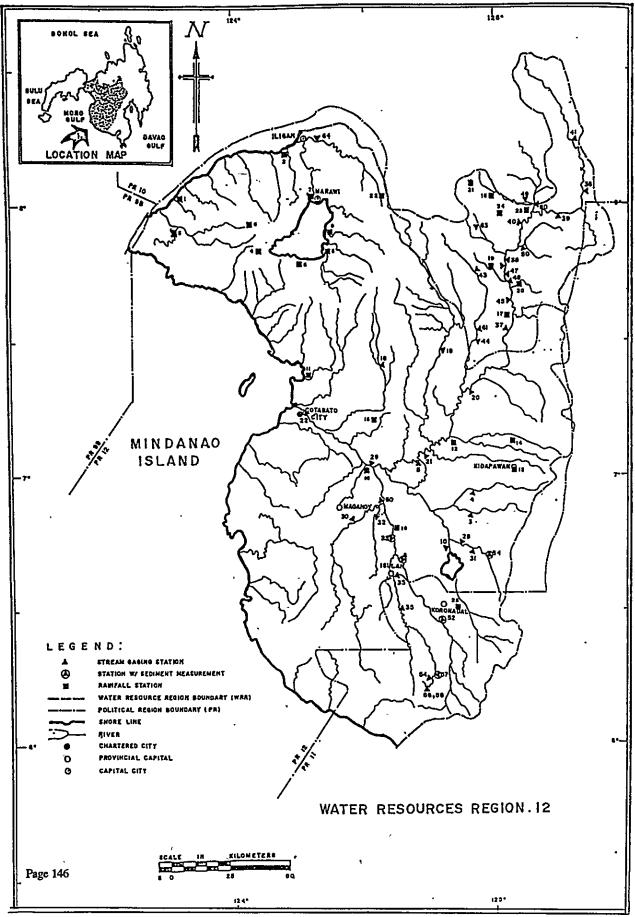


Figure III.12.2 Data Availability of Rainfall Station in Region XII REGION 12 - SOUTHERN MINDANAO

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Figure III.12.3 Data Availability of Streamflow Station in Region XII (1/5) REGION 12 - SOUTHERN MINDANAO

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1		Maigo River - Balaguas, Kolambogan,	60 .	123° 57	74	TRANS-D	AR							┼┓╎			╡		╡		4	
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1 -	ri	Marading River - Rebe, Lala, Lamo del	7* 54	123* 47	345	- do -	É														1	
<u> </u>		Sur								_									-		1	
••	ų.	Malasila River - Bagontspey, M'leng.	6° 50	124° 54	145	- do -	- op -												_			
<u>I</u>		Cotabato						_														
<u></u>	4	Saguing River - Perez, Kidapawan,	7* 01	125 09	6	- do -	- do -										╡			8		
<u>Е</u>		Couban									-	_	•						_			
L	-ri	Rio Grande de Mindanse - Pikit, Cotabato	70 03	124° 42	12,999	- op -	AR .															
4 	6	Kapmgkong River - Bo. 2, Suitan,	6° 40	124° 37	529	- do -	NR															
ا		Sabarongia, Cotabato																	_		=	
	4	Mindanao River - Poblacion, Dan Plang,		124* 49	17,744	- op -	- op -															
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1	**	Simuay River - Sinay, Sultan Kudarat,	71 27	124° 21'	664	- do -	- op -									_						
·,		Cotabeto														_				_		
1	oi	Tamontaka River - Dinaig, Cotabato	7. 11	124* 13	583	- ab-	۳															
د . ب ایر	ġ	Buluan River - Poblacion, Buhan Cotabato	Z¥ -9	124* 49	1,286	• op -	NR.												-			
	Ħ	Pulangui River - Lumayang, Carmen,	7* 09	124* 48	6,752	WPW	AR,														╼┤	
<u> </u>		North Cotabato				CARBOP			-													
L	12	Kabakan River - Kilada, Kabakan, North	7* 06	124° 52	869	MPW	Ĕ	_				╶┦╎										
L		Cotabato													-	_				_		
	13	Malasila River - New Pazay, Milang, North	6* 50	124* 47	140	- do -					-							-				
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·	14	Milang River - Ugpey, Milang, North	6° 56	124* 55	164	-ob-	AR															
		Cotthemo														_					=	
	. 15.	Libungan River - Libungan, Midaryap	7• 10	124° 32	Ż	-do-	-9-						┦									
		North Cotabeto	ج		_	•							_				_	_	-		-	
, <u>,</u>	-CIVEDORI) AR	AUTO-RECORDING STREAM GAGE STATION	, BAM GAG	BSTATION			HESTORI	CALSTR	HISTORICAL STREAM FLOW RECORDS	V RECORD	Ø		I	EVALUATED	Q		I		W DATA	Y TON ,	et eval	RAW DATA, NOT YET EVALUATED

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Figure III.12.3 Data Availability of Streamflow Station in Region XII (2/5) REGION 12 - SOUTHERN MINDANAO

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STATION		COORD	COORDINATES	AREA	MADATADNED							P.	ERI	ΟD	OF R	BCO	RD		-			i		
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16.	Libungen River - Almada, North Cotabato	7 26	124* 32	358	CARBDP	NR.				-						_								
17.	Maridagao River - Pikit, North Cotabato	60 aL	124° 42'	2,333	MIM	AR							÷.				с 						_	
18.	Maridagao River - Leliongae, Carmen,	57 2	124° 45	2,138	CARBDP	É	E	Ē	E				Ξ	E	<u> </u>	E				E	E		E	
	North Cotabato					F	Ē	E	E														-	
19.	Malastia River - La Esperaza, M'lang,	6° 52	124 55	150	- op -	-90-	E	E	E				E	E	—	F		E		E			-	
	North Cotabato													E	F			Ē				E		
20.	Pulangui River - Tagurenso, Metalim,	70 18	124 53	5,468	• ap •	- ep-			E					E	E	E	E							
	North Cotabath						E		E	-				E	E	F	E	E			E	E	E	
21.	Pulangul River - Inmg-ug, Fibit, North	7 03	124 42	12,999	MP CARBDP	R									E	E		E		E	E			
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2	Mindanao River - Cotabato City	31 .4	124° 15	19,406	MPW	-op-	E	E	E							H .		┢┛						_
23.	Allah River - Allah, Ampahuan,	6° 45	124° 35	1,496	-op-	- ep-	E		E						ΠI			E			Ē	-		
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*	Cotabato River - Data Plang, Maguindanao	.10 .4	124° 29	17,744	- do -					F					F	E						-		
25	Magonoy River - Tuaym, Magnuoy,	.10 .4	124° 30'	1,060	VIN	É					-				E			E				E		
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26.	Danselan River - Sepikan, Magunoy,	55 .9	124° 37	3,749	MIM	۲	E	Ē	E							E		E						
	 Maguindanao 	•		-			Ē	E		-	—			<u></u>		F	F	E	-	E	E			
27.	Temoutska River - Temontaka, Cotabato	.11 -4	124° 13	21,067	CARBDP	¥		Ē	E	E						=	-							
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28.	Buluen River - Popol, Buluen,	27 -9	124° 49	1,286	- do -	Å	E		E	E						E	E	E.		E			E	
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29.	Confluence of Pulsagui and Allah River-	70 72	26 .YZT	20,002	- op -	¥	E		E			E	-	E	E	Ē								
	Deta Plang, Meguindano					F	E	E	E		-			F		F				E				
ő.	Kabilanan River - Ampanun, Maguindanao	6. 41	124° 30'	1,103	- op - :	শ্ব	E								F							E		
31.	Alip River - Datti Paglas Bridge, Magula-	6° 4F	ES .VCI	1,668	- op -	ę	E		E		E		1	-		F					E	E		
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Figure III.12.3 Data Availability of Streamflow Station in Region XII (3/5) REGION 12 - SOUTHERN MINDANAO

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4	Kabilanan River - Sapakan, Sultrat sa	6° 48	124* 30	1,054	- op -	-op-			E			E														
	Berangis, Maguindanao									-						_		_		_					-	
ត	Allah River - Impuno, Isulan, Sultan	6• 37	124° 32	280	- qo -	NR													┨	╂					-	
	Kudami											_			-			=		_				_	-	
đ	Alip River - Columbio, Sultan Kudarat	6* 40	124° 57	380	MPW	AR		-		1			-									-	-			
35	Allah River - Lulambog, Isulan, Sultan	.16 • 9	124* 36	936	- do -	NR												_		\dashv						
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36.	Pulengui River - Maraguing, Malaybainy,	20 22	125 20	1,384	NPC	AR				_					-			╘						╡		
	Bukidnon								-				-			_		_			=	_		_		
37.	Muicta River - Baisyawan, New Kidapawan	7- 31	124* 56	517	-do-	N			_									F						=		
	Kibawe, Bukidno														-		=		\exists	4		=	1	_		
Ŕ	Pulangui River - Panadtaran, Maramag.	7- 48	125° 01°	3,500	• do •	AR					Ţ	Ŧ	╒			Ī								_		
	Butchen					_								_	_						_	_		_	_	
39.	Pulangui River - Lumbayao, Valencia,	7: 37	125° 16	2,210	- ab -	R	_	-			-							┼┼					_	+	_	
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ą	Pulangui River - Poblacion, Valencia,	4 5	125 05	2,180	MPW	NR.					-						╎					4	_	=		
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41° -	Pulangui River - Ebusdi, Malaybalay,	8. 14	125 17	360	NPC	- do -			-	_		╡	-					-11	_		-	=	-	_†		
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넊	Kulaman River - Malaybalay, Bukidnon	2, 12	11 2 21	\$FZ4,	CARBDP	- da -				-	_			=							_					
4	Muleta River - Olal Nongpongan, Don	7* 47	124* 54	215	NPC	- qo -					_		-	_									∃		_	
	Carlos, Bukkbon		-							_	_													_		
ŧ	Muleta River - Pinamongahan, Kibewa, *	7* 29	124° 56	758	CARBDP	• ab •		_		_					_		_				\exists			_	\dashv	·
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Figure III.12.3 Data Availability of Streamflow Station in Region XII (4/5) REGION 12 - SOUTHERN MINDANAO

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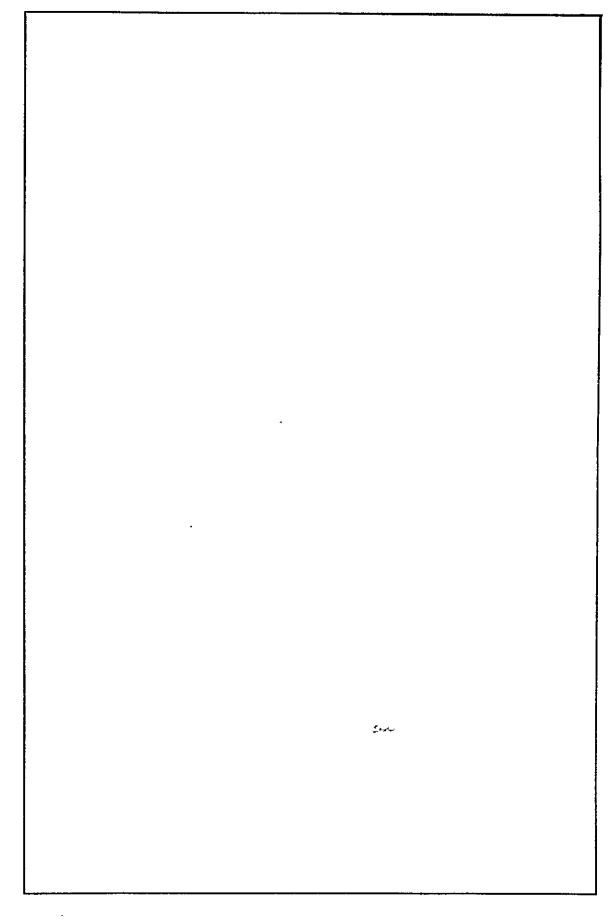
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Figure III.12.3 Data Availability of Streamflow Station in Region XII (5/5) REGION 12 - SOUTHERN MINDANAO





Department of Public Works and Highways PMO - Major Flood Control Projects

This report on "*Rivers in the Philippines*" was the result of the painstaking efforts and desire of the author to provide updated information / data in the country's major river basins. We consider this to be very timely considering that DPWH is now progressively embarking in the development of some of these basins. The latest edition of a related report on the matter, which is the "Principal River Basins in the Philippines", prepared by the National Water Resources Council (NWRC) was in October, 1976. Perhaps, this edition needs updating by this time.

While this report may not have fully covered all the major river basins, it is still very substantially informative. Furthermore, with this initial efforts by the author, we hope that a more comprehensive study shall be initiated by the government agency concerned towards this end.

NONITÒ FANO Ħ.

OIC - Project Director

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ACKNOWLEDGMENT

I have been working for the DPWH as a JICA EXPERT for rivers since 1995, July All these years till now, I have made much effort to visit many major river sites in order to understand the actual conditions of rivers in the Philippines.

Seeing is believing. This is my first impression after having seen some of the river basins. How wide the river mouths of Cagayan and Bicol are 1. Why is it that small rivers such as Anilao and Malbasag in Ormoc City could cause the so-called "Ormoc tragedy"? Whatever river site L visited, I felt something different from what I felt before.

It began to think that a publication such as this, which clearly illustrates each river basin with pictures: will be very useful for riverrelated engineers; since there are not sufficient information materials about rivers in the Philippines. This is my purpose in preparing this publication:

I would like to express my sincere appreciation to all the engineers of the regional offices who assisted me with my data collection. I am also grateful to Undersecretary Teodoro T. Encarnacion, Assistant Secretary Manuel M. Bonoan, Planning Service Chief Linda M. Templo, PMO-Major Flood Control Project Manager Nonito F. Fano, Project Evaluation Division Chief Manuel S. Alconis, Engineer Rebecca Garsuta, my secretary Isabel P. Gruz and other engineers and personnel in Project Evaluation Division for their helpful suggestions and considerable assistance.

Maraming Salamat Po !!!!

KENICHI MATSUL JICA Expert for Flood Control and Water Resources Engineering

Manila, Philippines March, 1997

Department of Public Works and Highways PMO - Major Flood Control Projects

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