



DEPARTMENT OF PUBLIC
WORKS AND HIGHWAYS
THE REPUBLIC OF THE
PHILIPPINES

**THE STUDY
ON
THE NATIONWIDE FLOOD RISK ASSESSMENT
AND
THE FLOOD MITIGATION PLAN
FOR THE SELECTED AREAS
IN
THE REPUBLIC OF THE PHILIPPINES**

FINAL REPORT

**VOLUME IV
- DATA BOOK-**

MARCH 2008

jica JAPAN INTERNATIONAL COOPERATION AGENCY
CTI CTI Engineering International Co., Ltd.

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VOLUME II MAIN REPORT

VOLUME III SUPPORTING REPORT

VOLUME IV DATA BOOK

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AREAS
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**FINAL REPORT
VOLUME IV
DATA BOOK**

- A. DATA EXTRACTION FOR 120 RIVER BASINS**
- B. CROSS SECTION SURVEY DATA**
- C. FLOOD POTENTIAL AREA MAPS**
- D. RECORD OF SEMINARS AND WORKSHOPS**
- E. MUNITES OF MEETING**

DATA BOOK A
Data Extraction for 120 River Basins

THE STUDY ON THE NATIONWIDE FLOOD RISK ASSESSMENT AND THE FLOOD MITIGATION PLAN FOR THE SELECTED AREAS IN THE REPUBLIC OF THE PHILIPPINES

FINAL REPORT VOLUME IV DATA BOOK A DATA EXTRACTION FOR 120 RIVER BASINS

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Name of Basin: Abra				
Data Items	Name/Description	Units	Data	Remarks
River Basin	Area	sq. km.	4906.227094	
	Perimeter	km.	411.333826	
Population	Year 2000	person	328533	Census Population
	Year 2005		358745	Projected Population

Road	Abatan-Mankayan-Cervantes	km.	22.235721	Length
	Abra-Cervantes Rd		24.465586	
	Abra-Ilocos Norte Rd		27.426926	
	Abra-Ilocos Sur Rd		22.094707	
	Abra-Lagangilang Rd		78.710231	
	Baguio-Bontoc Rd		82.548153	
	Bangued Cadre Rd		0.766613	
	Cervantes-Bontoc Rd		1.571522	
	Cervantes-Mankayan-Abatan		9.224140	
	Cervantes-Quirino Rd		32.859951	
	Jct Santiago-Banayoyo-Lididda-Sn Emilio-Qu		17.351993	
	Lagangilang Access Rd		1.354462	
	Manila North Rd		23.861049	
	Mt Prov-Ilocos Sur via Kayan		16.925974	
	Mt Prov-Ilocos Sur via Tule Rd		34.927097	
	Santa-Rancho Rd		0.694442	
	Tagudin-Cervantes Rd		24.368470	

Bridge	Salugan Br.	Number	Bailey	Type
	Calacaban Br.			
	San Juan Br.			
	Losong Br.			
	New Br.			
	Patpatgatpat Br.			
	Tamaoang Br.			
	Sinedad Br.			
	Tubo Br.			
	Naguilinan Br.			
	Tuyad Br.			
	Soot Br.			
	Tadian Br.			
	Paing Br. I			
	Cabanugan Br.			
	Comillas Br.			
	Balingasig Br.			
	Balais Br.			
	Baguio Br.			
	Libeg Br.			
	Aliniva Br.			
	Baay Br.			
	Guinaoang Br.			
	Don Mariano Marcos Br.			
	Malaya Br.			
	Quirino Br.			
	Bancag Br.			
	Sinalang Br.			
	Timber Br.			
River	Abra River	km.	191.767411	Length
District	Abra DEO	sq. km.	379.546255	Area
	Ilocos Norte II DEO		13.653619	
	Apayao I DEO		3.736401	
	Ilocos Sur I DEO		19.792011	
	Kalinga DEO		26.118616	
	Ilocos Sur II DEO		528.641151	
	Mountain Province DEO		335.976599	
	Benguet II DEO		192.530099	
	Ifugao DEO		2.502910	
	Vigan (City)		3.431874	

City/Municipality	Tineg	sq. km.	719.894561	Area
	Nueva Era		13.643782	
	Kabugao		2.024604	
	Lagayanan		140.480027	
	Danglas		136.562826	
	San Juan		86.973083	
	Bangued		148.198769	
	Lucab		251.485569	
	Conner		1.701241	
	Langiden		132.680556	
	La Paz		55.533537	
	Lagangilang		112.757178	
	Magsingal		0.170195	
	Dolores		46.505316	
	Balbalay		12.915611	
	Licuan-Baay (Licuan)		255.657474	
	Malibcong		219.787980	
	Bantay		4.466153	
	Tayum		30.594077	
	Dagupan		127.190289	
	Sallapadan		98.667459	
	Dagupaman		45.644768	
	Pidigan		46.759580	
	Penarrubia		37.514670	
	Santa		32.718524	
	Caawayan		11.211770	
	San Quintin		40.373111	
	Sallapadan		127.190289	
	Agoo		98.667459	
	Narvacan		3.308401	
	San Isidro		33.405181	
	Bucloc		45.505389	
	Villavicosa		37.506234	
	Manabu		95.187200	
	Pilar		4.527109	
	Pasil		7.272098	
	Boliney		212.494696	
	Luba		139.861732	
	Lubugan		5.939921	
	Tubo		378.174593	
	San Emilio		41.026295	
	Sadanga		0.619157	
	Quirino (Angkaki)		215.983552	
	Bontoc		1.144671	
	Besao		113.259509	
	Sagada		11.661797	
	Cervantes		220.942401	
	Sigay		14.674106	
	Tadian		176.762479	
	Bauko		32.531181	
	Mankayan		82.491178	
	Tinoc		87.256129	
	Buguias		2.503750	
	.....		22.795757
Name of Urban Center	name		Main City Centers
Land Use of River Basin	Forest	Area, sq. km.	1342.003021	Natural, Plantation, Bamboo
	Mangrove Forest		0.000000	
	Wooded & Natural Land		3095.066059	
	Annual Crop		383.951373	
	Perennial Crop		27.640929	
	Pasture		0.000000	
	Fish pond		0.000000	
	Built-up Area		12.864038	
	Water body		44.701145	
	Inland Water			

Data Items	Name/Description	Units	Data	Remarks
Simulated Flood Inundation	Area	sq. km.	58.952848	Total Area and Average Depth for River Basin
Average Depth	meter		3.292156	
Forest			2.677803	
Mangrove Forest			0.000000	Inundated area by land use except
Wooded & Natural Land			23.785350	water body, which is considered as permanently inundated.
Annual Crop			15.07588	
Perennial Crop			0.000000	
Pasture			0.000000	
Fish pond			0.000000	
Santa			0.0044114	
Manabu			0.000306	
Vigan (City)			0.133789	
Bangued			3.0600537	
Langiden			1.155219	
Lagangilang			0.446472	
Pidigan			4.534692	
Bucay			5.393232	
Santa			11.946927	Total Inundated Area by City/Municipality
Ocaoyan			8.594190	
San Quintin			2.426184	
Manabu			2.965083	
Luba			2.193296	
Tobio			1.564036	
San Emilio			0.425921	
Quirino (Angkaki)			4.494280	
Cervantes			4.780127	
Tadian			0.477837	
Mankayan			0.336581	
Bakun			1.089031	

Data Items	Name/Description	Units	Data	Remarks
Simulated Flood Inundation	Area	sq. km.	805.000097	Proportion of City/Municipality
Average Depth	meter		3.509882	Population Inside Inundated Area; Year 2000 Census Data
Forest			0.280805	
Mangrove Forest			0.000000	
Wooded & Natural Land			3.509882	
Annual Crop			2.503726	
Perennial Crop			0.000000	
Pasture			0.000000	
Fish pond			0.000000	
Santa			1.586142	

Name of Basin:	Amburayan			
Data Items	Name/Description	Units	Data	Remarks
River Basin	Area	sq. km.	1010.690052	
Perimeter		km.	169.48235	
Population	Year 2000	person	106659	Census Population
	Year 2005		115333	Projected Population
Road	Acop- Kapangan-Bakun Rd	km.	41.478197	
	Baguio-Bontoc Rd		78.127536	Length
	Manila North Rd		117.772145	
Bridge	Ipit Br.			
	Salacop Br.			Bailey
	Ambaldien Br.			Type
	Taba-ao Br.			
	Taiawan Br. I			Concrete
	Amburayan Br.			
	Baguingey Br.			
River	Amburayan River	km.	88.528062	Length
District	Illocos Sur II DEO	sq. km.	302.934227	Area
	La Union I DEO		143.131359	
	Benguet II DEO		548.653044	
	Benguet I DEO		15.971422	
City/Municipality	Tagudin	sq. km.	19.862833	Area
	Alilem		105.092942	
	Sudipen		51.281449	
	Bangar		16.867385	
	Bakun		144.891832	
	Sugpon		177.961171	
	Santol		56.106888	
	Kibungan			

Data Items	Name/Description	Units	Data	Remarks
Inundated Area by Administrative Boundary	Santol	sq. km.	0.088491	
	Buguias		0.017352	
	Kibungan		0.204158	Total Inundated Area by City/Municipality
	San Gabriel		0.019154	
	Kapangan		1.022446	
	Atok		0.056030	
Inundated City/Municipality Population	Tagudin	person	2395.20	Proportion of City/Municipality Population Inside Inundated Area; Year 2000 Census Data
	Alliem		1724.7607	
	Banjar		2555.792819	
	Subper		1008.633715	
	Sugpon		95.830054	
	Santol		9.380054	
	Buguias		3.975564	
	Kibungan		18.576448	
	San Gabriel		1.762159	
	Kapangan		104.556817	
Inundation Average Depth by Land Use	Atok		74.487825	
	Forest	meter	14.818790	
	Mangrove Forest		0.000000	
	Wooded & Natural Land		8.500907	
	Annual Crop		1.937986	
	Perennial Crop		2.059388	
Pasture	Pasture		0.000000	
	Fish pond		0.000000	
	Tagudin		1.326728	

* The estimated inundation area and depth are preliminary results, and have not been used for screening/analysis as such, but with some modification based on expert judgements and so on (refer to Data Book C).

Name of Basin: Sinocalan (Dagupan)

Data Items	Name/Description	Units	Data	Remarks
River Basin	Area	sq. km.	1034.262731	
	Perimeter		187.374738	
Population	Year 2000	person	960659	Census Population
	Year 2005		1038716	Projected Population
Road	Binmaley-Lingayen via Quibaol	km.	6.037773	
	Binmaley Beach Rd		1.757132	
	Calasiao Old Rd		3.335669	
	Camiling-Wawa-Bayambang-Malasiqui-Sta Barbara		21.842296	
	Carmen Jct-Bayambang-Manat Rd		30.266311	
	Dagupan-Bonuan-San Fabian		9.353400	
	Judge Jose de Venecia Sr Ave		3.447682	
	Manila North Rd		43.238096	
	Pangasinan-La Union Inter-Prov'l Rd		24.440568	
	Pangasinan-Zambales Rd		33.366560	
	Sta Barbara-Mangaldan Rd		7.765711	
	Sta Barbara Old Rd		2.385505	
	Urdaneta Jct-Dagupan-Lingayen Rd		8.990503	
Bridge	Urdaneta Jct-Dagupan-Lingayen Road		2.915166	
	Urdaneta Jct-Dagupan Rd		15.635355	
	Urdaneta Jct-Lingayen Div Rd (Perez Blvd)		1.338785	
	Urdaneta Jct-Lingayen Rd via Zambales		5.223515	
	Sta. Barbara Br./Malanay Br.	Bailey		
	Palma Br.			
	Quintos Br.			
	Sapana Br. 1			
	Ramos Br.			
	Paldakit Br.			
	Malphlindo Br.			
	Malasiqui Br.			
	Maramba Br.			
	Padal Br.			
Bridge	Miftura Br.			
	Tanap Br.			
	Tambac Br.			
	Taroy Br.			
	Villami Br.			
	Turac Br.			
	Sinucalan Br.			
	Sapana Br. 2			
	Sn. Nicolas Br.			
	Tagamusing Br.			
River	Tabuyog Br.	Number		
	Bugayong Br.			
	Bolosan Br.			
	Bugtong Br.			
	Cili Br.			
	Cacaritan Br.			
	Baliguend Br.			
	Bacag Br.			
	Balocloc Br.			
	Bayaos Br.			
District	Banaao Br.			
	Gabon Br.			
	Lucao Br. 1			
	Kurambeng Br.			
	Lucao Br. 2			
	Magsaysay Br.			
	Macalong Br.			
	Gomez Br.			
	Gayaman Br.			
	Ilang Br.			
City/Municipality	Gumapos Br.	sq. km.		
	Dawel Br.			
	Manat Br.			
	Dagupan City		37.953706	
	Urdaneta (City)		108.259917	
	San Carlos City		127.100875	
	Tuba		17.497164	
	Itogon		18.985408	
	Sison		44.507220	
	San Manuel		28.937966	
City/Municipality	Binalahan		61.261167	
	San Fabian		0.844669	
	Mangaldan		30.111943	
	Lingayen		50.292950	
	Mapandan		21.768456	
	Asingan		32.217678	
	Calasiao		42.357974	
	Santa Barbara		60.890529	
	Manaoag		0.850629	
	Malasiqui		139.931708	
City/Municipality	Villas		61.587772	
	Basista		24.714878	
	Urbiztondo		52.040417	
	Alcala		0.212817	
	Bayambang		66.086779	
	Bautista		0.001731	

Data Items	Name/Description	Units	Data	Remarks
Land Use of River Basin	Name of Urban Center	.....		Main City Centers
	Forest		28.256009	Natural, Plantation, Bamboo
	Mangrove Forest		0.000000	
	Wooded & Natural Land		72.392453	Shrub, Grassland, Barren, Marshland
	Annual Crop	Area, sq. km.	821.553672	Agricultural Land
	Perennial Crop		0.000000	
	Pasture		79.209371	
	Fish pond		28.088074	
	Built-up Area		4.763152	Inland Water
Simulated Flood Inundation	Water body			
	Area	sq. km.	93.044997	Total Area and Average Depth for River Basin
Inundated Area by Land Use	Average Depth	meter	1.227427	
	Forest	sq. km.	0.019484	Inundated area by land use except Water body which is considered as permanently inundated

Data Items	Name/Description	Units	Data	Remarks
Inundated Area by Administrative Boundary	Mangrove Forest		0.000000	
	Wooded & Natural Land		1.641363	
	Annual Crop		76.461303	
	Perennial Crop		0.000000	
	Pasture		0.000000	
	Fish pond		11.697736	
	Built-up Area		0.905442	
	Water body		4.098690	
	Forest		12.632011	Total Inundated Area by City/Municipality
	.....		21.616834	
Inundated Area by City/Municipality Population	Urdaneta	sq. km.	0.024069	
	Itocon		0.426274	
	San Manuel		0.821578	
	Sison		10.472860	
	Binalahan		0.008240	
	San Fabian		16.632533	
	Lingayen		0.441092	
	Calasiao		4.025714	
	Asinigan		0.941592	
	Mapandan		3.408051	
Inundation Average Depth by Land Use	Santa Barbara	sq. km.	16.291190	
	Dagupan City (City)		0.594073	
	Urdaneta (City)		2202.553732	
	Itocon		2.936374	
	San Manuel		175.198618	
	Sison		222.647663	
	Binalahan		6433.405740	
	San Fabian		6.385687	Proportion of City/Municipality Population Inside Inundated Area; Year 2000 Census Data
	Lingayen		33082.107714	
	Mapandan		342.728177	
Inundation Average Depth by Land Use	Asinigan	meter	4275.307923	
	Calasiao		749.507391	
	Santa Barbara		6028.842464	
	Manaoag		17187.205851	
	Mapandan		349.938349	
	Asinigan		2840.145220	
	Forest		3.447337	
	Mangrove Forest		0.000000	
	Wooded & Natural Land		4.272842	
	Annual Crop		1.089133	
Inundation Average Depth by Land Use	Perennial Crop		0.000000	
	Pasture		0.000000	
	Fish pond		1.606671	
	Dagupan City (City)		1.541036	
	Urdaneta (City)		0.410484	
	San Fabian		0.248401	
	Mangaldan		0.740878	
	Calasiao		0.432354	
	Santa Barbara		0.760199	

* The estimated inundation area and depth are preliminary results, and have not been used for screening/analysis as such, but with some modification based on expert judgements and so on (refer to Data Book C).

Data Items	Name/Description	Units	Data	Remarks
Road	River Basin	sq. km.	594.587140	
	Perimeter	km.	139.573541	
	Year 2000	person	369237	Census Population
	Year 2005	person	418851	Projected Population
	City Limit-St Tomas Rd		9.260685	
	Dagupan-Bonuan-San Fabian Demonstration Rd		7.631982	
	Gov Pack Rd		0.129910	
	Kennon-Agat Rd		1.089178	
	Kennon Rd		32.801061	
	Kennon Rd Channelization		0.262150	
Road	Loakan Rd		6.065836	
	Major Mane Rd		1.718706	
	Manaoag Cadre Rd		0.195043	
	Manila North Rd		96.032436	
	Marcos Hi-way		4.293166	
	Military Cut-off Rd		0.994725	
	Pangasinan-La Union Inter-Prov'l Rd		21.423215	
	PMA Cut Off Rd 1		0.848643	
	PMA Cut Off Rd 2		0.380467	
	PMA Rd		3.224452	
Road	Rosario-Pugo Access Rd		0.325766	
	Rosario-Pugo Rd		12.825793	
	South Drive		2.049032	
	Sta Barbara-Mangaldan Rd		4.625099	
	Sto Tomas-Mt Cabuyao Rd		2.696713	

Data Item	Name/Description	Units	Data	Remarks
Bridge	Colorado Br.	Number		
	Demonstration Br.			
	Dunson Br.			
	Caurinan Br.			
	Rosario Br.			
	Camo 6 Br.			
	Puro Br.			
	Leakan Br. 2			
	Lakatos Br.			
	Nilangowan Br.			
	Leakan Br. 1			
	Kawanga Br.			
	Kemnon Br. 1			
	Kemnon Br. 2			
	Balengabong Br..			Concrete
Bridge	Bobendan Br..			
	Busel Br.			
	Ataki Br.			Type
	Alipang Br.			
	Aloragat Br.			
	Alpasit Br.			
	Camp 4 Br. 4			
	Camp 4 Br. 5			
	Seytan Br.			
	Camp 4 Br. 2			
	Camp 3 Br. 1			
	Camp 3 Br. 2			
	Twin Peak Br.			
	Maramel Br.			
District	Camp 5 Br. 1			
	Camp 4 Br. 1			
	Camp 5 Br. 2			Steel
	Manuegaday Br.			
	Camo 1 Br.			
	Patalen River	km.	80.673085	Length
	Baguio City DEO		17.674767	
	Benguet I DEO		142.972818	
	La Union II DEO		31.731572	
	Pangasinan III DEO		223.511638	Area
	Pangasinan II DEO		171.438467	
	Pangasinan Sub-DEO		7.212119	
City/Municipality	Tuba		142.583452	
	Hagon		0.375383	
	Rosario		31.727854	
	Sison		106.398898	
	San Fabian		41.332658	
	Pozzorubio	sq. km.	97.700938	Area
	San Jacinto		24.386023	
	Binalonan		18.554437	
	Mangaldan		11.154761	
	Manaoag		92.860023	
	Mapandan		7.217894	
Name of Urban Center	.....	name		Main City Centers
Land Use of River Basin	Forest		96.735329	Natural Plantation, Bamboo
	Mangrove Forest		0.000000	
	Wooded & Natural Land		173.702018	Shrub, Grassland, Barren, Marshland
	Annual Crop	Area, sq. km.	288.644391	
	Perennial Crop		0.000000	Agricultural Land
	Pasture		0.000000	
	Fish pond		2.121071	
	Built-up Area		29.736187	
	Water body		3.648143	Inland Water
Simulated Flood Inundation	Area	sq. km.	38.755563	Total Area and Average Depth for River Basin
Inundated Area by Land Use	Average Depth	meter	1.590807	
	Forest		0.752972	
	Mangrove Forest		0.000000	
	Wooded & Natural Land		2.808993	
	Annual Crop		26.938206	
	Perennial Crop		0.000000	Inundated area by land use except water body, which is considered as permanently inundated.
	Pasture		0.000000	
	Fish pond		1.337993	
	Dagupan City		0.001098	
	San Fabian		2.299684	
	Mangaldan		0.675592	
	San Jacinto		2.257903	
	Manaoag		0.082383	
	Mapandan		0.035905	
Inundated Area by Administrative Boundary	Dagupan City		0.357354	
	Tuba		0.894960	
	Rosario		0.920024	
	Sison		0.601111	
	Pozzorubio	sq. km.	3.243707	Total Inundated Area
	San Fabian		11.791360	by City/Municipality
	Mangaldan		1.875565	
	San Jacinto		8.407673	
	Manaoag		9.865757	
	Mapandan		0.669021	
	Dagupan City		103.684624	
	Tuba		103.815323	
	Rosario		564.846717	Proportion of City/Municipality Population Inside Inundated Area: Year
	Sison		162.900957	
Inundated City/Municipality Population	Pozzorubio		1933.249100	
	San Fabian		9138.303893	
	Mangaldan		3730.490026	
	San Jacinto		11291.504867	2000 Census Data
	Manaoag		5761.602169	
	Mapandan		710.500776	
	Forest		6.235954	
	Mangrove Forest		0.000000	
	Wooded & Natural Land		1.584948	
	Annual Crop		1.424098	
	Perennial Crop		0.000000	
	Pasture		0.000000	
	Fish pond		2.647786	
Inundation Average Depth by Land Use	San Fabian		1.240124	
	Mangaldan		1.576203	
	San Jacinto		1.335088	
	Manaoag		1.030032	
	Mapandan		1.182556	

* The estimated inundation area and depth are preliminary results, and have not been used for screening/analysis as such, but with some modification based on expert judgements and so on (refer to Data Book C).

Name of Basin:	Aringay			
Data Item	Name/Description	Units	Data	Remarks
River Basin	Area	sq. km.	501.58810	
	Perimeter	km.	108.400130	
Population	Year 2000	person	272928	Census Population
	Year 2005		330880	Projected Population

Data Item	Name/Description	Units	Data	Remarks
Road	Abanao Ext.		0.274921	
	Abanao Rd		0.700482	
	Agor-Baguio City Rd		23.155877	
	Asin Rd		3.983238	
	Baguio-Bauang Rd		17.151173	
	Bokawan Rd		1.150212	
	Chamun St.		0.171323	
	Chuntur #1		0.220108	
	Chuntur #2		0.122595	
	City Limit-Sto Tomas Rd		9.260685	
	Engineer's Hill Rd		0.529827	
	Ferguson Rd		1.194492	
	Gen Luna Rd		1.160821	
	Gov Pack Rd		1.300494	
	Govt. Center Rd (Baguio City)		0.171886	
	Govt. Ctr Cut-off Rd		0.862136	
	Harrison Rd No 1		1.165964	
	Harrison Rd No 2		0.261854	
	Kayanan Ext.		0.215825	
	Kayanan St.		0.382093	
	Kisad Rd		1.085026	
	Legarda Rd		1.339284	
	Leonard Wood Rd	km	4.034844	Length
	Loakan Rd	km	6.065836	
	Lt Tacay Rd	km	1.337629	
	Magsaway Ave (Trinidad Rd)			
	East Service Rd		0.194704	
	Magsaway Ave (Trinidad Rd)			
	West Service Rd		3.307331	
	Manila North Rd		52.794340	
	Marceo Hirway		24.004237	
	Military Cut-off Rd		1.000000	
	North Drive		0.280753	
	P Burgos Rd		0.984373	
	Pico-Lamtag Rd		8.469083	
	Quezon Hill Rd		1.003823	
	Quezon Hill Rd #1		3.716782	
	Quintin H-Way (Baguio-City)		7.247224	
	Resario-Pugad Rd		12.823703	
	Session Rd #1		1.184397	
	Session Rd #2		1.072474	
	South Drive		2.049023	
	Sto Tomas-Mt Cabuyao Rd		2.868713	
	Yandok St.		0.111214	
	Zendueta St		0.091487	
Bridge	Macabac Br.	Number		
	Maacong Br.			
	Matanabong Br.			
	Lloren Br.			
	Flyover			
	Irisan Br.			
	Linapew Br.			
	New Badiwan Br.			
	Sta. Rita Br.			
	Santa Teresita Br.			
	Trinidad Br.			
	San Luis Br. 2			
	Palina Br.			
	Picazo Br.			
	San Luis Br. 1			
River	Ambanganon Br. 2			
	Arimay Br.			
	Aein Br. 2			
	Ambancungan Br. 1			
	Amalapay Br.			
	Ambalits Br. 1			
	Ambalits Br. 2			
	Badowan Br.			
	Ferguson Br. 1			
	Ferguson Br. 2			
	Ferguson Br. 3			
	Duplas Br.			
District	Bayatang Br.			
	Cuenca Br.			
	Dumog Br.			
	Rainay River	km	48.704603	Length
	La Union ILDEO	sq. km	293.410391	
City/Municipality	Benguet ILDEO	sq. km	183.189544	Area
	Baguio City DEO	sq. km	24.558876	
Land Use of River Basin	Baguio City		25.617359	
	Maranan		16.688407	
	Sablan		18.954313	
	Baueng		3.388993	
	Burgos		0.352625	
	Ooba		29.253803	
	Aringay		96.517780	
	Le Trinidad	sq. km	3.532108	Area
	Tuba		160.640343	
	Pugo		30.944840	
Inundated Area by Land Use	Tubao		49.004271	
	Ajao		11.205526	
	Sto. Tomas		36.429797	
	Rosario		19.333340	
	.....	name		Main City Centers
	Forest		101.428896	Natural Plantation, Bamboo
	Mangrove Forest		0.000000	
Inundated Area by Land Use	Wooded & Natural Land	Area, sq. km.	279.56612	Shrub, Grassland, Barren, Marshland
	Annual Crop		86.875854	
	Perennial Crop		0.000000	Agricultural Land
	Pasture		0.000000	
	Fish pond		1.509235	
	Built-up Area		25.600055	
	Water body		6.176360	Inland Water
Simulated Flood Inundation	Area	sq. km.	10.207496	Total Area and Average Depth for River Basin
	Average Depth	meter	2.728668	
Inundated Area by Land Use	Forest		0.145382	
	Mangrove Forest		0.000000	
	Wooded & Natural Land		1.452180	Inundated area by land use except Water body, which is considered as permanently inundated.
	Annual Crop		6.285751	
	Perennial Crop		0.000000	
	Pasture		0.000000	
	Fish pond		1.525591	
Inundated Area by Administrative Boundary	Arimay		0.686520	
	Tuba		0.010270	
	Baguio City (City)		0.000397	
	Sablan		0.040696	
	Tubao		1.158299	Total Inundated Area by City/Municipality
Inundated Area by Administrative Boundary	Arimay		7.104834	
	Ooba		0.235189	
	Tubao		1.668098	

Data Items	Name/Description	Units	Data	Remarks
Inundated City/Municipality Population	Baspuc City (City)	person	1,801,683	
	Sablan		3,377,803	Proportion of City/Municipality Population Inside
	Tuba		134,362,636	Inundated Area; Year 2000 Census Data
	Aringay		279,304,461	
	Caba		91,722,432	
	Tubao		844,050,771	
Inundation Average Depth by Land Use	Forest	meter	6,675,858	
	Mangrove Forest		0,000,000	
	Wooded & Natural Land		6,144,089	
	Annual Crop		1,648,432	
	Perennial Crop		0,000,000	
	Pasture		0,000,000	
Inundation Average Depth by Land Use	Fish pond		2,426,848	
	Aringay		0,880,631	
	Tubao		0,659,179	

* The estimated inundation area and depth are preliminary results, and have not been used for screening/analysis as such, but with some modification based on expert judgements and so on (refer to Data Book C).

Name of Basin: Bararo				
Data Items	Name/Description	Units	Data	Remarks
River Basin	Area	sq. km.	217,325,108	
	Perimeter	km.	85,032,640	
Population	Year 2000	person	62,285	Census Population
	Year 2005	person	68,418	Projected Population
Road	Bacnotan-Luna-Balaon Rd	km.	24,412,241	
	Manila North Rd		47,702,074	
	Sn Fernando-Bagulin Rd		16,906,314	
	Sn Juan-Sn Gabriel Rd		8,940,508	
Bridge	Cabarecon Br.	Number		
	San Juan Br.			
	Taboc Br.			
	Bambanay Br.			
	Baroro Br.			
	Bumbungue Br.			
River	Bararo River	km.	26,000,005	Length
District	La Union I DEO	sq. km.	171,314,695	
	La Union II DEO		35,473,988	Area
	Benguet II DEO		10,345,035	
City/Municipality	San Fernando (City)	sq. km.	15,075,524	
	Bacnotan		22,158,547	
	Santol		1,197,120	
	San Gabriel		103,416,352	
	San Juan		29,457,493	
	Bagulin		35,482,008	
	Kapangan		10,347,113	
Name of Urban Center	.....	name		Main City Centers
			
	Forest		10,273,207	Natural, Plantation, Bamboo
	Mangrove Forest		0,000,000	
	Wooded & Natural Land		148,840,641	Shrub, Grassland, Barren, Marshland
	Annual Crop		51,063,299	
Land Use of River Basin	Perennial Crop		5,143,302	Agricultural Land
	Pasture		0,000,000	
	Fish pond		0,000,000	
	Built-up Area		1,028,042	
	Water body		0,412,339	Inland Water
	Simulated Flood Inundation	Area	5,333,964	Total Area and Average Depth for River Basin
Inundated Area by Land Use	Average Depth	meter	2,089,533	
	Forest	sq. km.	0,000,000	Inundated area by land use except Water body, which is considered as permanently inundated.
	Mangrove Forest		0,000,000	
	Wooded & Natural Land		0,591,823	
	Annual Crop		4,536,512	
	Perennial Crop		0,058,586	
Inundated Area by Administrative Boundary	Pasture		0,000,000	
	Fish pond		0,000,000	
	San Fernando (City)		0,073,077	
	Bacnotan		0,135,312	Total Inundated Area by City/Municipality
	San Juan		4,062,209	
	San Gabriel		0,888,082	
Inundated City/Municipality Population	Bagulin		0,110,430	
	San Fernando (City)	person	61,112,676	Proportion of City/Municipality Population Inside
	Bacnotan		61,837,692	Inundated Area; Year 2000 Census Data
	San Juan		325,789,186	
	San Gabriel		81,703,505	
	Bagulin		17,227,035	2000 Census Year
Inundation Average Depth by Land Use	Forest	meter	0,000,000	
	Mangrove Forest		0,000,000	
	Wooded & Natural Land		7,904,528	
	Annual Crop		1,188,850	
	Perennial Crop		0,860,141	
	Pasture		0,000,000	
	Fish pond		0,000,000	

* The estimated inundation area and depth are preliminary results, and have not been used for screening/analysis as such, but with some modification based on expert judgements and so on (refer to Data Book C).

Name of Basin: Bacarra-Vintar				
Data Items	Name/Description	Units	Data	Remarks
River Basin	Area	sq. km.	608,95	
	Perimeter	km.	143,05	
Population	Year 2000	person	69,635	Census Population
	Year 2005	person	73,796	Projected Population
Road	Manila North Rd	km.	101	Length
Bridge	Tamucalao Br.	Number		
	Bangsirit Br.			
	Bacarra Br.			
	Bacarra-Vintar River		26,00	Length
District	Ilocos Norte I DEO	sq. km.	608,341,089	Area
	Apayao II DEO		0,569,536	
City/Municipality	Laog City	sq. km.	14,308,584	
	Dumalneg		35,606,476	
	Bangu		30,320,681	
	Vintar		420,136,691	
	Calanasan		0,569,628	
	Pasuguin		7,269,396	Area
Land Use of River Basin	Bacarra		36,616,128	
	Carasi		53,875,948	
	Piddig		10,241,924	
	.....	name		Main City Centers
			
	Forest		247,440,602	Natural, Plantation, Bamboo
	Mangrove Forest		0,000,000	
	Wooded & Natural Land		306,906,640	Shrub, Grassland, Barren, Marshland
	Annual Crop		42,384,247	
	Perennial Crop		2,107,564	Agricultural Land
	Pasture		0,000,000	
	Fish pond		0,000,000	
	Built-up Area		2,560,057	
	Water body		7,546,292	Inland Water

Data Items	Name/Description	Units	Data	Remarks
Simulated Flood Inundation	Area	sq. km.	14,186,197	Total Areas and Average Depth for River Basin
	Average Depth	meter	1,322,866	
Inundated Area by Land Use	Forest	sq. km.	1,812,232	Inundated area by land use except Water body, which is considered as permanently inundated.
	Mangrove Forest		0,000,000	
	Wooded & Natural Land		4,690,045	
	Annual Crop		5,960,164	
	Perennial Crop		0,163,580	
	Pasture		0,000,000	
Inundated Area by Administrative Boundary	Fish pond		0,000,000	
	Vintar		0,067,139	
	Laog City (City)		0,514872	
	Dumalneg		0,150735	Total Inundated Area by City/Municipality
	Vintar		5,856,618	
	Pasuguin		0,296815	
Inundated City/Municipality Population	Bacarra	person	7,367,356	
			5827,578984	2000 Census Data
	Forest		1,675,273	
	Mangrove Forest		0,000,000	
	Wooded & Natural Land		1,553,066	
	Annual Crop		0,963577	
Inundation Average Depth by Land Use	Perennial Crop		1,134,852	
	Pasture		0,000,000	
	Fish pond		0,000,000	
	Vintar		1,910,819	
			5827,578984	2000 Census Data

* The estimated inundation area and depth are preliminary results, and have not been used for screening/analysis as such, but with some modification based on expert judgements and so on (refer to Data Book C).

Name of Basin: Silag-Santa Maria				
Data Items	Name/Description	Units	Data	Remarks
River Basin	Area	sq. km.	369,299,417	
	Perimeter	km.	99,626,093	
Population	Year 2000	person	62,663	Census Population
	Year 2005	person	65,312	Projected Population
Road	Uci Santiago-Banayoy-Bilididd	km.	40,337,367	
	Manila North Rd		70,070,071	
	Sta Maria-Burgos Rd		7,372,173	Length
	Sta. Maria Poblacion Road		0,540,289	
	Baang Br.		Bailey	
	Sta. Maria Centennial Br.			
Bridge	Tay-ac Br.	Number		
	Carcarabasa Br.			
	Asudan Br.			
	Burgos Br.			
	Tiagan Br.		Steel	
River	Silay-StaMaria River	km.	35,069,813	Length
	Abra DEO	sq. km.	130,596,93	Area
District	Ilocos Sur II DEO	sq. km.	238,703,125	

Data Items	Name/Description	Units	Data	Remarks
City/Municipality	San Isidro	sq. km.	3.02979	Area
	Najubuel		2.21089	
	Pilar		86.27389	
	Narvacan		15.26530	
	Villavicencio		37.84222	
	Santa Maria		39.41443	
	Luba		3.46969	
	Burgos		45.31953	
	San Esteban		5.54233	
	San Emilio		95.31860	
	Santiago		0.188405	
	Lididda		26.12571	
Name of Urban Center	Barayoyo		5.083773	Main City Centers
	Quirino (Angkaki)		2.494961	
	Gregorio Del Pilar		4.13370	
	.....	name	.....
			

Data Items	Name/Description	Units	Data	Remarks
Land Use of River Basin	Forest	21.693652	Natural Plantation, Bamboo	Area
	Mangrove Forest	0.000000		
	Wooded & Natural Land	267.840885	Shrub, Grassland, Barren, Marshland	
	Annual Crop	77.706687	Agricultural Land	
	Perennial Crop	0.404827		
	Pasture	0.000000		
	Fish pond	0.000000		
	Built-up Area	0.484572	Inland Water	
	Water body	0.863575		
	Simulated Flood Inundation	Area	12.647547	Total Area and Average Depth for River Basin
	Average Depth	meter	1.885615	
Inundated Area by Land Use	Forest	0.000000		Inundated area by land use except Water body, which is considered as permanently inundated.
	Mangrove Forest	0.000000		
	Wooded & Natural Land	0.623387		
	Annual Crop	11.673163		
	Perennial Crop	0.000000		
Inundated Area by Administrative Boundary	Pasture	0.000000		Inundated area by land use except Water body, which is considered as permanently inundated.
	Fish pond	0.000000		
	Santa Maria	0.024319		
	Narvacan	1.223116		
	Santa Maria	5.696764		
Inundated City/Municipality Population	Burgos	3.038269	Total Inundated Area by City/Municipality	Total Inundated Area by City/Municipality Population Inside Inundated Area; Year 2000 Census Data
	Lididda	1.846858		
	San Emilio	0.842540		
	Narvacan	403.628411		
	Santa Maria	3457.935452		
Inundated Area by Depth by Land Use	Burgos	744.375851	Proportion of City/Municipality Population Inside Inundated Area; Year	2000 Census Data
	Lididda	254.866428		
	San Emilio	37.914286		
	Forest	0.000000		
	Mangrove Forest	0.000000		
Inundation Average Depth by Land Use	Wooded & Natural Land	3.032815		Inundated area by land use except Water body, which is considered as permanently inundated.
	Annual Crop	1.811219		
	Perennial Crop	0.000000		
	Pasture	0.000000		
	Fish pond	0.000000		
Inundated Area by Name of Urban Center	Santa Maria	0.742818		Main City Centers
		
			
			
			

* The estimated inundation area and depth are preliminary results, and have not been used for screening/analysis as such, but with some modification based on expert judgements and so on (refer to Data Book C).

Data Items	Name/Description	Units	Data	Remarks
Inundated City/Municipality Population	Salcedo (Baugen)		392.122777	Proportion of City/Municipality Population Inside Inundated Area; Year 2000 Census Data
	Inundated Area	person	18.017722	
	Gregorio Del Pilar		3175.699411	
	Santa Lucia		664.321234	
	Santa Cruz		1.286293	
	Sigay		2000 Census Data	
	Forest		6.135675	
	Mangrove Forest		0.000000	
	Wooded & Natural Land		1.742529	
	Annual Crop		1.858300	
	Perennial Crop		0.000000	
	Pasture		0.000000	
Inundation Average Depth by Land Use	Fish pond		0.000000	Inundated area by land use except Water body, which is considered as permanently inundated.
	Santa Lucia		0.887246	
	Santa Cruz		1.051534	
			
			

* The estimated inundation area and depth are preliminary results, and have not been used for screening/analysis as such, but with some modification based on expert judgements and so on (refer to Data Book C).

Data Items	Name/Description	Units	Data	Remarks
Name of Basin: Alaminos	River Basin	Area	230.250010	Length
	Perimeter	km.	99.079655	
	Population	Year 2000	67947	Projected Population
	Year 2005	person	71947	
	Road	Alaminos-Bolinao Rd	40.564770	
	Alaminos-Lucap Rd	km.	4.846201	
	Pangasinan-Zambales Rd		72.697795	
	Bridge	Gayaiga Br.		Type
	Fernandez Br.			
	Matalatikip Br. 2			
	Matalatikip Br. 1			
	Darayassen Br.			
Name of Basin: Buaya	Bogtong Br.			Concrete
	Amandiego Br.			
	Casolming Br.			
	Colos Boa Br.			
	Paitan Br.			
Name of Basin: Buaya	Embarcadero Br.			Steel
	River	Alaminos River	42.947209	Length
	District	Pangasinan I DEO	212.336731	
		Pangasinan II DEO	17.596592	
	City/Municipality	Alaminos (City)	101.865579	
Name of Basin: Buaya	Bani	sq. km.	1.148010	Area
	Sual		94.320575	
	Mabini		15.004334	
	Labrador		17.595939	
	Name of Urban Center	.....	.....
Name of Basin: Buaya	Forest		16.901201	Main City Centers
	Mangrove Forest		0.000000	
	Wooded & Natural Land		71.114656	
	Annual Crop	Area, sq. km.	135.319400	
	Perennial Crop		0.000000	
Name of Basin: Buaya	Pasture		0.000000	Agricultural Land
	Fish pond		3.535772	
	Built-up Area		2.421722	
	Water body		0.951588	
	Simulated Flood Inundation	Area	13.026253	Total Area and Average Depth for River Basin
Inundated Area by Land Use	Average Depth	meter	1.745540	
	Forest		0.000000	
	Mangrove Forest		0.000000	
	Wooded & Natural Land		0.021666	
	Annual Crop	sq. km.	11.646956	
Inundated Area by Administrative Boundary	Perennial Crop		0.000000	Inundated area by land use except Water body, which is considered as permanently inundated.
	Pasture		0.000000	
	Fish pond		0.061039	
	Alaminos (City)		0.248560	
	Sual		12.136110	
Inundation Average Depth by Land Use	Alaminos (City)	sq. km.	0.873592	Total Inundated Area by City/Municipality
	Inundated Area by Name of Urban Center	Person	5655.427057	
	Sual		136.280313	
	Forest		0.000000	
	Mangrove Forest		0.000000	
Inundation Average Depth by Land Use	Wooded & Natural Land		1.884254	Proportion of City/Municipality Population Inside Inundated Area; Year
	Annual Crop	meter	1.746708	
	Perennial Crop		0.000000	
	Pasture		0.000000	
	Fish pond		1.088155	
Name of Basin: Cagayan	Alaminos		1.745453	2000 Census Data
	Bridge	Bailey	Type	
	Bridge	Concrete		
	Bridge	Steel		
	River	Busua River	30.352098	
Name of Basin: Cagayan	District	Ilocos Sur II DEO	214.427320	Length
	Candon (City)		8.215652	
	San Emilio		3.020346	
	Gregorio Del Pilar		62.719834	
	Galmuyod		11.572411	
Name of Basin: Cagayan	City/Municipality	Salcedo (Baugen)	53.169470	Area
	Quirino (Angkaki)		5.538437	
	Santa Lucia		28.784138	
	Santa Cruz		15.695844	
	Sigay		25.050136	
Name of Basin: Cagayan	Cervantes		0.353306	Main City Centers
	Name of Urban Center	.....	.....
			
			
			
Name of Basin: Cagayan	Land Use of River Basin	Forest	35.704780	Natural Plantation, Bamboo
	Mangrove Forest		0.000000	
	Wooded & Natural Land		124.989555	
	Annual Crop	Area, sq. km.	48.305200	
	Perennial Crop		0.000000	
Name of Basin: Cagayan	Pasture		0.000000	Agricultural Land
	Fish pond		0.000000	
	Built-up Area		2.705861	
	Water body		2.922301	
	Simulated Flood Inundation	Area	9.567165	Total Area and Average Depth for River Basin
Inundated Area by Land Use	Average Depth	meter	0.097778	
	Forest		0.206430	
	Mangrove Forest		0.000000	
	Wooded & Natural Land		0.286260	
	Annual Crop	sq. km.	7.214034	Inundated area by land use except Water body, which is considered as permanently inundated.
Inundated Area by Administrative Boundary	Perennial Crop		0.000000	
	Pasture		0.000000	
	Fish pond		0.000000	
	Santa Lucia		0.533996	
	Santa Cruz		0.039462	
Inundated Area by Administrative Boundary	Salcedo (Baugen)		2.000626	Total Inundated Area by City/Municipality
	Gregorio Del Pilar		0.290602	
	Santa Lucia		5.494296	
	Santa Cruz		1.906397	
	Sigay		0.061251	

Data Items	Name/Description	Units	Date	Remarks	Data Items	Name/Description	Units	Date	Remarks
Road	Cauayan-Poblacion Rd		2.622890		Gagabutan Br.	2			
	CDMA (Dalemdem-Minaribad-Palacion) By-Pass Rd		3.870038		Gagabutan Br.	3			
	Corner-Kabugao Rd		23.470236		Latang Br.				
	Coronado-Corona Rd		27.547031		Ampawallen Br.				
	Coronado-Aurora Bdty Rd (Isabela-Bdty-Jct Dumabato)		49.850953		Asodong Br.				
	Cordoz-Aurora Bdty Rd (Jct Dumabato-Aurora Bdty)		10.532486		Langiso Br.				
	Cordon-Ditun Rd		4.453974		Antutot Br.	1			
	CVAC Rd		3.043374		Bangarao Br.				
	Daang Maharlika (LZ)		33.895650		Abilig Br.	2			
	Daang Maharlika By-Pass Rd		2.342916		Lupo Br.				
	Dumabato-Madella Rd		17.071952		Limood Br.				
	DM Jct-Malasin Rd		7.471194		Asok-go Br.	2			
	Dugo-Vicente Rd (Dugo-Mission Sect)		26.018227		Asok-go Br.	1			
	Echague-Jones-Madella Rd		10.424047		Maatop Br.				
	Villa Norte-Pasong Sect)				Lucas Br.				
	Echague-Poblacion Rd				Salem Br.				
	EYEB-DPWH Motorpool Rd		4.259462		Oling Br.				
	Gamay-Roxas Rd		0.067797		Poro Br.	4			
	Govt Center-Cadre Rd		28.445513		Mataleg Br.				
	Ibaan-Bisig-Palanan Rd		0.150842		Melocog Br.				
	Ilegan-Dolfin Albano-Mallig Rd		16.737429		Mesablang Br.				
	Jet Akbar-Ginpin Bdty Rd		50.114615		Mesacabab Br.				
	Jet Delfin Albano Rd		24.343410		Mebondo Br.				
	Jet Gettan-Cumao-Capissayan-Sta Margarita		5.388702		Mecachan Br.				
	Jet Ipi-Quirino Bdty Rd		50.432360		Memaga Br.				
	Jet Lopee-Lasam-Gagabutan		39.522771		Mekuk Br.				
	Jet Lopee-Maramit Rd		9.233417		Mesablangon Br.				
	Jet Margait-Capissayan Rd		9.233417		Mebhang Br.	2			
	Jet Mengandingay-Saguday-Isabela Bdty		12.147710		Wellis Br.				
	Jet Mengandingay-Saguday-Isabela Bdty		10.784207		Tocuean Br.				
	Jct National-Calamagui Rd		0.093932		Divisoria Br.				
	Jct Nati Road-Bitrong		3.075759		Disiliud Br.				
	Blanca-N Vizcaya Bdty Rd		19.537356		Don Alfonso Enrile Br.				
	Jct Potia-Mt Province Bdty Rd		22.998702		Diduvon Br.				
	Jet Talubin-Barig Paracels-Callecad Rd		45.322873		Disinaka Br.				
	Jct Victoria-Maddela-Alicia-Kasibu Bdty Rd (Jct Ba-	km.	30.433238	Length	Divila Br.				
	Kalinga-Bisig Rd		11.495656		Furu Br.				
	Kalinga-Capitan Rd		63.931721		Funes Br.				
	Kalinga-Capitan Rd (Calanan-Enrile Section)		39.443791		Gabut Br.				
	Klimis-Paracels Rd		21.041517		Gandawa Br.				
	Lallo-Juncdition-Dugo-Camahanungan Rd		1.120965		Gandawon Br.				
	Magapit-Mission Rd		33.028240		Gandawon Br.				
	Magnabit Interchange Rd		1.197907		Goddankao Br.				
	Manila North Rd (Jct Bangag-Pandulon Section)		11.036062		Dumaditao Br.				
	Mt Data Access Rd		0.474651		Dubinian Br.				
	Mt Prog-Cagayan via Tabuk-Enrile Rd		29.578772		Dumalindio Br., with its new name as Balligui Br.				
	Mt Province-Sur via Tugue Rd		34.927097		Elub Br.				
	Mt Province-N Vizcaya Rd		24.785322		Duhahata Br.				
	Mt Province Bdty-Calanan-Binukuk-Abbut Rd		40.980737		Cudal Br.				
	Mt Province Bdty-Calanan-Binukuk-Abbut Rd (Caglu)		31.553887		Cubrador Br.				
	Mt Province Bdty-Calanan-Binukuk-Abbut Rd (Calana		26.970733		Cumag Br.				
	Mt Province Bdty-Calanan-Binukuk-Abbut Rd (Pinupk		13.368237		Cumila Br.				
	Naguillian-Sr Mariano Rd		31.169044		Curiles Br.				
	Namban-Isabela Rd		12.764784		Cumi Br.				
	Nueva Vizcaya-Benguet Rd		35.745899		Cosile Br.				
	Nueva Vizcaya-Iluga-Mt Province Rd		70.992104		Cobabet Br.				
	Nueva Vizcaya-Ifugao Rd		8.732049		Lukban Br.				
	Nueva Vizcaya-Panganinan Rd		17.420605		Colocol Br.				
	Old CVR-Cabagan Rd		0.173742		Lobo Br.				
	Old CVR-Sn Pablo Rd		0.841294		Consuelo Br.				
	Otutan Diversion Rd		1.935373		Curnan Br.				
	PC Barracks Rd		0.159442		Desurakan Br.				
	Pejablanca-Calliso Cave Rd		14.859519		Dawasic Br.				
	Santiago-Baluarte-Quirino Rd		9.793314		Del Pilar Br.				
	Santiago-Tuguegarao By-Pass Rd		3.166161		Linap Br.				
	Santiago-Tuguegarao Rd		109.756549		Diamantina Br.				
	Santiago-Tuguegarao Rd (Jct Kalinga-Tuguegarao Sec		11.317869		Daraqid Br.				
	Sta Filomena-Old Sn Mariano		1.692829		Danguinan Br.				
	Tabuk-Banewa via Tarudan-Barig Rd		18.792009		Dalibubon Br.				
	Tiuc-Abbut Rd		5.312159		Lawan Br.				
	Tunuegarao-Cadre Rd		0.517651		Danane Br.				
	Tunuegarao Div Rd		0.758725		Dao Br.				
Bridge	Baresch Br.	Number	Bailey	Type	Libas Br.				
	Ibon Br.				Iyucan Br.				
	Illuni Br. 1				Inri-in Br.				
	Habbang Br.				Jones Br.				
	Batu Br. 2				Kalafug Br.				
	Batu Br. 1				Junuan Br.				
	Bacao Br.				Indiana Br.				
	Illuni Br. 2				Itot Br.				
	Bailey Br.				Larunday Br.				
	Baqat Br.				Laocog Br.				
	Kinuso Br.				Instabn Br.				
	Bailey Br./Apad Br.				Labni Br.	2			
	Illuni Br. 3				Kinakeo Br.				
	Imuzan Br.				Kiling Br.				
	Kalintaan Br.				Kinalo Br.				
	Gava Br.				Kirang Br.				
	Corocoro Br. 2				Kinawawayen Br.				
	Capegan Br.				Karikton Br.				
	Cabawa Br.				Labni Br. 1				
	Corocoro Br. 1				Kalunekon Br.				
	Chaya Br.				Labato Br.				
	Charaya Br.				Kondkong Br.				
	Gawawyan Br.				Kapayawan Br.				
	Gadav Br.				Gettene Br.				
	Garabuton Br. 4				Laton Br.				
	Bivao Br.				Gawidan Br.				
	Birwanan Br.				Gibien Br.				
	Boneg Br.				Gavong Br.				
	Gagabutan Br. 1				Gattac Br.				

Data Items	Name/Description	Units	Date	Remarks
Bangad Br.				
Balgan Br. 1				
Balling Br.				
Balgat Br.				
Bales Br.				
Bakuk Br.				
Ballecasa Br.				
Balites Br.				
Bauko Br.				
Batu Br.				
Banichuc Br.				
Belenca Br.				
Bayo Br.				
Bavabo Br.				
Baretbet Br.				
Bancasot Br.				
Bannit Br.				
Bannoweg Br.				
Baret Br.				
Barbarit Br.				
Barambam Br.				
Baculud Br. 2				
Alamay Br.				
Alamay Br.				
Alaguia Br.				
Alab Br. #2				
Amicong Br.				
Alimao Br.				
Alibadabed Br.				
Alab Br. #1				
Adunan Br.				
Abian Br.				
Ab-ab Br.				
Agusiguan Br.				
Aga Br. 2				
Aga Br. 1				
Babanguang Br.				
Baan Br.				
Arc Br.				
Baculud Br. 1				
Baculud Br.				
Baculud Br.				
Akaro Br.				
Anipa Br.				
Anguahan Br.				
Angad Br.				
Apad Br.				
Antutot Br. 3				
Antutot Br. 2				
Camalog Br.				
Calititan Br.				
Cacaligan Br.				
Caras Br.				
Cansan Br. 2				
Cansan Br. 1				
Cabulan Br.				
Buslao Br.				
Buros Br.				
Bunos Br.				
Buyon Br.				
Buslao Br. 2		Number	Concrete	Type
Buslao Br. 1				
Casil Br.				
Carmona Br.				
Carmencita Br.				
Cauayan Br.				
Catengtengan Br.				
Cassar Br.				
Carig Br. 5				
Carig Br. 1				
Carapisan Br.				
Caraguian Br.				
Carig Br. 4				
Carig Br. 3				
Carig Br. 2				
Bulagao Br. 1				
Bugnay Br. 2				
Bulagao Br. 3				
Bulagao Br. 2				
Bugnay Br. 1				
Bonfal Br.				
Bolivao Br.				
Buava Br.				
Bontoc Cadre Br.				
Bulanao Br. 1				
Bitnong Br.				
Buluan Br.				
Bobogan Br.				
Benav Br.				
Bical Br.				
Bicud Br.				
Bogbox Br.				
Bulanao Br. 2				
Sta. Fe Br.				
Sta. Isabel Br.				
Sumig Br.				
Tagaran Br.				
Tagga Br.				
Takkil Br.				
Talaca Br.				
Talite Br.				
Talubin Br.				
Tangcul Br.				
Tanioo Br.				
Tanioo Flat Slab Br.				
Tapaya Br.				
Malamag Br.				
Malalam Br.				
Tubo Br.				
Tucalan Br.				
Tuga Br.				
Tuliao Br.				
Tungcab Br.				
Tupang Br.				
Umaboy Br. 1				
Umaboy Br. 2				
Umlan Br.				
Unaon Br.				
Upi Br.				
Uru Br.				
Urungan Br.				

Data Items	Name/Description	Units	Date	Remarks
Lullupa Br.				
Yenggan Br.				
Purae Br.				
Nangnangan Br.				
Nabua Br.				
Macatbat Br.				
Sta. Cruz Br.				
Minanga Br.				
Mammit Br. 2				
Magkens Br.				
Sr. Pablo Br.				
Nanadan Br.				
Menaser Br.				
Melabas Br.				
Maa-asawiran Kahoy Br.				
Maris Dam Br.				
Magat Br.				
Magat Br.				
Palladan Br.				
Nambanan Br.				
Naddungan Br. 1				
Maxingal Br.				
Sr. Lorenzo Ruiz Br.				
Mapaco Br.				
Mataddone Br.				
Magase Br.				
Sisim Br.				
Masirun Br.				
Marabub Br.				
Pinangpad Br.				
Pepeyao Br.				
Pascal Br.				
Peru Br. 3				
Maugan Br. 1				
Runnuno Br. 2				
Namampangan Br.				
Puzer Br.				
Meuanan Br. 2				
Pinagad Br.				
Paddad Br.				
Meragesto Br.				
Mammit Br. 1				
Quisop Br.				
Munro Br.				
Ngipen Br.				
Olanco Br. 1				
Marana Br. 2				
Malapat Br.				
Magapit Br.				
Sinipil Br.				
Naguilian Br.				
Malitep Br.				
Siffu Br.				
Pinacanauan Br.				
Pawawan Br.				
Nakapagan Br.				
Sibalon Br.				
Manano Br.				
Saraaga Br.				
Nassingip Br.				
Naddungan Br. 2				
Magabito Br.				
Masablang Br.				
Marana Br. 1				
Sarabay Br.				
Marabulis Br.				
Nacuetalean Br.				
Mansa Br.				
Patikine Br.				
Macacabbet Br.				
Patall Br.				
Masablang Br. 2				
Santa Br.				
Peru Br. 1				
Mallie Br.				
Quibal Br.				
Nungnungan Br.				
Mapacopaco Br.				
Sangbay Br.				
Sandiat Br.				
San Vicente Br.				
Mabubua Br.				
Rizal Br.				
Pinagan Br.				
Pontian Br.				
Pangul Br.				
San Luis Br.				
San Ignacio Br.				
Paza Br.				
Nalifutan Br.				
Ruao Br.				
Macabenga Br.				
Rosario Br. 1				
Oriwong Br.				
San Fernando Br.				
Pota Br.				
Pavak Br.				
Pina Weste Br.				
Nagantapian Br.				
Olanco Br. 2				
Minante Br.				
Mabirit Br.				
Sagat Br.				
Maldanum Br.				
Peru Br. 2				
Rosario Br. 2				
Nagtum-og Br.				
Maddingat Br. Half of the bridge is concrete				
Barucbo Br.				
Bokaiwan Br.				
Gamu Br.				
Ibulao Br.				
Ganano Br.				
Bagombong Br.				
Burnay Br.				
Dummun Br.				
Bunnayan Br.				
Dumbabato Br.				
Buntun Br.				

Data Items	Name/Description	Units	Data	Remarks	Data Items	Name/Description	Units	Data	Remarks
Bridge	Lacab Br. Antonio Canao Br. Alog Br. Ipil Br. Arcon Br. Calao Br. Piggatan Br. Nalungutan Br. Runruno Br. I Sabangan Br. Saltan Br. San Carlos Br. Magapit Suspension Br. Pasil Br. Mt. Data Br. Parudun Br. Remus Br. Tegzon Br. Mabbang Br. I	Number	Steel Timber	Type	Tinoc San Guillermo Angadan Remulan Kangan Dinanique San Isidro Diadi Lamut Eshesus Cordon Bassebag Villaverde Diffun Ambaguio Kayapa Jones Saguday Solana Bayombong	sq. km.	140.598041 324.480713 126.613563 103.315980 428.601885 449.055474 50.807331 232.745965 138.536388 624.491939 137.241923 161.416467 90.768942 277.153988 181.023785 371.863970 318.720742 51.678213 78.312538	140.598041 324.480713 126.613563 103.315980 428.601885 449.055474 50.807331 232.745965 138.536388 624.491939 137.241923 161.416467 90.768942 277.153988 181.023785 371.863970 318.720742 51.678213 78.312538	Area
River	Cagayan River	km.	42,947,209	Length	Tinoc San Guillermo Angadan Remulan Kangan Dinanique San Isidro Diadi Lamut Eshesus Cordon Bassebag Villaverde Diffun Ambaguio Kayapa Jones Saguday Solana Bayombong	sq. km.	161.605190 240.428090 279.547218 266.432190 1.702841 147.102126 655.974552 302.213961 302.198940 121.050345 268.629370 1381.309207 303.843877 90.212814 218.049813 76.471908 21.111029 225.049791	161.605190 240.428090 279.547218 266.432190 1.702841 147.102126 655.974552 302.213961 302.198940 121.050345 268.629370 1381.309207 303.843877 90.212814 218.049813 76.471908 21.111029 225.049791	Area
District	Cagayan I DEO Cagayan II DEO Apavac I DEO Apavac II DEO Cagayan III DEO Abra DEO Kalinga DEO Isabela I DEO Isabela II DEO Mountain Province DEO Ifugao DEO Isabela III DEO Isabela IV DEO Nueva Vizcaya DEO Quirino DEO Nueva Vizcaya Sub-DEO Bergen I DEO Aurora DEO Nueva Ecija I DEO	sq. km.	1050.055032 1682.736139 4,390.0383 726.15568 1947.442330 5,003.71 2895.353726 2738.779876 2,000.0000 1627.346037 280.035917 1212.079635 2242.797473 1372.107765 2878.989553 206,000.110 1,702.844 434.79952 21,088.622	Area	Tinoc San Guillermo Angadan Remulan Kangan Dinanique San Isidro Diadi Lamut Eshesus Cordon Bassebag Villaverde Diffun Ambaguio Kayapa Jones Saguday Solana Bayombong	..... .....	name	Main City Centers
	Tuguegarao (City) Cauayan (City) Santiago (City) Ballesteros Appari Allacapan Camalaniungan Lai-lo Lasam Gattaran Flora Santo Niño Alcala Bagao Kabugao Amulung Coron Rizal Piat Perahblanca Solana Iauiig Tineg Tuao Lucub Plukuk Balatian Malibcong Enrile Tabuk San Pablo Santa Maria Daguidman Cabagan Pasi Macoracan Quizon Santo Tomas Tanduan Bolines Sububaran Tumauini Delfin Albano Tubo Divilican Tinilayvan Paracelis Mallig Iauiig Besaao Gamu Burros Alfonso Lista (Potia) Apolaldo Palanan San Manuel San Mariano Bauko Mayoyao Sabangan Naguillian Benito Soliven Reina Mercedes Bantay Tadian Aurora Hungduan Luz Cabituan San Mateo Hingyon Legawe Alicia	sq. km.	157,417,806 336,072,844 278,821,923 22,300,658 15,547,254 63,749,988 42,576,888 191,100,398 244,520,872 561,089,791 4,389,980 490,270,111 18,159,125 719,628,166 38,628,172 180,317,448 689,945,880 264,630,865 12,936,630 840,035,827 222,000,151 74,674,648 1,573,094 258,795,968 0,924,237 416,222,056 52,489,995 11,177,734 215,050,123 768,793,758 356,709,424 86,516,884 0,007,018 355,987,968 199,493,581 120,250,243 335,472,338 70,846,495 390,799,285 0,832,492 282,859,567 191,565,724 158,922,788 0,751,301 238,720,474 153,851,626 419,984,023 180,764,860 964,904,537 105,840,984 349,101,489 333,677,549 119,751,067 59,100,375 176,984,494 151,417,384 0,519,435 111,842,575 0,743,163 436,026,695 389,900,055 194,534,559 58,778,689 81,205,139 85,243,198 179,615,554 97,012,351 78,227,517 206,197,799 48,321,387 244,736,266 0,080,631 79,381,441 199,793,191 36,179,645 76,678,080 117,043,154 74,728,427 371,834,407 146,790,341	Area	Forest Mangrove Forest Wooded & Natural Land Annual Crop Perennial Crop Pasture Fish pond Built-up Area Water body	8735.389108 1.712507 8533.896157 9612.936018 263.572903 110.063058 0.000000 119.551428 187.017707	Total Area and Average Depth for River Basin		
				Simulated Flood Inundation	Forest Mangrove Forest Wooded & Natural Land Annual Crop Perennial Crop Pasture Fish pond Built-up Area Water body	sq. km. meter	529.913502 3.143685	Inland Water	
					Forest Mangrove Forest Wooded & Natural Land Annual Crop Perennial Crop Pasture Fish pond Tuguegarao (City) Cauayan (City) Aparri Camalaniungan Allacapan Lai-lo Lasam Enrile Cabagan Santo Tomas Delfin Albano Ilagan Naguillian Angadan	sq. km.	1,030,380 0.095507 25,930,196 38,196,665 6,117,428 0.000000 0.000000 0.742,72 0,057,693 1,297,921 1,377,05 0,633,771 0,116,95 0,031,666 0,569,48 0,110,406 0,105,036 0,033,987 0,001,714 0,337,641 0,034,048 0,040,733	Inundated area by land use except Water body, which is considered as permanently inundated.	
					Tuguegarao (City) Cauayan (City) Ballesteros Aparri Camalaniungan Allacapan Lai-lo Gattaran Lasam Enrile San Pablo Santa Maria Cabagan Santo Tomas Tumauini Delfin Albano Solana Iauiig San Pablo Santa Maria Gamu Naguillian Angadan	sq. km.	21,661,852 18,175,196 10,700,761 17,181,152 31,612,968 4,243,98 39,518,187 21,961,168 27,484,529 35,369,450 10,629,132 46,826,308 2,738,130 1,744,773 53,731,285 19,955,006 8,458,67 2,553,884 12,284,850 13,054,701 9,961,685 15,450,142 5,957,257 30,992,075 4,752,234 5,937,458 5,729,463 3,690,620 5,217,645 5,916,444	Total Inundated Area by City/Municipality	

Data Items	Name/Description	Units	Date	Remarks
Tusucuan (City)			16592.078597	
Cauayan (City)			4981.060312	
Ballesteros			1562311149	
Apoppel			14999.660077	
Camalaniugan			8345.823549	
Allpacan			381.959809	
Lai-lo			2133.982074	
Gattaran			1405.514766	
Lasam			3572.898711	
Alcala			3897.387272	
Santo Niño			488.940076	
Amulung			11097.835104	
Baggao			180.716609	
Piat			291.377031	
Solana			16230.579309	
Iguit			5846.816822	
Enrile			11419.933509	
San Pablo			89.385932	
Santa Maria			2882.369862	
Cabagan			1527.399985	
Santo Tomas			3018.390622	
Tumauini			4047.937171	
Delfin Albano			887.631281	
Ilagan			2758.294714	
Quirino			793.623117	
Gamu			2119.024569	
Naguilao			2201.835704	
Burclos			42.395508	
Reina Mercedes			2552.552090	
Angadan			3307.339561	
Alicia			33.940388	
Echague			581.870917	
Jones			698.994459	
Adinay			302.630875	
Maddela			255.664588	
Nagtupanan			70.997333	
Inundated City/Municipality Population		person		Proportion of City/Municipality Population Inside Inundated Area; Year 2000 Census Data
Inundation Average Depth by Land Use		meter		
Forest			1.766697	
Mangrove Forest			3.154801	
Wooded & Natural Land			3.237063	
Annual Crop			2.723306	
Perennial Crop			0.000000	
Pasture			0.000000	
Fish pond			0.000000	
Tugegarao			1.446991	
Cauayan			3.913546	
Appari			2.011710	
Camalaniugan			1.417839	
Lai-lo			3.696103	
Baggao			2.847832	
Amulung			2.366685	
Solana			1.187060	
Enrile			1.280260	
Cabagan			0.960259	
Santo Tomas			0.507317	
Ilagan			2.720696	
Naguilao			1.355755	
Angadan			7.892904	

* The estimated inundation area and depth are preliminary results, and have not been used for screening/analysis as such, but with some modification based on expert judgements and so on (refer to Data Book C).

Name of Basin: Pamplona				
Data Items	Name/Description	Units	Data	Remarks
River Basin				
Area		sq. km.	668.569730	
Perimeter		km.	125.551687	
Population		person	32470	Census Population
Year 2005			32535	Projected Population
Road	Claveria-Calanasan-Kabugao R	km.	86.744317	Length
	Manila North Rd		97.384825	
Bridge				
	Muslim Br. 2			
	Salamunting Br. 1			
	Salamunting Br. 2			
	Muslim Br. 1			
	Capago Br.			
	Allastan Br.			
	Carmela Br.			
	Pamplona Br.			
River	Pamplona River	km.	55.948381	Length
District		sq. km.	190.453806	Area
	Apayo II DEO		475.541347	
City/Municipality				
	Claveria		13.752962	
	Sanchez-Mira		68.416496	
	Pamplona		108.267807	Area
	Luna		412.001084	
	Calanasan		63.559357	
Name of Urban Center	.....	name		Main City Centers
			
Land Use of River Basin				
	Forest		580.013576	Natural, Plantation, Bamboo
	Mangrove Forest		13.568856	
	Wooded & Natural Land		54.160025	Shrub, Grassland, Barren, Marshland
	Annual Crop		14.713291	
	Perennial Crop		0.163080	Agricultural Land
	Pasture		0.000000	
	Fish pond		0.000000	
	Built-up Area		0.179803	
	Water body		5.630240	Inland Water
Simulated Flood Inundation	Area	sq. km.	16.281793	Total Area and Average Depth for River Basin
	Average Depth	meter	3.056565	
Inundated Area by Land Use				
	Forest		3.768514	Inundated area by land use except River Basin
	Mangrove Forest		2.216809	
	Wooded & Natural Land		3.462096	
	Annual Crop		4.512375	
	Perennial Crop		0.000000	
	Pasture		0.000000	
	Fish pond		0.000000	
Inundated Area by Administrative Boundary	Pamplona	sq. km.	10.080749	Total Inundated Area by City/Municipality
	Luna		5.645582	
	Calanasan		0.062521	
Inundated City/Municipality Population	Pamplona	person	119.609179	Proportion of City/Municipality Population Inside
	Luna		129.848381	
	Calanasan		0.875288	
Inundation Average Depth by Land Use		meter	4.940379	
	Forest		2.171110	
	Mangrove Forest		2.725481	
	Wooded & Natural Land		2.314497	
	Annual Crop		0.000000	
	Perennial Crop		0.000000	
	Pasture		0.000000	
	Fish pond		0.000000	

* The estimated inundation area and depth are preliminary results, and have not been used for screening/analysis as such, but with some modification based on expert judgements and so on (refer to Data Book C).

Name of Basin: Palanan				
Data Items	Name/Description	Units	Data	Remarks
River Basin				
Area		sq. km.	598.566747	
Perimeter		km.	148.241075	
Population		person	13606.000000	Census Population
Year 2000			15328.000000	Projected Population
Year 2005			0.000000	Length
Road	None			
Bridge	None	Number	0.000000	Type
River	Palanan River	km.	76.030796	Length
	Isabela II DEO		352.839728	
District	Isabela IV DEO	sq. km.	154.879587	Area
	Palanan		88.560439	
City/Municipality	San Mariano	sq. km.	154.884289	Area
	Dinapigue		88.568292	
Name of Urban Center	.....	name		Main City Centers
			
Land Use of River Basin				
	Forest		512.204015	Natural, Plantation, Bamboo
	Mangrove Forest		0.000000	
	Wooded & Natural Land		9.939117	Shrub, Grassland, Barren, Marshland
	Annual Crop		73.021633	
	Perennial Crop		0.000000	Agricultural Land
	Pasture		0.000000	
	Fish pond		0.000000	
	Built-up Area		0.000000	
	Water body		2.765398	Inland Water
Simulated Flood Inundation	Area	sq. km.	19.600023	Total Area and Average Depth for River Basin
	Average Depth	meter	2.233658	
Inundated Area by Land Use				
	Forest		3.036297	Inundated area by land use except River Basin
	Mangrove Forest		0.000000	
	Wooded & Natural Land		0.104765	
	Annual Crop		14.800186	Water body, which is considered as permanently inundated
	Perennial Crop		0.000000	
	Pasture		0.000000	
	Fish pond		0.000000	
Inundated Area by Administrative Boundary	Palanan	sq. km.	1.6112994	Total Inundated Area by City/Municipality
	San Mariano		1.035821	
	Dinapigue		0.723744	
Inundated City/Municipality Population	San Mariano	person	41.432827	Proportion of City/Municipality Population Inside
	Dinapigue		2.894977	
Inundation Average Depth by Land Use		meter	1.572859	
	Forest		4.332992	
	Mangrove Forest		0.000000	
	Wooded & Natural Land		3.656652	
	Annual Crop		1.372859	
	Perennial Crop		0.000000	
	Pasture		0.000000	
	Fish pond		0.000000	

* The estimated inundation area and depth are preliminary results, and have not been used for screening/analysis as such, but with some modification based on expert judgements and so on (refer to Data Book C).

Name of Basin: Banurbour (LAI-LOI)				
Data Items	Name/Description	Units	Data	Remarks
River Basin				
Area		sq. km.	405.957084	
Perimeter		km.	110.355697	
Population		person	31920	Census Population
Year 2000			33004	Projected Population
Year 2005				
Road	Dugo-Sn Vicente Rd (Dugo-Mission Sect.)	km.	26.018227	
	Dugo-Sn Vicente Rd (Mission-Sta Ana Sect.)		45.589559	Length
	Magapit-Mission Rd		33.028240	
Bridge				
	Palagao Br. 1			
	Namunti Br.			
	Nagsabaran Br.			
	Sta. Teresita Br.			
	Simpatiwan Br.			
	Palagao Br. 2			
	Lalagudan Br.			
	Gulasing Br.			
	Alucago Br.			
	Nagbabacalan Br.			
	Mision Br.			
	Masi Br.			
River	Lai-lo2 River	km.	26.905176	Length
District	Cagayan I DEO	sq. km.	405.953779	Area
	Gonzaga		34.806914	
	Santa Teresita		26.295243	
City/Municipality	Buquey	sq. km.	14.21491	Area
	Lai-lo		331.374819	
	Gattaran		9.358617	
Name of Urban Center	.....	name		Main City Centers
			
Land Use of River Basin				
	Forest		214.796936	Natural, Plantation, Bamboo
	Mangrove Forest		1.265783	
	Wooded & Natural Land		132.224637	
	Annual Crop		57.631198	
	Perennial Crop		0.000000	
	Pasture		0.000000	
	Fish pond		0.000000	
Simulated Flood Inundation	Area	sq. km.	9.965937	Total Area and Average Depth for River Basin
	Average Depth	meter	0.137466	
Inundated Area by Land Use				
	Forest		1.010011	
	Mangrove Forest		1.170790	
	Wooded & Natural Land		1.282950	
	Annual Crop		6.273398	
	Perennial Crop		0.000000	
	Pasture		0.000000	
	Fish pond		0.000000	
Inundated Area by Administrative Boundary	Santa Teresita	sq. km.	4.224516	Total Inundated Area by City/Municipality
	Gonzaga		4.224516	
	Lai-lo		1.045899	
Inundated City/Municipality Population	Santa Teresita	person	1837.219100	Proportion of City/Municipality Population Inside
	Gonzaga		283.739380	
	Lai-lo		56.516342	
Inundation Average Depth by Land Use		meter	2.193435	
	Forest		2.500092	
	Mangrove Forest		1.560877	
	Wooded & Natural Land		2.111507	
	Annual Crop		0.000000	
	Perennial Crop		0.000000	
	Pasture		0.000000	
	Fish pond		0.000000	

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Name of Basin: Claveria (Cabitungan)					
Data Items	Name/Description	Units	Data	Remarks	
River Basin	Area	sq. km.	253.553490		
	Perimeter	km.	82.162106		
Population	Year 2000	person	18694	Census Population	
	Year 2005		17955	Projected Population	
	Apayao (Calasanan)-Ilocos Norte Rd		22.380593		
Road	Cagdaci-Kabugao Rd	km.	6.522528		
	Claveria-Calasanan-Kabugao		88.744317		
	Olongapo-Diabullo-Luzon-Cagayan Bdwy Rd		10.377305		
	Manila North Rd		97.384825		
	Parina Br. 2			Bailey	
Bridge	Cadongodongan Br.			Bailey	
	Parina Br. 1			Bailey	
	Bunot Br. 1			Bailey	
	Bunot Br. 2			Bailey	
	Lahabla Br.			Concrete	
	Mabnang Br.			Concrete	
	Pinas Br.			Concrete	
	Cagdaci Br. 2			Concrete	
	Cagdaci Br. 1			Concrete	
	Claveria Br.			Concrete	
	Kilkiline Br.			Concrete	
	Dackel Danum Br.			Concrete	
River	Cabitungan River	km.	36.559500		Length
District	Apayao II DEO	sq. km.	150.430260		
	Ilocos Norte I DEO		93.825618		Area
	8.812613				
City/Municipality	Claveria		89.402020		
	Santa Praxedes		61.017385		
	Calasanan		91.889438		
	Pagudpud		0.636911		
	Adams		8.755646		
	Luna		2.047482		
Name of Urban Center	.....				Main City Centers
				
Land Use of River Basin	Forest		195.723561		Natural Plantation, Bamboo
	Mangrove Forest		0.000000		
	Wooded & Natural Land		16.097406		Shrub, Grassland, Barren, Marshland
	Annual Crop	Area, sq. km.	39.868016		
	Perennial Crop		0.143789		Agricultural Land
	Pasture		0.000000		
	Fish pond		0.000000		
	Built-up Area		1.497212		
	Water body		1.497212		Inland Water
Simulated Flood Inundation	Area	sq. km.	12.217113	Total Area and Average Depth for River Basin	
	Average Depth	meter	1.717295		
Inundated Area by Land Use	Forest		2.000298		
	Mangrove Forest		0.000000		
	Wooded & Natural Land		0.000000		Inundated area by land use except Water body
	Annual Crop	sq. km.	9.905417		
	Perennial Crop		0.000000		which is considered as permanently inundated.
	Pasture		0.000000		
	Fish pond		0.000000		
	Claveria		0.091659		
Inundated Area by Administrative Boundary	Claveria		11.225400	Total Inundated Area by City/Municipality	
	Santa Praxedes		0.991713		
Inundated City/Municipality Population	Claveria		1941.994271		Proportion of City/Municipality Population Inside Inundated Area: Year
	Santa Praxedes		30.743102		
Inundation Average Depth by Land Use	Forest		2.570163		
	Mangrove Forest		0.000000		
	Wooded & Natural Land		0.000000		
	Annual Crop	meter	1.512005		
	Perennial Crop		0.000000		
	Pasture		0.000000		
	Fish pond		0.000000		
	Claveria		1.131812		

* The estimated inundation area and depth are preliminary results, and have not been used for screening/analysis as such, but with some modification based on expert judgements and so on (refer to Data Book C).

Data Items	Name/Description	Units	Data	Remarks
	Forest		3.941481	
	Mangrove Forest		0.163861	
	Wooded & Natural Land		1.303032	
Inundation Average Depth by Land Use	Annual Crop		0.846219	
	Perennial Crop		1.319416	
	Pasture		0.000000	
	Fish pond		0.000000	

* The estimated inundation area and depth are preliminary results, and have not been used for screening/analysis as such, but with some modification based on expert judgements and so on (refer to Data Book C).

Data Items	Name/Description	Units	Data	Remarks
River Basin	Area	sq. km.	1574.430785	
	Perimeter	km.	331.089253	
Population	Year 2000	person	1500237	Census Population
	Year 2005		1616253	Projected Population
	Angeles-Porac-Floridablanca-Dinalupihan Rd		29.282096	
Road	Apalit-Macabebe-Masantol		9.786461	
	Arayat-Magalang-Mabalacat		15.224043	
	Bahay Pare-Sn Luis-Sto Domingo Rd		17.005397	
	Baliwag-Candaba-Sta Ana Rd		7.896755	
	Camp Dau Rd		0.737736	
	Gapan-Sn Fernando-Olongapo Rd		55.479850	
	Lubao Div Rd		2.067732	
	Manila North Rd		46.245756	
	Mt Arayat National Park Road		3.588078	
	Northwest Div Rd		2.418980	
	Old Manila North Rd		5.482842	
	San Vicente-Apalit Road		1.613794	
	Sasmuan-Lubao Rd		2.251420	
	Sn Antonio-Floridablanca Rd		12.720062	
	Sn Fernando-Lagundi Rd		3.873881	
	Sn Fernando-Lubao Rd		15.729788	
	Tulauc-Sto Domingo Rd		9.658956	

Data Items	Name/Description	Units	Data	Remarks
River	San Antonio Br.			
	San Jose Br.			
	RR Crossing Br.			
	San Agustin Br.			
	San Juan Bautista Br.			
	San Juan Br. 1			
	San Juan Br. 2			
	San Matias Br.			
	San Miguel Br.			
	Palawe Br.			
	Palcarangan Br.			
	Natividad Br.			
	Overpass Br. 1			
	Panlumacan Br.			
	Pure Br.			
	Remedios Br.			
	Paranum Br.			
	Pujol-Bulu Br.			
	San Roque Br.			
	Sta. Monica Br.			
	Sta. Domingo Br.			
	Sta. Cruz Br. 1			
	Sta. Cruz Br. 2			
	Taric Br.			
	Tulauc Br.			
	Valdez Br.			
	Telapayne Br.			
	Tinajero Br.			
	Sn. Antonio Br.			
	Sn. Gabriel Br.			
	Santol Br.			
	Sapang Balen Br.			
	Sn. Isidro Br.			
	Sta. Barbara Br.			
	Sta. Cruz Br.			
	Sn. Pablo Br.			
	Sta. Ana Br.			
	Cauluman Br.			
	Consuelo Br.			
	Cacutud Br.			
	Caduang Tete Br.			
	Cutcut Br.			
	Del Pilar Br.			
	Fortuna Br.			
	Dalaquitian Br.			
	Dau Br.			
	Are Br.			
	Balibago Br.			
	Abacan Br.			
	Alasas Br.			
	Balyut Br.			
	Caballariza Br.			
	Cabetican Br.			
	Banqueruan Br. 2			
	Banqueruan Br. 1			
	Mancatian Br.			
	Maniba Br.			
	Magliman Br.			
	Manapu Br.			
	Marmilla Br.			
	Mexico Br.			
	Muson Br.			
	Matalaba Br.			
	Matuba Br.			
	Gugu Br. 2			
	Lagundi Br.			
	Gugu Br.			
	Gugu Br. 1			
	Lauc Pao Br.			
	Lucsuan Br. 1			
	Lucsuan Br. 2			
	Lubao B.			
	Mc Donald's Fly Over			
	Colgate Br.			
	Tiaong Br.			
River	Guagua River	km.	56.898482	Length
District	1. Pampana Sub-DEO		84.239906	
	2. Pampana I DEO		642.765838	
	3. Pampana II DEO		603.784463	
	4. Zambales Sub-DEO		3.377678	
	5. Zambales DEO		18.081005	
	6. Zambales Sub-DEO		119.836977	
	7. Bulacan I DEO		97.087400	
	8. Bataan I DEO		0.322981	
City/Municipality	Angeles City (City)	sq. km.	58.792209	
	San Fernando (City)		6.7595137	
	Magalang		6.395507	
	Arayat		78.621313	
	Mabalacat		16.157922	
	Mexico		121.499674	
	Porac		255.409078	
	Santa Ana		44.096999	
	Botolan		18.077956	
	Candaba		14.172422	
	Bacolor		72.668477	
	San Marcelino		90.652820	

Data Items	Name/Description	Units	Date	Remarks
City/Municipality	San Luis	sq. km.	10.961783	Area
	Floridablanca		155.261717	
	Santa Rita		23.562810	
	San Simon		23.562810	
	Guagua		43.495524	
	Santo Tomas		13.191289	
	Minalin		45.705396	
	Lubao		108.17834	
	Apalit		23.884749	
	Castillejos		3.027864	
	Subic		3.027864	
	Sasmuan (Sexmuan)		17.759979	
	Macabebe		35.712517	
	Calumpit		12.480794	
	Masantol		91.672945	
	Hagonoy		71.774954	
	Hermosa		0.291588	
	Orani		0.032283	
	Paoaybong		12.840999	
Name of Urban Center	.....	name	Main City Centers	
Land Use of River Basin	Forest	Area, sq. km.	96.116168	Natural, Plantation, Bamboo
	Mangrove Forest		0.000000	
	Wooded & Natural Land		420.633728	Shrub, Grassland, Barren, Marshland
	Annual Crop		674.355633	Agricultural Land
	Perennial Crop		27.196405	
	Pasture		0.000000	
	Fish pond		233.283981	
	Built-up Area		102.308954	
	Water body		14.280312	Inland Water
			128.511354	
Simulated Flood Inundation	Area	sq. km.	128.511354	Total Area and Average Depth for River Basin
	Average Depth	meter	1.886206	
Inundated Area by Land Use	Forest	sq. km.	0.000000	
	Mangrove Forest		0.000000	
	Wooded & Natural Land		1.138705	
	Annual Crop		39.982410	Inundated area by land use except Water body, which is considered as permanently inundated.
	Perennial Crop		0.000000	
	Pasture		0.000000	
	Fish pond		29.930652	
	Angeles City (City)		0.005126	
	San Fernando (City)		0.497215	
	Mexico		20.199864	
Inundated Area by Administrative Boundary	Santa Ana	sq. km.	5.823286	Total Inundated Area by City/Municipality
	Bacolor		0.310145	
	Guagua		12.553424	
	Lubao		34.052815	
	Sasmuan (Sexmuan)		26.924215	
	Macabebe		0.172478	
	Masantol		10.435624	
	Hermosa		0.007895	
	Orani		0.013289	
			6035.76418	
Inundated City/Municipality Population	Angeles City (City)	person	12410.63615	Proportion of City/Municipality Population Inside Inundated Area; Year 2000 Census Data
	San Fernando (City)		410.68742	
	Arayat		18159.67775	
	Mexico		5677.70953	
	Santa Ana		68.85213	
	Bacolor		27956.47523	
	Guagua		26434.10014	
	Lubao		15992.98347	
	Sasmuan (Sexmuan)		315.63559	
	Macabebe		4591.76248	
Inundation Average Depth by Land Use	Masantol		23.08456	
	Hermosa		17.64778	
	Orani			
			0.000000	
	Forest	0.000000		
	Mangrove Forest	0.000000		
	Wooded & Natural Land	1.950411		
	Annual Crop	1.457545		
	Perennial Crop	0.000000		
	Pasture	0.000000		
Inundation Average Depth by Land Use	Fish pond	2.012387		
	Angeles City (City)	1.892419		
	San Fernando (City)	0.911239		
	Arayat	1.610115		
	Mexico	0.585661		
	Santa Ana	1.462650		
	Bacolor	1.175823		
	Guagua	1.901068		
	Lubao			
	Sasmuan (Sexmuan)			

* The estimated inundation area and depth are preliminary results, and have not been used for screening/analysis as such, but with some modification based on expert judgements and so on (refer to Data Book C).

Name of Basin: Santa Rita (Olongapo City)				
Data Items	Name/Description	Units	Date	Remarks
River Basin	Area	sq. km.	118.71	
	Perimeter	km.	61.16	
Population	Year 2000	person	112592	Census Population
	Year 2005		110793	Projected Population
Road	Apo Rotonda Road	km.	0.07	
	Gapan-Olongapo Rd		21.52	
	Gapan-Sn Fernando-Olongapo Rd	km.	8.09	Length
	Marsaysay Drive		0.60	
	Olongapo-Bugallon Rd		28.89	
	Rizal Ave		1.08	
Bridge	Kalakin Br.	Number	Concrete	Type
	Maquinaya Br.			
	Cabalan Br.			
	Bajac-Bajac Br.			
River	Olongapo River	km.	23.36	Length
District	I. Zambales Sub-DEO	sq. km.	86.760453	Area
	Z. Bataan I DEO		1.519183	
City/Municipality	Olongapo City (City)	sq. km.	67.996171	
	Subic		17.944139	
	Dinalupihan		0.761139	
	Morong		0.759319	
Name of Urban Center	.....	name	Main City Centers	

Data Items	Name/Description	Units	Data	Remarks
Land Use of River Basin	Forest	Area, sq. km.	41.005983	Natural, Plantation, Bamboo
	Mangrove Forest		0.000000	
	Wooded & Natural Land		56.457951	Shrub, Grassland, Barren, Marshland
	Annual Crop		11.628511	Agricultural Land
	Perennial Crop		0.000000	
	Pasture		0.000000	
	Fish pond		0.000000	
	Built-up Area		8.473024	
	Water body		0.420738	Inland Water
Simulated Flood Inundation	Area	sq. km.	3.370113	Total Area and Average Depth for River Basin
	Average Depth	meter	1.6933665	
Inundated Area by Land Use	Forest	sq. km.	0.216973	
	Mangrove Forest		0.000000	
	Wooded & Natural Land		0.240240	Inundated area by land use except Water body, which is considered as permanently inundated.
	Annual Crop		0.000000	
	Perennial Crop		0.000000	
	Pasture		0.000000	
	Fish pond		0.2582361	
	Olongapo City (City)		3.122653	Total Inundated Area by Olongapo City (City)
	Olongapo City	person	5099.297595	Proportion of Olongapo City (City)
			1.140607	
Inundation Average Depth by Land Use	Forest	meter	1.462902	
	Mangrove Forest		0.000000	
	Wooded & Natural Land		0.000000	
	Annual Crop		0.000000	
	Perennial Crop		0.000000	
	Pasture		0.000000	
	Fish pond		0.000000	
	Olongapo City (City)		1.731864	

* The estimated inundation area and depth are preliminary results, and have not been used for screening/analysis as such, but with some modification based on expert judgements and so on (refer to Data Book C).

Name of Basin: Bucao				
Data Items	Name/Description	Units	Data	Remarks
River Basin	Area	sq. km.	724.650132	
	Perimeter	km.	138.615737	
	Population	Year 2000	57315	Census Population
		Year 2005	60015	Projected Population
	Road	km.	112.405076	Length
	Batanoc-Bugallon Rd	km.	6.911698	
	Bridge	Number	1	Concrete
	River	km.	41.493368	Length
	Tarlac DEO		41.301857	
	Zambales DEO		642.404003	Area
Inundation Average Depth by Land Use	Tarlac Sub-DEO		11.789193	
	Zambales Sub-DEO		28.844576	
	San Jose		41.293105	
	Iba		38.152961	
	Botolan		574.186726	
	Capas		11.799435	
	Cabangan		26.174579	
	San Felipe		3.891087	
	San Marcelino		28.850090	
Name of Urban Center	.....	name	Main City Centers	

Data Items	Name/Description	Units	Data	Remarks
Land Use of River Basin	Forest	Area, sq. km.	87.509162	Natural, Plantation, Bamboo
	Mangrove Forest		0.000000	
	Wooded & Natural Land		531.960998	Shrub, Grassland, Barren, Marshland
	Annual Crop		37.277897	
	Perennial Crop		11.317856	Agricultural Land
	Pasture		0.000000	
	Fish pond		0.000000	
	Built-up Area		0.597185	
	Water body		55.987034	Inland Water
Simulated Flood Inundation	Area	sq. km.	19.260702	Total Area and Average Depth for River Basin
	Average Depth	meter	1.310499	
Inundated Area by Land Use	Forest	sq. km.	0.000000	
	Mangrove Forest		0.000000	
	Wooded & Natural Land		5.504647	Inundated area by land use except Water body,
	Annual Crop		4.341735	which is considered as permanently inundated.
	Perennial Crop		0.132903	
	Pasture		0.000000	
	Fish pond		0.000000	
	Botolan		0.003388	
Inundated Area by Botolan	sq. km.	18.780594	Total Inundated Area by Botolan	
Inundated	Botolan	person	1277.080412	Proportion of
Inundation Average Depth by Land Use	Forest	meter	0.000000	
	Mangrove Forest		0.000000	
	Wooded & Natural Land		1.728776	
	Annual Crop		1.156837	
	Perennial Crop		0.747654	
	Pasture		0.000000	
	Fish pond		0.000000	
	Botolan		1.160944	

* The estimated inundation area and depth are preliminary results, and have not been used for screening/analysis as such, but with some modification based on expert judgements and so on (refer to Data Book C).

Name of Basin: Angat				
Data Items	Name/Description	Units	Data	Remarks
River Basin	Area	sq. km.	899.794684	
	Perimeter	km.	233.070405	
Population	Year 2000	person	402278	Census Population
	Year 2005		409538	Projected Population
Road	Baliwag-Bustos Rd	km.	1.463297	
	Baliwag-Candaba Rd		6.939284	
	Bigaa-Plaridel via Bulacan & Malolos Rd		23.441156	
	Daang Mahaikla (LZ)		16.939186	
	Gen Alejo Santos Hwy		16.373467	
	Gen Alejo Santos Highway		13.676488	
	Manila North Rd		6.716351	
	NCR/Bulacan Bdry-Bigte-Ipo Dam Rd		18.466147	
	Norzagay-Bigte Rd		8.133429	
	Old Angat Valley Rd		12.441366	
Bridge	Plaridel-Pullian Div Rd		3.089279	
	Plaridel Airport Rd		1.036396	
	Pullian Railroad Station Rd		1.348712	
	Sta Maria-Norzagay Rd		14.005883	
River	Angat River	km.	65.145963	
District	Nueva Ecija I DEO	sq. km.	1.820488	
	Aurora I DEO		7.952102	
	Bulacan I DEO		738.218469	
	Quizon I DEO		31.214875	
City/Municipality	Bulacan II DEO		28.050865	
	Rizal II DEO		92.535370	
	San Jose Del Monte (City)		62.326380	
	General Tinio		1.819371	
	Dingalan		7.952102	
	San Miguel		143.589949	
	General Nakar		31.215611	
	San Ildefonso		10.420297	
	San Rafael		138.694708	
	Norzagay		253.545212	
Land Use of River Basin	Davao Remedios Trinidad	sq. km.	77.551143	
	Angat		50.162333	
	Bustos		11.287468	
	Baliuag		2.826295	
	Pandi		3.341413	
	Pullian		1.293264	
	Plaridel		6.885320	
	Santa Maria		1.914640	
	Calumpit		2.423087	
	Rodriguez		92.546090	
Name of Urban Center	.....	name		Main City Centers
			
Simulated Flood Inundation	Forest	Area, sq. km.	621.538003	
	Mangrove Forest		0.000000	
	Wooded & Natural Land		167.559958	Shrub, Grassland, Barren, Marshland
	Annual Crop		82.198479	
	Perennial Crop		1.086592	
	Pasture		0.000000	
	Fish pond		0.657227	
	Built-up Area		3.460706	
	Water body		23.294117	Inland Water
Simulated Flood Inundation	Area	sq. km.	24.988520	Total Area and Average Depth for River Basin
	Average Depth	meter	3.270825	
Inundated Area by Land Use	Forest	sq. km.	0.148582	
	Mangrove Forest		0.000000	
	Wooded & Natural Land		2.257720	
	Annual Crop		12.269747	
	Perennial Crop		0.522000	
	Pasture		0.000000	
	Fish pond		0.518068	Inundated area by land use except Water body, which is considered as permanently inundated.
	Bustos		0.021541	
	Baliuag		0.000895	
	Angat		0.021849	
	Norzagay		0.025905	
	Pullian		0.203077	
	Plaridel			

Data Items	Name/Description	Units	Data	Remarks
Inundated Area by Administrative Boundary	Bustos	sq. km.	4.986565	
	San Rafael		0.208192	
	Baliuag		1.205126	
	Angat		4.875175	Total Inundated Area by City/Municipality
	Plaridel		5.459516	
	Pullian		2.203913	
	Norzagay		3.819667	
	Calumpit		2.231366	
Inundated City/Municipality Population	Bustos	person	5579.66084	
	San Rafael		52.047959	Proportion of City/Municipality Population Inside
	Baliuag		3709.377733	Population Inside Year 2000 Census Data
	Angat		4451.034911	
	Plaridel		4004.510092	
	Pullian		10361.29887	
	Norzagay		3967.336126	
	Calumpit			
Inundation Average Depth by Land Use	Forest	meter	7.353832	
	Mangrove Forest		0.000000	
	Wooded & Natural Land		3.801572	
	Annual Crop		3.410138	
	Perennial Crop		3.281953	
	Pasture		0.000000	
	Fish pond		5.171959	
	Bustos		5.449077	
	Baliuag		1.167644	
	Norzagay		0.804192	
Name of Basin: Malupa-Dian (Aganae)	Pullian	km.	0.714705	
	Plaridel		3.422496	

* The estimated inundation area and depth are preliminary results, and have not been used for screening/analysis as such, but with some modification based on expert judgements and so on (refer to Data Book C).

Data Items	Name/Description	Units	Data	Remarks
Road	River Basin	sq. km.	544.998722	
	Perimeter	km.	131.678061	
	Year 2000	person	40214	Census Population
	Year 2005		42388	Projected Population
	Baler-Casiguran Rd (Baler-Dinadewan)	km.	61.057946	
	Baler-Cemento via Dicaloyungan		8.410451	
	Nueva Ecija-Aurora Rd		111.394360	
	Sn Luis-Ma Aurora-A Casta?da Rd		39.292771	
	Dipawian Br.			
	Dimotol Br.			
Bridge	Dimasalan Br.	Number		
	Villa Br. (Washed out)			
	Pudoc Br.			
	Malupa Br.			
	Dimanlat Br.			
	Binuangan Br.			
	Baubo Br.			
	Aguano Br.			
	Dimani Br.			
	Dicong Br.			
River	Dianawan Br.	Concrete		
	Aguano River			
	Nueva Vizcaya Sub-DEO			
	Aurora DEO			
	Nueva Ecija I DEO			
	Nueva Ecija II DEO			
	Alfonso Castaneda			
	Maria Aurora			
	Dipaculao			
	Baler			
District	.....	name		Main City Centers
	Forest	sq. km.	409.994765	
	Mangrove Forest		0.000000	
	Wooded & Natural Land		31.236303	Shrub, Grassland, Barren, Marshland
	Annual Crop		59.123235	
	Perennial Crop		36.565183	
	Pasture		0.000000	
	Fish pond		0.000000	
	Built-up Area		2.382632	
	Water body		5.645735	Inland Water
Simulated Flood Inundation	Simulated Flood Inundation	Area	18.972001	Total Area and Average Depth for River Basin
	Average Depth	meter	2.131141	
	Forest	sq. km.	0.962445	
	Mangrove Forest		0.000000	
	Wooded & Natural Land		1.242376	
	Annual Crop		9.497284	Inundated area by land use except Water body, which is considered as permanently inundated.
	Perennial Crop		4.718381	
	Pasture		0.000000	
	Fish pond		0.024932	
	Maria Aurora		0.024932	
Inundated Area by Land Use	Baler	sq. km.	0.691170	
	Alfonso Castaneda		0.838157	
	Maria Aurora		7.938951	Total Inundated Area by City/Municipality
	Dipaculao		1.674964	
	Baler		8.519929	
	.....	name		
	Forest	Number		
	Mangrove Forest			
	Wooded & Natural Land			
	Annual Crop			
	Perennial Crop			
	Pasture			
	Fish pond			
	Built-up Area			
	Maria Aurora			
	Baler			
Inundated City/Municipality Population	Forest	sq. km.	7.334810	
	Mangrove Forest		0.000000	
	Wooded & Natural Land		5.480655	
	Annual Crop		1.166809	
	Perennial Crop		3.826524	
	Pasture		0.000000	
	Fish pond		0.000000	
	Built-up Area		0.785359	
	Maria Aurora		2.998601	
	Baler			
Name of Basin: Nayum (Nayam)				

Data Items	Name/Description	Units	Date	Remarks
City/Municipality	Mabini	sq. km.	6,788140	
	Infanta		134,920987	
	Dasol		0,273957	Area
	Santa Cruz		79,111330	
	Bugallon		3,841106	
Name of Urban Center	.....	name		Main City Centers
			
Land Use of River Basin	Forest	Area, sq. km.	54,465369	Natural, Plantation, Bamboo
	Mangrove Forest		0,000000	
	Wooded & Natural Land		144,246537	Shrub, Grassland, Barren, Marshland
	Annual Crop		24,787039	
	Perennial Crop		0,000000	Agricultural Land
	Pasture		0,000000	
	Fish pond		1,175515	
	Built-up Area		0,084410	
	Water body		0,624341	Inland Water
Simulated Flood Inundation	Area	sq. km.	10,015317	Total Area and Average Depth for River Basin
	Average Depth	meter	2,758953	
Inundated Area by Land Use	Forest	sq. km.	0,266793	
	Mangrove Forest		0,000000	
	Wooded & Natural Land		2,314598	Inundated area by land use except Water body, which is considered as permanently inundated.
	Annual Crop		7,244651	
	Perennial Crop		0,000000	
Inundated Area by Administrative City/Municipality	Pasture	meter	0,000000	
	Fish pond		0,017334	
Inundation Average Depth by Land Use	Infanta	sq. km.	8,631878	Total Inundated Area by City/Municipality
	Santa Cruz		1,383639	
	Infanta		828,61085	Proportion of City/Municipality
	Santa Cruz		170,187582	
Inundation Average Depth by Land Use	Forest	sq. km.	1,983320	
	Mangrove Forest		0,000000	
	Wooded & Natural Land		2,672952	
	Annual Crop		2,854399	
	Perennial Crop		0,000000	
Inundation Average Depth by Land Use	Pasture	meter	0,000000	
	Fish pond		1,558949	

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Name of Basin: Agos				
Data Items	Name/Description	Units	Date	Remarks
River Basin	Area	sq. km.	548,368958	
	Perimeter	km.	156,088105	
Population	Year 2000	person	51790	Census Population
	Year 2005		51720	Projected Population
Road	Famy-Real-Infanta-Dinahican Port Rd	km.	56,147513	Length
	Markina-Infanta Rd		5,428166	
Bridge	Pinakhaluguan Br.	Number		Type
	Tongohn Br.			
River	Agos River	km.	71,622857	Length
District	Quezon I DEO	sq. km.	545,578730	Area
	General Nakar		448,403536	
City/Municipality	Infanta	sq. km.	16,805764	Area
	Real		20,373240	
Name of Urban Center	.....	name		Main City Centers
			
Land Use of River Basin	Forest	Area, sq. km.	446,078937	Natural, Plantation, Bamboo
	Mangrove Forest		28,374316	
	Wooded & Natural Land		15,969666	Shrub, Grassland, Barren, Marshland
	Annual Crop		41,102302	Agricultural Land
	Perennial Crop		9,758064	
	Pasture		0,000000	
	Fish pond		0,000000	
	Built-up Area		0,435876	
	Water body		4,594697	Inland Water
Simulated Flood Inundation	Area	sq. km.	11,225543	Total Area and Average Depth for River Basin
	Average Depth	meter	3,047232	
Inundated Area by Land Use	Forest	sq. km.	2,687460	
	Mangrove Forest		0,031268	
	Wooded & Natural Land		0,740278	Inundated area by land use except Water body, which is considered as permanently inundated.
	Annual Crop		4,904071	
	Perennial Crop		1,225757	
Inundated Area by Boundary	Pasture	sq. km.	0,000000	
	Fish pond		0,000000	
	General Nakar		0,010191	
	Infanta		0,025941	
Inundated Area by Boundary	General Nakar	sq. km.	6,036671	Total Inundated Area by City/Municipality
	Infanta		3,718029	
	Real		0,543971	
	General Nakar		96,586742	Proportion of City/Municipality
Inundated Area by Population	General Nakar	person	2085,814014	Population Inside
	Infanta		40,797838	
Inundation Average Depth by Land Use	Forest	meter	5,411907	
	Mangrove Forest		1,623620	
	Wooded & Natural Land		3,672895	
	Annual Crop		1,802683	
	Perennial Crop		1,577794	
Inundation Average Depth by Land Use	Pasture	meter	0,000000	
	Fish pond		0,000000	
	Infanta		0,465090	

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Name of Basin: Imus				
Data Items	Name/Description	Units	Date	Remarks
River Basin	Area	sq. km.	121,814556	
	Perimeter	km.	91,668343	
Population	Year 2000	person	808832	Census Population
	Year 2005		968103	Projected Population
Road	A Mabini St	km.	2,547998	
	Airport Rd		0,669104	
	Andrew Ave		2,673404	
	Antonio Arnaiz Ave		2,558589	
	Arellano Ave		1,592101	
	Aurora Rd		2,274708	
	Bureau of Plant Industry		0,630410	
	Camp Claudio Cadre Rd		0,158154	
	Cavite-Batangas Rd		36,329966	
	Cubao-Ete St		0,150536	
Inundation Average Depth by Land Use	Dasmariñas-Carmona Rd	meter	15,531398	
	Dian Road		1,486336	
	Domestic Rd		1,175738	
	Dr J Quintos		0,220003	

Data Items	Name/Description	Units	Date	Remarks
Road	Electrical Rd	km.	1,199349	
	Epinario Delos Santos Ave (EDSA)		14,253073	
	Estrada St.		0,894942	
	FB Harrison		4,877737	
	Gil Puyat Ave		5,144289	
	Leon Guinto St		2,161964	
	M Adriatico		2,193747	
	Manila-Cavite Rd		19,448379	
	Mc Donald Jct-Aguinaldo H-		0,969353	
	MH Del Pilar		0,656490	
	NAIA Rd (MIA Road)		1,944304	
	Ninoy Aquino Ave		3,531238	
	O Campco Sr		2,080501	
	Paranaque-Sucat Rd		18,365474	
	Pedro Gil (Herran)		0,863558	
	Phlitrade Rd 1		0,697725	
	PICC Fat Main Rd		0,954217	
	PICC Fat Perimeter Rd	km.	2,423425	Length
	Pres Quirino Ave		6,428182	
	Quirino Avenue		7,042971	
	Remedios St		1,447495	
	Roxas Blvd		9,278969	
	Roxas Blvd-East Service Rd		7,194172	
	Roxas Blvd-West Service Rd		0,210843	
	Roxas Boulevard		5,764488	
	Salawac-Palparan Rd		8,002636	
	Silang By-Pass Rd		3,70472	
	Singnay St		1,600000	
	St. Andres St.		2,146927	
	South Super H-way		5,350869	
	Spine Rd		1,251436	
	Taft Ave		13,924765	
	Tomas Claudio		0,342305	
	Tramo Rd		1,897798	
	Zapote-Alabang Rd		4,082785	
	Zapote-Salawa-Salitan Rd		17,578435	
	Zobel Roxas St		1,117517	
Bridge	Pila Br.	Number		
	San Gregorio Br.			
	Sto. Niño Br.			
	Paurungan Br.			
	Molino Br.			
	Panapaan Br.			
	Pasong Tamo Br.			
	Vito Cruz 1			
	Vito Cruz Br. 2			
	Zapote Br.			
	Unnamed Br.	Concrete		
	Tambo Br.			
	Tramo Br.			
	Tripa de Gallina Br.			
	Alido Br.			
	Cementina Br.	Type		
	Cut-cut Br.			
	Adriatico Br.			
	Aguinaldo Br.			
	Airport Br.			
	Don Galo Br.	Steel		
	Kalibato Br.			
	Legas Br.			
	Mahan Br.			
	Ibaba Br.			
River	Imus River	km.	28,706564	Length
District	South Manila DEO	sq. km.	21,728449	
	Metro Manila II DEO		496,489747	
	Cavite DEO		453,500261	Area
	Laurena II DEO		336,067030	
	Cavite Sub-DEO		788,635307	
City/Municipality	Pasay City (City)	sq. km.	8,552298	
	City of Makati (City)		0,245965	
	City of Paranaque (City)		12,324760	
	City of Las Pinas (City)		6,501689	
	Bacoor		34,237178	
	Dasmariñas		3,489375	
	San Pedro		1,754226	
	Gen. Alvarez		2,790909	
	Silang		1,132466	
			12,840521	
Name of Urban Center	.....	name		Main City Centers
			
Land Use of River Basin	Forest	Area, sq. km.	0,000000	Natural, Plantation, Bamboo
	Mangrove Forest		0,011959	
	Wooded & Natural Land		0,000001	Shrub, Grassland, Barren, Marshland
	Annual Crop		8,689584	Agricultural Land
	Perennial Crop		0,000000	
Inundated Area by Land Use	Pasture	sq. km.	0,000000	Inundated area by land use except Water body, which is considered as permanently inundated.
	Fish pond		0,000000	
	Bacoor		0,000000	
	Dasmariñas		0,000000	
	Gen. Alvarez		0,000000	
Inundated Area by Administrative Boundary	Silang	sq. km.	0,079383	Total Inundated Area by City/Municipality
	City of Las Pinas (City)		0,107071	
	Bacoor		3,467186	
	Dasmariñas		0,751948	Proportion of City/Municipality
	Gen. Alvarez		0,225687	Population Inside
Inundated Area by Population	Silang	person	0,678161	Inundated Area: Year 2000 Census Data
	City of Las Pinas (City)		0,108926	
	Bacoor		0,079383	
	Dasmariñas		0,079383	
	Gen. Alvarez		0,107071	
Inundation Average Depth by Land Use	Forest	meter	0,000000	
	Mangrove Forest		0,000000	
	Wooded & Natural Land		0,000000	
	Annual Crop		3,	

Name of Basin:	Calumpang (Kapungone)			
Data Items	Name/Description	Units	Data	Remarks
River Basin	Area	sq. km.	591.697161	
	Perimeter	km.	119.984550	
Population	Year 2000	person	475553	Census Population
	Year 2005		464238	Projected Population

Road	Banay-Banay-Mojon-Cuenca Rd	km.	17.617857	Length
	Batangas-Lobo Rd		22.723284	
	Batangas-Quezon Rd		27.949392	
	Batangas-Tahangao-Lobo Rd		36.896934	
	Batangas Cadre Rd		0.903242	
	Fernando Airbase Rd		1.900674	
	Lipa-Belete Rd		8.940133	
	Lipa-Rosario Rd		2.557046	
	Manila-Batangas Pier Rd		3.188553	
	Manila-Batangas Poblacion Rd		33.397217	
	Manila-Batangas Rd		0.471519	
	New Lipa City Hall Rd		12.748816	
	Palico-Balayan-Batangas Rd		11.767804	
	Quezon-Batangas Rd		26.375923	

Bridge	Paninsingin Br.	Number	Concrete	Type
	Patay Br.			
	Pinagkaanuran Br.			
	Pallocan Br.			
	Muntin Tubig Br.			
	Namunga Br. 1			
	Namunga Br. 2			
	Sta. Clara Br.			
	Tingiga Br.			
	Tubig ng Bayan Br.			
	San Jose Sico Br.			
	Pinagsabaan Br. 1			
	Pinagtungulan Br.			
	Sabang Br.			

Bridge	Baw Br.	Number	Concrete	Type
	Bridge of Promise			
	Calansayan Br.			
	Bagon Pook Br. 1			
	Bagon Pook Br. 2			
	Balintawak Br.			
	Dayapan Br.			
	Macalamgam Br.			
	Malaking Ilog Br.			
	Matala Br.			
	Libjo Br.			
	Ibaan Br.			
	Dolores Alicia Br.			
	Rancho Br.			

River	Balagtas Br.	km.	Length
	Kombo Br.		
	Batangas II Sub-DEO		
	Batangas II DEO		
	Batangas City DEO		
	Lipa City (Cty)		
	Batangas City (City)		
	Mataas Na Kahoy		
	0.171126		
	Cuenca		
	16.571654		
	Padre Garcia		
	95.343827		
	Rosario		

City/Municipality	Ibaan	sq. km.	Area
	San Juan		
	Taysan		
	Lobo		
	Name of Urban Center		
		
		
	Forest		
	17.228223		
	Manrove Forest		
	0.000000		
	Wooded & Natural Land		
	109.494961		
	Annual Crop		

Land Use of River Basin	Perennial Crop	Area, sq. km.	Agricultural Land
	Pasture		
	0.000000		
	Fish pond		
	0.000000		
	Built-up Area		
	14.262133		
	Water body		
	3.009676		
	Total Area and Average Depth for River Basin		
	5.759012		
	Average Depth		
	0.026211		

Inundated Area by Land Use	Forest	sq. km.	Length
	Manrove Forest		
	0.000000		
	Wooded & Natural Land		
	1.173226		
	Inundated area by land use except Water body, which is considered as permanently inundated.		
	4.042676		
	Annual Crop		
	0.000000		
	Perennial Crop		
	0.000000		
	Pasture		
	0.000000		
	Fish pond		

Inundated Area by Administrative Boundary	Batangas City (City)	sq. km.	Area
	Rosario		
	Taysan		
	Ibaan		
	Lipa City (City)		
	Batangas City (City)		
	Rosario		
	Taysan		
	Ibaan		
	Proportion of City/Municipality Population Inside Inundated Area: Year 2000 Census Data		
	621.536881		
	1830.388354		
	1710.227885		
	135.466751		

Inundated Area by City/Municipality Population	Forest	sq. km.	Area
	Manrove Forest		
	0.000000		
	Wooded & Natural Land		
	1.233382		
	Annual Crop		
	0.000000		
	Perennial Crop		
	0.000000		
	Pasture		
	0.000000		
	Fish pond		
	0.000000		
	Batangas City		

Inundation Average Depth by Land Use	Forest	meter	Length
	Manrove Forest		
	0.000000		
	Wooded & Natural Land		
	1.424745		
	Annual Crop		
	2.133382		
	Perennial Crop		
	0.000000		
	Pasture		
	0.000000		
	Fish pond		
	Batangas City		

* The estimated inundation area and depth are preliminary results, and have not been used for screening/analysis as such, but with some modification based on expert judgements and so on (refer to Data Book C).

Data Items	Name/Description	Units	Data	Remarks
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Bridge	Iyan Br.	Number	Concrete	Type
	Dungan Br.			
	Mayuni Br.			
	Lazaway Br.			
	Dumuklong Br.			
	Domit. Br.			
	Bozahan Br.			
	Dumaca Br.			
	Dumaca Br.			
	Forest			
	22.723284			
	27.949392			
	36.896934			
	0.903242			

River	Iyan River	km.	Length
	Quezon I DEO		
	Lucena City Sub-DEO		
	Lucena City (City)		
	Tayabas		
	Water body		
	33.472964		
	44.389858		
	0.000000		
	1.911242		

Name of Basin: Umiray						Name of Basin: Tignaoan					
Data Items	Name/Description	Units	Date	Remarks		Data Items	Name/Description	Units	Date	Remarks	
River Basin	Area	sq. km.	639.78			River Basin	Area	sq. km.	91.051624		
	Perimeter	km.	180.41				Perimeter	km.	42.424945		
Population	Year 2000	person	69085	Census Population		Population	Year 2000	person	6835	Census Population	
	Year 2005		75196	Projected Population			Year 2005		8747	Projected Population	
Road	None	km.	0.00	Length		Road	Real-Infanta-Dinahican Port Rd	km.	56.147513		
Bridge	None	Number	0	Type			Tigaoan Br.	Number	6.138669	Length	
River	Umiray River	km.	75.57	Length			Tigaoan River	km.	19.083464	Length	
District	1. Aurora DEO		101.922747				1. Quezon I DEO		90.983464		
	2. Nueva Ecija II DEO		0.103307				2. Laguna I DEO		0.08160		
	3. Quezon I DEO		462.807613		Area		Real		90.982845		
	4. Bulacan II DEO		30.620394				Santa Maria	sq. km.	0.068779		
	5. Rizal II DEO		44.098253				Name of Urban Center	.....		Main City Centers	
	San Jose Del Monte (City)		17.579387				Forest		73.254793	Natural Plantation, Bamboo	
City/Municipality	Dingalan		101.917484				Mangrove Forest		0.000000		
	General Tinio		0.031355				Wooded & Natural Land	Area, sq. km.	17.173303	Shrub, Grassland, Barren, Marshland	
	General Nakar		462.611284				Annual Crop		0.000000		
	San Rafael		8.218022				Perennial Crop		0.000000	Agricultural Land	
	Norzarayar		4.822375				Pasture		0.000000		
	Rodriguez		44.098253				Fish pond		0.000000		
Name of Urban Center	.....	name		Main City Centers			Built-up Area		0.032394		
	.....						Water body		0.591134	Inland Water	
Land Use of River Basin	Forest		609.979212	Natural Plantation, Bamboo			Simulated Flood Inundation	Area	1.163971	Total Area and Average Depth for River Basin	
	Mangrove Forest		0.000000				Average Depth	meter	5.154139		
	Wooded & Natural Land		14.697774	Shrub, Grassland, Barren, Marshland							
	Annual Crop	Area, sq. km.	7.573350				Forest		0.786727		
	Perennial Crop		2.001108				Mangrove Forest		0.000000		
	Pasture		0.000000				Wooded & Natural Land		0.240870	Inundated area by land use except Water body, which is considered as permanently inundated.	
	Fish pond		0.000000				Annual Crop		0.000000		
	Built-up Area		0.000000				Perennial Crop		0.000000		
	Water body		5.218901	Inland Water			Pasture		0.000000		
Simulated Flood Inundation	Area	sq. km.	8.746045	Total Area and Average Depth for River Basin			Fish pond		0.000003		
	Average Depth	meter	5.363030				Inundated Area by Administrative Boundary	Real	1.163971	Total Inundated Area by City/Municipality	
Inundated Area by Land Use	Forest		4.652798								
	Mangrove Forest		0.000000				Inundated City/Municipality Population	Real	87.297811	Proportion of City/Municipality Population Inside Inundated Area: Year 2000 Census Data	
	Wooded & Natural Land		1.222981	Inundated area by land use except Water body, which is considered as permanently inundated.							
	Annual Crop	sq. km.	1.419105								
	Perennial Crop		0.080518								
	Pasture		0.000000								
	Fish pond		0.000000								
Inundated Area by Administrative Boundary	Dingalan		0.618749	Total Inundated Area by City/Municipality							
	General Nakar		8.049550								
	Rodriguez	sq. km.	0.019883								
Inundated City/Municipality Population	Dingalan	person	37.124916	Proportion of City/Municipality Population Inside							
	General Nakar		128.792803								
	Rodriguez		8.302941								
Inundation Average Depth by Land Use	Forest		6.978945								
	Mangrove Forest		0.000000								
	Wooded & Natural Land		4.239788								
	Annual Crop	meter	3.854303								
	Perennial Crop		2.633375								
	Pasture		0.000000								
	Fish pond		0.000000								

* The estimated inundation area and depth are preliminary results, and have not been used for screening/analysis as such, but with some modification based on expert judgements and so on (refer to Data Book C).

Name of Basin: Kaliwa						Name of Basin: Lalavinan (Real-2)						
Data Items	Name/Description	Units	Date	Remarks		Data Items	Name/Description	Units	Date	Remarks		
River Basin	Area	sq. km.	479.309510			River Basin	Area	sq. km.	69.703171			
	Perimeter	km.	109.525623				Perimeter	km.	36.976642			
Population	Year 2000	person	175230	Census Population		Population	Year 2000	person	6913	Census Population		
	Year 2005		175925	Projected Population			Year 2005		8530	Projected Population		
Road	Real-Infanta Rd	km.	42.582378	Length		Road	None	km.	0.000000	Length		
	Tanay-Sampaloc Rd		17.329486				Bridge	None	0.000000	Type		
Bridge	Lico Br.	Number	1	Concrete			River	Real 2 River	km.	14.761719	Length	
River	Kalina River	km.	58.542984	Length			Quezon I DEO	sq. km.	66.069663	Area		
District	1. Aurora DEO		2837.950674				Real	sq. km.	3.633535			
	2. Rizal II DEO		794.287203				Pangil	sq. km.	66.067216	Area		
	3. Rizal I DEO		443.027406				Siniloan	.....	0.141837		
	4. Laguna I DEO		861.015669				Name of Urban Center	.....		Main City Centers	
City/Municipality	Antipolo (City)		82.832509				Forest		30.154330	Natural Plantation, Bamboo		
	General Nakar		186.457428				Mangrove Forest		0.000000			
	Rodriguez		127.405887				Wooded & Natural Land	Area, sq. km.	32.236784	Shrub, Grassland, Barren, Marshland		
	Tanay		207.819577				Annual Crop		3.855454			
	Real		63.912226				Perennial Crop		2.667881	Agricultural Land		
	Santa Maria		8.941485				Pasture		0.000000			
Name of Urban Center	.....	name		Main City Centers			Fish pond		0.000000		
	.....						Water body		0.000000	Inland Water	
Land Use of River Basin	Forest		267.610274	Natural Plantation, Bamboo			Simulated Flood Inundation	Area	0.581450	Total Area and Average Depth for River Basin		
	Mangrove Forest		0.000000				Average Depth	meter	4.276123			
	Wooded & Natural Land		207.819577	Shrub, Grassland, Barren, Marshland								
	Annual Crop	Area, sq. km.	0.000000				Forest		0.257714			
	Perennial Crop		0.000000				Mangrove Forest		0.000000			
	Pasture		0.000000				Wooded & Natural Land		0.242852	Inundated area by land use except Water body, which is considered as permanently inundated.		
	Fish pond		0.000000				Annual Crop		0.003755			
	Built-up Area		0.349617				Perennial Crop		0.075089			
	Water body		3.410650	Inland Water			Pasture		0.000000			
Simulated Flood Inundation	Area	sq. km.	4.681014	Total Area and Average Depth for River Basin			Fish pond		0.000000			
	Average Depth	meter	3.854839									
Inundated Area by Land Use	Forest		1.377887									
	Mangrove Forest		0.000000									
	Wooded & Natural Land		2.353342									
	Annual Crop	sq. km.	0.000000									
	Perennial Crop		0.000000									
	Pasture		0.000000									
	Fish pond		0.000000									
	Tanay		0.009554									
Inundated Area by Administrative Boundary	Antipolo (City)		1.062244									
	General Nakar		1.373078	Total Inundated Area by City/Municipality								
	Real		0.528794									
	Tanay		1.716888									
Inundated City/Municipality Population	Antipolo (City)		152.582795	Proportion of City/Municipality Population Inside Inundated Area: Year 2000 Census Data								
	General Nakar		21.689242									
	Real		39.659555									
	Tanay		578.594739									
Inundation Average Depth by Land Use	Forest		5.099109									
	Mangrove Forest		0.000000									
	Wooded & Natural Land		3.264323									
	Annual Crop		0.000000									
	Perennial Crop		0.000000									
	Pasture		0.000000									
	Fish pond		0.000000									
	Tanay		1.706909									

* The estimated inundation area and depth are preliminary results, and have not been used for screening/analysis as such, but with some modification based on expert judgements and so on (refer to Data Book C).

Name of Basin: Kinanliman (Real-1)				
Data Items	Name/Description	Units	Data	Remarks
River Basin	Area	sq. km.	54.362264	
	Perimeter	km.	33.527502	
Population	Year 2000	person	4077	Census Population
	Year 2005		5218	Projected Population
Road	Pamplona Real-Infanta-Dinahican Port Rd Jct Poblacion Real- Ungos Port Rd	km.	56.147513 1.386451	Length
Bridge	Kidloron Br. Kinanliman Br. Talisay Br. Balibaguhin Br. Capalagon Br. Cawayan Br.	Number	Concrete	Type
River	Real River	km.	7.153499	Length
District	1 Quezon I DEO	sq. km.	54.360622	Area
City/Municipality	Real	sq. km.	54.362264	Area
Name of Urban Center	.....	name	Main City Centers	
Land Use of River Basin	Forest Mangrove Forest Wooded & Natural Land	Area, sq. km.	28.066566 0.731471 19.653811	Natural, Plantation, Bamboo Shrub, Grassland, Barren, Marshland
	Annual Crop Perennial Crop Pasture Fish pond Built-up Area Water body		0.901755 0.000000 0.000000 0.626221 0.245682	Agricultural Land Inland Water
Simulated Flood Inundation	Area	sq. km.	0.335578	Total Area and Average Depth for River Basin
	Average Depth	meter	2.692041	
Inundated Area by Land Use	Forest Mangrove Forest Wooded & Natural Land	sq. km.	0.163621 0.022393 0.011494	Inundated area by land use except Water body, which is considered as permanently inundated.
	Annual Crop Perennial Crop Pasture Fish pond Real		0.000000 0.000000 0.000000 0.048700	
Inundated Area by Land Use	Real	sq. km.	0.335578	Total Inundated Area by Proportion of
Inundated	Real	person	25.168336	
Inundation Average Depth by Land Use	Forest Mangrove Forest Wooded & Natural Land	meter	3.723911 3.552545 1.060472	
	Annual Crop Perennial Crop Pasture Fish pond Real		0.000000 0.000000 0.000000 1.293321	

* The estimated inundation area and depth are preliminary results, and have not been used for screening/analysis as such, but with some modification based on expert judgements and so on (refer to Data Book C).

Name of Basin: General Nakar-2-(b)				
Data Items	Name/Description	Units	Data	Remarks
River Basin	Area	sq. km.	33.87	
	Perimeter	km.	24.35	
Population	Year 2000	person	541	Census Population
	Year 2005		643	Projected Population
Road	None	km.	0.00	Length
Bridge	None	Number	0	Type
River	Nakar-2b River	km.	8.62	Length
District	Quezon I DEO	sq. km.	33.866716	Area
City/Municipality	General Nakar	sq. km.	33.868652	Area
Name of Urban Center	.....	name	Main City Centers	
Land Use of River Basin	Forest Mangrove Forest Wooded & Natural Land	Area, sq. km.	26.143244 0.000000 0.000000	Natural, Plantation, Bamboo Shrub, Grassland, Barren, Marshland
	Annual Crop Perennial Crop Pasture Fish pond Built-up Area Water body		4.284250 2.228637 0.000000 0.000000 0.000000	Agricultural Land Inland Water
Simulated Flood Inundation	Area	sq. km.	0.395618	Total Area and Average Depth for River Basin
	Average Depth	meter	3.130251	
Inundated Area by Land Use	Forest Mangrove Forest Wooded & Natural Land	sq. km.	0.083711 0.000000 0.000000	Inundated area by land use except Water body, which is considered as permanently inundated.
	Annual Crop Perennial Crop Pasture Fish pond		0.252491 0.067752 0.000000 0.000000	
Inundated Area by Land Use	General Nakar	sq. km.	0.395618	Total Inundated Area by Proportion of
Inundated	General Nakar	person	6.329882	
Inundation Average Depth by Land Use	Forest Mangrove Forest Wooded & Natural Land	meter	6.561895 0.000000 0.000000	
	Annual Crop Perennial Crop Pasture Fish pond		2.223321 2.419394 0.000000 0.000000	

* The estimated inundation area and depth are preliminary results, and have not been used for screening/analysis as such, but with some modification based on expert judgements and so on (refer to Data Book C).

Name of Basin: General Nakar-2-(a)				
Data Items	Name/Description	Units	Data	Remarks
River Basin	Area	sq. km.	83.32	
	Perimeter	km.	56.51	
Population	Year 2000	person	1333	Census Population
	Year 2005		1583	Projected Population
Road	None	km.	0.00	Length
Bridge	None	Number	0	Type
River	Nakar-2 River	km.	11.17	Length
District	Quezon I DEO	sq. km.	83.311166	Area
City/Municipality	General Nakar	sq. km.	83.318135	Area
Name of Urban Center	.....	name	Main City Centers	

Data Items	Name/Description	Units	Data	Remarks
Land Use of River Basin	Forest Mangrove Forest Wooded & Natural Land	Area, sq. km.	68.436714 0.000000 0.000000	Natural, Plantation, Bamboo Shrub, Grassland, Barren, Marshland
	Annual Crop Perennial Crop Pasture Fish pond Built-up Area Water body		11.877597 0.000000 0.000000 0.028419 0.000000	Agricultural Land Inland Water
Simulated Flood Inundation	Area	sq. km.	0.394026	Total Area and Average Depth for River Basin
	Average Depth	meter	3.301968	
Inundated Area by Land Use	Forest Mangrove Forest Wooded & Natural Land	sq. km.	0.211244 0.000000 0.000000	Inundated area by land use except Water body, which is considered as permanently inundated.
	Annual Crop Perennial Crop Pasture Fish pond General Nakar		0.151040 0.000000 0.028056	
Inundated Area by Land Use	General Nakar	sq. km.	0.394026	Total Inundated Area
Inundated	General Nakar	person	6.304421	Proportion of
Inundation Average Depth by Land Use	Forest Mangrove Forest Wooded & Natural Land	meter	2.750746 0.000000 0.000000	
	Annual Crop Perennial Crop Pasture Fish pond General Nakar		4.064716 0.000000 0.000000 3.188130	

* The estimated inundation area and depth are preliminary results, and have not been used for screening/analysis as such, but with some modification based on expert judgements and so on (refer to Data Book C).

Name of Basin: Bicol				
Data Items	Name/Description	Units	Data	Remarks
River Basin	Area	sq. km.	2996.70	
	Perimeter	km.	382.94	
Population	Year 2000	person	1169417	Census Population
	Year 2005		1309736	Projected Population
Road	Albay West Coast Rd Baoa-Iriga-City-Nabas Rd Bato-Poblacion Rd Comun-Inarado-Pe?francia Rd Daang Mahrlikha (LZ) Fraternidad-Biak-na-Bato-E- Angeles-Bacumbayan Rd Guinobatan Poblacion Rd Hanawan-Consocep Rd Iriga City-Masoli Rd Iriga City-Sagrada-Sn- Ramon-Hanawan Rd Iriga City-Sn Idiro-Sagrada- Sn Ramon-Hanawan Rd Libon-Bacolod-Sn Vicente- Maromoc-Buga Rd Liboton-Magsaysay Rd Ligao-Pio Duran Rd Ligao-Poblacion Rd Ligao-Tobaco Rd Matacon-Libon-Polangui Jct R Nabua-Balatan Rd Naga-Carolina-Panicusion Rd Naga City Bdy-Calabanga- Balongay Rd Naga City Bdy-Camaligan Fishing Port Rd Oas Poblacion Rd Panganiban Rd Pili-Airport Rd Pili-Tigao-Albay Bdy Rd Polangui Poblacion Rd Rolando A Andaya Highway Sipocot-Cabusao Rd Sn Antonio Betts St	km.	67.70 12.88 3.93 14.50 282.00 2.92 1.78 9.14 9.33 3.78 21.28 16.03 2.43 3.797 2.23 12.46 7.47 24.24 16.89 18.86 3.28 2.29 1.74 0.52 19.10 2.12 61.07 16.90 0.58	Length
	Ologon Br. Ologon Br. 2 San Vicente Br. 2 Tula-Tula Br. 1 Abobo Br. Aga Br. Agdangan Br. Agus Br. Alayao Br. Anayan Br. Aslong Br. Ayuanan Br. Baa Br. 1 Baa Br. 2 Bacolod Br. Bagula Br. Bahi Br. Barao Br. Baraca Br. 1 Baraca Br. 2 Baras Br. 2 Basag Br. Bascaran Br. Basud Br. 1 Basud Br. 2 Bayawason Br. Bigaan Br. Binantanagan Br. Bololo Br. Bonbon Br. 3 Boranguit Br. Budlan Br. Burabod Br. Buyong Br. Cabanagan Br. Caditan Br. Casas Br. Calabungan Br. Catamac Br. Cresine Br. Culey-Culoy Br. Dagang Br. Delphin Rosales Br. Francisco Br. Gov. Vera Br. Guinobatan Br. Hagod Br.	Number		Bailey
Bridge	Type			

Data Items	Name/Description	Units	Data	Remarks
	Hambawon Br.			
	Hanawan Br.			
	Himao Br.			
	Imban Br.			
	Impig Br.			
	Kalagdo Br.			
	Libod Br.			
	Mabatobato Br.			
	Mabin Br.			
	Mabolo Br.			
	Magarao Br. 1			
	Magarao Br. 2			
	Magsaysay Br.			
	Makabuhos Br.			
	Makalabig Br.			
	Makaluko Br. 1			
	Makaluko Br. 2			
	Malama Br.			
	Malancog Br.			
	Malsansadi Br.			
	Malobago Br.			
	Mampaug Br.			
	Monangle Br.			
	Marapong Br.			
	Maravat Br.			
	Maromoc Br.			
	Martrez Br.			
	Matacon Br.			
	Mauca Br.			
	Mayogob Br.			
	Millao Br. 1			
	Millao Br. 2			
	Morera Br.			
	Nabua Br.			
	Nagkupa Br.			
	Nale Br.			
	Nalisan Br.			
	Napolidan Br.			
	Naubod Br. 1			
	Naubod Br. 2			
	Noipo Br.			
	Oas Diversion Br.			
	Ovapos Br.			
	Pacias Br. 1			
	Pacias Br. 2			
	Pacies Br. 3			
	Pahoho Br.			
	Pamukid Br.			
	Panganiban Br.			
	Paulba Br.			
	Paulog Br.			
	Pili Airport Br.			
	Pinaguidanan Br.			
	Pinit Grande Br.			
	Pinit Pequina Br.			
	PNR Overpass			
	Polangu Br.			
	Quenale Br.			
	Quipayo Br. 1			
	Sagrada Br.			
	San Agustin Br.			
	San Antonio Br.			
	San Fernando Br.			
	San Francisco Br.			
	San Gabriel Br.			
	San Isidro Br.			
	San Jose Br.			
	San Miguel Br.			
	San Miguel Br. 1			
	San Miguel Br. 2			
	San Vicente Br. 1			
	Sgt. Matias Br.			
	Sipang Br.			
	Sipocot Br.			
	Small Bahi Br.			
	Sook Br.			
	Sto. Domingo Br.			
	Tabuco Br.			
	Tagaytay Br.			
	Tagbac Br.			
	Tagpo Br.			
	Tambo Br.			
	Tapayas Br.			
	Timuguan Br.			
	Travesia Br. 1			
	Travesia Br. 2			
	Tuaca Br.			
	Tubgon Br.			
	Tubuan Br.			
	Tula-tula Br. 2			
	Tula-tula Br. 3			
	Uguis Br.			
	Unknown Br. 1			
	Unknown Br. 2			
	Velasco Br.			
	Waras Br.			
	Yabo Br.			
	Cabilogan Br.			
	Hibago Br.			
	Pawil Br.			
River	Bicol River	km.	125.13	Length
District	Camarines Norte DEO	sq. km.	60,40026	
	Quezon II DEO		1,20188	
	Camarines Sur I DEO		928,15314	
	Camarines Sur II DEO		447,403471	Area
	Camarines Sur IV DEO		798,895646	
	Camarines Sur III DEO		0,947511	
	Albay DEO		111,02845	
	Albay Sub-DEO		587,404688	
City/Municipality	Naga City	sq. km.	66,368888	
	Iriga City		112,002360	
	Ligao (City)		186,210713	
	Tabaco (City)		0,189523	
	Labo		2,275816	
	San Vicente		0,280803	
	San Lorenzo Ruiz (Imelda)		57,827663	
	Taekawayan		1,201202	
	Del Gallego		54,258911	
	Lupi		208,334965	
	Ragay		15,000550	
	Sipocot		175,536588	
	Libmanan		243,283479	
	Cabusao		20,765934	
	Calabanga		13,996995	
	Bombon		36,446892	
	Magarao		30,096244	

Data Items	Name/Description	Units	Data	Remarks
	Pili		135,765727	
	Ocampo		125,461594	
	Canaman		23,950418	
	Pampiona		47,911649	
	Camaligan		11,603052	
	Milar		45,064211	
	Minalabac		106,987137	
	San Fernando		46,631916	
	Pasacao		9,487641	
	Saghay		0,867038	
	Bula	sq. km.	115,719284	Area
	Buhi		237,862987	
	Tiwi		14,528302	
	Nabua		71,812938	
	Balatan		14,880078	
	Malinao		3,007208	
	Bato		96,038395	
	Polangui		130,908038	
	Libon		157,473134	
	Oas		112,322418	
	Quinobatan		63,036937	
	Camalig		30,272624	
	Name of Urban Center	name		Main City Centers
	Forest		298,23	Natural, Plantation, Bamboo
	Mangrove Forest		0,00	
	Wooded & Natural Land		488,46	Shrub, Grassland, Barren, Marshland
	Annual Crop	Area, sq. km.	1653	
	Perennial Crop		483	Agricultural Land
	Pasture		0	
	Fish pond		0,00	
	Built-up Area		15,04	
	Water body		59,088506	Inland Water
	Simulated Flood Inundation	Area	386,69	Total Area and Average Depth for River Basin
	Average Depth	meter	2,54	
	Forest		0,00	
	Mangrove Forest		0,00	
	Wooded & Natural Land		7,91	
	Annual Crop		338,19	
	Perennial Crop		0,00	
	Pasture		0,00	
	Fish pond		0,00	
	Naga City		0,68	Inundated area by land use except
	Ligao (City)		0,01	water body, which is
	Cabusao		0,20	considered as permanently inundated.
	Libmanan		0,05	
	Magarao		0,01	
	Canaman		0,20	
	Camaligan		0,12	
	Minalabac		0,34	
	San Fernando		0,01	
	Nabua		0,00	
	Libon		0,00	
	Oas		0,03	
	Naga City		3,39	
	Ligao (City)		1,06	
	Cabusao		18,46	
	Libmanan		39,20	
	Calabanga		3,56	
	Bombon		4,10	
	Magarao		21,82	
	Canaman		23,61	
	Camaligan		19,89	
	Minalabac		11,60	Total Inundated Area by City/Municipality
	San Fernando		41,62	
	Bula		32,16	
	Nabua		12,15	
	Bato		22,12	
	Libon		34,33	
	Polangui		8,20	
	Oas		41,15	
	Naga City		2,07	
	Ligao (City)		6,98	
	Cabusao		7,91	Proportion of Population Inside Inundated Area; Year 2000 Census Data
	Libmanan		19,19	
	Calabanga		20,849,75	
	Bombon		109,35,34	
	Magarao		149,63,94	
	Canaman		27,31,3,16	
	Camaligan		79,16,14	
	Minalabac		19,19,1,45	
	San Fernando		20,84,9,75	
	Bula		109,79,80	
	Nabua		79,81,31	
	Bato		13,78,4,41	
	Libon		7,24,9,41	
	Polangui		2,60,0,67	
	Oas		1,94,0,92	
	Forest	meter	0,00	
	Mangrove Forest		0,00	
	Wooded & Natural Land		1,26	
	Annual Crop		2,57	
	Perennial Crop		0,00	
	Pasture		0,00	
	Fish pond		0,00	
	Naga City		0,71	
	Ligao (City)		0,29	
	Cabusao		2,32	
	Libmanan		0,67	
	Magarao		1,08	
	Canaman		1,17	
	Camaligan		2,15	
	Milar		1,10	
	San Fernando		1,31	
	Nabua		1,22	
	Libon		0,15	
	Oas		0,68	

* The estimated inundation area and depth are preliminary results, and have not been used for screening/analysis as such, but with some modification based on expert judgements and so on (refer to Data Book C).

Name of Basin: Yawa (Legazpi City)					
Data Item	Name/Description	Units	Date	Remarks	
River Basin	Area	sq. km.	120.007648		
	Perimeter	km.	49.236267		
Population	Year 2000	person	130125	Census Population	
	Year 2005		149074	Projected Population	
Road	Camp Basong Ibalone Rd		1.036793	Length	
	Comun-Inarado-Peñafriencia		14.503837		
	Daang Maharlika (LZ)		27.008723		
	DM Jct-Legazpi-Sto Domingo		58.598800		
	Tobaco-Cam. Sur Rdv		1.859123		
	Lakandula Drive	km.	0.802074		
	Lakandula Drive Portion		0.408974		
	Legazpi Access Rd		1.979061		
	Legazpi Airport Rd		49.741918		
	Legazpi City-Punta de Jesus		0.510768		
Bridge	Quizon Ave- Wharf Rd		0.145065	Type	
	Rizal Ave		4.849921		
	Sto Domingo Poblacion Rd				
	Sagumayon Br.				
	Ruran Br.				
	Sagpon Br.				
	Yawa Br.				
	Sagumayon Br.				
	Dela Paz Br.				
	Busay Br.				
River	Pinaric Br.			Concrete	
	Pili Br.				
	Basud Br.				
	Legazpi River	km.	9.887653		
	1 Albay DEO		120.150123		
	2 Albay Sub-DEO	sq. km.	0.01665		Area
	.....		0.00017		
	.....		0.009014		
	.....		54.828139		
	.....		0.001058		
District	Maliguit		0.047626	Area	
	Santo Domingo		12.722813		
	Guinobatan		51.455524		
	Camalig		55.864485		
	Deraga		0.000000		
	.....		9.362970		
	.....		43.201811		
	.....		12.826162		
	.....		0.000000		
	Water body				
Simulated Flood Inundation	Area	sq. km.	4.466374	Total Area and Average Depth for River Basin	
	Average Depth	meter	0.212138		
	Forest		0.000000		
	Mangrove Forest		0.000000		
	Wooded & Natural Land		0.527708	Inundated area by land use except Water body, which is considered as permanently inundated.	
	Annual Crop		1.827035		
	Perennial Crop		0.000000		
	Pasture		0.000000		
	Fish pond		0.000000		
	Built-up Area		12.826162		
Inundated Area by Land Use	.....		0.000000	Inland Water	
				
				
				
				
				
				
				
				
				
Inundated Area by Administrative Boundary	Legazpi City (City)	sq. km.	1.697446	Total Inundated Area by City/Municipality	
	Daraga		2.762538		
	.....		3685.229153	Proportion of City/Municipality	
				
				
				
				
				
				
				
Inundated Area by City/Municipality	Forest		0.000000	Main City Centers	
	Mangrove Forest		0.000000		
	Wooded & Natural Land		2.988110		
	Annual Crop		1.621127		
	Perennial Crop		0.000000		
	Pasture		0.000000		
	Fish pond		0.000000		
	Legazpi City (City)		1.055127		
	Daraga		2.351704		
				

* The estimated inundation area and depth are preliminary results, and have not been used for screening/analysis as such, but with some modification based on expert judgements and so on (refer to Data Book C).

Name of Basin: Donsol					
Data Item	Name/Description	Units	Date	Remarks	
River Basin	Area	sq. km.	367.221658		
	Perimeter	km.	132.438734		
Population	Year 2000	person	132256	Census Population	
	Year 2005		142505	Projected Population	
Road	Banuang-Gurang-Albay Bdry		0.973553	Length	
	Comun-Inarado-Peñafriencia		14.503837		
	Jt Putolan-Pilar-Donsol Rd		27.289770		
	Ligao-Pio Duran Rd		37.972024		
	Banuang-Gurang Br.	Number	40.240387		Type
	River	km.	1084.813541		
	Albay Sub-DEO		1085.519187		
	Albay DEO		1716.058915		
	Sorsogon DEO		0.000000		
				
Bridge	Ligao (City)		80.280569	Area	
	Guinobatan		82.171581		
	Camalig		85.498933		
	Daraga		4.047562		
	Pio Duran		21.229576		
	Jovellar		58.607841		
	Donsol		54.792878		
				
				
				
River	Forest		0.011367	Main City Centers	
	Mangrove Forest		0.000000		
	Wooded & Natural Land		328.933331		
	Annual Crop		37.291821		
	Perennial Crop		0.000000		
	Pasture		0.000000		
	Fish pond		0.000000		
	Built-up Area		0.204969		
	Water body		0.771763		
				
Simulated Flood Inundation	Area	sq. km.	6.368546	Total Area and Average Depth for River Basin	
	Average Depth	meter	3.387398		
	Forest		0.000000		
	Mangrove Forest		0.000000		
	Wooded & Natural Land		5.783551	Inundated area by land use except Water body, which is considered as permanently inundated.	
	Annual Crop		0.000000		
	Perennial Crop		0.000000		
	Pasture		0.000000		
	Fish pond		0.000000		
	Donsol		0.071511		

Data Item	Name/Description	Units	Date	Remarks
Ligao			0.408298	
Inundated Area by Administrative Boundary	Guinobatan	sq. km.	1.105352	Total Inundated Area by City/Municipality
	Pio Duran		0.112647	
	Jovellar		0.607614	
	Donsol		3.666709	
Ligao			114.731667	Proportion of City/Municipality
Inundated Area by City/Municipality Population	Guinobatan	person	540.517267	Population Inside
	Pio Duran		38.412614	Inundated Area; Year 2000 Census Data
	Jovellar		147.650238	
	Donsol		843.342995	
Forest			0.000000	
Mangrove Forest			0.000000	
Wooded & Natural Land			3.432359	
Annual Crop			0.000000	
Perennial Crop			0.000000	
Pasture			0.000000	
Fish pond			0.000000	
Donsol			1.098172	

* The estimated inundation area and depth are preliminary results, and have not been used for screening/analysis as such, but with some modification based on expert judgements and so on (refer to Data Book C).

Name of Basin: Laot					
Data Item	Name/Description	Units	Date	Remarks	
River Basin	Area	sq. km.	985.507976		
	Perimeter	km.	260.145266		
Population	Year 2000	person	118052	Census Population	
	Year 2005		143676	Projected Population	
Road	Basong Silang-Capalonga Rd	km.	31.165186	Length	
	Daang Maharlika (LZ)		112.776621		
	Quirino H-way		31.453492		
	Rollano A Andaya Highway		61.076052		
	Takabawayan Poblacion Rd		0.676392		
	Talobatib-José Paniganban Rd		20.375413		
	Malasbung Br.				
	Malakbang Br.				
	Maraing Br.				
	Lubo Br.				
Bridge	Macabang Br.	Number	8344757	Type	
	Magat Br.		22.210603		
	Capalonga		6.286313		
	Labo		0.834759		
	Macacon Br.		572.850922		
	Namukanan Br.		0.042684		
	Masalong Br.		6.819162		
	Dugout Br. 1		346.315974		
	Bolo Br. 2		8.837657		
	Aniteam Br.				
River	Binuan Br.			Concrete	
	Kanapawan Br.				
	Kinatukutan Br.				
	Guisican Br.				
	Daguit Br. 1				
	Guluhan Br.				
	Labu Br.				
	Lubo River	km.	56.075633		
	1 Camarin DEO	sq. km.	619.67011		
	2 Quezon II DEO		353.116077		
District	3 Camarin Sur I DEO		8.834757	Area	
	Paracale		22.210603		
	José Paniganban		6.286313		
	Capalonga		0.834759		
	Labo		572.850922		
	Vinzons	sq. km.	17.403823		
	Santa Elena		0.042684		
	Calauag		6.819162		

Data Items	Name/Description	Units	Data	Remarks
Bridge	Panganahan Br.	Number	Concrete	Type
	Mataas Br.			
	Manturave Br.			
	Paraputusyan Br.			
	Tulay na Bato Br.			
	Tagontong Br.			
	Potol Br.			
	Daet Br. 2			
	Daet Br. 1			
	Calambusing Br.			
	Lanza Br.			
	Mabulao Br. 2			
	Mabulao Br.			
	Leniton Br.			
River	Daet River	km.	36.028084	Length
District	Camarines Norte DEO	sq. km.	255.482095	Area
	Camarines Sur I DEO		0.027346	
City/Municipality	Daet	sq. km.	36.566945	Area
	Mercedes		6.623418	
	San Lorenzo Ruiz (Imelda)		97.044185	
	San Vicente		22.909721	
	Basud		82.472417	
	Lubo		9.866308	
	Del Gallego		0.027924	
Name of Urban Center	.....	name		Main City Centers
			
Land Use of River Basin	Forest	Area, sq. km.	37.995980	Natural, Plantation, Bamboo
	Mangrove Forest		0.052284	
	Wooded & Natural Land		54.846988	Shrub, Grassland, Barren, Marshland
	Annual Crop		40.521753	Agricultural Land
	Perennial Crop		114.672722	
	Pasture		0.000000	
	Fish pond		5.477378	
	Built-up Area		4.117813	
Simulated Flood Inundation	Water body		1.975339	Inland Water
	Area	sq. km.	19.404358	Total Area and Average Depth for River Basin
Inundated Area by Land Use	Average Depth	meter	1.932181	
	Forest		0.279321	
	Mangrove Forest		0.000000	
	Wooded & Natural Land		0.000000	Inundated area by land use except Water body, which is considered as permanently inundated.
	Annual Crop		12.759009	
	Perennial Crop		1.555613	
	Pasture		0.000000	
Inundated Area by Administrative Boundary	Fish pond		2.959473	
	Daet		0.257151	
	Mercedes		0.090244	
	Daet		7.346205	
	Mercedes		2.046128	Total Inundated Area by City/Municipality
	Basud		5.787206	
	San Vicente		0.007854	
	San Lorenzo Ruiz (Imelda)		1.300263	
Inundated Area by City/Municipality Population	Daet		13193.784784	Proportion of City/Municipality Population Inside
	Mercedes		4554.679816	Inundated Area; Year 2000 Census Data
	Basud		954.889071	
	San Vicente		1.335101	
	San Lorenzo Ruiz (Imelda)		72.814752	
	Forest		2.639820	
Inundation Average Depth by Land Use	Mangrove Forest		0.000000	
	Wooded & Natural Land		0.000000	
	Annual Crop		1.536393	
	Perennial Crop		1.246246	
	Pasture		0.000000	
	Fish pond		3.301591	
	Daet		0.685213	
	Mercedes		3.523134	

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Name of Basin: Quinalt-B (Quinalt)				
Data Items	Name/Description	Units	Data	Remarks
River Basin	Area	sq. km.	174.730919	Length
	Perimeter	km.	60.224859	
	Year 2000	person	124087	
	Year 2005		138453	
Road	DM Jct-Legazi-Sto Domingo-Tabaco-Cam. Sur Bdry	km.	58.598800	
	Ligao-Tabaco Rd		25.274163	
	Malinao Poblacion Rd		0.510926	
	Mt. Mayon Park Rd		8.250557	
Bridge	Parapolo Br.	Number	Concrete	Type
	Parapolo Br.			
	Namutriga Br. 3			
	Rocamonte Br.			
	Tabijuan Br. 2			
	Tabijuan Br. 1			
	Sn. Antonio Br.			
	Namutriga Br. 2			
	Bantayan Br. 2			
	Bantayan Br. 1			
	Antic Br.			
	Buang Br.			
	Namutriga Br. 1			
River	Malinao Br.			
	Imperial Br.			
	Guinalde River	km.	24.466498	
	Albay DEO	sq. km.	1065.519187	Area
District	Albay Sub-DEO		2169.627063	
	Tabaco (City)		79.36003	
	Ligao (City)		4.47658	
	Legazi City (City)		0.000591	
	Malinao		67.640710	Area
	Tanauan		0.569353	
	Polangui		6.500319	
	Oas		3.031774	
	Malilipot		9.130133	
	.....	name		Main City Centers
Land Use of River Basin	Forest	Area, sq. km.	57.956063	Natural, Plantation, Bamboo
	Mangrove Forest		0.635830	
	Wooded & Natural Land		52.812836	Shrub, Grassland, Barren, Marshland
	Annual Crop		25.459982	Agricultural Land
	Perennial Crop		36.893619	
	Pasture		0.000000	
	Fish pond		0.000000	
	Built-up Area		0.083565	
Simulated Flood Inundation	Water body		0.478343	Inland Water
	Area	sq. km.	6.686850	Total Area and Average Depth for River Basin
	Average Depth	meter	1.365026	

Data Items	Name/Description	Units	Data	Remarks
Inundated Area by Land Use	Forest	sq. km.	0.031871	Inundated area by land use except Water body, which is considered as permanently inundated.
	Mangrove Forest		0.252691	
	Wooded & Natural Land		0.673993	
	Annual Crop		5.281678	
	Perennial Crop		0.389118	
	Pasture		0.000000	
	Fish pond		0.000000	
	Malinao		0.008662	
	Tabaco (City)		0.588366	
	Ligao (City)		0.319730	Total Inundated Area by City/Municipality
Inundated Area by City/Municipality Population	Malinao	person	5.960404	Proportion of City/Municipality Population Inside
	Tabaco (City)		655.439817	
	Ligao (City)		89.844208	
	Malinao		2092.101802	
Inundation Average Depth by Land Use	Forest	meter	1.677603	
	Mangrove Forest		0.840144	
	Wooded & Natural Land		3.667492	
	Annual Crop		1.084618	
	Perennial Crop		1.050100	
	Pasture		0.000000	
	Fish pond		0.000000	

* The estimated inundation area and depth are preliminary results, and have not been used for screening/analysis as such, but with some modification based on expert judgements and so on (refer to Data Book C).

Data Items	Name/Description	Units	Data	Remarks
Name of Basin: Ragay	River Basin	sq. km.	221.963957	
	Perimeter		76.489009	
	Year 2000	person	32750	Census Population
	Year 2005		36916	Projected Population
	Road		61.070572	Length
	Bridge		Number	Concrete Type
	Ragay			
	Panayatay Br.			
	Hidong Br.			
	Ragay River	km.	34.790004	
District	1 Camarines Sur I DEO	sq. km.	221.507785	Area
	Del Gallego		27.988912	
	Ragay		174.767972	Area
	Lupi		18.638198	
	Name of Urban Center	name		Main City Centers
			
	Forest		35.833323	Natural, Plantation, Bamboo
	Mangrove Forest		0.000000	
Land Use of River Basin	Wooded & Natural Land	Area, sq. km.	21.854700	Shrub, Grassland, Barren, Marshland
	Annual Crop		25.423980	Agricultural Land
	Perennial Crop		133.083380	
	Pasture		4.589878	
	Fish pond		0.217932	
	Built-up Area		0.424433	
	Water body		1.219323	Inland Water
Simulated Flood Inundation	Area	sq. km.	5.915754	Total Area and Average Depth for River Basin
	Average Depth	meter	1.881016	
	Forest		0.000000	
Inundated Area by Land Use	Mangrove Forest		0.000000	Inundated area by land use except Water body, which is considered as permanently inundated.
	Wooded & Natural Land		0.603351	
	Annual Crop		0.000000	
	Perennial Crop		2.804218	
	Pasture		0.000000	
	Fish pond		2.118826	
	Ragay		0.040621	
	Lupi		0.350125	Total Inundated Area by City/Municipality
Inundated Area by Administrative Boundary	Ragay		865.018983	Proportion of City/Municipality Population Inside
	Lupi		37.813520	
	Forest		0.000000	
	Mangrove Forest		0.000000	
Inundation Average Depth by Land Use	Wooded & Natural Land	Area, sq. km.	3.603850	
	Annual Crop		0.000000	
	Perennial Crop		1.672743	
	Pasture		0.000000	
	Fish pond		1.918318	
	Ragay		1.219323	
	Lupi		0.251057	
	Kabankalan Rd		44.071254	
	Bais-Kabankalan Rd		12.203223	
	Binalbagan-Isabela Rd		23.066888	
Road	Candoni-Sipalay Rd		48.987494	Length
	Dancalan-Candoni-Damutan Valley Rd		17.208010	
	Hinigarang-Isabela Rd		21.479352	
	Isabela-Libis Negros Occ. Bdry Rd		40.304228	
	Jct Bagonava-La Castellana-Isabela Rd		13.764536	
	Jct Palencia-Boy Scout Camp Rd		18.385454	
Bridge	Jct Pontevedra-La Castellana Rd		25.015576	Type
	Kabankalan Jct Salong-Tapi-Dacongogon-Bantayan Rd		16.591967	
	Prosperidad-Quezon-Cabaron Rd		1.485785	
	Su-ay-B Pass Rd		49.692326	
	Vallehermoso-Calaon City-La Castellana Rd			
	Talegap-ay Br.			
	Dapandihay Br.			
Name of Basin: Jlog-Hilabangan	Camindangan Br.			

Data Items	Name/Description	Units	Date	Remarks
Malaiba Br.				
Malaiba Br.	2			
Linthuanzan Br.				
Mabaia Br.				
Tanolo Br.	2			
Tanolo Br.	1			
Suay Br.-Pass Br.				
Tanolo Br.	3			
Tuyuman Br.				
Tinongan Br.				
Tapi Br.				
Su-ay Br.				
Pantao Br.				
Panaculan Br.				
Odingon Br.				
Pinac-Ulingan Br.				
Sta. Emilia Br.				
Sir-ag Br.				
Samac Br.				
Ilog Br.				
Antipolo Br.				
Balabago Br.				
Cabadiaran Br.				
Caringay Br.				
Candiacap Br.				
Cambusok Br.				
Binatayan Br.				
Binadiong Br.				
Batang Br.				
Buri Br.				
Bundog Br.				
Binsabanan Br.				
Canuyod Br.				
Alimango Br.	1			
Goso Br.				
Haba Br.				
Abis Br.				
Hilabanean Br.				
Crossing Ilog Br.				
Catacupan Br.				
Caradicang Br.				
Diay Br.				
Daconcogon Br.				
Alicante Br.				
Tokon-Tokon Br.				
Table Br.				
Libas-Panaguao Br.				
Camansi Br.				
Honoban Br.				
Guintubahan Br.				
Batutina Br.	3			
Calasa Br.				
Taburda Br.				
Indurayan Br.				
Antulan Br.				
River	Ilog Hilabangan River	km.	186.625802	Length
Negros Occidental I DEO			36.321217	
Negros Occidental IV DEO			162.395226	
Negros Oriental II DEO		sq. km.	733.401946	Area
Negros Occidental I DEO			86.871762	
Negros Occidental III DEO			1207.6726	
Negros Oriental III DEO			117.546200	
Negros Oriental I DEO			34.123095	
San Carlos City (City)			35.784471	
Bago City (City)			30.085734	
La Carlota City (City)			33.4690578	
Carcar City (City)			117.298204	
Isabela (City)			176.817245	
Himamaylan City (City)			265.688257	
Kabankalan City (City)			625.109111	
Candon (City)			69.007192	
Bayawan (City)			117.306935	
Bais City (City)			104.405237	
Tanjay (City)			35.493615	
La Castellana			205.309714	
Vallehermoso			9.868133	
San Enrique			38.217588	
Moises Padilla (Magallan)			86.661814	
Pontevdra			82.742359	
Hinigaran			129.675155	
La Libertad			0.129837	
Jimbalud			22.889536	
Ilog			249.976627	
Tayasan			84.002315	
Causay			254.766558	
Ayungan			87.524836	
Bindoy			72.010422	
Mabinay			348.689701	
Manuyod			1.167602	
Name of Urban Center	.....	name		Main City Centers
Land Use of River Basin	Forest		118.396290	Natural, Plantation, Bamboo
	Mangrove Forest		2.389061	
	Wooded & Natural Land		2068.473927	Shrub, Grassland, Barren, Marshland
	Annual Crop		1032.270805	
	Perennial Crop		2.272997	
	Pasture		0.000000	
	Fish pond		7.074948	
	Built-up Area		5.610269	
	Water body		6.529602	Inland Water
Simulated Flood Inundation	Area	sq. km.	32.641238	Total Area and Average Depth for River Basin
	Average Depth	meter	1.728238	
	Forest		0.000000	
	Mangrove Forest		0.444773	
	Wooded & Natural Land		3.866630	Inundated area by land use except Water body, which is considered as permanently inundated.
Inundated Area by Land Use	Annual Crop		27.117784	
	Perennial Crop		0.000000	
	Pasture		0.000000	
	Fish pond		0.554594	
	Kabankalan City (City)		0.071861	
Inundated Area by Administrative Boundary	Kabankalan City (City)		12.016905	
	Himamaylan City (City)		2.390103	Total Inundated Area by City/Municipality
	Ilog		15.733029	
	Ayungan		1.128239	
Inundated Area by City/Municipality Population	Kabankalan City (City)		2799.938778	Proportion of City/Municipality Population Inside
	Himamaylan City (City)		556.894015	Population Inside
	Ilog		2344.221330	Inundated Area: Year 2000 Census Data
	Ayungan		261.751434	
Inundation Average Depth by Land Use	Forest		0.000000	
	Mangrove Forest		1.076710	
	Wooded & Natural Land		3.042049	
	Annual Crop		1.510839	
	Perennial Crop		0.000000	
	Pasture		0.000000	
	Fish pond		2.840100	
	Kabankalan City (City)		1.011414	

* The estimated inundation area and depth are preliminary results, and have not been used for screening/analysis as such, but with some modification based on expert judgements and so on (refer to Data Book C).

Name of Basin: Jalaur				
Data Items	Name/Description	Units	Date	Remarks
River Basin	Area	sq. km.	1636.651118	
	Perimeter	km.	253.545531	
Population	Year 2000	person	550241	Census Population
	Year 2005		861556	Projected Population
	Baje-Ng-Nei-Jan-Bingawan Rd		14.806606	
	Balabag-Maquin-Cayo-		9.943255	
Road	Patlad Rd	km.	4.479433	
	Banga-Polot-an-Pototan Pob Rd		11.797599	Length
	Banga Bante-Banga-Polot-an-Barotac Nuevo Rd		23.196774	
Road	Cabatuwan-New Lucena-Banga-Bante Rd	km.	0.986604	
	Dingle P.A. Cadre Road		3.811836	
	Due?as Diversion Rd		41.660053	
	Iloilo-Capiz (New Route)		60.387008	
	Iloilo-Capiz Rd (Old Route)		49.862319	
	Iloilo East Coast-Capiz Rd		37.378228	
	Janiuay-Badiangan-Tina Rd		10.191026	
	Lambunao-INCA Rd		13.156301	
	Lambunao-Bv-Pass Rd		2.777330	
	Passi-Calinoq Rd		13.375277	
	Passi-San Enrique-Garrita Rd		15.479673	
	Passi-Sn Rafael-Lemery-Sara Rd		19.493182	
	Pototan-Mina-Janiuay Rd		15.939569	
	Pototan-Tabugon Rd		11.657123	
	Pototan-Tina-Lambunao Rd		24.444166	
Bridge	Maquin Br.			
	Mataje-Jub Br.			
	Montinola Br.			
	Medarag Br.			
	Tidong Br.			
	Mamburanan Br.			
	Palo Br.			
	Siganrao Br.			
	Suse Br.			
	Tambunao Br.			
	Pefaforda Deza Br.			
	Pefaforda Br.			
	Pungos-Grande Br.			
	Lamonan Br.			
	Baie Br.			
	Cabugao Br.			
	Tomcon Br.			
	Abangay Br.			
	Ulian Br.			
	Asisig Br.			
	Casaicagan Br.			
	Tirador Br.			
	Janipaan Br.			
	Jelicon Br.			
	Casalsagan Br.			
	Irrigation Canal Br.			
	Irrigation Canal Br. 2			
	Caningwan Br.			
	Aglalana Br.			
	Maapao Br.			
	Jalaur Br.			
River	Jalaur River	km.	95.637589	Length
	Capiz DEO		11.347520	
District	Iloilo DEO	sq. km.	1460.990234	
	Iloilo III DEO		1.780918	
	Antique DEO		32.072919	
	Iloilo IV DEO		125.688201	
	Iloilo City DEO		2.970195	
	Passi City (City)		198.873424	
	Iloilo City (City)		2.678955	
	Dumalag		1.892634	
	Dumarao		3.106141	
	Tapaz		5.252078	
	Lambunao		363.501588	
	Bingawan		28.302182	
	Calinog		121.982360	
	San Rafael		2.258933	
	San Enrique		54.015418	
	Valderrama		12.201879	
	Due?as		91.854320	
	Banate		1.420135	
	Dingle		82.07692	
	Anilao		15.786553	
	Janiuay		160.786329	
	San Remigio		17.554025	
	Badiganan		74.254130	
	Pototan		97.969307	
	Maasin		17.567968	
	Mina		50.708835	
	Barotac Nuevo		21.498863	
	Cabutan		34.365012	
	New Luce		43.203988	
	Zarraga		36.518041	
	Santa Ba		19.638437	
	Dumangas		45.327391	
	Leganes		26.394557	
Name of Urban Center	.....	name		Main City Centers
Land Use of River Basin	Forest		195.780207	Natural, Plantation, Bamboo
	Mangrove Forest		1.906728	
	Wooded & Natural Land		480.730915	Shrub, Grassland, Barren, Marshland
	Annual Crop		814.932707	
	Perennial Crop		117.801022	
	Pasture		0.000000	
	Fish pond		15.965851	
	Built-up Area		7.735755	
	Water body		1.868883	Inland Water
Simulated Flood Inundation	Area	sq. km.	66.885546	Total Area and Average Depth for River Basin
	Average Depth	meter	1.513675	
	Forest		0.783890	
	Mangrove Forest		0.453580	
	Wooded & Natural Land		0.136047	
	Annual Crop		32.392810	
	Perennial Crop		25.403897	
	Pasture		0.000000	
	Fish pond		5.657504	Inundated area by land use except Water body, which is considered as permanently inundated.
	Fish pond		0.068600	
	Passi City (City)		0.304691	
	Calinog		0.152094	
	San Enrique		0.006170	
	Dumangas		0.007690	
	Passi City (City)		4.583258	
	Calinog		6.207335	
	San Enrique		5.860589	
	Dumangas		0.678013	
	Pototan		9.882136	Total Inundated Area by City/Municipality
	Barotac Nuevo		11.804391	
	Dumangas		9.103926	
	Zarraga		6.474064	
	Leganes		6.676729	
			5.266372	

Data Items	Name/Description	Units	Data	Remarks
Inundated City/Municipality Population	Passi City (City)	person	1333728155	
	Calinog		2327750507	
	San Enrique		1242449867	
	Duenas		227612410	
	Dingle		4614957451	
	Pototan		7377744086	
	Barotac Nuevo		3068706521	
	Dumanjas		3164769543	
	Zarraga		3839185371	
Proportion of City/Municipality Population Inside Inundated Area: Year 2000 Census Data				
Inundation Average Depth by Land Use	Forest	meter	1.158371	
	Mangrove Forest		2.426300	
	Wooded & Natural Land		0.791879	
	Annual Crop		1.534125	
	Perennial Crop		1.219570	
	Pasture		0.000000	
	Fish pond		2.802850	
	Passi City (City)		1.101502	
	Calinog		1.189312	
Name of Basin: Panay				

* The estimated inundation area and depth are preliminary results, and have not been used for screening/analysis as such, but with some modification based on expert judgements and so on (refer to Data Book C).

Data Items	Name/Description	Units	Data	Remarks
River Basin	Area	sq. km.	2052175575	
	Perimeter	km.	308.443775	
	Year 2000	person	511482	Census Population
	Year 2005	person	603840	Projected Population
	Baje-Neg-ang-Bingawan Rd	km.	14.96666	
	Dao By-Pass Rd	km.	2.62056	
	Iloilo-Capiz Rd (New Route)	km.	58.989564	
	Iloilo-Capiz Rd (Old Route)	km.	78.776468	
	Iloilo East Coast-Capiz Rd	km.	54.199134	
Road	Jct Natl Rd-Ayuyan-Tinglayan Rd	km.	3.109739	
	Jct Natl Rd-Dumarao-Sn Rafael(Iloilo) Rd	km.	24.924297	
	Jct Natl Jct Rd-Jamindan-Linambasan-Camp V Peralta	km.	5.843206	
	Jct Natl Rd-Mi-anay-Duyoc-Calaan-Panitan Rd	km.	17.083391	
	Jct Natl Rd Cuartero-Tapulang-Maayon Rd	km.	22.072856	
	Maayon-Jct Ballan Rd	km.	10.309468	
	Mambusao-Imbug Rd	km.	6.731516	
	Passi-Sn Rafael-Lemery-Sara Rd	km.	29.348767	
	Roxas City Bdry-Panitan-Ballan Rd	km.	11.092011	
Bridge	Sigma-Mambusao-Jamindan Rd	km.	20.416907	
	Sn Rogue-Baybay-Culasi Rd	km.	1.999595	
	Tapaz-Jamindan-Altvaz Rd	km.	38.521771	
	Cuartero Br.	Number	Bailey	
	Codigue Br.			
	Tumalatud Br.			
	Mapangan Br.			
	Maitburg Br. 2			
	Matiubang Br.			
	Maripo Br.			
	Mait Br.			
	Maayon Br.			
Bridge	Leyson Br.	Concrete		
	Maitburg Br.			
	Maitubo Br.			
	Malinao Br.			
	Sibaeuan Br.			
	San Jose Br.			
	Salocan Br.			
	Tapines Br.			
	Tardiao Br.			
Bridge	Sigma Br.	Steel		
	Pasay-an Br.			
	Linambasan Br.			
	Banica Br.			
	Balucuan Br.			
	Balutuan Br.			
	Calitan Br.			
	Calaan Br.			
	Caidiquid Br.			
River	Amaga Br.	Length		
	Altavas Br.			
	Agtabuan Br.			
	Balat-an Br.			
	Badiangan Br.			
	Badbaranan Br.			
	Capiz Br.			
	Inakigan Br.			
	Ilo Br.			
District	Iloian Br.	sq. km.		
	Leguanan Br. 2			
	Leguanan Br. 1			
	Jamindan Br.			
	Habana Br.			
	Quintas Br.			
	Geroncan Br.			
	Quintas Br. 2			
	No Name Br.			
City/Municipality	Mambusao Br.	Area		
	Panitan Br. 2			
	Panay River		168.245616	Length
	1 Capiz DEO		1741.580967	
	2 Aklan DEO		9.803468	
	3 Iloilo III DEO		229.172792	
	4 Iloilo II DEO		30.360933	
	Roxas City (City)		52.473325	
	Passi City (City)		9.855227	
City/Municipality	Panay	sq. km.	81.624094	
	Ivisan		16.169504	
	Altavas		1.535809	
	Sapir-An		25.596851	
	Sigma		5.503622	
	Jamindan		106.272613	
	Mambusao		319.062440	
	Pontevreda		105.239987	
	Dao		4.088946	
City/Municipality	Ma-ayon	sq. km.	65.670518	
	Sara		186.071178	
	President Roxas		96.607203	
			1.846586	

Data Items	Name/Description	Units	Data	Remarks
City/Municipality	Libacao	sq. km.	2.661256	
	Dumalag		107.359004	
	San Dionisio		10.144569	
	Cuartero		97.886842	
	Tapaz		369.313448	
	Dumaraos		219.359419	
	Lemetry		101.142802	
	Binigawan		14.893237	Area
	Lambunao		1.136680	
Land Use of River Basin	San Rafael	Area, sq. km.	25.406758	
	Calinog		7.347452	
	Barotac Viejo		0.869946	
	Name of Urban Center			Main City Centers
			
	Forest		87.346935	Natural, Plantation, Bamboo
	Mangrove Forest		7.706314	
	Wooded & Natural Land		676.190238	Shrub, Grassland, Barren, Marshland
	Annual Crop		1072.796968	
Inundated Area by Land Use	Perennial Crop	Agricultural Land	168.421772	
	Pasture		0.000000	
	Fish pond		26.773718	
	Built-up Area		10.317338	
	Water body		1.811092	Inland Water
	Simulated Flood Inundation		110.690149	Total Area and Average Depth for River Basin
	Average Depth	meter	2.415335	
	Forest	meter	0.020265	
	Mangrove Forest	meter	4.828585	
Inundated Area by Land Use	Wooded & Natural Land	sq. km.	4.785474	Inundated area by land use except Water body, which is considered as permanently inundated
	Annual Crop		76.051129	
	Perennial Crop		9.526053	
	Pasture		0.000000	
	Fish pond		10.437660	
	Roxas City (City)		3.512490	
	Roxas City (City)		21.014235	
	Panay		9.619672	
	Panitan		25.644981	
Inundated Area by Administrative Boundary	Pontevedra	sq. km.	0.382234	
	Sigma		3.918229	
	Dao		17.900558	Total Inundated Area by City/Municipality
	Ma-ayon		0.045991	
	Jamindan		0.908992	
	Cuartero		5.037827	
	Tapaz		16.285739	
	Dumalag		5.548262	
	Dumaraos		0.433495	
Inundated City/Municipality Population	Roxas City (City)	person	47282.09153	
	Panay		23606.674339	
	Panitan		6052.191856	
	Pontevedra		161.302676	
	Sigma		975.638942	
	Dao		8359.560700	
	Ma-ayon		7480.533	
	Jamindan		63.629418	
	Cuartero		1248.61120	
Inundation Average Depth by Land Use	Tapaz	Length	1282.573883	
	Dumalag		1314.936208	
	Dumaraos		78.462512	
	Forest	meter	0.000000	
	Mangrove Forest		1.595312	
	Wooded & Natural Land		10.767121	
	Annual Crop		1.980572	
	Perennial Crop		1.515128	
	Pasture		0.000000	
Bridge	Fish pond	Type	2.367424	
	Roxas City (City)		1.936238	
	Himuanz Br. 2	Concrete		
	Patik Br.			
	Hinalu-an Br.			
	Maragandang Br.			
	Imilhan Br.			
	Cansilinan Br.			
	Sibau Br.			
Bridge	Talus Br.	Steel		
	Wadianan Br.			
	Quezon Br.			
	Roncan Br.			
	Mayava Br.			
	Mauna Br.			
	Pandanon Br.			
	Tayum-an Br.			
	Caliblan Br.			
River	Caliblan Br. 2	Length		
	Benejewan Br.			
	Ansoan Br.			
	Bago Br.			
	Carapale Br.			
	Kipot Br.			
	Kiwi Br.			
	Isomav Br.			
	Codiawan Br.			
District	Damsite Br.	Area		
	Bago River	sq. km.	99.851894	
	Negros Occidental I DEO		561.604381	Area
	Negros Occidental IV DEO		327.358735	
	San Carlos City (City)		229.200675	
	Bago City (City)		270.853174	
	La Carlota City (City)		39.613766	
	Murcia		246.130721	
	Calatrava		86.948159	
Name of Urban Center	Pulupandan	name	19.739397	
	.....			Main City Centers

Data Items	Name/Description	Units	Data	Remarks
Land Use of River Basin	Forest	Area, sq. km.	144.054332	Natural, Plantation, Bamboo
	Mangrove Forest		0.226429	
	Wooded & Natural Land		182.660578	Shrub, Grassland, Barren, Marshland
	Annual Crop		551.380539	
	Perennial Crop		0.825010	Agricultural Land
	Pasture		0.000000	
	Fish pond		3.276308	
	Built-up Area		2.912984	
	Water body		5.388694	Inland Water
Simulated Flood Inundation	Area	sq. km.	24.523099	Total Area and Average Depth for River Basin
	Average Depth	meter	2.231440	
Inundated Area by Land Use	Forest	sq. km.	0.000000	
	Mangrove Forest		0.001037	
	Wooded & Natural Land		1.483792	Inundated area by land use except Water body which is considered as permanently inundated.
	Annual Crop		19.613789	
	Perennial Crop		0.000000	
	Pasture		0.000000	
	Fish pond		0.754959	
Inundated Area by Administrative Boundary	Bago City (City)	sq. km.	0.181020	
	San Carlos City (City)		1.637913	
	Bago City (City)		12.558914	Total Inundated Area by City/Municipality
	Calatrava		0.090218	
	Murcia		1.652051	
Inundated City/Municipality Population	Pulupandan	person	8.584004	
	San Carlos City (City)		420.943554	Proportion of City/Municipality
	Bago City (City)		4571.444750	Population Inside
	Calatrava		14.785739	Inundated Area; Year
	Murcia		180.073519	2000 Census Data
Inundation Average Depth by Land Use	Pulupandan	meter	2961.481295	
	Forest		0.000000	
	Mangrove Forest		0.000000	
	Wooded & Natural Land		4.731616	
	Annual Crop		1.927907	
Inundation Average Depth by Land Use	Perennial Crop		0.000000	
	Pasture		0.000000	
	Fish pond		1.448120	
	Bago City (City)		0.904098	

* The estimated inundation area and depth are preliminary results, and have not been used for screening/analysis as such, but with some modification based on expert judgements and so on (refer to Data Book C).

Name of Basin:	Aklan			
Data Items	Name/Description	Units	Data	Remarks
River Basin	Area	sq. km	804.912249	
	Perimeter	km	180.088079	
Population	Year 2000	person	145582	Census Population
	Year 2005	person	157873	Projected Population
Road	Aklan East Rd	km.	47.280514	Length
	Aklan West Rd (Kalib- Nabas)		42.300675	
Bridge	Bulwang	Number	Concrete	Type
River	Aklan River	km.	92.445683	Length
District	Aklan DEO	sq. km.	603.489916	
	Capiz DEO		177.593649	Area
	Antique DEO		7.134383	
	Iloilo II DEO		14.509729	
City/Municipality	Numanicia	sq. km.	12.514450	
	Kalibo		14.593979	
	Makato		1.666209	
	Lezo		14.077024	
	Malinao		115.410870	
	Banga		64.454507	
	New Washington		0.738389	
	Balete		13.743392	Area
	Madlag		154.469505	
	Libacao		210.624522	
	Jamindan		128.617974	
	Culasi		6.355104	
	Barbaza		0.068479	
	Tapaz		51.082814	
	Lambunao		16.002950	
Name of Urban Center	.....	name		Main City Centers
			
Land Use of River Basin	Forest	Area, sq. km.	336.220106	Natural, Plantation, Bamboo
	Mangrove Forest		0.067066	
	Wooded & Natural Land		334.137813	Shrub, Grassland, Barren, Marshland
	Annual Crop		53.040838	
	Perennial Crop		71.376318	Agricultural Land
	Pasture		0.000000	
	Fish pond		0.662975	
	Built-up Area		1.785892	
	Water body		7.493087	Inland Water
Simulated Flood Inundation	Area	sq. km.	16.950968	Total Area and Average Depth for River Basin
	Average Depth	meter	3.013713	
Inundated Area by Land Use	Forest	sq. km.	1.100131	
	Mangrove Forest		0.000000	
	Wooded & Natural Land		8.667789	Inundated area by land use except Water body, which is considered as permanently inundated.
	Annual Crop		1.452463	
	Perennial Crop		3.132519	
	Pasture		0.000000	
	Fish pond		0.066295	
	Built-up Area		1.785892	
	Water body		7.493087	
Simulated Flood Inundation	Area	sq. km.	16.950968	Total Area and Average Depth for River Basin
	Average Depth	meter	3.013713	
Inundated Area by Land Use	Forest	sq. km.	1.100131	
	Mangrove Forest		0.000000	
	Wooded & Natural Land		8.667789	Inundated area by land use except Water body, which is considered as permanently inundated.
	Annual Crop		1.452463	
	Perennial Crop		3.132519	
	Pasture		0.000000	
	Fish pond		0.066295	
	Built-up Area		1.785892	
	Water body		7.493087	
Inundated Area by Administrative Boundary	Numancia	sq. km.	0.134736	
	Kalibo		3.280122	
	Lezo		3.509326	
	Baraga		0.403876	
	Malinao		3.572975	
Inundated Area by Administrative Boundary	Madarag	sq. km.	0.083059	
	Libacao		2.363430	Total Inundated Area by City/Municipality
	Jamindan		0.194470	
	Tapaz		1.324633	
	Lambunao		0.249886	
Inundated City/Municipality Population	Numancia	person	0.904640	
	Kalibo		2433.850412	Proportion of City/Municipality Population Inside
	Lezo		5930.760482	Inundated Area; Year
	Baraga		355.410876	2000 Census Data
	Malinao		1697.163323	
	Madarag		8.970342	
	Libacao		285.975007	
	Jamindan		47.256236	
	Tapaz		92.724325	
	Lambunao		24.988641	
			139.314603	
Inundation Average Depth by Land Use	Forest	meter	10.015311	
	Mangrove Forest		0.000000	
	Wooded & Natural Land		3.037750	
	Annual Crop		1.136534	
	Perennial Crop		1.408350	
Inundation Average Depth by Land Use	Pasture		0.000000	
	Fish pond		0.000000	
	Kalibo		3.463928	
	Numancia		4.903708	

* The estimated inundation area and depth are preliminary results, and have not been used for screening/analysis as such, but with some modification based on expert judgements and so on (refer to Data Book C).

Name of Basin:	Himocao			
Data Items	Name/Description	Units	Data	Remarks
River Basin	Area	sq. km	493.723170	
	Perimeter	km	107.785223	
Population	Year 2000	person	147.322322	Census Population
	Year 2005	person	138.58872	Projected Population
Road	Bacolod North Rd	km.	147.174476	
	Jct DS Benedicto-Spur 16-		42.047473	
	Calatrava Rd		37.947160	
	Jct Nati Rd Sagay-Bato-Dian-Marcelo-Baleq Jct Rd		14.645055	
Bridge	Stop Aquinaldo-Bug-anq Rd			
Mambalico Br.	Sagay Br.	Number	Concrete	
	Bug-anq Br.		Steel	
	Paniquon Br.			
	Himuba-an Br.			
River	Himocao River	km.	54.971780	Length
District	Negros Occidental I DEO	sq. km.	6450.246135	Area
	Sagay (City)		181.305654	
	Cadiz City (City)		75.561926	
	Escalante (City)		3.375645	
	Silay City (City)		0.011995	
	Toboso		13.662299	
	Calatrava		131.269430	
Name of Urban Center	.....	name		Main City Centers
			
Land Use of River Basin	Forest	Area, sq. km.	72.613536	Natural, Plantation, Bamboo
	Mangrove Forest		0.115199	
	Wooded & Natural Land		74.447148	Shrub, Grassland, Barren, Marshland
	Annual Crop		255.518813	
	Perennial Crop		0.000000	
	Pasture		0.000000	
	Fish pond		0.806543	
	Built-up Area		0.182546	
	Water body		1.228808	

Data Items	Name/Description	Units	Data	Remarks
Simulated Flood Inundation	Area	sq. km.	8.238640	Total Area and Average Depth for River Basin
	Average Depth	meter	2.724738	
	Forest		0.000000	
	Mangrove Forest		0.534000	Natural, Plantation, Bamboo
	Wooded & Natural Land		128.563338	Shrub, Grassland, Barren, Marshland
Inundated Area by Land Use	Annual Crop	sq. km.	7.134275	
	Perennial Crop		0.000000	
	Pasture		0.000000	which is considered as permanently inundated.
	Fish pond		0.224567	
	Sagay (City)		0.128523	
Inundated Area by Administrative Boundary	Sagay (City)		6.755507	
	Escalante (City)	sq. km.	0.043125	Total Inundated Area by City/Municipality
	Toboso		0.235043	
	Calatrava		1.052393	
Inundated City/Municipality Population	Sagay (City)	person	2796.780099	Proportion of City/Municipality Population Inside Inundated Area: Year 2000 Census Data
	Escalante (City)		18.500617	
	Toboso		75.918828	
	Calatrava		172.952156	
Inundation Average Depth by Land Use	Forest	meter	0.000000	
	Mangrove Forest		0.000000	
	Wooded & Natural Land		0.000000	
	Annual Crop		2.734341	
	Perennial Crop		0.000000	
	Pasture		0.000000	
	Fish pond		3.622213	
	Sagay		3.160140	

* The estimated inundation area and depth are preliminary results, and have not been used for screening/analysis as such, but with some modification based on expert judgements and so on (refer to Data Book C).

Name of Basin: Cebu				
Data Items	Name/Description	Units	Data	Remarks
River Basin	Area	sq. km.	231.628916	
	Perimeter	km.	91.187993	
Population	Year 2000	person	652244	Census Population
	Year 2005		659436	Projected Population
Road	AC Cortes Ave	km.	2.962724	
	Arch Reyes Ave		1.347884	
	B Rodriguez Ext		0.178362	
	B Rodriguez St		0.000000	
	Buenaventura St		0.625396	
	C Padilla St		1.938323	
	Camp Magsaysay-Lapu Rd		3.092520	
	Canduman-Cebu North Rd		2.828929	
	Cardo St.		0.451775	
	Cebu-Balamban Transcentral Highway		23.826340	
	Cebu-Toledo Wharf Rd		22.368043	
	Cebu Circumferential Rd (F Llamas St.)		1.379675	
	Cebu Circumferential Rd (Happy Valley Road)		1.265455	
	Cebu Circumferential Rd (Katipunan St.)		1.921703	
	Cebu Circumferential Rd (Salvador St.)		2.465223	
	Cebu North Hajnaya Wharf Rd		27.855672	
	Cebu North Rd		5.711075	
	Civic Ctr Rd I		0.249542	
	Civic Ctr Rd II		0.237666	
	Colon St		1.126148	
	D Jakosalem St		2.184381	
	Escarce St		1.535682	
	F Cabahug Ext/F Cabahug Br		142.1193	Length
	F Cabahug St		0.111171	
	F Gonzales St		0.424255	
	F Sotto Drive		0.502261	
	Fuente Osmena Rd		0.146324	
	Gorordo Ave		2.457389	
	Gov Cuenco Ave		6.564450	
	Imus Rd		2.164879	
	J Luna Ave		3.001564	
	L Logarta Rd		0.607814	
	M Velez-Cebu Guadalupe Rd		2.271520	
	Mabini-Lopez Jaena St		0.383648	
	MJ Cuenco Ave		1.723199	
	N Bacalso Ave (Cebu South)		1.821047	
	N Bacalso Ave (Cebu South)		11.270009	
	N Bacalso Ave (Flyover)		0.248264	
	N Bacalso Ave (Osmeña Blvd Sect)		1.979356	
	Old Cadre Rd		0.666139	
	Osmena Blvd		1.179405	
	RR Landon St		0.921506	
	Salinas Drive		1.188274	
	Sanciangko St		0.669944	
	V Rama-Tres de Abril St		3.013492	
Bridge	Iloilo Br.			Bailey
	Kinatuan Br. 2			
	M. Velez Br.			
	Mahiga Br.			
	Hubad Br.			
	Iesus Br. 2			
	Kinakisan Br. 1			
	Mandague Fly-over			
	Talamban Br. 1			
	Talamban Br. 2			
	Tigub Br.			
	Pitogo Br.			
	Sanciangko Br.			
	Tabuncuk Flyover			
	Butuanon Br. 1			
	Butuanon Br. 2			
	Camputhaw Br.			
	B. Rodriguez Br.			
	Bulacan Br. 1			
	Bulacan Br. 2			
	Canduman Br.			
	F. Cabahug Br.			
	G. Sotto Br.			
	Gen. Maximiliano Bridge			
	Guadalupe Br.			
	Canaga Br.			
	Colon Br.			
	F. Cabahug Br.			
	Archbishop Reyes Flyover		Not Specified	
River	Cebu River	km.	40.528718	Length
District	Cebu Sub-DEO	sq. km.	96.112596	
	Cebu City DEO		119.964391	Area
	Cebu II DEO		13.666588	
	Cebu City (City)		118.751144	
	Mandaue City (City)		24.046208	
	Talisay (City)		12.777152	
	Consolacion		40.137085	
	Liloan		35.915321	
Name of Urban Center	.....	name		Main City Centers

Data Items	Name/Description	Units	Data	Remarks
	Forest		0.000000	Natural, Plantation, Bamboo
	Mangrove Forest		0.534000	
	Wooded & Natural Land		128.563338	Shrub, Grassland, Barren, Marshland
Land Use of River Basin	Annual Crop	Area, sq. km.	2.750633	
	Perennial Crop		32.943986	Agricultural Land
	Pasture		0.000000	
	Fish pond		1.642147	
	Built-up Area		62.424077	
	Water body		2.011234	Inland Water
Simulated Flood Inundation	Area	sq. km.	3.209488	Total Area and Average Depth for River Basin
	Average Depth	meter	1.789583	
	Forest		0.000000	
	Mangrove Forest		0.000000	
	Wooded & Natural Land		0.797658	
Inundated Area by Land Use	Annual Crop	sq. km.	0.100403	Inundated area by land use except Water body.
	Perennial Crop		0.000000	which is considered as permanently inundated.
	Pasture		0.220129	
	Fish pond		0.055715	
	Cebu City (City)		1.86307	
	Mandaue City (City)		0.636885	
	Consolacion		0.888786	
Inundated Area by Administrative Boundary	Cebu City (City)	sq. km.	2.053045	Total Inundated Area by City/Municipality
	Mandaue City (City)		0.285885	
Inundated City/Municipality Population	Cebu City (City)	person	1934.887821	Proportion of City/Municipality Population
	Mandaue City (City)		2217.881278	
	Consolacion		399.977400	
	Forest		0.000000	
	Mangrove Forest		0.000000	
	Wooded & Natural Land		1.620300	
Inundation Average Depth by Land Use	Annual Crop	meter	6.937735	
	Perennial Crop		0.000000	
	Pasture		2.125647	
	Fish pond		0.858460	
	Cebu City (City)		1.415017	
	Mandaue City (City)		2.658064	

* The estimated inundation area and depth are preliminary results, and have not been used for screening/analysis as such, but with some modification based on expert judgements and so on (refer to Data Book C).

Name of Basin: Comaldo (Balamban)				
Data Items	Name/Description	Units	Data	Remarks
River Basin	Area	sq. km.	191.864254	
	Perimeter	km.	87.561337	
Population	Year 2000	person	230625	Census Population
	Year 2005		255010	Projected Population
Road	Cebu-Balamban Transcentral Highway	km.	44.760448	Length
	Toledo-Tabuelan-Sn Remigio	Number	57.316776	
River	Balamban River	km.	53.489441	Length
District	Cebu III DEO	sq. km.	96.182292	
	Cebu Sub-DEO		4.423429	Area
	Cebu City DEO		91.080624	
	Danao City (City)	sq. km.	4.878585	
	Cebu City (City)		93.913075	
	Asturias		38.969213	Area
	Balamban		2818487.000000	
Name of Urban Center	.....	name		Main City Centers
	Forest		0.000000	Natural, Plantation, Bamboo
	Mangrove Forest		0.431958	
	Wooded & Natural Land		176.010093	Shrub, Grassland, Barren, Marshland
Land Use of River Basin	Annual Crop	Area, sq. km.	9.191710	
	Perennial Crop		2.354965	
	Pasture		0.000000	
	Fish pond		0.000000	
	Built-up Area		1.200064	
	Water body		2.331027	Inland Water
Simulated Flood Inundation	Area	sq. km.	4.909032	Total Area and Average Depth for River Basin
	Average Depth	meter	2.066949	
	Forest		0.000000	
	Mangrove Forest		0.284883	
	Wooded & Natural Land		2.014199	
Inundated Area by Land Use	Annual Crop	sq. km.	1.680128	Inundated area by land use except Water body.
	Perennial Crop		0.525669	which is considered as permanently inundated.
	Pasture		0.000000	
	Fish pond		0.002789	
	Asturias		0.093135	
Inundated Area by Administrative Boundary	Cebu City (City)	sq. km.	0.809086	Total Inundated Area by City/Municipality
	Asturias		1.940964	
Inundated City/Municipality Population	Cebu City (City)	person	1761.380522	Proportion of City/Municipality Population Inside
	Asturias		662.807403	Population Inside
	Forest		0.000000	
	Mangrove Forest		1.910587	
	Wooded & Natural Land		2.608899	
Inundation Average Depth by Land Use	Annual Crop	meter	1.492193	
	Perennial Crop		1.616371	
	Pasture		0.000000	
	Fish pond		0.000000	
	Balamban		1.320235	

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Name of Basin: Sapang Dako				
Data Items	Name/Description	Units	Data	Remarks
River Basin	Area	sq. km.	170.30	
	Perimeter	km.	72.17	
Population	Year 2000	person	136130	Census Population
	Year 2005		150347	Projected Population
Road	Cebu-Balamban Transcentral Highway	km.	20.93	
	Cebu-Toledo Wharf Rd		41.10	Length
	Toledo-Pinaingahang-Aluguisan-Mantalongon Rd		40.32	
	Toledo-Tabuelan-Sn Remigio		57.32	
Bridge	Sangi Br. 3	Number		Type
	Dumog Br. 2			
	Sangi Br. 2			
	Alimango Br.			
	Abaca Br.			
	Dumog Br. 1			
	Balud Br.			
River	Sapang Dako River	km.	27.66	Length

Data Items	Name/Description	Units	Date	Remarks
District	1. Cebu III DEO 2. Cebu City DEO 3. Cebu II DEO	sq. km.	144.294287 0.004300 16.925489	Area
City/Municipality	Cebu City (City) Toledo City (City) Talisay (City) Balamban Minigalinta Naga Pinamungahan	sq. km.	10.180594 123.847655 17.746984 14.668666 0.247510 0.029795	Area
Name of Urban Center	..... .....	name		Main City Centers
Land Use of River Basin	Forest Mangrove Forest Wooded & Natural Land Annual Crop Perennial Crop Pasture Fish pond Built-up Area Water body	Area, sq. km.	4.971399 0.000000 159.724356 3.568887 0.000000 0.000000 0.000000 0.852700 0.872830	Natural, Plantation, Bamboo Shrub, Grassland, Barren, Marshland Agricultural Land Inland Water
Simulated Flood Inundation	Area Average Depth	sq. km. meter	3.102902 2.282023	Total Area and Average Depth for River Basin
Inundated Area by Land Use	Forest Mangrove Forest Wooded & Natural Land Annual Crop Perennial Crop Pasture Fish pond	sq. km.	0.000000 0.000000 2.322800 0.680882 0.000000 0.000000 0.000000	Inundated area by land use except Water body, which is considered as permanently inundated.
Inundated Area by Administrative Boundary	Cebu City (City) Toledo City (City) Balamban	sq. km.	0.02 2.95 0.13	Total Inundated Area by City/Municipality
Inundated City/Municipality Population	Cebu City (City) Toledo City (City) Balamban	person	49.60 1928.82 38.79	Proportion of City/Municipality Population Inside
Inundation Average Depth by Land Use	Forest Mangrove Forest Wooded & Natural Land Annual Crop Perennial Crop Pasture Fish pond	meter	0.000000 0.000000 2.440930 1.552421 0.000000 0.000000 0.000000	

* The estimated inundation area and depth are preliminary results, and have not been used for screening/analysis as such, but with some modification based on expert judgements and so on (refer to Data Book C).

Name of Basin:	Sipocone			
Data Items	Name/Description	Units	Date	Remarks
River Basin	Area Perimeter	sq. km. km.	384.552359 103.489059	
Population	Year 2000 Year 2005	person	68459 72791	Census Population Projected Population
Road	Bayawan-Kabankalan Rd Dumaguete South Rd	km.	21.329876 124.436688	Length
Bridge	Milagros Br. Sahyan Br. Guscon Br. Calawag Br. Canalam Br.	Number	144.765087 6.934958 144.423846 80.491925 85.476768	Concrete Type
River	Sipocone River	km.	38.389157	Length
District	1. Negros Oriental I DEO 2. Negros Oriental III DEO	sq. km.	223.599682	Area
City/Municipality	Bacolod (City) Tanjay (City) Bayawan (City) Pamplona Santa Catalina Sibulan	sq. km.	65.042355 144.423846 80.491925 85.476768 1.655424	Area
Name of Urban Center	..... .....	name		Main City Centers
Land Use of River Basin	Forest Mangrove Forest Wooded & Natural Land Annual Crop Perennial Crop Pasture Fish pond Built-up Area Water body	Area, sq. km.	9.402929 0.231465 253.641679 120.049056 0.745638 0.000000 0.440992 0.000000	Natural, Plantation, Bamboo Shrub, Grassland, Barren, Marshland Agricultural Land Inland Water
Simulated Flood Inundation	Area Average Depth	sq. km. meter	8.433055 3.354455	Total Area and Average Depth for River Basin
Inundated Area by Land Use	Forest Mangrove Forest Wooded & Natural Land Annual Crop Perennial Crop Pasture Fish pond	sq. km.	0.005795 0.069191 2.855932 5.111181 0.252807 0.000000	Inundated area by land use except Water body, which is considered as permanently inundated.
Inundated Area by Administrative Boundary	Tanjay (City) Bayawan (City) Pamplona Santa Catalina	sq. km.	0.033989 3.672512 0.024009 521.195252	Total Inundated Area by City/Municipality
Inundated City/Municipality Population	Tanjay (City) Bayawan (City) Pamplona Santa Catalina	person	164.031256 602.292020 3.241269 521.195252	Proportion of City/Municipality Population Inside Inundated Area; Year 2000 Census Data
Inundation Average Depth by Land Use	Forest Mangrove Forest Wooded & Natural Land Annual Crop Perennial Crop Pasture Fish pond Bayawan	meter	2.979828 1.765822 5.460585 2.287115 1.525194 0.000000 0.000000 0.501209	

* The estimated inundation area and depth are preliminary results, and have not been used for screening/analysis as such, but with some modification based on expert judgements and so on (refer to Data Book C).

Name of Basin:		Cataraman		
Data Items	Name/Description	Units	Date	Remarks
River Basin	Area Perimeter	sq. km. km.	522.110507 118.197797	
Population	Year 2000 Year 2005	person	84404 95901	Census Population Projected Population
Road	Alien-Cataraman Rd Calaboy-Cataraman Rd Cataraman-Calaboy Rd Cataraman-Laaoang Rd Cataraman Div Rd 2	km.	46.052417 24.451547 41.390315 22.412388 3.349517	Length
Bridge	Lohoe Br. Malihao Br. Manaspas Br. Higdian Br. Liqued Br. Lin-ab Br. Pinaghiran Br. Somoge Br. Tagubian Br. Nabalooq Br. Ngawo Br. Patikwa Br. Hibabangan Br. Cag-anahao Br. Caganbone Br. Capoborac Br. Abolayon Br. Bayho Br. Cabatuuan Br. Dizo Br. Gemarobay Br. Gibilwangan Br. Caikinay Br. Cataraman Cr. 2 Colakniton Br.	Number		Concrete Type
River	Cataraman River	km.	54.220088	Length
District	Northern Samar I DEO Northern Samar II DEO	sq. km.	428.088795 3.027112	Area
City/Municipality	Cabayog City (City) Cataraman Mondrogan Bobon Lope De Vega Silvino Lobos	sq. km.	93.051558 94.053433 233.153740 41.709871 28.181487 126.216053 3.687823	Area
Name of Urban Center	..... .....	name		Main City Centers
Land Use of River Basin	Forest Mangrove Forest Wooded & Natural Land Annual Crop Perennial Crop Pasture Fish pond	Area, sq. km.	86.532312 2.678047 10.521088 7.543159 0.000000 0.142025 1.676479	Natural, Plantation, Bamboo Shrub, Grassland, Barren, Marshland Agricultural Land
Simulated Flood Inundation	Area Average Depth	sq. km. meter	13.477563 2.149698	Total Area and Average Depth for River Basin
Inundated Area by Land Use	Forest Mangrove Forest Wooded & Natural Land Annual Crop Perennial Crop Pasture Fish pond	sq. km.	0.035446 0.927016 11.161003 0.155920 0.315680 0.000000 0.133539	Inundated area by land use except Water body, which is considered as permanently inundated.
Inundated Area by Administrative Boundary	Cababay City (City) Cataraman	sq. km.	0.198246 10.904393	Total Inundated Area by City/Municipality
Inundated City/Municipality Population	Cataraman Lope De Vega	person	18.462655 2366.253184	Proportion of City/Municipality Population Inside
Inundation Average Depth by Land Use	Forest Mangrove Forest Wooded & Natural Land Annual Crop Perennial Crop Pasture Fish pond Cataraman	meter	0.020332 2.024188 2.164001 1.357169 1.323159 0.000000 3.103489 0.402208	
* The estimated inundation area and depth are preliminary results, and have not been used for screening/analysis as such, but with some modification based on expert judgements and so on (refer to Data Book C).				
Name of Basin:		Dungcaan (Pagbangan)		
Data Items	Name/Description	Units	Date	Remarks
River Basin	Area Perimeter	sq. km. km.	246.255931 81.616716	
Population	Year 2000 Year 2005	person	44347 47793	Census Population Projected Population
Road	Ormoc-Baybay-Southern Leyte Bdwy Rd Tacloban-Baybay South Rd	km.	85.327647 22.887285	Length
Bridge	Nibga Br. 1 Makinah Br. Pamotson Br. Nibga Br. 2 Dunica-an Br. Cuapnit Br. Higulo-an Br. Gubang Br.	Number		Concrete Type
River	Pagbangan River	km.	36.594801	Length
District	1. Leyte V DEO	sq. km.	245.971385	Area
City/Municipality	Baybay Mahaplag Inopacan Hindang	sq. km.	161.116826 0.397839 71.924024 12.686878	Area
Name of Urban Center	..... .....	name		Main City Centers
Land Use of River Basin	Forest Mangrove Forest Wooded & Natural Land Annual Crop Perennial Crop Pasture Fish pond	Area, sq. km.	80.389041 0.418005 47.470861 9.967818 106.597635 0.000000	Natural, Plantation, Bamboo Shrub, Grassland, Barren, Marshland Agricultural Land
Simulated Flood Inundation	Area Average Depth	sq. km. meter	4.307065 2.861812	Total Area and Average Depth for River Basin

Data Items	Name/Description	Units	Date	Remarks
Inundated Area by Land Use	Forest	sq. km.	0.208020	
	Mangrove Forest		0.000000	
	Wooded & Natural Land		1.91440	Inundated area by land use except Water body, which is considered as permanently inundated.
	Annual Crop		1.301443	
	Perennial Crop		0.808000	
	Pasture		0.000000	
Inundated Area by Administrative	Fish pond	sq. km.	0.000000	
	Baybay		4.039464	Total Inundated Area by City/Municipality
Inundated City/Municipality	Ihopacan	sq. km.	0.267601	Proportion of City/Municipality
Inundation Average Depth by Land Use	Baybay	meter	0.9272197	
	Ihopacan		24.866876	
	Forest		3.992057	
	Mangrove Forest		0.000000	
	Wooded & Natural Land		1.972643	
	Annual Crop		2.935735	
Inundation Average Depth by Land Use	Perennial Crop		4.448629	
	Pasture		0.000000	
	Fish pond		0.000000	

* The estimated inundation area and depth are preliminary results, and have not been used for screening/analysis as such, but with some modification based on expert judgements and so on (refer to Data Book C).

Name of Basin: Daguitan-Marabong

Data Items	Name/Description	Units	Date	Remarks
River Basin	Area	sq. km.	346.982607	
	Perimeter	km.	133.137250	
Population	Year 2000	person	85074	Census Population
	Year 2005	person	101182	Projected Population
Road	Burauen-Maharaao Rd	km.	16.651466	
	Daang Maharika (LT)		24.527762	
	Dulag-Julta-Burauen Rd		6.945092	Length
	Jaro-Dasami-Burauen-Lapaz		47.549307	
Bridge	Matadatbad Br.	Number	Concrete	Type
Bridge	Marabong Br.	Number	Concrete	Type
River	Daguitan River	km.	56.171943	Length
District	Levte I DEO	sq. km.	212.440858	
	Levte II DEO		57.107597	Area
	Levte IV DEO		76.083382	
	Levte V DEO		218.824577	
City/Municipality	Ormoc City (City)		125.49566	
	Burauen	sq. km.	132.447021	
	Alibura		41.769294	
	Julta		21.617312	
	Dulag		20.075112	Area
	Lapaz		38.150757	
	Mayorga		0.003734	
	Baybay		61.906433	
	Macarthur		3.632311	
	Javier		13.660502	
Name of Urban Center	.....	name		Main City Centers
	.....	name		
Land Use of River Basin	Forest	Area, sq. km.	126.234123	Natural, Plantation, Bamboo
	Mangrove Forest		0.000000	
	Wooded & Natural Land		14.116287	Shrub, Grassland, Barren, Marshland
	Annual Crop		90.016993	Agricultural Land
	Perennial Crop		115.413974	
	Pasture		0.000000	
	Fish pond		0.310299	
	Built-up Area		0.188214	Inland Water
	Water body			
Simulated Flood Inundation	Area	sq. km.	7.389336	Total Area and Average Depth for River Basin
	Average Depth	meter	2.228812	
Inundated Area by Land Use	Forest	sq. km.	0.188561	
	Mangrove Forest		0.000000	
	Wooded & Natural Land		0.000000	Inundated area by land use except Water body, which is considered as permanently inundated.
	Annual Crop		6.089817	
	Perennial Crop		0.934973	
	Pasture		0.000000	
Inundated Area by Administrative Boundary	Fish pond		0.000000	
	Dulag		0.000038	
	Julta		1.636642	
	Burauen		2.114231	Total Inundated Area by City/Municipality
	Lapaz		2.930821	
	Baybay		0.384265	
Inundated Area by City/Municipality Population	Julta	person	312.407619	Proportion of City/Municipality Population Inside Inundated Area: Year 2000 Census Data
	Burauen		528.557822	
	Dulag		178.371573	
	Lapaz		53.412856	
	Baybay		64.972527	
Inundation Average Depth by Land Use	Forest	meter	4.822804	
	Mangrove Forest		0.000000	
	Wooded & Natural Land		0.000000	
	Annual Crop		1.877397	
	Perennial Crop		3.853781	
	Pasture		0.000000	
Inundation Average Depth by Land Use	Fish pond		0.000000	

* The estimated inundation area and depth are preliminary results, and have not been used for screening/analysis as such, but with some modification based on expert judgements and so on (refer to Data Book C).

Name of Basin: Pagsanga-an (Pagsangan)

Data Items	Name/Description	Units	Date	Remarks
River Basin	Area	sq. km.	452.340000	
	Perimeter	km.	113.733679	
Population	Year 2000	person	135028	Census Population
	Year 2005	person	162459	Projected Population
Road	Kinawanga-Tunganon Hot Spring Rd	km.	10.350827	
	Libungao-Matac-ob-Palompon Rd		34.551677	
	Palo-Carigara-Ormoc Rd		27.932711	Length
	Palompon-Isabel-Merida-Ormoc Rd		65.870438	
	Sto Rosario-Villaba Rd		14.025937	
Bridge	Rizal Br.	Baley		
	Luberan Br.			
	Nahilon Br.			
	Matac-ob Br.			
	Libungao Br.			
	Kinawangan Br.			
	Kinawa Br.			
	Laray Br.			
	Pagsangaan Br.			
	Tugbong Br.			
Bridge	Valencia Br.			
	Nibulangan Br.1			
	Nainiting Br.			
	Natubagan Br.			

Data Items	Name/Description	Units	Date	Remarks
Bridge	Nibulangan Br. 2			
	Hagnayon Br.			
	Bagalongan Br.			
	Balanac Br.			
	Balanac Br. 2			
	Bagacay Br.			
	Asay-ayan Br.			
	Asob-ob Br.			
	Ata Br.			
	Bao Br.			
	Guinkawayan Br.			
	Guintoyan Br.			
	Hagna Br.			
	Catayum Br.			
	Baugo Br.			
	Bony Br. 3			
	Canawagan Br.			
River	Pagsanganhan River	km.	49.646196	Length

Data Items	Name/Description	Units	Date	Remarks
District	Levte III DEO	sq. km.	61.028767	
	Levte II DEO		44.641381	
	Levte IV DEO		346.357583	
City/Municipality	Ormoc City (City)		190.695434	
	Leyte		31.949523	
	Tubango		0.457280	
	Villaba	sq. km.	26.105501	Area
	Kananga		123.293241	
	Carigara		7.351600	
	Matag-ob		27.686257	
	Jaro		0.878046	
	Merida		6.416180	
Name of Urban Center	.....	name		Main City Centers
	.....	name		
Land Use of River Basin	Forest	Area, sq. km.	31.565189	Natural, Plantation, Bamboo
	Mangrove Forest		0.708167	
	Wooded & Natural Land		0.226705	Shrub, Grassland, Barren, Marshland
	Annual Crop		218.824577	
	Perennial Crop		197.853782	Agricultural Land
	Pasture		0.000000	
	Fish pond		0.768455	
	Built-up Area		2.395126	
	Water body		0.000000	Inland Water
Simulated Flood Inundation	Area	sq. km.	22.478270	Total Area and Average Depth for River Basin

Data Items	Name/Description	Units	Date	Remarks
River Basin	Area	sq. km.	217.27	
	Perimeter	km.	73.75	
Population	Year 2000	person	95213	Census Population
	Year 2005	person	111263	Projected Population
Road	Edwin Andrews Airbase Rd	km.	1.30	
	Gov Camins Rd		1.88	
	Pagadian-Zamboanga City Rd		86.84	Length
	Veterans Ave		0.47	
Bridge	San Ignacio Br.			
	San Bernardino Br.			
	Putik Br.			
River	Tumaga River	km.	37.19	Length
District	1 Zamboanga City DEO	sq. km.	217.075558	Area
City/Municipality	Zamboanga City	sq. km.	216.887908	
Name of Urban Center	.....	name		Main City Centers
	.....	name		
Land Use of River Basin	Forest	Area, sq. km.	88.858775	Natural, Plantation, Bamboo
	Mangrove Forest		2.929296	
	Wooded & Natural Land		68.170969	Shrub, Grassland, Barren, Marshland
	Annual Crop		33.845753	
	Perennial Crop		0.614933	Agricultural Land
	Pasture		0.000000	
	Fish pond		4.557392	
	Built-up Area		18.291601	
	Water body		0.000000	Inland Water
Simulated Flood Inundation	Area	sq. km.	6.967044	Total Area and Average Depth for River Basin
	Average Depth	meter	2.259577	
Inundated Area by Land Use	Forest	sq. km.	0.930118	
	Mangrove Forest		0.000000	
	Wooded & Natural Land		1.030902	Inundated area by land use except Water body, which is considered as permanently inundated.
	Annual Crop		1.893406	
	Perennial Crop		0.002051	
	Pasture		0.000000	
	Fish pond		1.714607	
	Zamboanga City (City)		1.303738	
	Inundated		6.873006	Total Inundated Area by Person
	Zamboanga City (City)		3017.249862	Proportion of
			5.060609	
Inundation Average Depth by Land Use	Forest	meter	0.000000	
	Mangrove Forest		0.000000	
	Wooded & Natural Land		1.660686	
	Annual Crop		1.793057	
	Perennial Crop		0.000000	
	Pasture		0.000000	
Inundation Average Depth by Land Use	Fish pond		2.356553	
	Zamboanga City (City)		0.926534	

* The estimated inundation area and depth are preliminary results, and have not been used for screening/analysis as such, but with some modification based on expert judgements and so on (refer to Data Book C).

Name of Basin: Disacar-Manukan (Jose Dalman Ponot 1)

Data Item	Name/Description	Units	Date	Remarks
River Basin	Area	sq. km.	273.518539	
	Perimeter	km.	73.819281	
Population	Year 2000	person	37170	Census Population
	Year 2005		43810	Projected Population
Road	Dipolog-Sindangan-Liloy Rd	km.	82.837250	Length
Bridge	Motbot Br.	Number	Concrete	Type
River	Jose Dalman River	km.	25.939264	Length
District	I. Zamboanga del Norte I DEO	sq. km.	253.636443	Area
	Z. Zamboanga del Norte III	sq. km.	18.227605	Area
	Manukan	sq. km.	94.063162	
	Jose Dalman (Ponot)		125.049719	
City/Municipality	Pres. Manuel A. Roxas	sq. km.	15.639337	Area
	Sindangan		15.375579	
	Sergio Osmeña Sr.		19.604495	
	Siayan		3.796248	
Name of Urban Center	.....	name	3.796248	Main City Centers
			
	Forest		33.498850	Natural, Plantation, Bamboo
	Mangrove Forest		0.000000	
	Wooded & Natural Land		83.964831	Shrub, Grassland, Barren, Marshland
Land Use of River Basin	Annual Crop	Area, sq. km.	143.685234	
	Perennial Crop		11.535606	Agricultural Land
	Pasture		0.000000	
	Fish pond		0.000000	
	Built-up Area		0.000000	
	Water body		0.000000	Inland Water
Simulated Flood Inundation	Area	sq. km.	0.809460	Total Area and Average Depth for River Basin
	Average Depth	meter	4.116936	
	Forest		0.000000	
	Mangrove Forest		0.000000	
Inundated Area by Land Use	Wooded & Natural Land	sq. km.	0.620980	Inundated area by land use except Water body, which is considered as permanently inundated.
	Annual Crop		0.176375	
	Perennial Crop		0.021018	
	Pasture		0.000000	
	Fish pond		0.000000	
Inundated Area by Administrative Boundary	Manukan	sq. km.	0.306618	Total Inundated Area by City/Municipality
	Jose Dalman (Ponot)		0.502842	
Inundated City/Municipality Population	Manukan	person	42.926520	Proportion of City/Municipality Population Inside Inundated Area: Year 2000 Census Data
	Jose Dalman (Ponot)		60.341014	
Inundation Average Depth by Land Use	Forest		0.000000	
	Mangrove Forest		0.000000	
	Wooded & Natural Land		4.607228	
	Annual Crop		2.563012	
	Perennial Crop		3.025322	
	Pasture		0.000000	
	Fish pond		0.000000	

* The estimated inundation area and depth are preliminary results, and have not been used for screening/analysis as such, but with some modification based on expert judgements and so on (refer to Data Book C).

Name of Basin: Sibuguey

Data Item	Name/Description	Units	Date	Remarks
River Basin	Area	sq. km.	1009.755119	
	Perimeter	km.	197.466274	
Population	Year 2000	person	127013	Census Population
	Year 2005		162799	Projected Population
Road	Jct Imelda-Alicia Rd	km.	18.777669	
	Lanao-Pagadian-Zamboanga City Rd		127.534139	Length
Bridge	Gusawan Br.			
	Gondong Br. 2			
	Gondong Br. 1			
	Suluan Br.			
	Sibuguey Br.			
	San Jose Br.			
	Gandiangan Br.			
	Bulunuan Br.			
	Batu Br.			
	Baluran Br.			
	Coloy Br.			
	Coloran Br.			
	Calapan Br.			
River	Sibuguey River	km.	124.453444	Length
District	I. Zamboanga del Norte I DEO		3.213855	
	2. Zamboanga del Sur II DEO		342.669008	
	3. Zamboanga del Sur I DEO		18.963009	Area
	4. Zamboanga del Norte II DEO		28.837808	
	5. Zamboanga Sibuguey DEO		606.465879	
	.....		0.055723	
City/Municipality	Siayan	sq. km.	2.821829	
	Lakewood		93.271236	
	Bayog		251.627443	
	Midsalip		19.490165	
	Bacungan		27.126405	
	Siay		350.113032	
	Kabasalan		72.637145	Area
	Biuig		47.199243	
	Diplahan		49.405101	
	Imelda		51.128619	
	Malanzas		2.024412	
	Payaog		23.582030	
	Alicia		19.200910	
Name of Urban Center	.....	name		Main City Centers
			
	Forest		128.633620	Natural, Plantation, Bamboo
	Mangrove Forest		24.920048	
	Wooded & Natural Land		244.745120	Shrub, Grassland, Barren, Marshland
Land Use of River Basin	Annual Crop	Area, sq. km.	169.388478	
	Perennial Crop		398.909586	Agricultural Land
	Pasture		0.000000	
	Fish pond		38.634091	
	Built-up Area		1.422805	
	Water body		1.117898	Inland Water
Simulated Flood Inundation	Area	sq. km.	66.481375	Total Area and Average Depth for River Basin
	Average Depth	meter	1.689880	Depth for River Basin

Data Item	Name/Description	Units	Data	Remarks
Inundated Area by Land Use	Forest	sq. km.	0.595349	
	Mangrove Forest		2.312350	
	Wooded & Natural Land		2.047358	
	Annual Crop		41.772650	Inundated area by land use except Water body, which is considered as permanently inundated.
	Perennial Crop		5.633232	
	Pasture		0.000000	
	Fish pond		12.524863	
	Bayog		0.009510	
	Imelda		0.102518	
Inundated Area by Administrative Boundary	Lakewood	sq. km.	1.036279	
	Bayog		5.486623	
	Biuig		1.742197	
	Diplahan		10.646861	Total Inundated Area by City/Municipality
	Siay		40.289582	
	Kabasalan		0.089594	
	Imelda		6.284449	
	Payaog		0.911136	
Inundated City/Municipality Population	Lakewood	person	80.823783	Proportion of City/Municipality Population Inside Inundated Area: Year 2000 Census Data
	Bayog		504.769334	
	Biuig		329.275327	
	Diplahan		405.117135	
	Siay		3343.711628	
	Kabasalan		8.839238	
	Imelda		2199.556996	
	Payaog		277.896614	
Inundation Average Depth by Land Use	Forest	meter	2.031315	
	Mangrove Forest		1.621280	
	Wooded & Natural Land		1.689666	
	Annual Crop		1.521079	
	Perennial Crop		2.122541	
	Pasture		0.000000	
	Fish pond		1.998168	
	Bayog		0.530045	
	Imelda		2.299887	

* The estimated inundation area and depth are preliminary results, and have not been used for screening/analysis as such, but with some modification based on expert judgements and so on (refer to Data Book C).

Name of Basin: Mapangi

Data Item	Name/Description	Units	Data	Remarks
River Basin	Area	sq. km.	1300.60	
	Perimeter	km.	173.99	
Population	Year 2000	person	258734	Census Population
	Year 2005		300700	Projected Population
Road	Dipolo-Punta-Dansulan-S Osmeña-Zambo N/Sur Bdry	km.	36.63	
	Jct Aurora-Monte Alegre-Jct Labanan Rd		26.50	Length
	Jct Aurora-Ozamis City Rd		30.57	
	Jct Blancia-Molave-Joséfinha		36.10	
	Jct Switch-Jct Monte Alegre		7.88	
	Ozamis-Pagadian Rd		40.29	
Bridge	Pulacao Br.	Number		
	Reanon Magsaysay Br.			
	Navalan Br.			
	Pangali Br.			
	Tuluan Br.			
	Usugan Br.			
	Salut Dacu Br.			
	Salut Diut Br.			
	Mendoza Br.			
	Digoson Br.			
	Dipolo Daku Br.			
	Baguumbing Br.			
	Buracan Br.			
	Gabunon Br.			
	Lodiong Br.			
	Dipolo Gamay Br.			
	Dupot Br.			
River	Mapangi River	km.	82.67	Length
District	I. Zamboanga del Norte III	sq. km.	154.711009	
	2. Misamis Occidental Sub-		254.053651	
	3. Zamboanga del Sur I DEO		891.830363	Area
	.....		0.000044	
City/Municipality	Tangub City (City)	sq. km.	30.278506	
	Ozamis City		0.027311	
	Sergio Osmeña Sr.		116.217139	
	Don Victoriano Chiongbian		123.975348	
	Duminaig		131.689066	
	Josefina		59.850571	
	Mahayag		172.616439	
	Molave		83.543730	
	Clarin		1.289069	
	Bonifacio		101.605117	
	Tambulig		150.027316	
	Somiton (Don Mariano Marcos)		128.483029	
	Ramon Magsaysay (Liango)		51.188899	
	Aurora		101.225158	
	Tukuran		11.982814	
Name of Urban Center	.....	name		Main City Centers
			
	Forest		86.143450	Natural, Plantation, Bamboo
	Mangrove Forest		24.131438	
	Wooded & Natural Land		135.825330	Shrub, Grassland, Barren, Marshland
Land Use of River Basin	Annual Crop	Area, sq. km.	720.760909	
	Perennial Crop		296.347803	Agricultural Land
	Pasture		0.000000	
	Fish pond		22.203114	
	Built-up Area		6.460660	
	Water body		2.690750	Inland Water
Simulated Flood Inundation	Area	sq. km.	81.661873	Total Area and Average Depth for River Basin
	Average Depth	meter	1.247453	
Inundated Area by Land Use	Forest	sq. km.	0.000000	
	Mangrove Forest		7.224766	
	Wooded & Natural Land		0.980037	
	Annual Crop		56.140127	
	Perennial Crop		0.023768	
	Pasture		0.000000	
	Fish pond		14.817718	
	Mahayag		0.064255	
	Molave		0.235244	
	Ramon Magsaysay (Liango)		0.012592	
	Bonifacio		0.041825	
	Aurora		0.93	
Inundated Area by Administrative Boundary	Tangub City (City)	sq. km.	0.66	
	Sergio Osmeña Sr.		6.14	
	Molave		6.26	Total Inundated Area by City/Municipality
	Mahayag		54.67	
	Tambulig		3.50	
	Ramon Magsaysay (Liango)		1.39	
	Bonifacio		8.11	
	Aurora		8.11	

Data Items	Name/Description	Units	Date	Remarks
Inundated City/Municipality Population	Tangub City (City)	person	37541	
	Sergio Osmeña Sr.		3245	
	Molave		3320	Proportion of City/Municipality Population Inside
	Mahayag		151504	
	Tambulig		114253	Inundated Area; Year 2000 Census Data
	Ramon Magsaysay (Liaro)		159399	
Inundation Average Depth by Land Use	Bonifacio	meter	38163	
	Aurora		197137	
	Forest		0.000000	
	Mangrove Forest		0.693809	
	Wooded & Natural Land		1.249771	
	Annual Crop		0.890356	
Population	Perennial Crop		0.796557	
	Pasture		0.000000	
	Fish pond		2.115605	
	Mahayag		0.953386	
	Molave		0.533027	
	Ramon Magsaysay (Liaro)		0.280888	
Population	Aurora		3.295542	

* The estimated inundation area and depth are preliminary results, and have not been used for screening/analysis as such, but with some modification based on expert judgements and so on (refer to Data Book C).

Name of Basin: Tagoloan (Tagaloan)

Data Items	Name/Description	Units	Data	Remarks
River Basin	Area	sq. km.	1757.11	
	Perimeter	km.	209.81	
Population	Year 2000	person	190174	Census Population
	Year 2005		224322	Projected Population
Road	Butuan City-Cagayan de Oro City-Ligan City Rd	km.	14.44	Length
	Gingoog-Claveria-Villanueva		45.08	
	Jet Sayre H-way-Impasugong-Patulungan By-Pass Rd		10.82	
	Jet SH-Manolo Fortich-Libona-Indahag Rd		45.48	
	Jet SH-Sn Miguel-Del Monte Airport Rd		2.35	
	Misamis Or-Bukidnon-Agusan Rd		18.41	
Bridge	Sayre Highway		114.50	
	Kalingking Br.	Number	Bailey	
	Gagatas Br.			
	Malitbog Br.			
	Monjoc Br.			
	Lunukan Br.			
Bridge	Mangima Br.			
	Sumaisag Br.			
	Tagoloan Br.			
	Pugan Br.			
	Panoon Br.			
	Patroceno Br.			
Bridge	Alalam Br.			
	Atugan Br.			
	Alae New Br.			
	Alae Old Br.			
	Dicium Br.			
	Komotol Br.			
Bridge	Kulaman Br.			
	Impasugong Br.			
	Ipoon Br.			
	Tagaloan River	km.	87.10	Length
	1. Misamis Oriental II DEO	sq. km.	168.108783	
	2. Bukidnon III DEO		974.07551	
	3. Bukidnon I DEO		613.78424	
	4. Cagayan de Oro City DEO		0.270940	
City/Municipality	Cagayan de Oro City (City)	sq. km.	0.139469	
	Malabuyoc City (City)		149.158539	
	Claveria		92.501611	
	Jasaan		0.013614	
	Villanueva		26.136103	
	Malitbog		370.889026	
City/Municipality	Impasug-ong		466.185447	
	Tagoloan		44.912371	
	Manolo Fortich		345.933386	
	Sumilao		217.22305	
	Libona		5.371711	
	Baungon		12.935645	
City/Municipality	Talakag		16.454944	
	Lantapan		8.755268	
	.....	name	Main City Centers	
			
Land Use of River Basin	Forest	Area, sq. km.	325.146614	
	Mangrove Forest		0.000000	
	Wooded & Natural Land		1029.986207	
	Annual Crop		188.279613	
	Perennial Crop		182.118795	
	Pasture		0.000000	
Land Use of River Basin	Fish pond		28.978805	
	Built-up Area		2.032396	
	Water body		12.895326	Inland Water
	Simulated Flood Inundation	Area, sq. km.	12.895322	Total Area and Average Depth for River Basin
	Average Depth	meter	3.931915	
	Forest	sq. km.	0.000000	
Inundated Area by Land Use	Mangrove Forest		0.000000	
	Wooded & Natural Land			
	Annual Crop			
	Perennial Crop			
	Pasture			
	Fish pond			
Inundated Area by Land Use	Built-up Area			
	Water body			
	Simulated Flood Inundation	Area, sq. km.	12.895322	Total Area and Average Depth for River Basin
	Average Depth	meter	3.931915	
	Forest	sq. km.	0.000000	
	Mangrove Forest		0.000000	
Inundated Area by Land Use	Wooded & Natural Land		7.613979	Inundated area by land use except Water body, which is considered as permanently inundated.
	Annual Crop		3.078004	
	Perennial Crop		0.703661	
	Pasture		0.000000	
	Fish pond		0.285058	
	Built-up Area		0.352318	
Inundated Area by Land Use	Water body		1.886016	
	Simulated Flood Inundation	Area, sq. km.	12.895322	Total Area and Average Depth for River Basin
	Average Depth	meter	3.931915	
	Forest	sq. km.	0.000000	
	Mangrove Forest		0.000000	
	Wooded & Natural Land		7.613979	
Inundated Area by Land Use	Annual Crop		3.078004	
	Perennial Crop		0.703661	
	Pasture		0.000000	
	Fish pond		0.285058	
	Built-up Area		0.352318	
	Water body		1.886016	
Inundated Area by Land Use	Simulated Flood Inundation	Area, sq. km.	12.895322	Total Area and Average Depth for River Basin
	Average Depth	meter	3.931915	
	Forest	sq. km.	0.000000	
	Mangrove Forest		0.000000	
	Wooded & Natural Land		7.613979	
	Annual Crop		3.078004	
Inundated Area by Land Use	Perennial Crop		0.703661	
	Pasture		0.000000	
	Fish pond		0.285058	
	Built-up Area		0.352318	
	Water body		1.886016	
	Simulated Flood Inundation	Area, sq. km.	12.895322	Total Area and Average Depth for River Basin
Inundated Area by Land Use	Average Depth	meter	3.931915	
	Forest	sq. km.	0.000000	
	Mangrove Forest		0.000000	
	Wooded & Natural Land		7.613979	
	Annual Crop		3.078004	
	Perennial Crop		0.703661	
Inundated Area by Land Use	Pasture		0.000000	
	Fish pond		0.285058	
	Built-up Area		0.352318	
	Water body		1.886016	
	Simulated Flood Inundation	Area, sq. km.	12.895322	Total Area and Average Depth for River Basin
	Average Depth	meter	3.931915	
Inundated Area by Land Use	Forest	sq. km.	0.000000	
	Mangrove Forest		0.000000	
	Wooded & Natural Land		7.613979	
	Annual Crop		3.078004	
	Perennial Crop		0.703661	
	Pasture		0.000000	
Inundated Area by Land Use	Fish pond		0.285058	
	Built-up Area		0.352318	
	Water body		1.886016	
	Simulated Flood Inundation	Area, sq. km.	12.895322	Total Area and Average Depth for River Basin
	Average Depth	meter	3.931915	
	Forest	sq. km.	0.000000	
Inundated Area by Land Use	Mangrove Forest		0.000000	
	Wooded & Natural Land		7.613979	
	Annual Crop		3.078004	
	Perennial Crop		0.703661	
	Pasture		0.000000	
	Fish pond		0.285058	
Inundated Area by Land Use	Built-up Area		0.352318	
	Water body		1.886016	
	Simulated Flood Inundation	Area, sq. km.	12.895322	Total Area and Average Depth for River Basin
	Average Depth	meter	3.931915	
	Forest	sq. km.	0.000000	
	Mangrove Forest		0.000000	
Inundated Area by Land Use	Wooded & Natural Land		7.613979	
	Annual Crop		3.078004	
	Perennial Crop		0.703661	
	Pasture		0.000000	
	Fish pond		0.285058	
	Built-up Area		0.352318	
Inundated Area by Land Use	Water body		1.886016	
	Simulated Flood Inundation	Area, sq. km.	12.895322	Total Area and Average Depth for River Basin
	Average Depth	meter	3.931915	
	Forest	sq. km.	0.000000	
	Mangrove Forest		0.000000	
	Wooded & Natural Land		7.613979	
Inundated Area by Land Use	Annual Crop		3.078004	
	Perennial Crop		0.703661	
	Pasture		0.000000	
	Fish pond		0.285058	
	Built-up Area		0.352318	
	Water body		1.886016	
Inundated Area by Land Use	Simulated Flood Inundation	Area, sq. km.	12.895322	Total Area and Average Depth for River Basin
	Average Depth	meter	3.931915	
	Forest	sq. km.	0.000000	
	Mangrove Forest		0.000000	
	Wooded & Natural Land		7.613979	
	Annual Crop		3.078004	
Inundated Area by Land Use	Perennial Crop		0.703661	
	Pasture		0.000000	
	Fish pond		0.285058	
	Built-up Area		0.352318	
	Water body		1.886016	
	Simulated Flood Inundation	Area, sq. km.	12.895322	Total Area and Average Depth for River Basin
Inundated Area by Land Use	Average Depth	meter	3.931915	
	Forest	sq. km.	0.000000	
	Mangrove Forest		0.000000	
	Wooded & Natural Land		7.613979	
	Annual Crop		3.078004	
	Perennial Crop		0.703661	
Inundated Area by Land Use	Pasture		0.000000	
	Fish pond		0.285058	
	Built-up Area		0.352318	
	Water body		1.886016	
	Simulated Flood Inundation	Area, sq. km.	12.895322	Total Area and Average Depth for River Basin
	Average Depth	meter	3.931915	
Inundated Area by Land Use	Forest	sq. km.	0.000000	
	Mangrove Forest		0.000000	
	Wooded & Natural Land		7.613979	
	Annual Crop		3.078004	
	Perennial Crop		0.703661	
	Pasture		0.000000	
Inundated Area by Land Use	Fish pond		0.285058	
	Built-up Area		0.352318	
	Water body		1.886016	
	Simulated Flood Inundation	Area, sq. km.	12.895322	Total Area and Average Depth for River Basin
	Average Depth	meter	3.931915	
	Forest	sq. km.	0.000000	
Inundated Area by Land Use	Mangrove Forest		0.000000	
	Wooded & Natural Land		7.613979	
	Annual Crop		3.07	

Data Items	Name/Description	Units	Date	Remarks
City/Municipality	Mambajao	sq. km.	74.348208	Area
	Catarman		76.069700	
	Mahinog		29.344986	
	Sagay		33.642716	
	Guinsiliban		30.385295	
	Main City Centers
Land Use of River Basin	Forest	Area, sq. km.	16.352260	Natural, Plantation, Bamboo
	Mangrove Forest		0.072479	
	Wooded & Natural Land		83.466487	Shrub, Grassland, Barren, Marshland
	Annual Crop		83.466487	
	Perennial Crop		116.097789	Agricultural Land
	Pasture		0.000000	
	Fish pond		0.000000	
	Built-up Area		1.908737	
	Water body		0.078446	Inland Water
	
Simulated Flood Inundation	Area	sq. km.	0.854323	Total Area and Average Depth for River Basin
	Average Depth	meter	2.413067	
Inundated Area by Land Use	Forest	sq. km.	0.000000	Inundated area by land use except Water body, which is considered as permanently inundated.
	Mangrove Forest		0.000000	
	Wooded & Natural Land		0.005431	
	Annual Crop		0.000000	
	Perennial Crop		0.602735	
	Pasture		0.000000	
	Fish pond		0.000000	
	Cataraman		0.240311	
	
	Inundated Area by Cataraman	sq. km.	0.854323	Total Inundated Area by Cataraman
Inundation Average Depth by Land Use	Cataraman	person	170.864518	Proportion of
	Forest	meter	0.000000	Inundated area by land use except Water body, which is considered as permanently inundated.
	Mangrove Forest		1.150269	
	Wooded & Natural Land		3.880	
	Annual Crop		0.000000	
	Perennial Crop		2.060610	
	Pasture		0.000000	
	Fish pond		0.000000	
	Cataraman		3.470173	
	

* The estimated inundation area and depth are preliminary results, and have not been used for screening/analysis as such, but with some modification based on expert judgements and so on (refer to Data Book C).

Name of Basin: Marandong				
Data Items	Name/Description	Units	Date	Remarks
River Basin	Area	sq. km.	841.45	Length
	Perimeter	km.	151.26	
	Year 2000	person	160900	
	Year 2005	person	180944	
Road	Dobleston-Butadon Rd	km.	15.59	
	Jct Aurora-Monte Alegre-Jct Labangan Rd		26.50	
	Jct Aurora-Ozamis City Rd		30.57	
	Lanao-Pagadian-Zamboanga City Rd		38.80	
	Linampon-Zamboanga Rd		28.83	
Bridge	Tubod-Ganassi Road	Number	16.14	Type
	Sta. Cruz Br.			
	Marandong Br.			
	Quinalos Br.			
	Bansarvill Br.			
	Butadon Br.			
River	Gumagamot Br.	Steel		Length
	Kabasalan Br.			
District	Marandong River	km.	61.04	Area
	1. Lanao del Norte II DEO	738.552468		
	2. Lanao del Norte I DEO	45.917764		
	3. Zamboanga del Sur I DEO	52.614389		
	4. Lanao del Sur DEO	4.215976		
City/Municipality	Lala	sq. km.	102.755903	Area
	Tubod		21.269949	
	Kapatagan		182.837497	
	Tangcal		82.554297	
	Aurora		51.138790	
	Salvador		39.336435	
	Munai		0.525917	
	Madamba		5.268642	
	Nunungan		207.701756	
	Sapad		102.855581	
Name of Urban Center	Sultan Naga Dimaporo	name	21.012955	Main City Centers
	
Land Use of River Basin	Forest	Area, sq. km.	213.845272	Natural, Plantation, Bamboo
	Mangrove Forest		17.449278	
	Wooded & Natural Land		130.883441	
	Annual Crop		253.948100	
	Perennial Crop		202.529584	
	Pasture		0.000000	
	Fish pond		15.655268	
	Built-up Area		2.411533	
	Water body		2.496808	
	
Simulated Flood Inundation	Area	sq. km.	30.441091	Total Area and Average Depth for River Basin
	Average Depth	meter	1.344887	
Inundated Area by Land Use	Forest	sq. km.	0.265262	Inundated area by land use except Water body, which is considered as permanently inundated.
	Mangrove Forest		1.303552	
	Wooded & Natural Land		0.327203	
	Annual Crop		15.848858	
	Perennial Crop		4.941852	
	Pasture		7.084717	
	Fish pond		0.088807	
	Lala		19.740782	
	Kapatagan		7.171267	
	Tangcal		1.250975	
Inundated Area by Administrative Boundary	Salvador	person	1.668875	Total Inundated Area by City/Municipality
	Sapad		0.588392	
	Lala		8172.683728	
	Kapatagan		1.5716.78770	
	Tangcal		43.784128	
Inundated City/Municipality Population	Salvador	meter	724.291885	Proportion of City/Municipality Population Inside Inundated Area; Year 2000 Census Data
	Sapad		86.493693	
	Forest		5.931370	
	Mangrove Forest		1.569245	
	Wooded & Natural Land		5.365927	
Inundation Average Depth by Land Use	Annual Crop	meter	1.036264	Total Inundation Average Depth by Land Use
	Perennial Crop		1.195143	
	Pasture		0.000000	
	Fish pond		1.616509	
	Lala		2.137631	

* The estimated inundation area and depth are preliminary results, and have not been used for screening/analysis as such, but with some modification based on expert judgements and so on (refer to Data Book C).

Name of Basin: Iponan (Iponon)				
Data Items	Name/Description	Units	Date	Remarks
River Basin	Area	sq. km.	470.969030	Length
	Perimeter	km.	118.406903	
	Population	person	329.9236	
	Year 2000	person	329.9236	
	Year 2005	person	401.5954	
	Butuan City-Cagayan de Oro City-Iligan City Rd	km.	87.798896	
	Carmen-Patac-Bulua Rd		4.802899	
	CDO-Airport-Bukidnon Rd		26.447545	
	CDO-Cadre Circumferential Ext Rd		1.305895	
	CDO-Cadre Rd		0.477061	
	Jct Nat'l Hwy-Bulua Rd		0.485993	
Road	Iponan Br. 2	Number		Type
	Iponan Br. 1			
Bridge	Bulua Br.	Concrete		
	Iponon River		km.	
	1 Misamis Oriental II DEO		86.241353	
	2 Cagayan de Oro City DEO		348.236531	
	3 Iligan City DEO		645.594022	
	Cagayan de Oro City (City)		172.628979	
District	Ilgan City	sq. km.	162.229793	Area
	Opol		116.280505	
	Baungon		0.027961	
	El Salvador		4.483223	
	Manticao		15.235702	
	Main City Centers
City/Municipality	Forest	Area, sq. km.	155.897118	Natural, Plantation, Bamboo
	Mangrove Forest		0.000000	
	Wooded & Natural Land		282.385581	
	Annual Crop		12.090334	
	Perennial Crop		3.254329	
	Pasture		0.000000	
	Fish pond		1.466040	
	Built-up Area		15.582670	
	Water body		0.000000	
	
Simulated Flood Inundation	Area	sq. km.	7.476432	Total Area and Average Depth for River Basin
	Average Depth	meter	2.7711934	
Inundated Area by Land Use	Forest	sq. km.	0.638688	Inundated area by land use except Water body, which is considered as permanently inundated.
	Mangrove Forest		0.000000	
	Wooded & Natural Land		5.737175	
	Annual Crop		0.037790	
	Perennial Crop		0.022269	
	Pasture		0.000000	
	Fish pond		0.000000	
	Cagayan de Oro City (City)		0.625166	
	Opol		0.390611	
	
Inundated Area by Administrative Boundary	Cagayan de Oro City (City)	sq. km.	4.939516	Total Inundated Area by City/Municipality
	Ilgan City (City)		1.073778	
	Opol		651.282213	
	Kapai		637.776457	
	Bubong		249.116498	
Inundated City/Municipality Population	Forest	meter	7.325382	Proportion of City/Municipality Population Inside Inundated Area; Year 2000 Census Data
	Mangrove Forest		0.000000	
	Wooded & Natural Land		2.445379	
	Annual Crop		3.238723	
	Perennial Crop		1.434081	
Inundation Average Depth by Land Use	Pasture	meter	0.000000	Total Inundation Average Depth by Land Use
	Fish pond		0.000000	
	Cagayan de Oro City		1.502485	
	Opol		1.687830	
	

Data Items	Name/Description	Units	Date	Remarks
Inundation Average Depth by Land Use	Forest	meter	5.492925	
	Mangrove Forest		0.000000	
	Wooded & Natural Land		2.807267	
	Annual Crop		5.308706	
	Perennial Crop		2.038977	
	Pasture		0.000000	
Fish pond	Fish pond		0.000000	
	Iligan City		2.419141	

* The estimated inundation area and depth are preliminary results, and have not been used for screening/analysis as such, but with some modification based on expert judgements and so on (refer to Data Book C).

Name of Basin: Busay-an-Malungun				
Data Items	Name/Description	Units	Date	Remarks
River Basin	Area	sq. km	157.011110	
	Perimeter	km	219.532004	
	Year 2000	person	334971	Census Population
	Year 2005	person	406452	Projected Population
	Busay-an-Glan Rd	km.	0.482373	
	Digos-Makar Rd		63.428771	
Road	H-way Jct Mana-Ticulon-Lagumit-Little Baguiyo Rd		22.666921	Length
	Jct Digos-Buayan Airport Rd		5.039779	
	Sarangan-Davao Del Sur Coastal Rd		94.160150	
	Nagnan Br.			
	Tinaganan Br.			
	Upper Buayan Br.			
Bridge	Banate Br.	Number		
	Biangan Br.			
	Buayan Br.			
	River		34.230328	Length
	Buayan River		702.067887	
	Davao del Sur Sub-DEO		110.036849	Area
District	South Cotabato DEO	sq. km.	666.858433	
	Sarangan DEO		90.884831	
	General Santos City DEO		88.079377	
	General Santos City (City)		105.03626	
	Malalas		9.56716	
	Santa Mari		5.524751	
City/Municipality	Tempakan	sq. km.	96.284043	
	Polomolok		5.680714	Area
	Tapi		499.709478	
	Malita		323.872654	
	Malungon		319.807036	
	Alabel		25.342260	
Name of Urban Center	Malapatan	name	0.511598	
	Don Marcel			
	.....			Main City Centers
			
	Forest		274.339796	Natural Plantation, Bamboo
	Mangrove Forest		0.204093	
Land Use of River Basin	Wooded & Natural Land	Area, sq. km.	983.485365	Shrub, Grassland, Barren, Marshland
	Annual Crop		149.058710	
	Perennial Crop		146.250067	Agricultural Land
	Pasture		0.000000	
	Fish pond		5.604249	
	Built-up Area		3.871710	
Simulated Flood Inundation	Water body	sq. km.	6.240514	Inland Water
	Area		14.266594	Total Area and Average Depth for River Basin
	Average Depth		3.257588	
	Forest		0.054385	
	Mangrove Forest		0.040493	
	Wooded & Natural Land		3.652345	Inundated area by land use except Water body, which is considered as permanently inundated.
Inundated Area by Land Use	Annual Crop	sq. km.	2.821238	
	Perennial Crop		4.193774	
	Pasture		0.000000	
	Fish pond		2.764019	
	General Santos City (City)		0.036207	
	Alabel		0.108523	
Inundated Area by Administrative Boundary	General Santos City (City)	sq. km.	2.472491	Total Inundated Area by City/Municipality
	Malita		2.081381	
	Malungon		8.496798	
	Alabel			
	General Santos City (City)		1181.613826	Proportion of City/Municipality Population Inside
	Inundated City/Municipality Population		304.116370	
Inundation Average Depth by Land Use	Malita	person	570.298499	34.421236
	Malungon		1232.035759	Length
	Alabel			
	Forest		8.416645	
	Mangrove Forest		2.727878	
	Wooded & Natural Land		5.198845	
Name of Basin: Davao	Annual Crop	meter	2.200503	
	Perennial Crop		3.293636	
	Pasture		0.000000	
	Fish pond		2.309584	
	General Santos City (City)		1.144600	
	Alabel		2.410588	

* The estimated inundation area and depth are preliminary results, and have not been used for screening/analysis as such, but with some modification based on expert judgements and so on (refer to Data Book C).

Name of Basin: Davao				
Data Items	Name/Description	Units	Date	Remarks
River Basin	Area	sq. km	1837.157765	
	Perimeter	km	297.602770	
	Year 2000	person	681.165	Census Population
	Year 2005	person	774599	Projected Population
	5th Ave	km.	1.451488	
	ABS-CBN-Quezon Blvd		4.551738	
Road	Buhangin-Lapanday		1.687972	
	Bukidnon-Davao City Rd		56.031034	
	Catitipan Airport Rd		1.406143	
	Daang Maharlika (MN)		27.747823	
	Davao-Bukidnon Rd		76.091362	
	Davao-Cotabato Rd (Davao City-Jet Digos Sect)		13.852070	
Bridge	Davao City Div Rd		18.217201	Length
	Davao Regional Med Trng Ctr		0.522622	
	F Torres St		1.682619	
	Fatima-Malabog Rd		17.898456	
	JP Cabauwio Avenue		1.656206	
	Ma-a Radio Station Rd		0.510967	
City/Municipality	Ma-a Rd	km.	4.970219	
	Magsaysay Ave		1.383424	
	Quirino Ave		1.540301	
	P Castillo St		3.189763	

Data Items	Name/Description	Units	Date	Remarks
Bridge	Crossing Malabog Br.	Number		Bailey
	Simod Br. 1			
	Parallel with Gov. Generoso Br.			
	Simod Br. 2			
	Tamugan Br.			
	Suawan Br.			
River	Simod Br.	Concrete		Type
	Pagan Grande Br.			
	Buhangin Flyover			
	Bolton Br. I			
	Bolton Br. I & 2			
	Buhangin Underpass R.C. Slab Br.			
District	Maluos Br.	Steel		
	Gov. Generoso Br. 1			
	Pagan Pequino Br.			
	Davao River		180.935566	Length
	1 Bukidnon I DEO		3791.580229	
	2 Bukidnon II DEO		2523.450450	
City/Municipality	3 Davao del Norte DEO	sq. km.	5945.909679	Area
	4 Davao City DEO		486.302009	
	5 North Cotabato I DEO		6426.557370	
	6 North Cotabato II DEO		9560.521190	
	Davao City (City)		1121.602355	
	Panabo (City)		75.756563	
Name of Urban Center	San Fernando	sq. km.	207.316210	Area
	Quezon		86.902505	
	Talaingod		9.908952	
	Kitaoao		113.586639	
	Arakan			
	.....			Main City Centers
Land Use of River Basin	.....	name		
	Forest		355.897971	Natural, Plantation, Bamboo
	Mangrove Forest		0.000000	
	Wooded & Natural Land		1105.373523	Shrub, Grassland, Barren, Marshland
	Annual Crop		144.380973	
	Perennial Crop		187.162459	Agricultural Land
Inundated Area by Land Use	Pasture	sq. km.	0.000000	
	Fish pond		0.129150	
	Built-up Area		39.941956	
	Water body		4.123750	Inland Water
	Simulated Flood Inundation		28.597924	Total Area and Average Depth for River Basin
	Average Depth		2.501604	
Inundated Area by Land Use	Forest	sq. km.	0.325593	
	Mangrove Forest		0.000000	
	Wooded & Natural Land		10.559080	Inundated area by land use except Water body, which is considered as permanently inundated.
	Annual Crop		5.324845	
	Perennial Crop		5.671394	
	Pasture		0.000000	
Inundated Area by City/Municipality	Fish pond	sq. km.	4.462346	
	Davao City (City)		21.626320	
	San Fernando		3.209421	Total Inundated Area by City/Municipality
	Talaingod		3.692537	
	Inundated Area by City/Municipality Population		1150.227218	Proportion of City/Municipality Population Inside
	Population		110.770101	
Inundation Average Depth by Land Use	Forest	sq. km.	3.024769	
	Mangrove Forest		0.000000	
	Wooded & Natural Land		2.730198	
	Annual Crop		2.187937	
	Perennial Crop		2.283581	
	Pasture		0.000000	
Inundation Average Depth by Land Use	Fish pond		1.444922	
	Davao City (City)			
	Inundated Area by City/Municipality Population			
	Population			
	Inundated Area by City/Municipality Population			
	Population			
Name of Basin: Tagum-Libuganon	Sto. Nino Br. 1	Number		
	Sto. Nino Br. 2			
	Menzi Br.			
	Nanaga Br. 2			
	Tanglaw Br. 3			
	Tanglaw Br. 4			
Bridge	Tanglaw Br. 1	Concrete		
	Tanglaw Br. 2			
	Kanikid Br.			
	Kipalico Br.			
	Camalico Br.			
	Gabuyan Br.			
River	Locutan Br. 1	Steel		
	Locutan Br. 2			
	Liboganon Br.			
	Nanaga Br. 1			
	Gov. Miranda Br.			
	Tagum (City)		145.076288	
District	Veruela	sq. km.	69.602262	
	Cabanglasan		2.088305	
	Kapalong		900.930072	
	San Fernando		34.442841	
	Monkayo		86.761207	
	Laak (San Vicente)		300.159127	
City/Municipality	Talaingod	sq. km.	203.369193	Area
	Asuncion (Saug)		157.349854	
	Montevista		46.793067	
	New Corella		247.279033	
	Nabunturan		35.255110	
	Santo Tomas		46.883215	
City/Municipality	Mawab	sq. km.	29.	

Data Items	Name/Description	Units	Data	Remarks
Name of Urban Center	.....	name		Main City Centers
			
	Forest		1421.086697	Natural, Plantation, Bamboo
	Mangrove Forest		0.496844	
	Wooded & Natural Land		95.315205	Shrub, Grassland, Barren, Marshland
Land Use of River Basin	Annual Crop	Area, sq. km.	590.662245	
	Perennial Crop		202.268334	Agricultural Land
	Pasture		0.000000	
	Fish pond		12.805941	
	Built-up Area		9.488149	
	Water body		10.439686	Inland Water
Simulated Flood Inundation	Area	sq. km.	50.10612	Total Area and Average Depth for River Basin
	Average Depth	meter	2.090840	
	Forest		8.005080	
	Mangrove Forest		0.164787	
Inundated Area by Land Use	Wooded & Natural Land	sq. km.	0.000000	Inundated area by land use except Water body, which is considered as permanently inundated.
	Annual Crop		36.835193	
	Perennial Crop		6.155516	
	Pasture		0.000000	
	Fish pond		6.500634	
	Tanum (City)		17.323966	
Inundated Area by Administrative Boundary	Kapalong		15.707889	
	Asuncion (Sau)		11.782824	Total Inundated Area by City/Municipality
	Santo Tomas		1.745528	
	New Corella		0.419060	
	Carmen		10.265409	
Inundated City/Municipality Population	Talibon (City)	person	16925.5143	Proportion of City/Municipality Population Inside Inundated Area; Year 2000 Census Data
	Kapalong		162.382784	
	Asuncion (Sau)		4524.604460	
	Santo Tomas		501.948735	
	New Corella		74.592632	
	Carmen		2289.186305	
Inundation Average Depth by Land Use	Forest		5.336919	
	Mangrove Forest		1.848970	
	Wooded & Natural Land		0.000000	
	Annual Crop	meter	1.260109	
	Perennial Crop		1.191295	
	Pasture		0.000000	
	Fish pond		2.853710	

* The estimated inundation area and depth are preliminary results, and have not been used for screening/analysis as such, but with some modification based on expert judgements and so on (refer to Data Book C).

Name of Basin: Padada Mainit				
Data Items	Name/Description	Units	Data	Remarks
River Basin	Area	sq. km.	1305.605333	
	Perimeter	km.	215.570357	
Population	Year 2000	person	306487	Census Population
	Year 2005		324063	Projected Population
Road	Bansalan-Mt Apo Natl Park Rd		18.428370	
	Davao-Cotabato Rd (Davao City-Jct Digos Sect)	km.	60.316934	Length
	Davao-Cotabato Rd (Jct Digos-Cotabato Sect)		50.648959	
	Digos-Makar Rd		54.116051	
Bridge	Munuan Br.	Number		
	Miral Br.			
	Matanao Br.			
	Padada Br.			
	Sinawulan Br.			
	Sinalangan Br.			
	Sacub Br.			
	Marber Br.			
	Barizon Br.			
	Bansalan Br.			
	Balugan Br.			
	Bulatukan Br.			
	Managa Br.			
	Kinuskusian Br.			
	Dalupay Br.			
River	Padada Mainit River	km.	62.364970	Length
District	1. North Cotabato 1 DEO	sq. km.	80.520142	
	2. Davao del Sur DEO		515.814397	
	3. Sultan Kudarat DEO		242.590830	Area
	4. Davao del Sur Sub-DEO		368.052501	
	5. South Cotabato DEO		98.483369	
City/Municipality	Digos City	sq. km.	39.908024	
	Makilala		51.708312	
	Santa Cruz		0.118688	
	Bansalan		138.296468	
	Magsaysay		146.587029	
	Tulunjan		23.279458	
	Matanao		101.151880	Area
	Columbio		238.489724	
	Hagonoy		51.814952	
	Padada		43.496748	
	Kiblawan		64.384696	
	Sulop		18.120431	
	Malalag		290.492240	
	Tampakan		97.299433	
Name of Urban Center	.....	name		Main City Centers
			
	Forest		168.092010	Natural, Plantation, Bamboo
	Mangrove Forest		0.000000	
	Wooded & Natural Land		393.250969	Shrub, Grassland, Barren, Marshland
Land Use of River Basin	Annual Crop	Area, sq. km.	572.357272	
	Perennial Crop		167.554383	Agricultural Land
	Pasture		0.000000	
	Fish pond		1.090739	
	Built-up Area		3.226066	
	Water body		0.033895	Inland Water
Simulated Flood Inundation	Area	sq. km.	17.905032	Total Area and Average Depth for River Basin
	Average Depth	meter	1.798897	
	Forest		0.497802	
	Mangrove Forest		0.000000	
Inundated Area by Land Use	Wooded & Natural Land	sq. km.	0.000615	Inundated area by land use except Water body, which is considered as permanently inundated.
	Annual Crop		9.329446	
	Perennial Crop		7.331634	
	Pasture		0.000000	
	Fish pond		0.460110	
	Built-up Area		0.000023	
	Water body		0.047675	
Inundated Area by Administrative Boundary	Makilala	sq. km.	0.458156	
	Magsaysay		0.077591	
	Bansalan		0.286194	Total Inundated Area by City/Municipality
	Matanao		6.586854	
	Hagonoy		2.157074	
	Padada		2.107154	

Data Items	Name/Description	Units	Data	Remarks
Inundated City/Municipality Population	Makilala	person	116.371500	
	Magsaysay		1708.011224	Proportion of City/Municipality Population Inside Inundated Area; Year 2000 Census Data
	Bansalan		110.776547	
	Matanao		886.927493	
	Hagonoy		3555.967273	
	Padada		764.896780	
Inundation Average Depth by Land Use	Forest	meter	3.454426	
	Mangrove Forest		0.000000	
	Wooded & Natural Land		0.000000	
	Annual Crop		1.551534	
	Perennial Crop		1.824660	
	Pasture		0.000000	
	Fish pond		3.784638	
	Hagonoy		0.689501	

* The estimated inundation area and depth are preliminary results, and have not been used for screening/analysis as such, but with some modification based on expert judgements and so on (refer to Data Book C).

Name of Basin: Hijo				
Data Items	Name/Description	Units	Data	Remarks
River Basin	Area	sq. km.	648.235562	
	Perimeter	km.	158.289123	
Population	Year 2000	person	125488	Census Population
	Year 2005		142650	Projected Population
Road	Daank Mahikari (MN)	km.	106.609417	
	Surigao-Davao Coastal Rd		47.178806	Length
	Tagum-Panabo Circum Rd		69.601628	
	Tagum City Diversion Rd		10.253507	
Bridge	Mewab Br.	Number		
	Tanmanok Br.			
	Hijo			
	Lindo Br.			
River	Hijo River	km.	89.948403	Length
District	Compostela Valley DEO	sq. km.	4621.949904	Area
	Davao del Norte DEO		8919.864519	
	Tacum (City)		18.590705	
	Nsbunturan		38.767630	
	New Corella		3.596391	
	Mewab	sq. km.	149.602361	
	Macabato		282.548019	Area
	Merap		32.371485	
	Merapusan (San Mariano)		91.490503	
	Mebini		30.028656	
	Pantukan			
Name of Urban Center	.....	name		Main City Centers
			
	Forest		116.781640	Natural, Plantation, Bamboo
	Mangrove Forest		0.000000	
	Wooded & Natural Land		305.567026	Shrub, Grassland, Barren, Marshland
Land Use of River Basin	Annual Crop	Area, sq. km.	98.661073	
	Perennial Crop		114.074275	Agricultural Land
	Pasture		0.000000	
	Fish pond		1.002385	
	Built-up Area		5.735881	
	Water body		6.151383	Inland Water
Simulated Flood Inundation	Area	sq. km.	13.155880	Total Area and Average Depth for River Basin
	Average Depth	meter	1.806944	
	Forest		0.000000	
	Mangrove Forest		0.000000	
	Wooded & Natural Land		1.253207	Inundated area by land use except Water body, which is considered as permanently inundated.
Inundated Area by Land Use	Annual Crop	sq. km.	1.974459	
	Perennial Crop		1.784226	
	Pasture		0.000000	
	Fish pond		0.309756	
	Tacum (City)		0.833746	
	Meco		0.067265	
Inundated Area by Administrative Boundary	Tacum (City)	sq. km.	4.071312	
	Mewab		2.057614	Total Inundated Area by City/Municipality
	Macabato		6.671642	
	Mebini		0.298667	
	Tagum (City)	person	3977.671895	Proportion of City/Municipality Population Inside Inundated Area; Year 2000 Census Data
	Mewab		353.909871	
	Macabato		1222.008408	
	Mabini		47.480858	
	Forest		0.000000	
	Mangrove Forest		0.000000	
	Wooded & Natural Land		3.713010	
Inundation Average Depth by Land Use	Annual Crop	meter	1.968917	
	Perennial Crop		1.421558	
	Pasture		0.000000	
	Fish pond		1.450660	
	Tacum (City)		1.222599	
	Macabato		1.063112	

Name of Basin: Macabato				
Data Items	Name/Description	Units	Data	Remarks
River Basin	Area	sq. km.	60.792595	
	Perimeter	km.	33.002091	
Population	Year 2000	person	11026	Census Population
	Year 2005		12028	Projected Population
Road	Surigao-Davao Coastal Rd	km.	40.777499	Length
Bridge	Maco Br.	Number		
	Langgam Br.			
	Binuangan Br.			
River	Maco River	km.	15.471759	Length
District	1. Compostela Valley DEO	sq. km.	60.742214	Area
	Maco	sq. km.	56.694687	
	Mabini	sq. km.	4.097907	
Name of Urban Center	.....	name		Main City Centers
			
	Forest		0.000000	
	Mangrove Forest		0.155718	
	Wooded & Natural Land		30.626549	
	Annual Crop		3.684986	
	Perennial Crop		25.206726	
	Pasture		0.000000	
	Fish pond		0.076982	
	Built-up Area		0.319895	
	Water body		0.000000	
Simulated Flood Inundation	Area	sq. km.	1.211457	Total Area and Average Depth for River Basin
	Average Depth	meter	3.479095	

Data Items	Name/Description	Units	Date	Remarks
Inundated Area by Land Use	Forest	sq. km.	0.000000	
	Mangrove Forest		0.000000	
	Wooded & Natural Land		0.000000	Inundated area by land use except Water body, which is considered as permanently inundated.
	Annual Crop		0.128315	
	Perennial Crop		0.985028	
	Pasture		0.000000	
Inundated Area by Depth by Land Use	Fish pond	sq. km.	0.000000	
	Maco		2.11457	Total Inundated Area by
	Maco		22.898650	Proportion of
	Forest		0.000000	
	Mangrove Forest		0.000000	
	Wooded & Natural Land		3.931989	
Inundation Average Depth by Land Use	Annual Crop	meter	1.453999	
	Perennial Crop		3.714626	
	Pasture		0.000000	
	Fish pond		0.000000	

* The estimated inundation area and depth are preliminary results, and have not been used for screening/analysis as such, but with some modification based on expert judgements and so on (refer to Data Book C).

Name of Basin:	Mindanao			
Data Items	Name/Description	Units	Date	Remarks
River Basin	Area	sq. km.	20758.890045	
	Perimeter	km.	995.071587	
Population	Year 2000	person	3396570	Census Population
	Year 2005	person	3893879	Projected Population

Road	Awang-Upi-Lebak Rd	km.	61.021151	Length
	Banisilan-Gulling-Alamada-Libungan Rd		27.381088	
	Barandias-Dominorog Rd		27.572254	
	Bukidnon-Cotabato Rd		48.719507	
	Bukidnon-Cotabato Rd (Kawayag Common Jct)		0.495236	
	Bukidnon-Davao City Rd		59.062749	
	CDO City-Dominorog-Cam Kibaritan Rd		52.574750	
	Cotabato-Allah Valley-Marbel		5.700689	
	Cotabato-Davao Rd		18.003047	
	Cotabato-Lanao Rd		9.182735	
	Cotabato-Lanao/Davao Rd		1.884754	
	Cotabato-Marbel Rd		51.499965	
	Davao-Bukidnon Rd		76.091362	
	Davao-Cotabato Rd (Jct Digos-Cotabato Sect)		123.307713	
	Davao-Cotabato Rd (Dugui)		1.490129	
	Don Carlos-Kadingilan Rd		22.003387	
	Dueling-Baliki-Silik Rd		17.084683	
	Dueling-New Panay-Midsayap Rd		33.854989	
	Dulawan-Marbel Rd		27.712030	
	Igulan Jct-Ninoy Aquino Rd		73.123408	
	Jct Capitol-Hospital Rd		0.802380	
	Jct Doloren-Busco-Quezon		15.322357	
	Jct Doloren-Panatdalan		2.038671	
	Jct Impalambong-Cadre Barracks Rd		0.547730	
	Jct Maradugao-Camp Kibaritan-Dominorog Rd		25.652511	
	Jct SH-Agayan-Alanib-Ticalaan Rd (Agayan-Basak)		49.462498	
	Jct SH-Bangcuo-Mailig Rd (By-Pass Rd)		5.343130	
	Jct SH-Carillo-Capitol Rd		0.233000	
	Jct SH-Casisang-Malabay Airport Rd		0.447010	
	Jct SH-Imealambong-Old Olayan Rd		2.261523	
	Jct SH-JP Rizal-Carillo-Causing-DPWH Rd		1.390242	
	Jct SH Agayan-Zamboanga Rd		52.091455	
	Kalilangan-Lampusan Rd		14.473878	
	Kapinol-an-Lumipos Rd		4.004421	
	Kibawe-Kadingilan-Lallangan		38.474225	
	Kidapawan-Allah Junction Rd		24.209405	
	Kidapawan-Calurusan-Mlang		25.000674	
	Kidapawan-Ilomavis Tourist Rd		19.913203	
	Kidapawan-Magpet-Pangaoan		14.740321	
	Maganoy-Mamasapano Rd		15.642072	
	Magpet-Nowa Rd		11.851114	
	Makital-Allah Valley Rd		34.041444	
	Maramag-Maradugao Rd		45.366270	
	Marbel-Allah Valley-Cotabato		86.933612	
	Marbel-Makar Rd		50.411415	
	Matalam-Lampayan-Antipas		36.157293	
	Matalam-Mlang-Bagontapay		23.552228	
	Matalam Common Jct		0.056265	
	Midsayap-Makar Rd		23.000662	
	Midsayap-Makar Road & Common Jct		0.114635	
	Midsayap-Marbel Rd		24.325625	
	Pedroches-Arakan Valley Rd		60.789349	
	Saysa Highway		122.658444	
	Sinsuat Avenue & Villereon		0.733802	
	Surallah Lake Sebu-Maitum		30.678486	

Bridge	Kings Br.	Bailey	Type
	Tigapineue Br.		
	New Panay Br.		
	Shadol Br. 1		
	Luel Br.		
	Lutavan Br.		
	Zamboanguita Br.		
	Mua'an Br.		
	Musuan Br.		
	Multa Upper Br.		
	Multa Br.		
	Mono Br.		
	Mateo Br.		
	Matampay Br.		
	Mig-as Br.		
	Manz Br.		
	Migao Br.		
	Olandang Br. 2		
	Olandang Br. 1		
	Olandang Br. 3		
	Olayan Br.		
	Olandang Br. 4		
	Nuanan Br.		
	Nabaliva Br.		
	Mutian Br.		
	Nalapaan Br.		
	Nican Br.		
	New Cebu Br.		
	Masing Br.		
	Malatiqip Br.		
	Macapantig Br.		
	Malinong Br.		
	Manuanan Br.		
	Mamala Br.		

Data Items	Name/Description	Units	Date	Remarks
	Malasias Br.			
	Malauy Br.			
	Magnel Br.			
	Malabuaya Br.			
	Malangaz Br.			
	Malamote Br.			
	Marbel Br.			
	Maramag Br.			
	Maagnao Br.			
	Masimag Br.			
	Marbol Br.			
	Maradugao Br.			
	Manubuan Br.			
	Manubray Br.			
	Manugali Br.			
	Manungo Br.			
	Manuto Br.			
	Omonay Br.			
	Sumalane Br.			
	Sta. Maria Br.			Formerly steel bridge
	South Tupi Br.			
	Talisawa Br.			
	Tacupan Br.			
	Taculen Br.			
	Sikitian Br.			
	Sibab Br.			
	Sewad Br.			
	Sn Isidro Br.			
	Small Mateo Br.			
	Sila Br.			
	Tumao Br. 2			
	Tungol Br. 1			
	Tubunan Br.			
	Upper Panicapan Br.			
	Unian Br.			
	Ukitan Br.			
	Timoga Br.			
	Tantangan Br.			
	Tamontaka Br.			
	Tuluan Br.			
	Tugasan Br.			
	Tinanjan Br.			
	Pasayano Br.			
	Panlibutan Br.			
	Panicapan Br.			
	Puntian Br.			
	Pulauku Br.			
	Pitulugao Br.			
	Pagulungan Br.			
	Panagawen Br.			
	Paco Br. 2			
	Panambongan Br.			
	Pamintuan Br.			
	Palian Br.			
	San Vicente Br.			
	San Nicolas Br.			
	San Miguel Br.			
	Sawaga Br.			
	Sarmiento Br.			
	Sansing Br.			
	Sadsalan Br.			
	Rawan Br.			
	Putahwon Br.			
	San Felipe Br.			
	Santol Br.			
	Sasang Br.			
	Grebona Br.			
	Gapok Br.			
	Baumubayan Br.			
	Huwagon Br.			
	Guinatazan Br.			
	Dilapa Br.			
	Balogo Br.			
	Dominorog Br.			
	Esteros Br.			
	Dumadlag Br.			
	Baguek-Ikan Br.			
	Kalampanak Br.			
	Kakal Br.			
	Kalendangan Br. 1			
	Kalendangan Br. 2			
	Kahacan Br.			
	Kahacan Br. 2			
	Kabacan Br.			
	Kabacahan Br.			
	Kabakan Br. 2			
	Datu Said Piang Br.			
	Buayan Br.			
	Bual Br.			
	Bugaon Br.			
	Bulan Br.			
	Buluan Br. 2			
	Buluan Br. 1			
	Bunawan Br.			
	Calean Br.			
	Busco Br.			
	Arizona Br.			
	Kulashian Br.			
	Kulaman Br.			
	Kuya Br.			
	Lakewood Br.			
	Lebo Br.			
	Kinilayan Br.			
	Kinedom Hall Br.			
	Kioraya Br.			
	Kolambagon Br.			
	Kipot Br.			
	Lamitan Br.			
	Lower Olayan Br.			
	Lika Br.			
	Luayan Br.			
	Lumayong Br.			
	Luhib Br.			
	Lanapán Br.			
	Alam Br.			

Data Items	Name/Description	Units	Data	Remarks		
Bridge	Aglayan Br. Lubungan Br. Lantay Br. Kapaway Br. Kambaj Br. 2 Kapinukong Br. Katingawan Br. Katidutan Br. Kambaj Br. 1 Arakan Br. Kalawag Br. Kalipa Br. Apolang Br. Kalma Br. 1 Klob Br. Kibawe Br. Kidangan Br. Kilaswan Br. Kayaga Br. Allah Br. Kinakawayan Br. Kimadzi Br. Kutungon Br. Abuhar Br. Upper Bulanan Br. Tubak Br. Bialong Br. Big Mateo Br. Kalma Br. 2 Mt. Sina Br. Nowa Br. Nia Br. Malatap Br. Linabo Br. Lampayan Br. Malinan Br. Ilustre Br. 3 Casisang Br. Dalapuan Br. Sumawan Br. Carmen Br. Ilustre Br. 2 Pagalungan Br. 2 Del Carmen Br. Pangao'an Br.	Concrete Number	485.182212	Type		
River	Mindanao River	km.	485.182212	Length		
District	Bukidnon I DEO Aklan del Sur II DEO Bukidnon III DEO Bukidnon II DEO Lanao del Sur DEO North Cotabato II DEO Maguindanao DEO North Cotabato I DEO Davao City DEO Cotabato City DEO Sultan Kudarat DEO Davao del Sur DEO South Cotabato DEO Sarangani DEO	sq. km.	2695.613923 2.678303 141.660121 2297.735093 561.465080 3139.374471 276.504876 3365.501088 2934.494867 48.107314 106.835337 2761.943894 0.002165 2411.615976 13.702010	Area		
City/Municipality	Malabuyac City (City) Valencia City (City) Davao City (City) Cotabato City (City) Kidapawan City (City) Tacurong City (City) Koronadal City (City) Impasug-ong San Luis Cabanglasan Talisai Entana San Fernando Kapalong Panacutucan Bubong Kaliangan Lumba-Bayabao Mararam Quizon Bumbaran Don Carlos Maguing Wao Alamada Kitaoao Pigkawayan Dangcagan Kadingilan Buldon Banisilan Kibawe Arakan Carmen Baludog Anturas Parana Matalam Lubungan Sultan Kudarat (Nuling) Kahakan Maspet Aleisan Midsayap Kabuntulan (Tumbao) President Roxas Pikit Pagalungan Datu Odin Sinsuat (Dinaig) Datu Piang Upi Talyan M'Lang Sultan sa Barongis Shariff Aguak (Maganoy) Makilala Bulan South Upi Tulan Angungan Lambayong (Mariano Marcos) Masawayan Datu Parlas Esperanza President Quirino Columbo Lutayan Isulan	sq. km.	820.017466 651.618413 52.451914 105.609163 356.613020 147.671674 239.177750 3.396292 220.657655 135.664967 418.158851 255.978110 0.000297 430.072672 82.705146 277.721680 81.879103 334.835239 473.567178 249.188221 196.043178 24.457802 116.107666 659.376959 233.235124 335.990273 101.812442 105.568914 283.209000 379.142329 212.812499 655.675704 437.444310 371.261451 97.757026 459.150002 153.990834 170.810593 222.143614 365.818339 153.873784 274.649623 193.538857 104.482480 302.799673 235.372383 338.130685 128.830534 76.611015 304.250446 346.513331 174.372905 250.936357 196.303917 475.981183 109.712537 294.041937 258.033186 334.810334	Area		
	Tantangan Banumbayan Norale Tampakan Senator Ninoy Aquino Kalamansig Santo Nino Banga Palimbang Tupi Surallah Polomolok Lake Sebu T Bolis Kiamba	sq. km.	188.560472 737.588061 85.911654 296.136579 231.638139 36.461530 99.81416 115.364008 95.128474 201.524447 309.297366 13.772559 419.237800 453.819806 13.297589	Area		
	Name of Urban Center	name	..... .....	Main City Centers		
	Land Use of River Basin	Area, sq. km.	2916.234711 11.045695 6615.715577 9397.148954 1455.348445 0.000000 16.702014 114.012256 232.081240	Natural Plantation, Bamboo, Shrub, Grassland, Barren, Marshland, Agricultural Land, Inland Water		
	Simulated Flood Inundation	sq. km.	944.673491 3.374577	Total Area and Average Depth for River Basin		
	Inundated Area by Land Use	sq. km.	0.617431 3.995924 429.555333 393.749432 62.475571 0.000000 9.677151 12.985330	Inundated area by land use except Water body, which is considered as permanently inundated.		
	Inundated Area by Administrative Boundary	sq. km.	1.041758 0.255954 0.001558 0.014063 0.059534 0.035911	Total Inundated Area by City/Municipality		
	Inundated City/Municipality Population	person	9.948635 16.193852 94.381300 2.659189 2.598698 9.546216 6.121751 1.085542 0.273190 0.289973 14.939592 0.882131 5.513033 1.411626 2.869036 40.242088 25.494989 11.584046 173.302090 126.832664 36.731922 40.125356 3.234134 101.747472 54.341714 88.792455 11.791453 13.145872 9.687910 28.303015 6.640773 2.148715 3.705888 3.294069 2.712193 0.000000 4.344632 2.642441 2.126328 1.238623 0.238632 1.254214 0.479197	Proportion of City/Municipality Population Inside Inundated Area; Year 2000 Census Data		
	Name of Basin: Tran (Tian)					
		Data Items	Name/Description	Units	Data	Remarks
	River Basin	Area	sq. km.	739.475303		
		Perimeter	km.	185.571722		
	Population	Year 2000	person	92681	Census Population	
		Year 2005		102399	Projected Population	
	Road	Awang-Upi-Lebak-Kalamansig-Palimbang-Awang-Upi-Lebak Rd	km.	37.852859	Length	
	Bridge	Balibac Br. 2	Number	61.021151	Bailey	Type
		Balibac Br. 1	Concrete			
	River	Tian River	km.	97.868222	Length	
	District	1 Maguindanao DEO 2 Sultan Kudarat DEO	sq. km.	235.192914 498.996214	Area	
		Upi		61.485775		
		South Upi		148.500958		
		Amputuan		23.407343		
		Esperanza		30.046869		
		Lebak		306.042618		
		Isulan		56.481620		
		Kalamansig		110.064679		
		Senator Ninoy Aquino		3.445273		
	Name of Urban Center	name	..... .....	Main City Centers		
	Land Use of River Basin	Area, sq. km.	81.959821 3.726872 214.768096	Natural Plantation, Bamboo, Shrub, Grassland, Barren, Marshland, Agricultural Land		
		Annual Crop	410.929243			
		Perennial Crop	23.968325			
		Pasture	0.000000			
		Fish pond	0.619685			
		Built-up Area	0.000000			
		Water body	2.731761	Inland Water		

* The estimated inundation area and depth are preliminary results, and have not been used for screening/analysis as such, but with some modification based on expert judgements and so on (refer to Data Book C).

Data Items	Name/Description	Units	Date	Remarks
Simulated Flood Inundation	Area	sq. km.	14.775799	Total Area and Average Depth for River Basin
	Average Depth	meter	4.406180	
	Forest		1.138303	
	Mangrove Forest		0.052488	Inundated area by land use except Water body, which is considered as permanently inundated.
Inundated Area by Land Use	Wooded & Natural Land	sq. km.	0.298362	
	Annual Crop		9.573858	
	Perennial Crop		0.019861	
	Pasture		0.000000	
	Fish pond		0.245821	
	South Upi		2.278690	
Inundated Area by Administrative Boundary	Upi	sq. km.	1.113270	
	Lebak		9.322968	Total Inundated Area by City/Municipality
	Espesanza		0.145759	
	Isulan		0.792056	
	Kalamansig		1.123053	
Inundated City/Municipality Population	South Upi	person	232.426346	Proportion of City/Municipality Population Inside
	Upi		71.249274	
	Lebak		1389.122297	
	Espesanza		19.968991	Inundated Area: Year 2000 Census Data
	Isulan		148.114470	
	Kalamansig		112.30509	
Inundation Average Depth by Land Use	Forest		9.265829	
	Mangrove Forest		2.605834	
	Wooded & Natural Land		5.619144	
	Annual Crop	meter	3.812679	
	Perennial Crop		1.764749	
	Pasture		0.000000	
	Fish pond		2.830310	

* The estimated inundation area and depth are preliminary results, and have not been used for screening/analysis as such, but with some modification based on expert judgements and so on (refer to Data Book C).

Data Items	Name/Description	Units	Date	Remarks
	Forest		99.431533	Natural, Plantation, Bamboo
	Mangrove Forest		0.000000	
	Wooded & Natural Land		281.789934	Shrub, Grassland, Barren, Marshland
Land Use of River Basin	Annual Crop	Area, sq. km.	0.000000	
	Perennial Crop		1.312003	Agricultural Land
	Pasture		0.000000	
	Fish pond		0.000000	
	Built-up Area		0.412277	
	Water body		0.000000	Inland Water
Simulated Flood Inundation	Area	sq. km.	3.386817	Total Area and Average Depth for River Basin
	Average Depth	meter	2.773347	
	Forest		0.253686	
	Mangrove Forest		0.000000	Inundated area by land use except Water body, which is considered as permanently inundated.
Inundated Area by Land Use	Wooded & Natural Land	sq. km.	2.451363	
	Annual Crop		0.000000	
	Perennial Crop		0.445419	
	Pasture		0.000000	
	Fish pond		0.000000	
	General Santos City (City)		0.207343	
	Maasim		0.022349	
Inundated Area by Administrative Boundary	General Santos City (City)	sq. km.	0.56	Total Inundated Area by City/Municipality
	T Boli		0.43	
	Maasim		2.22	
Inundated City/Municipality Population	General Santos City (City)	person	640.71	Proportion of City/Municipality Population Inside
	T Boli		28.71	
	Maasim		208.97	
	Forest		5.287575	
	Mangrove Forest		0.000000	
Inundation Average Depth by Land Use	Wooded & Natural Land	meter	2.542376	
	Annual Crop		0.000000	
	Perennial Crop		1.897093	
	Pasture		0.000000	
	Fish pond		0.000000	
	General Santos City		1.973459	
	Maasim		0.630942	

* The estimated inundation area and depth are preliminary results, and have not been used for screening/analysis as such, but with some modification based on expert judgements and so on (refer to Data Book C).

Name of Basin:	Silway-Popong-Sinaluan	Data Items	Name/Description	Units	Date	Remarks
River Basin	Area	sq. km.	675.720291			
	Perimeter	km.	121.179567			
Population	Year 2000	person	221348	Census Population		
	Year 2005		270989	Projected Population		
Road	Digos-Makar Rd	km.	24.622232			
	Makar-Marbel Rd		8.469514	Length		
	Marbel-Makar Rd		50.411415			
Bridge	Silway Br.					
	Silway 8 (Parallel Br.)					
	South Polomolok Br.					
	Sinawali Br.					
	Matinao Br.					
	Agongon Br.					
	Silway 8 (Parallel Br.)					
	Palkan Br.					
River	Polomolok River	km.	42.145023	Length		
District	1. South Cotabato DEO	sq. km.	540.826825			
	2. Sarangani DEO		16.039525	Area		
	3. General Santos City DEO		118.845146			
City/Municipality	General Santos City (City)	sq. km.	122.792427			
	Polomolok		329.468638			
	Tupi		3.695330	Area		
	Malungon		16.983589			
	T Boli		202.800208			
Name of Urban Center	.....	name		Main City Centers		
					
Land Use of River Basin	Forest		59.328083	Natural, Plantation, Bamboo		
	Mangrove Forest		0.000000			
	Wooded & Natural Land	Area, sq. km.	267.243473	Shrub, Grassland, Barren, Marshland		
	Annual Crop		185.275728			
	Perennial Crop		138.458000	Agricultural Land		
	Pasture		0.000000			
	Fish pond		0.000000			
	Built-up Area		22.152179			
	Water body		3.168293	Inland Water		
Simulated Flood Inundation	Area	sq. km.	2.546946	Total Area and Average Depth for River Basin		
	Average Depth	meter	2.317912			
	Forest		0.003740			
	Mangrove Forest		0.000000			
	Wooded & Natural Land		0.826384	Inundated area by land use except Water body, which is considered as permanently inundated.		
Inundated Area by Land Use	Annual Crop	sq. km.	0.747631			
	Perennial Crop		0.000000			
	Pasture		0.000000			
	Fish pond		0.000000			
	General Santos City (City)		0.438583			
Inundated Area by Administrative Boundary	General Santos City (City)	sq. km.	0.965202	Total Inundated Area by City/Municipality		
	Polomolok		0.840613			
	T Boli		0.741132			
Inundated City/Municipality Population	General Santos City (City)	person	938.176003	Proportion of City/Municipality Population Inside		
	Polomolok		211.834352			
	T Boli		48.914723			
	Forest		1.754089			
	Mangrove Forest		0.000000			
	Wooded & Natural Land		3.546591			
Inundation Average Depth by Land Use	Annual Crop	meter	1.747918			
	Perennial Crop		1.162254			
	Pasture		0.000000			
	Fish pond		0.000000			
	General Santos City (City)		1.865806			

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Name of Basin: Siguil (Siguil)	Data Items	Name/Description	Units	Date	Remarks
River Basin	Area	sq. km.	382.95		
	Perimeter	km.	101.96		
Population	Year 2000	person	49549	Census Population	
	Year 2005		58176	Projected Population	
Road	None	km.	0.00	Length	
Bridge	None	Number		Type	
River	Siquil river	km.	46.55	Length	
District	South Cotabato DEO	sq. km.	165.813322		
	Sarangani DEO		196.397745	Area	
	General Santos City DEO		20.688831		
	General Santos City (City)		20.567582		
	T Boli		165.018314		
	Kumba		20.517022		
	Maasim		176.312345		
Name of Urban Center	.....	name		Main City Centers	
				

Data Items	Name/Description	Units	Date	Remarks
	Forest		99.431533	Natural, Plantation, Bamboo
	Mangrove Forest		0.000000	
	Wooded & Natural Land		281.789934	Shrub, Grassland, Barren, Marshland
Land Use of River Basin	Annual Crop	Area, sq. km.	0.000000	
	Perennial Crop		1.312003	Agricultural Land
	Pasture		0.000000	
	Fish pond		0.000000	
	Built-up Area		0.412277	
	Water body		0.000000	Inland Water
Simulated Flood Inundation	Area	sq. km.	3.386817	Total Area and Average Depth for River Basin
	Average Depth	meter	2.773347	
	Forest		0.253686	
	Mangrove Forest		0.000000	
Inundated Area by Land Use	Wooded & Natural Land	sq. km.	2.451363	Inundated area by land use except Water body, which is considered as permanently inundated.
	Annual Crop		0.000000	
	Perennial Crop		0.445419	
	Pasture		0.000000	
	Fish pond		0.000000	
	General Santos City (City)		0.207343	
	Maasim		0.022349	
Inundated Area by Administrative Boundary	General Santos City (City)	sq. km.	0.56	Total Inundated Area by City/Municipality
	T Boli		0.43	
	Maasim		2.22	
Inundated City/Municipality Population	General Santos City (City)	person	640.71	Proportion of City/Municipality Population Inside
	T Boli		28.71	
	Maasim		208.97	
	Forest		5.287575	
	Mangrove Forest		0.000000	
Inundation Average Depth by Land Use	Wooded & Natural Land	meter	2.542376	
	Annual Crop		0.000000	
	Perennial Crop		1.897093	
	Pasture		0.000000	
	Fish pond		0.000000	
	General Santos City		1.973459	
	Maasim		0.630942	

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Name of Basin: Tago				
Data Item	Name/Description	Units	Date	Remarks
River Basin	Area	sq. km.	1286.374168	
	Perimeter	km.	216.042171	
	Year 2000	person	95739	Census Population
	Year 2005		109988	Projected Population
Road	Jct Gamut-Sn Miguel Bayugan Rd	km.	18.412153	Length
	Surigao-Davao Coastal Rd		193.39954	
	Magrovonge Br. 2			
	Pamuguskan Br.			
Bridge	Hubo Br.			
	Magrovonge Br. 1			
	Unidos Br.			
	Victoria Br.			
	Poeto Br.			
	Tabon-Tabon Br.			
	Cabangahan Br.			
	Carapao Br.			
	Baiao Br.			
	Batang Br.			
	Gamut Br.			
	Gacub Br.			
City/Municipality	Capanggi Br.			
	Canag-as Br.			
	Tagazamut Br.			
	Tago River	km.	113.430868	Length
	Surigao del Sur I DEO		999.511265	
	Agusan del Sur I DEO	sq. km.	268.858832	Area
	Agusan del Norte DEO		8.088128	
	Madrid		4.124564	
	Sibagat		260.596933	
	Cababaran		6.259601	
	Carmen		45.210855	
Inundated Area by Land Use	Lanuza		67.442270	
	Tandag		142.823527	
	Tago		289.534149	Area
	San Miguel		389.065571	
	Bavabas		4.761106	
	Cawaite		19.318801	
	Bavuran		3.862342	
	Prosperidad		0.501848	
	Maritataq		52.463496	
			
			
Land Use of River Basin	Name of Urban Center	name		Main City Centers
	Forest		853.318373	Natural, Plantation, Bamboo
	Mangrove Forest		9.659933	
	Wooed & Natural Land		151.086135	Shrub, Grassland, Barren, Marshland
	Annual Crop		144.09249	Agricultural Land
	Perennial Crop		115.436447	
	Pasture		0.000000	
	Fish pond		3.117603	
	Built-up Area		0.342387	
	Water body		8.596764	Inland Water
	Simulated Flood Inundation	Area	74.493757	Total Area and Average Depth for River Basin
	Average Depth	meter	1.744051	
Inundated Area by Administrative Boundary	Forest		1.294971	
	Mangrove Forest		5.532264	Inundated area by land use except water body, which is considered as permanently inundated.
	Wooed & Natural Land		16.759798	
	Annual Crop		8.219279	
	Perennial Crop		34.782283	
	Pasture		0.000000	
	Fish pond		2.722080	
	Tago		0.018459	
	Sibagat		0.833397	
	Lanuza		0.398578	
	Tandag		3.217278	Total Inundated Area by City/Municipality
Inundated Area by City/Municipality Population	Tago		58.898026	
	Bavabas		2.664597	
	San Miguel		8.443442	
	Sibagat		36.669461	Proportion of City/Municipality Population Inside Inundated Area; Year 2000 Census Data
	Lanuza		17.537425	
	Tandag		386.073361	
	Tago		5536.414420	
	Bavabas		508.937982	
	San Miguel		565.710596	
	Forest		5.203661	
	Mangrove Forest		1.858952	
Inundation Average Depth by Land Use	Wooed & Natural Land		2.585199	
	Annual Crop		1.349005	
	Perennial Crop		1.490419	
	Pasture		0.000000	
	Fish pond		1.402719	
	Tago		2.416637	
	Sibagat			
	Lanuza			
	Tandag			
	Tago			
	Bavabas			
	San Miguel			
Bridge	Forest			
	Mangrove Forest			
	Wooed & Natural Land			
	Annual Crop			
	Perennial Crop			
	Pasture			
	Fish pond			
	Tago			
	Sibagat			
	Lanuza			
	Tandag			
	Tago			

* The estimated inundation area and depth are preliminary results, and have not been used for screening/analysis as such, but with some modification based on expert judgements and so on (refer to Data Book C).

Name of Basin: Lake Mainit-Tubay				
Data Item	Name/Description	Units	Date	Remarks
River Basin	Area	sq. km.	617.030755	
	Perimeter	km.	123.535054	
	Year 2000	person	69365	Census Population
	Year 2005		78760	Projected Population
Road	Bad-as Cadre Rd	km.	0.647415	Length
	Daang Mahalika (Surigao-Agusan Sect)		100.001345	
	Magayangs-Mainit Rd		5.153708	
	Surigao-Davao Coastal Rd		60.918788	
Bridge	Pingapang Br.			
	Pungtod Br.			
	Savacion Br.			
	Motor Pool Br.			
	New Camalig Br.			
	Pavao Br.			
	Timanama Br.			
	Tubod Br.			
	Tubonson Br.			
	Siana Br.			
	Tayta-Yos Br.			
	Tibawan Br.			
City/Municipality	Marra Br.			
	Baliguan Br.			
	Beloran Br.			
	Candis Br.			
	Asong-Ongan Br.			
	Alimpatayan Br.			
	Alipao Br.			
	Jahabong Br.			
			
			
			
			

Data Item	Name/Description	Units	Date	Remarks
Bridge	Magpayangs Br. 2			
	Magtaco Br.			
	Mamkak Br.			
	Lambok Br.			
River	Magpayang Br.			
	San Pedro Br.			
	Lake Mainit River	km.	19.016275	Length
	Surigao del Norte I DEO	sq. km.	215.290383	
District	Surigao del Norte I DEO	sq. km.	140.124810	Area
	Agusan del Norte DEO		261.615562	
	Agusan del Norte DEO		7.193708	
	Tagana-An		29.628728	
City/Municipality	Placer		49.609432	
	Tubod		11.404293	
	Bacuas		60.826321	
	Mainit		53.542060	
City/Municipality	Alegria		1.227266	
	Malimono		106.499450	
	Kitcharao		145.340566	
	Jabonga		15.286474	
Name of Urban Center	Santiago			
	.....			Main City Centers
			
			
Land Use of River Basin	Forest		99.609648	Natural, Plantation, Bamboo
	Mangrove Forest		0.000000	
	Wooed & Natural Land		176.506404	Shrub, Grassland, Barren, Marshland
	Annual Crop	Area, sq. km.	90.357801	
Inundated Area by Land Use	Perennial Crop		105.276407	
	Pasture		0.000000	Agricultural Land
	Fish pond		0.000000	
	Built-up Area		2.261955	
Simulated Flood Inundation	Water body		143.018540	Inland Water
	Area	sq. km.	146.558005	Total Area and Average Depth for River Basin
	Average Depth	meter	2.636039	
	Forest		0.000000	
Inundated Area by Land Use	Mangrove Forest		0.000000	
	Wooed & Natural Land		0.000000	
	Annual Crop	sq. km.	7.915753	
	Perennial Crop		1.059470	
Inundated Area by Land Use	Pasture		0.000000	
	Fish pond		0.000000	
	Kitcharao		0.081800	
	Maint		1.285542	
Inundated Area by Administrative Boundary	Alegria	sq. km.	3.596871	Total Inundated Area by City/Municipality
	Kitcharao		6.492280	
	Jabonga		4.784127	
			
Inundated City/Municipality Population	.....	person	269.963795	Proportion of City/Municipality
	.....		651.033721	Population Inside
	.....		694.673973	Inundated Area; Year 2000 Census Data
	.....		397.082544	
Inundation Average Depth by Land Use	Forest		0.000000	
	Mangrove Forest		0.000000	
	Wooed & Natural Land		1.772720	
	Annual Crop	meter	1.838708	
Inundation Average Depth by Land Use	Perennial Crop		2.343156	
	Pasture		0.000000	
	Fish pond		0.000000	
	Kitcharao		2.547559	
Name of Basin: Boston	Forest		33.053094	Natural, Plantation, Bamboo
	Mangrove Forest		0.604927	
	Wooed & Natural Land		19.238668	Shrub, Grassland, Barren, Marshland
	Annual Crop	Area, sq. km.	2.722574	
Inundated Area by Land Use	Perennial Crop		17.210077	
	Pasture		0.000000	
	Fish pond		0.199884	
	Built-up Area		0.009734	
Simulated Flood Inundation	Water body		0.395146	Inland Water
	Area	sq. km.	0.991185	Total Area and Average Depth for River Basin
	Average Depth	meter	1.901335	
	Forest		0.096131	
Inundated Area by Land Use	Mangrove Forest		0.035484	
	Wooed & Natural Land		0.294671	
	Annual Crop	sq. km.	0.223451	
	Perennial Crop		0.262534	
Inundated Area by Land Use	Pasture		0.000000	
	Fish pond		0.000000	
	Lingig	sq. km.	0.757856	Total Inundated Area by City/Municipality
	Boston	person	0.231763	
Inundated Area by Land Use	.....	person	85.641172	Proportion of City/Municipality
	.....		5.330556	
	.....		2.700343	
	.....		1.079399	
Inundation Average Depth by Land Use	Mangrove Forest		2.837352	
	Wooed & Natural Land		1.603389	
	Annual Crop		1.003235	
	Perennial Crop		0.000000	
Inundation Average Depth by Land Use	Pasture		0.000000	
	Fish pond		0.000000	
			
			

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Name of Basin: Amnay				
Data Item	Name/Description	Units	Data	Remarks
River Basin	Area	sq. km.	412.670414	
	Perimeter	km.	116.732030	
Population	Year 2000	person	14557	Census Population
	Year 2005		15888	Projected Population
Road	Mindoro West Coastal Rd	km.	217.532027	Length
Bridge	Pinauturan Br.	Bailey		
	Bacaran Br.	Concrete		Type
River	Amnay River	km.	44.342336	Length
District	1. Mindoro Occidental DEO	sq. km.	399.914329	Area
	2. Mindoro Oriental DEO		12.415743	
City/Municipality	Sablayan	sq. km.	312.353959	
	Baco		6.860787	
	Naujan		5.549302	Area
	Santa Cruz		87.565942	
Name of Urban Center	.....	name		Main City Centers
			
Land Use of River Basin	Forest		117.594684	Natural, Plantation, Bamboo
	Mangrove Forest		0.270118	
	Wooded & Natural Land		239.01824	Shrub, Grassland, Barren, Marshland
	Annual Crop	Area, sq. km.	38.003991	
	Perennial Crop		0.000000	Agricultural Land
	Pasture		0.000000	
	Fish pond		0.000000	
	Built-up Area		0.120257	
	Water body		17.663123	Inland Water
Simulated Flood Inundation	Area	sq. km.	28.248791	Total Area and Average Depth for River Basin
	Average Depth	meter	1.402866	
Inundated Area by Land Use	Forest		0.004755	
	Mangrove Forest		0.049288	
	Wooded & Natural Land		4.997220	Inundated area by land use except Water body, which is considered as permanently inundated.
	Annual Crop	sq. km.	21.968665	
	Perennial Crop		0.000000	
	Pasture		0.000000	
	Fish pond		0.000000	
Inundated Area by Administrative Boundary	Sablayan	sq. km.	16.408475	Total Inundated Area by City/Municipality
	Santa Cruz		11.367139	
Inundated City/Municipality	Sablayan	person	459.437300	Proportion of City/Municipality
	Santa Cruz		511.521268	
Inundation Average Depth by Land Use	Forest		1.049847	
	Mangrove Forest		2.836664	
	Wooded & Natural Land		1.410827	
	Annual Crop	meter	1.376421	
	Perennial Crop		0.000000	
	Pasture		0.000000	
	Fish pond		0.000000	

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Name of Basin: Mag-asawang Tubig				
Data Item	Name/Description	Units	Data	Remarks
River Basin	Area	sq. km.	428.77	
	Perimeter	km.	163.91	
Population	Year 2000	person	34897	Census Population
	Year 2005		37222	Projected Population
Road	Calapan South Rd	km.	63.44	Length
Bridge	CSR Jct-Minas Rd		17.65	
River	Mag-asawang Tubig River	km.	61.75	Length
District	Mindoro Oriental DEO	sq. km.	134.32816	Area
City/Municipality	Calapan (City)		293.133801	
	Naujan	sq. km.	79.770338	
	Victoria		53.0868579	
	Sablayan		293.140035	
Name of Urban Center	.....	name		Main City Centers
			
Land Use of River Basin	Forest		265.96	Natural, Plantation, Bamboo
	Mangrove Forest		1.08	
	Wooded & Natural Land		64.85	Shrub, Grassland, Barren, Marshland
	Annual Crop	Area, sq. km.	71	
	Perennial Crop		25	Agricultural Land
	Pasture		0	
	Fish pond		0.07	
	Built-up Area		0.57	
	Water body		0.000888	Inland Water
Simulated Flood Inundation	Area	sq. km.	46.69	Total Area and Average Depth for River Basin
	Average Depth	meter	1.57	
Inundated Area by Land Use	Forest		0.64	
	Mangrove Forest		0.888310	Inundated area by land use except Water body, which is considered as permanently inundated.
	Wooded & Natural Land		1.083814	
	Annual Crop	sq. km.	31.831481	
	Perennial Crop		9.811854	
	Pasture		0.000000	
	Fish pond		0.000000	
	Naujan		0.262317	
Inundated Area by Administrative Boundary	Calapan (City)	sq. km.	0.705789	
	Naujan		38.562091	Total Inundated Area by City/Municipality
	Victoria		6.170294	
	Sablayan		0.642690	
Inundated City/Municipality Population	Calapan (City)	person	297.137198	Proportion of City/Municipality Population Inside
	Naujan		8136.601248	
	Victoria		1073.631220	
	Sablayan		18.000918	Inundated Area: Year 2000 Census Data
Inundation Average Depth by Land Use	Forest		8.711238	
	Mangrove Forest		2.168363	
	Wooded & Natural Land		0.990928	
	Annual Crop	meter	1.392153	
	Perennial Crop		1.540900	
	Pasture		0.000000	
	Fish pond		0.000000	
	Naujan		0.669735	

* The estimated inundation area and depth are preliminary results, and have not been used for screening/analysis as such, but with some modification based on expert judgements and so on (refer to Data Book C).

Name of Basin: Caguray (Cagaray)				
Data Item	Name/Description	Units	Data	Remarks
River Basin	Area	sq. km.	423.384155	
	Perimeter	km.	151.932559	
Population	Year 2000	person	42096	Census Population
	Year 2005		43665	Projected Population
Road	Bulalacao-Sn Jose-Jct	km.	9.701146	Length
	Mapava Rd		22.862650	
	Mindoro Oriental/Occidental East Coastal Rd			

Data Item	Name/Description	Units	Data	Remarks
Bridge	Magsaway Br.	Number	Bailey	Type
River	Cagupay Br.	km.	0.000000	
	Cagaray River	km.	37.505175	Length
District	1. Southern Mindoro DEO	sq. km.	228.985293	
	2. Mindoro Occidental DEO		185.760608	Area
	Mansalay		189.045251	
City/Municipality	Calintaan	sq. km.	18.009095	
	San Jose		40.986999	
	Bulalacao		37.816524	
	Magsaysay		138.734089	
Name of Urban Center	.....	name		Main City Centers
			
Land Use of River Basin	Forest		29.336068	Natural, Plantation, Bamboo
	Mangrove Forest		0.049447	
	Wooded & Natural Land		366.446087	Shrub, Grassland, Barren, Marshland
	Annual Crop	Area, sq. km.	11.937843	
	Perennial Crop		4.031540	Agricultural Land
	Pasture		0.000000	
	Fish pond		10.197630	
	Built-up Area		0.892384	
	Water body		0.199743	Inland Water
Simulated Flood Inundation	Area	sq. km.	25.962146	Total Area and Average Depth for River Basin
	Average Depth	meter	1.568153	
Inundated Area by Land Use	Forest		0.120525	
	Mangrove Forest		0.000000	
	Wooded & Natural Land		20.851485	Inundated area by land use except Water body, which is considered as permanently inundated.
	Annual Crop	sq. km.	3.357841	
	Perennial Crop		0.343127	
	Pasture		0.000000	
Inundated Area by Administrative Boundary	Mansalay	sq. km.	2.561641	Total Inundated Area by City/Municipality
	Bulalacao		0.020377	
	Magsaysay		23.380128	
Inundated City/Municipality Population	Mansalay	person	199.808011	Proportion of City/Municipality Population Inside
	Bulalacao		1.772184	
	Magsaysay		1917.10510	
Forest			5.275967	
Mangrove Forest			0.000000	
Wooded & Natural Land			1.504935	
Annual Crop	meter		1.045611	
Perennial Crop			1.674028	
Pasture			0.000000	
Fish pond			5.222863	

* The estimated inundation area and depth are preliminary results, and have not been used for screening/analysis as such, but with some modification based on expert judgements and so on (refer to Data Book C).

Name of Basin: Balete				
Data Item	Name/Description	Units	Data	Remarks
River Basin	Area	sq. km.	191.140657	
	Perimeter	km.	75.977356	
Population	Year 2000	person	35493	Census Population
	Year 2005		38712	Projected Population
Road	Calapan South Rd	km.	59.297133	Length
Bridge	Small Balite Br.	Number	Bailey	Type
River	Balete River	km.	38.353684	
District	1. Southern Mindoro DEO	sq. km.	186.186636	
	2. Mindoro Occidental DEO		4.886425	Area
	Pinamalyan		46.456188	
City/Municipality	Gloria	sq. km.	139.730198	
	Sablayan		4.886534	
Name of Urban Center	.....	name		Main City Centers
			
Land Use of River Basin	Forest		17.761123	
	Mangrove Forest		0.000000	
	Wooded & Natural Land		112.877110	Shrub, Grassland, Barren, Marshland
	Annual Crop	Area, sq. km.	12.001237	
	Perennial Crop		47.839680	Agricultural Land
	Pasture		0.000000	
	Fish pond		0.000000	
Simulated Flood Inundation	Area	sq. km.	7.387973	Total Area and Average Depth for River Basin
	Average Depth	meter	1.898660	
Inundated Area by Land Use	Forest		0.000000	
	Mangrove Forest		0.000000	
	Wooded & Natural Land		2.108850	Inundated area by land use except Water body, which is considered as permanently inundated.
	Annual Crop	sq. km.	2.209688	
	Perennial Crop		2.716532	
	Pasture		0.000000	
	Fish pond		0.000000	
Inundated Area by Administrative Boundary	Gloria	sq. km.	7.296145	Total Inundated Area by City/Municipality
	Pinamalyan		0.091827	
Inundated City/Municipality	Gloria	person	1014.164182	Proportion of City/Municipality
	Pinamalyan		31.498814	
Forest			0.000000	
Mangrove Forest			0.000000	
Wooded & Natural Land			3.924121	
Annual Crop	meter		1.041034	
Perennial Crop			1.277349	
Pasture			0.000000	
Fish pond			0.000000	

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Name of Basin: Bongabong (Bongabon)				
Data Item	Name/Description	Units	Data	Remarks
River Basin	Area	sq. km.	534.756608	
	Perimeter	km.	149.985435	
Population	Year 2000	person	55938	Census Population
	Year 2005		60881	Projected Population
Road	Calapan South Rd	km.	130.344380	Length
Bridge	Lisap Br.	Number	Bailey	Type
	Matalon Br.		Concrete	
	Nawa Br.			
	Hagan Br.			
	Batangan Br.			
River	Bongabong River	km.	69.283343	
District	1. Mindoro Occidental DEO	sq. km.	180.878900	
	2. Southern Mindoro DEO		353.417950	Area
	Sablayan		180.878954	
	Gloria		5.398643	
	Bansud		42.588285	
	Bongabong		271.285040	
	Mansalay		13.671933	
	Roxas		20.474094	
Name of Urban Center	.....	name		Main City Centers
			

Data Items	Name/Description	Units	Date	Remarks
Land Use of River Basin	Forest	Area, sq. km.	143.614472	Natural, Plantation, Bamboo
	Mangrove Forest		0.000000	
	Wooded & Natural Land		335.389182	Shrub, Grassland, Barren, Marshland
	Annual Crop		27.768434	
	Perennial Crop		26.093590	Agricultural Land
	Pasture		0.000000	
	Fish pond		0.000000	
Built-up Area			0.438160	
Water body			0.063366	Inland Water
Simulated Flood Inundation	Area	sq. km.	17.067480	Total Area and Average Depth for River Basin
	Average Depth	meter	1.834926	
Inundated Area by Land Use	Forest	sq. km.	0.844385	
	Mangrove Forest		0.000000	
	Wooded & Natural Land		8.636823	Inundated area by land use except Water body, which is considered as permanently inundated.
	Annual Crop		5.451766	
	Perennial Crop		1.863539	
	Pasture		0.000000	
	Fish pond		0.000000	
Bongabong			0.270237	
Inundated Area by Administrative Boundary	Sablayan		0.272791	
Gloria		sq. km.	0.005795	Total Inundated Area by City/Municipality
Bansud			0.499502	
Bongabong			16.289392	
Inundated City/Municipality Population	Sablayan	person	7.638158	Proportion of City/Municipality Population Inside Inundated Area; Year 2000 Census Data
Gloria			0.805497	
Bansud			70.429825	
Bongabong			2003.595199	
Inundation Average Depth by Land Use	Forest	meter	6.122686	
	Mangrove Forest		0.000000	
	Wooded & Natural Land		1.422511	
	Annual Crop		1.712552	
	Perennial Crop		1.900056	
	Pasture		0.000000	
	Fish pond		0.000000	
	Bongabong		3.673154	

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Name of Basin:	Pula				
Data Items	Name/Description	Units	Data	Remarks	
River Basin		sq. km.	258.018361		
Perimeter		km.	94.264005		
Population		Year 2000	61312	Census Population	
Year 2005		person	68845	Projected Population	
Road		km.	122.736090	Length	
CSR Jct-Pola Rd			11.871413		
Macanlig Br.					
Bridge	Pula Br.	Number	Concrete	Type	
	Casiligan Br. 1				
	Casiligan Br. 2				
River	Pula River	km.	68.789886	Length	
District	1. Mindoro Oriental DEO	sq. km.	133.545932		
	2. Southern Mindoro DEO		98.382321		
	3. Mindoro Occidental DEO		28.066765		
City/Municipality	Pola		27.831083		
	Pinamalayan	sq. km.	98.389847		
	Socorro		100.478254		
	Victoria		5.218384		
Name of Urban Center	Sablayan		28.069278		
	.....	name		Main City Centers	
Land Use of River Basin	Forest	Area, sq. km.	8.311922	Natural, Plantation, Bamboo	
	Mangrove Forest		0.000000		
	Wooded & Natural Land		187.475741	Shrub, Grassland, Barren, Marshland	
	Annual Crop		39.378009		
	Perennial Crop		22.795979	Agricultural Land	
	Pasture		0.000000		
	Fish pond		0.000000		
Inundated Area by Land Use	Built-up Area		0.564409	Inland Water	
	Water body				
	Simulated Flood Inundation	Area	15.618666	Total Area and Average Depth for River Basin	
	Average Depth	meter	2.793414		
	Forest	sq. km.	0.000000		
	Mangrove Forest		0.000000		
	Wooded & Natural Land		8.150529	Inundated area by land use except Water body, which is considered as permanently inundated.	
Inundated Area by Administrative Boundary	Annual Crop		5.681561		
	Perennial Crop		1.754034		
	Pasture		0.000000		
	Fish pond		0.000000		
	Pola		6.802682		
	Pinamalayan		6.759401	Total Inundated Area by City/Municipality	
	Socorro		1.803138		
Inundated City/Municipality Population	Sablayan	person	0.153444		
	.....			Main City Centers	
				
				
Inundation Average Depth by Land Use	Forest	meter	0.000000		
	Mangrove Forest		0.000000		
	Wooded & Natural Land		3.034979		
	Annual Crop		2.696946		
	Perennial Crop		1.985929		
	Pasture		0.000000		
	Fish pond		0.000000		
Inundated Area by Administrative Boundary	Pola				
	Pinamalayan				
	Socorro				
				
				
				
				
Inundated City/Municipality Population	Sablayan		4.296426	Inundated Area; Year 2000 Census Data	
				
				
				
				
				
				
Inundation Average Depth by Land Use	Forest	meter	0.000000		
	Mangrove Forest		0.000000		
	Wooded & Natural Land		3.034979		
	Annual Crop		2.696946		
	Perennial Crop		1.985929		
	Pasture		0.000000		
	Fish pond		0.000000		

* The estimated inundation area and depth are preliminary results, and have not been used for screening/analysis as such, but with some modification based on expert judgements and so on (refer to Data Book C).

Name of Basin:	Alag (Malayay-Bac)				
Data Items	Name/Description	Units	Data	Remarks	
River Basin		sq. km.	481.728635		
Perimeter		km.	132.900992		
Population		Year 2000	55195	Census Population	
Year 2005		person	61285	Projected Population	
Road		km.	53.668265	Length	
Calapan North Rd					
Bridge	Casililan Br. 2	Number	Concrete	Type	
	Casililan Br. 1				
	Matining Br.				
	Longos Br.				
	Calabugao Br.				
	Alag Munti Br.				
	Alag Br.				
River	Malayay River	km.	52.219914	Length	
District	Mindoro Oriental DEO	sq. km.	453.416140	Area	
	Mindoro Occidental DEO		27.295423		

Data Items	Name/Description	Units	Data	Remarks
City/Municipality	Calapan (City)	sq. km.	52.789165	
	Puerto Galera		07.503024	
	Abra De Illog		27.291441	Area
	San Teodoro		142.335246	
	Baco		166.683936	
	Naujan		4.110869	
	.....			Main City Centers
Land Use of River Basin	Forest	Area, sq. km.	317.264854	Natural, Plantation, Bamboo
	Mangrove Forest		0.000000	
	Wooded & Natural Land		3.720078	Shrub, Grassland, Barren, Marshland
	Annual Crop		40.392711	
	Perennial Crop		118.688643	Agricultural Land
	Pasture		0.004123	
	Fish pond		0.000000	
Simulated Flood Inundation	Built-up Area	Area, sq. km.	1.658227	Inland Water
	Water body			
			
			
			
			
			
Inundated Area by Land Use	Simulated Flood Inundation	Area	20.254474	Total Area and Average Depth for River Basin
	Average Depth	meter	2.759623	
	Forest	sq. km.	2.226803	
	Mangrove Forest		0.000000	
	Wooded & Natural Land		0.392306	Inundated area by land use except Water body, which is considered as permanently inundated.
	Annual Crop		6.764128	
	Perennial Crop		9.881287	
Inundated Area by Land Use	Pasture		0.000000	
	Fish pond		0.000000	
	Baco	sq. km.	15.963272	
	San Teodoro		2.441124	Total Inundated Area by City/Municipality
	Puerto Galera		1.334152	
	Baco		1628.253768	Proportion of City/Municipality
	Abra De Illog		3.552772	Population Inside Inundated Area; Year 2000 Census Data
Inundation Average Depth by Land Use	Puerto Galera		128.078606	
	Forest	meter	5.842882	
	Mangrove Forest		0.000000	
	Wooded & Natural Land		3.812263	
	Annual Crop		2.974462	
	Perennial Crop		2.367022	
	Pasture		0.000000	
Inundation Average Depth by Land Use	Fish pond		0.000000	

* The estimated inundation area and depth are preliminary results, and have not been used for screening/analysis as such, but with some modification based on expert judgements and so on (refer to Data Book O).

Data Items	Name/Description	Units	Data	Remarks
City/Municipality	Calapan (City)	sq. km.	52.789165	
	Puerto Galera		07.503024	
	Abra De Illog		27.291441	Area
	San Teodoro		142.335246	
	Baco		166.683936	
	Naujan		4.110869	
	.....			Main City Centers
Land Use of River Basin	Forest	Area, sq. km.	317.264854	Natural, Plantation, Bamboo
	Mangrove Forest		0.000000	
	Wooded & Natural Land		3.720078	Shrub, Grassland, Barren, Marshland
	Annual Crop		40.392711	
	Perennial Crop		118.688643	Agricultural Land
	Pasture		0.004123	
	Fish pond		0.000000	
Simulated Flood Inundation	Built-up Area		1.658227	Inland Water
	Water body			
			
			
			
			
			
Inundated Area by Land Use	Simulated Flood Inundation	Area	20.254474	Total Area and Average Depth for River Basin

Name of Basin: Baroc				
Data Item	Name/Description	Units	Date	Remarks
River Basin	Area	sq. km.	122.78	
	Perimeter	km.	53.91	
Population	Year 2000	person	25738	Census Population
	Year 2005		23913	Projected Population
Road	Calapan South Rd	km.	70.59	Length
Bridge	Baroc Br.	Bailey		
	Wasig Br.	Number		Concrete
	Madugo Br.			Type
River	Baroc River	km.	24.53	Length
District	Southern Mindoro DEO	sq. km.	122.444714	Area
	Bongabong		1.904864	
City/Municipality	Roxas	sq. km.	40.764542	Area
	Mansalay		79.774319	
Name of Urban Center	.....	name		Main City Centers
			
Land Use of River Basin	Forest		0.000000	Natural, Plantation, Bamboo
	Mangrove Forest		0.000000	
	Wooded & Natural Land		52.156193	Shrub, Grassland, Barren, Marshland
	Annual Crop	Area, sq. km.	28.357256	
	Perennial Crop		41.494265	Agricultural Land
	Pasture		0.000000	
	Fish pond		0.025695	
	Built-up Area		0.396777	
	Water body		0.000000	Inland Water
Simulated Flood Inundation	Area	sq. km.	6.577780	Total Area and Average Depth for River Basin
	Average Depth	meter	1.589542	
	Forest		0.000000	
	Mangrove Forest		0.000000	
Inundated Area by Land Use	Wooded & Natural Land	sq. km.	3.416968	Inundated area by land use except Water body, which is considered as permanently inundated.
	Annual Crop		2.363754	
	Perennial Crop		0.000000	
	Pasture		0.023622	
Inundated Area by Administrative	Roxas	sq. km.	3.564266	Total Inundated Area by City/Municipality
	Mansalay		2.952857	
Inundated Area by City/Municipality	Roxas	person	1685.897699	Proportion of City/Municipality
	Mansalay		230.322836	
Inundation Average Depth by Land Use	Forest		0.00	
	Mangrove Forest		0.00	
	Wooded & Natural Land		1.01	
	Annual Crop	meter	1.50	
	Perennial Crop		1.86	
	Pasture		0.00	
	Fish pond		2.74	

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Name of Basin: Pola				
Data Item	Name/Description	Units	Date	Remarks
River Basin	Area	sq. km.	215.778907	
	Perimeter	km.	74.805324	
Population	Year 2000	person	9547	Census Population
	Year 2005		11009	Projected Population
Road	Crossing MWGR (Pola)–Casagu	km.	7.437988	Length
Bridge	Mindoro West Coastal Rd		217.532027	
	Lucasan Br.	Number		Bailey
	Pola Br.			Type
River	Pola River	km.	31.045454	Length
District	1. Mindoro Oriental DEO	sq. km.	0.000003	Area
	2. Mindoro Occidental DEO		215.778905	
City/Municipality	San Teodoro	sq. km.	0.000001	
	Santa Cruz		206.194721	Area
	Sablayan		9.584185	
Name of Urban Center	.....	name		Main City Centers
			
Land Use of River Basin	Forest		5.286015	Natural, Plantation, Bamboo
	Mangrove Forest		0.000000	
	Wooded & Natural Land		199.746493	Shrub, Grassland, Barren, Marshland
	Annual Crop	Area, sq. km.	10.702103	
	Perennial Crop		0.044297	Agricultural Land
	Pasture		0.000000	
	Fish pond		0.000000	
	Built-up Area		0.000000	
	Water body		0.000000	Inland Water
Simulated Flood Inundation	Area	sq. km.	7.735795	Total Area and Average Depth for River Basin
	Average Depth	meter	1.483479	
	Forest		0.070729	
	Mangrove Forest		0.000000	
Inundated Area by Land Use	Wooded & Natural Land	sq. km.	3.020506	Inundated area by land use except Water body, which is considered as permanently inundated.
	Annual Crop		4.631563	
	Perennial Crop		0.000970	
	Pasture		0.000000	
	Fish pond		0.000000	
Inundated Area by City/Municipality	Santa Cruz	sq. km.	7.735795	Total Inundated Area by City/Municipality
	Santa Cruz	person	348.110782	Proportion of City/Municipality
			
Inundation Average Depth by Land Use	Forest		1.611378	
	Mangrove Forest		0.000000	
	Wooded & Natural Land		1.390171	
	Annual Crop	meter	1.523710	
	Perennial Crop		0.000000	
	Pasture		0.000000	
	Fish pond		0.000000	

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Name of Basin: Agus				
Data Item	Name/Description	Units	Date	Remarks
River Basin	Area	sq. km.	1976.820179	
	Perimeter	km.	276.024342	
Population	Year 2000	person	518913	Census Population
	Year 2005		552305	Projected Population
Road	Cotabato-Lanao Rd	km.	97.393669	Length
	Iligan-Marawi Rd		4.210739	
	Iligan-City–Marawi City Rd		18.860702	
	Iligan-City–Marawi City Rd via Balo–Airport		0.236595	
	Iligan-City–Marawi City Rd via Bito Abaga Rd		3.590187	
	Lake Lanao Cir Rd		64.199473	
	Linamon–Zambanga Rd		58.000780	
	Marawi–Bacung Nat'l Rd		3.300138	
	Marawi–Bito Nat'l Rd		4.087706	
	Marawi–Kapai Nat'l Rd		6.171714	
	Marawi–Landing Nat'l Rd		0.925992	
	Marawi–Malabang Rd		30.974152	

Data Item	Name/Description	Units	Date	Remarks
	Marawi–MSU Nat'l Rd		1.675071	
	Marawi–Puugan Nat'l Rd		7.442555	
	Marawi Cadre Rd		0.645242	
	Marcos Blvd Rd		1.846692	
	Misamis Oriental–Ma Cristina Bdry Rd		23.843625	
	Overton–Buruan Bdry Rd		4.664487	
	Tubod–Ganassi Rd		8.190889	
	Wye Length		0.307684	
Bridge	Linamon Br.			Concrete
	Timoga Br.			
	Buru-un Br.			
	Agus Br.			
	No Name Br.			Steel
River	Agus River	km.	87.224985	Length
	Iligan City DEO		14.736993	
	Lanao del Norte I DEO		10.403896	
	Lanao del Norte II DEO		116.928892	
	Lanao del Sur DEO		147.972394	
	Lanao Del Sub DEO		31.203293	
	North Cotabato II DEO		311.090869	
	Iligan City		15.361892	
	Marawi City		36.127265	
	Linamon		9.608816	
	Matungao		12.005667	
	Baloj		28.807471	
	Poona Piagapo		7.123830	
	Pantar		11.557448	
	Tasgolao II		76.150010	
	Saguiran		116.095477	
	Pantao Ragat		23.280368	
	Piagapo		51.828500	
	Kapala		54.690714	
	Marantao		85.416468	
	Munai		7.692495	
	Bubong		105.562049	
	Tugaya		52.189713	
	Balindong		38.258676	
	Ditsaan–Ramaian		11.432041	
	Budipiso–Buntong		47.643308	
	Lumba–Bayabao		218.390305	
	Bacolod Grande		29.320046	
	Madalam		29.233618	
	Madamba		35.260630	
	Mulondo		20.991649	
	Taraka		18.401336	
	Tamparan		20.857475	
	Nunungan		22.003130	
	Pualas		5.626013	
	Maguing		342.056437	
	Poona Bayabao		29.490187	
	Masiu		27.272296	
	Ganassi		2.406521	
	Pagayawan		0.134033	
	Bindayan		0.122803	
	Bayang		0.441069	
	Bumbaran		4.058665	
	Lumbanayague		8.073898	
	Lumbatan		2.869765	
	Butig		38.008887	
	Alamada		4.352811	
	Pijkawayan		15.037813	
Name of Urban Center	.....	name		Main City Centers
			
Land Use of River Basin	Forest		852.676249	Natural, Plantation, Bamboo
	Mangrove Forest		0.000000	
	Wooded & Natural Land		88.273851	Shrub, Grassland, Barren, Marshland
	Annual Crop		596.548459	
	Perennial Crop		67.131901	Agricultural Land
	Pasture		0.000000	
	Fish pond		0.000000	
	Built-up Area		10.950994	
	Water body		360.156804	Inland Water
Simulated Flood Inundation	Area	sq. km.	9.802988	Total Area and Average Depth for River Basin
	Average Depth	meter	3.794231	
	Forest		0.000000	
	Mangrove Forest		0.000000	
	Wooded & Natural Land		0.717410	
	Annual Crop		7.463990	
	Perennial Crop		0.977737	Inundated area by land use except Water body, which is considered as permanently inundated.
	Pasture		0.000000	
	Fish pond		0.000000	
	Iligan City (City)		0.075497	
	Linamon		0.017799	
	Baloj		0.052196	
	Iligan City (City)		0.435350	
	Linamon		0.850672	
	Matungao		0.199646	
	Baloj		4.955499	Total Inundated Area by City/Municipality
	Poona Piagapo		0.093161	
	Pantao Ragat		2.655824	
	Saguiran		0.612836	
	Iligan City (City)		189.812672	
	Linamon		574.203803	Proportion of City/Municipality
	Matungao		32.741928	Population Inside
	Baloj		3795.912040	Inundated Area: Year 2000 Census Data
	Poona Piagapo		32.978890	
	Pantao Ragat		358.536197	
	Saguiran		119.503084	
	Forest		0.000000	
	Mangrove Forest		0.000000	
	Wooded & Natural Land		3.184877	
	Annual Crop		3.432598	
	Perennial Crop		5.328778	
	Pasture		0.000000	
	Fish pond		0.000000	
	Iligan City (City)		6.238402	
	Linamon		4.078121	
	Baloj		2.017896	

* The estimated inundation area and depth are preliminary results, and have not been used for screening/analysis as such, but with some modification based on expert judgements and so on (refer to Data Book C).

Name of Basin: Mataing				
Data Items	Name/Description	Units	Data	Remarks
River Basin	Area	sq. km.	484.558157	
	Perimeter	km.	110.249241	
Population	Year 2000	person	165911	Census Population
	Year 2005		168706	Projected Population
Road	Cotabato-Lanao Rd	km.	104.441492	Length
	Lake Lanao Cir Rd		64.199473	
Bridge	None	Number		Type
River	Mataing River	km.	43.814668	Length
District	Lanao del Sur DEO	sq. km.	484.406893	Area
	Madamba		3.020812	
	Pualas		36.052902	
	Madalum		0.006098	
	Ganassi		24.641736	
	Pagayawan		29.356592	
	Bindiyayan		59.317969	
	Bayang		28.252383	
City/Municipality	Lumbutan	sq. km.	9.151648	Area
	Calanggas		39.59285	
	Lumbayanague		27.415407	
	Butig		35.945464	
	Marogong		103.279594	
	Tubaran		28.978164	
	Sultan Gumander		0.811432	
	Malabang		58.078403	
	Balabagan		0.346989	
Name of Urban Center	.....	name		Main City Centers
			
Land Use of River Basin	Forest		118.877987	Natural, Plantation, Bamboo
	Mangrove Forest		0.000000	
	Wooded & Natural Land		146.974199	Shrub, Grassland, Barren, Marshland
	Annual Crop	Area, sq. km.	89.460716	
	Perennial Crop		118.238259	Agricultural Land
	Pasture		0.000000	
	Fish pond		0.000000	
	Built-up Area		0.839101	
	Water body		9.383796	Inland Water
Simulated Flood Inundation	Area	sq. km.	4.291685	Total Area and Average Depth for River Basin
	Average Depth	meter	3.943770	
Inundated Area by Land Use	Forest		0.000000	
	Mangrove Forest		0.000000	
	Wooded & Natural Land		1.775832	Inundated area by land use except Water body, which is considered as permanently inundated.
	Annual Crop	sq. km.	0.709926	
	Perennial Crop		1.367256	
	Pasture		0.000000	
	Fish pond		0.000000	
	Malabang		0.316723	
Inundated Area by Administrative Boundary	Pusalan		0.100984	
	Ganassi		0.159918	
	Pagayawan		0.536475	
	Bindiyayan		0.273238	
	Tubaran		0.610836	Total Inundated Area by City/Municipality
	Calanggas		0.121280	
	Malabang		2.408106	
	Sultan Gumander		0.073474	
Inundated City/Municipality Population	Pusalan	person	14.117749	
	Ganassi		112.102722	
	Pagayawan		177.573158	
	Bindiyayan		83.064498	Proportion of City/Municipality Population Inside
	Tubaran		232.117730	Inundated Area; Year 2000 Census Data
	Calanggas		14.088443	
	Malabang		1254.622805	
	Sultan Gumander		7.273881	
Inundation Average Depth by Land Use	Forest		0.000000	
	Mangrove Forest		0.000000	
	Wooded & Natural Land		6.288003	
	Annual Crop	meter	1.738165	
	Perennial Crop		2.351995	
	Pasture		0.000000	
	Fish pond		0.000000	
	Malabang		2.105775	

* The estimated inundation area and depth are preliminary results, and have not been used for screening/analysis as such, but with some modification based on expert judgements and so on (refer to Data Book C).

Name of Basin: Nituan				
Data Items	Name/Description	Units	Data	Remarks
River Basin	Area	sq. km.	445.66	
	Perimeter	km.	121.183	
Population	Year 2000	person	64612	Census Population
	Year 2005		69567	Projected Population
Road	Cotabato-Lanao Rd	km.	106.58	Length
Bridge	None	Number	49.70	Type
River	Nituan River	km.		
District	Lanao del Sur DEO	sq. km.	105.656755	Area
	Maguindanao DEO		339.926383	
	Butig		87.755991	
	Maguina		13.368424	
	Buldon		27.945366	
City/Municipality	Barira	sq. km.	138.179531	Area
	Matanog		95.438876	
	Kapatagan		1.321242	
	Parang		81.619870	
Name of Urban Center	.....	name		Main City Centers
			
Land Use of River Basin	Forest		108.429609	Natural, Plantation, Bamboo
	Mangrove Forest		2.396488	
	Wooded & Natural Land		56.072002	Shrub, Grassland, Barren, Marshland
	Annual Crop	Area, sq. km.	194.128494	
	Perennial Crop		82.204195	Agricultural Land
	Pasture		0.000000	
	Fish pond		1.010694	
	Built-up Area		1.422066	
	Water body		0.000000	Inland Water
Simulated Flood Inundation	Area	sq. km.	6.025163	Total Area and Average Depth for River Basin
	Average Depth	meter	2.008000	
Inundated Area by Land Use	Forest		0.173759	Inundated area by land use except Water body, which is considered as permanently inundated.
	Mangrove Forest		0.648735	
	Wooded & Natural Land		0.192708	
	Annual Crop	sq. km.	4.659925	
	Perennial Crop		0.153818	
	Pasture		0.000000	
	Fish pond		0.056854	
	Parang		2.686442	Total Inundated Area by City/Municipality
Inundated Area by Administrative Boundary	Barira	sq. km.	0.887609	
	Buldon		2.451113	
	Parang			

Data Items	Name/Description	Units	Data	Remarks
Inundated City/Municipality Population	Barira	person	354.610267	Proportion of City/Municipality Population Inside
	Buldon		76.324332	
	Parang		708.371607	
	Forest		6.710728	
	Mangrove Forest		2.655403	
	Wooded & Natural Land		2.081187	
	Annual Crop		1.737107	
	Perennial Crop		1.565827	
	Pasture		0.000000	
	Fish pond		0.000000	
	Parang		3.435202	

* The estimated inundation area and depth are preliminary results, and have not been used for screening/analysis as such, but with some modification based on expert judgements and so on (refer to Data Book C).

Name of Basin: Mataher				
Data Items	Name/Description	Units	Data	Remarks
River Basin	Area	sq. km.	220.209206	
	Perimeter	km.	81.233550	
Population	Year 2000	person	16659	Census Population
	Year 2005		18023	Projected Population
Road	Awang-Upi-Lebak Rd	km.	61.021151	Length
Bridge	None	Number		Type
River	Mataher River	km.	37.265962	Length
District	Maguindanao DEO	sq. km.	220.119870	Area
	Datu Odin Sinsuat (Dinaig)	sq. km.	21.980973	
	Upi	sq. km.	198.191391	
Name of Urban Center	.....	name		Main City Centers
			
Land Use of River Basin	Forest		3.300617	Natural, Plantation, Bamboo
	Mangrove Forest		0.000000	
	Wooded & Natural Land		60.047602	Shrub, Grassland, Barren, Marshland
	Annual Crop	Area, sq. km.	155.704044	
	Perennial Crop		0.440014	Agricultural Land
	Pasture		0.000000	
	Fish pond		0.000000	
	Built-up Area		0.351916	
	Water body		0.000000	Inland Water
Simulated Flood Inundation	Area	sq. km.	4.111642	Total Area and Average Depth for River Basin
	Average Depth	meter	3.480594	
Inundated Area by Land Use	Forest		0.000000	
	Mangrove Forest		0.000000	
	Wooded & Natural Land		1.060386	Inundated area by land use except Water body, which is considered as permanently inundated.
	Annual Crop	sq. km.	3.050291	
	Perennial Crop		0.000065	
	Pasture		0.000000	
	Fish pond		0.000000	
Inundated Area by Administrative Boundary	Upi	sq. km.	4.111642	Total Inundated Area by City/Municipality
Inundated City/Municipality Population	Upi	person	263.145119	Proportion of City/Municipality Population Inside Inundated Area; Year 2000 Census Data
Inundation Average Depth by Land Use	Forest		0.000000	
	Mangrove Forest		0.000000	
	Wooded & Natural Land		6.438844	
	Annual Crop	meter	2.391958	
	Perennial Crop		0.000000	
	Pasture		0.000000	
	Fish pond		0.000000	

* The estimated inundation area and depth are preliminary results, and have not been used for screening/analysis as such, but with some modification based on expert judgements and so on (refer to Data Book C).

Name of Basin: Abulug				
Data Items	Name/Description	Units	Data	Remarks
River Basin	Area	sq. km.	2880.618623	
	Perimeter	km.	299.672219	
Population	Year 2000	person	98739	Census Population
	Year 2005		100791	Projected Population
Road	Apaya (Calanasan)-Ilocos Norte Rd	km.	22.380593	
	Calor-Putid Rd		1.568291	
	Claveria-Calanasan-Kabugao Rd		86.744317	
	Conner-Kabugao Rd		38.776925	
	Kabugao-Putid-Luna-Cagayan Bdry Rd		47.491245	
	Mamburao North Rd		97.384825	
Bridge	Blakor Br.			
	Matala Br.			
	Nagan Br.			
	Salunusung Br.			
	Uzaton Br.			
	Dalawas Br.			
	Matauis Br.			
	Bagu Br.			
	Naltut Br.			
	Negre Br.			
	Maton Br.			
	Nasungbatan Br.			
	San Isidro Br.			
	San Lorenzo Br.			
	Tumog Br.			
	Sabangan Br.			
	Pasupad Br.			
	Pudut Br.			
	Purak Br.			
	Calor Br.			
	Guimitan Br.			
	Litura Br. 1			
	Cabatagan Br.			
	Apio Br.			
	Balisip Br.			
	Bangsil Br.			
	Litura Br. 2			
	Malinao Br.			
	Makadig Br.			
	Maraburab Br.			
	Mallag Br.			
	Magas Br.			
	Maharig Br.			
	Luban Br.			
	Guidana Br.			
River	Mamburao River	km.	157.659881	Length
District	1. Calanasan II DEO	sq. km.	228.479084	
	2. Apaya II DEO		155.268184	
	3. Ilocos Norte I DEO		5.87194	
	4. Apava I DEO		1041.464903	
	5. Ilocos Norte II DEO		6.489811	
	6. Abra DEO		14.375536	

Data Items	Name/Description	Units	Date	Remarks
City/Municipality	Abulug	sq. km.	102.324832	
	Calanasan		770.697709	
	Pampanga		1.047512	
	Luna		201.946155	
	Ballesteros		18.415491	
	Vintar		0.895403	
	Santa Marcela		54.903678	
	Allacapan		98.267872	
	Carasi		4.977160	
	Flora		287.656870	Area
	Pudtol		250.037704	
	Kabugao		944.069330	
	Solsina		0.261238	
	Nueva Era		6.226426	
	Lasam		16.645647	
	Santo Niño		0.223774	
	Tigre		14.388984	
	Cincer		97.398613	
Name of Urban Center	.....	name	Main City Centers	
Land Use of River Basin	Forest	Area, sq. km.	1444.130828	Natural, Plantation, Bamboo
	Mangrove Forest		2.678932	
	Wooded & Natural Land		989.550945	Shrub, Grassland, Barren, Marshland
	Annual Crop		417.249466	
	Perennial Crop		4.821577	Agricultural Land
	Pasture		0.000000	
	Fish pond		0.000000	
	Built-up Area		0.752273	
	Water body		21.433602	Inland Water
Simulated Flood Inundation	Area	sq. km.	112.164425	Total Area and Average Depth for River Basin
	Average Depth	meter	2.632310	
Inundated Area by Land Use	Forest	sq. km.	2.729899	
	Mangrove Forest		0.938741	Inundated area by land use except Water body, which is considered as permanently inundated.
	Wooded & Natural Land		16.574711	
	Annual Crop		70.943350	
	Perennial Crop		2.941819	
	Pasture		0.000000	
	Fish pond		0.000000	
Inundated Area by Administrative Boundary	Abulug	sq. km.	53.036512	
	Calanasan		7043571	
	Luna		4.070350	
	Santa Marcela		10.190958	Total Inundated Area by City/Municipality
	Flora		13.669831	
	Pudtol		8.539650	
Inundated City/Municipality Population	Kabugao	person	1.206202	
	Abulug		9220.323083	Proportion of City/Municipality Population Inside Inundated Area; Year 2000 Census Data
	Calanasan		98.609989	
	Luna		93.618048	
	Santa Marcela		1834.354520	
	Flora		697.161330	
Inundation Average Depth by Land Use	Pudtol	meter	375.744587	
	Kabugao		128.882628	
	Forest		4.755823	
	Mangrove Forest		1.784876	
	Wooded & Natural Land		5.929078	
	Annual Crop		1.733956	
Road	Perennial Crop		1.987050	
	Pasture		0.000000	
	Fish pond		0.000000	
	Leonard Wood Rd	km.	4.024867	
	Acop-Capangan-Bakun Rd		55.275946	
	Baguio-Banang Rd		1.013733	
	Banang-Bakun Rd		55.100369	
	Banang-Bauang Rd		21.857949	
	Benguet Prov'l Nat'l Rd		0.564846	
	Country Club Road		0.517552	
	Gen Luna Rd		1.160821	
	Gibraltar Rd		1.765561	
	Leonard Wood Rd		4.034844	
	Magsaway Ave (Trinidad Rd) East Service Rd		0.371925	Length
	Magsaway Ave (Trinidad Rd) West Service Rd		3.307331	
	Manila North Rd		52.794340	
	Manuel Roxas Rd		0.921653	
Bridge	P Burgos Rd		0.964373	
	D.L. Rosales Rd		0.938904	
	Pedal Rd		2.084268	
	Pico-Lantang Rd		8.469083	
	St. Fernando-Bagulin Rd		16.906314	
	South Drive		2.049032	
Bridge	Marcelo Roxas Br. 3	Number		
	Naquilan Br.			
	Ungulan Br.			
	Lueut Br.			
	Pascal Br.			
	Puguis Br.			
Bridge	Sapang Br.			
	Pico Br.			
	Leonard Wood Br.			
	Basang Br. I			
	Asao Br.			
	Baliti Br.			
Bridge	Barong Br.			
	Bauang Br. 2			
	Irrigation Br.			
	Kamiasan Br.			
	Chico Br.			
	Dayakan Br.			
Bridge	Ribson Br.			
	Paleuv Br.			
	San Fernando City			
	Bauang River			
	1. La Union I DEO		59.989999	Length
	2. La Union II DEO		2.681044	
District	3. Benguet I DEO	sq. km.	198.783526	
	4. Benguet II DEO		61.184613	Area
	5. Baguio City DEO		197.520470	
			7.404243	
City/Municipality	San Fernando (City)	sq. km.	43.487868	
	Bauguio City (City)		0.456469	
	San Juan		0.454104	
	Basilin		40.722227	
	Kaaganan		61.185466	
	Naquilan		69.141324	
City/Municipality	Burgos	sq. km.	40.641735	
	Calasian		44.631224	
	Tublay		96.116070	
			39.843409	
	La Trinidad		60.115087	
	Caba		1.643724	
Name of Urban Center	Tuba		0.003380	
	.....	name	Main City Centers	

Data Items	Name/Description	Units	Date	Remarks
Land Use of River Basin	Forest	Area, sq. km.	65.533278	Natural, Plantation, Bamboo
	Mangrove Forest		0.000000	
	Wooded & Natural Land		312.228978	Shrub, Grassland, Barren, Marshland
	Annual Crop		82.959210	
	Perennial Crop		18.918990	Agricultural Land
	Pasture		0.000000	
	Fish pond		0.000000	
	Built-up Area		22.962108	
	Water body		4.789213	Inland Water
Simulated Flood Inundation	Area	sq. km.	8.602814	Total Area and Average Depth for River Basin
	Average Depth	meter	3.290328	
Inundated Area by Land Use	Forest	sq. km.	0.000000	
	Mangrove Forest		0.000000	
	Wooded & Natural Land		1.633792	Inundated area by land use except Water body, which is considered as permanently inundated.
	Annual Crop		4.827010	
	Perennial Crop		0.000000	
	Pasture		0.000000	
	Fish pond		0.000754	
	Bauang		0.548825	
	Baculian		0.714808	
	Kaaganan		2.404869	
Inundated Area by Administrative Boundary	Kapangan	sq. km.	1.453974	Total Inundated Area by City/Municipality
	Sablan		0.225682	
	Bauang		0.320795	
	La Trinidad		3.549283	
	San Fernando (City)		446.743710	
	Baculian		102.257265	Proportion of City/Municipality Population Inside
	Kapangan		23.606945	Population Inside
	Sablan		26.625947	Inundated Area; Year
	Bauang		2637.116965	2000 Census Data
	La Trinidad		355.800484	
Inundated Area by Population	Forest	meter	0.000000	
	Mangrove Forest		0.000000	
	Wooded & Natural Land		5.295412	
	Annual Crop		2.809050	
	Perennial Crop		3.686943	
	Pasture		0.000000	
	Fish pond		0.000000	
	La Trinidad		1.000000	
	Bagulin		65.198879	
	Abatan		65.198879	
Road	Abatan-Mankayan-Cervantes Rd	km.	22.233721	
	Acop-Kapangan-Bakun Rd		13.777479	
	Baguio-Bontoc Rd		137.649522	
	Baguio-Itogon Rd		14.495713	
	Bakit-Bakit Jct-Umingan Rd		27.794545	
	Balator-Roxas Rd		1.000000	
	Bayambang-Cadro Rd		0.304950	
	Bilao-Bilao-Vizcaya Rd		65.198879	
	Binaliw-Lingayen via Quibao		6.037773	
	Camiling-Wawa-Bayambang		29.367673	
Bridge	Malasiqui-Sta Barbara	Number	2.354057	
	Carmen Jct-Manat Rd		13.092058	
	Manat Rd		18.122339	
	Carmen Jct-Manat Rd		2.014911	
	Gibraltar Rd		1.785364	
	Gurel-Bokod-Kabayan-Buguias Abatan Rd		65.236599	
	Itogon-Dalupir-Sn Manuel Bdny Rd		13.159241	
	Leonard Wood Rd		4.034844	
	Lingayen-Labrador Div Rd		6.289793	
	Major Mane Rd		1.718706	Length
Bridge	Manila North Rd	km.	96.356848	
	Nueva Ecija-Pangasinan Rd		37.417680	
	Nueva Vizcaya-Benguet Rd		35.745999	
	Nueva Vizcaya-Pangasinan Rd		17.420605	
	Pacdal Rd		2.084268	
	Pangasinan-Nueva Ecija Rd		11.274357	
	Pangasinan-Nueva Vizcaya Rd		33.612030	
	Pangasinan-Tarlac Rd		33.305550	
	Paniqui-Camiling-Wawa Rd		26.121110	
	Paniqui Poblacion Rd		3.218934	
Bridge	PMA Cut Off Rd 2	Number	0.380467	
	PMA Rd		2.328463	
	Romulo Hwy		42.855006	
	Sn Jose-Lupao Rd		17.679830	
	Sn Nicolas-Navidad-Sn Quintin-Umingan-Guimba Rd		34.535021	
	Tarlac-Sn Miguel via Macabulos Rd		3.754227	
	Tarlac-Zambales Rd		22.004974	
	Tayug Cadre Rd		0.386279	
	Salapsap Br.			
	Aminay Br.			
Bridge	Kaling Br.	Bailey		
	Capuyuan Br.			
	Man-asok Br.			
	Asokong Br.			
	Toking Br.			
	Ellet Br.			
	Pantai Br.			
	Nambalan Br.			
	Nanguilan Br.			
	Montug Br.			
Bridge	Pito Br.	Type		
	Primicias Br. I			
	Naratal Br.			
	Olo Br.			
	Pachel Br.			
	Palimbo Br.			
	Ninig Br. 1			
	Ninig Br. 2			
	Picao Br.			
	Minac Br.			
Bridge	Ilogon Br.	Type</td		

Data Items	Name/Description	Units	Data	Remarks	Data Items	Name/Description	Units	Data	Remarks
Magallanes Br.					Bokod			453.268476	
Teal Br.					Tublay			14.706387	
Stanza Br.					La Trinidad			8.152974	
Tataw Br.					Ilogon			365.047042	
Tablang Br.					Tuba			8.688977	
Sobol Br.					Santa Fe			121.982344	
Singit Br.					San Nicolas			246.869900	
Sta. Maria Br.					San Manuel			105.088493	
Sombrero Br.					Sison			0.014087	
Udiao Br. 1					Carranglan			31.775441	
Tumana Br.					Natividad			92.099300	
Viray Br.					Tayug			67.731805	
Udiao Br. 2					Asingan			32.172975	
Tayug Cadre Br. 1					San Quintin			98.244705	
Tataypo Br.					Lingayen			22.635960	
Tibar Br.					Labrador			34.758426	
Tayug Cadre Br. 2					Bugallon			161.400015	
Sabit Br.					Santa Maria			60.699188	
Rodriguez Br.					Umangan			185.799301	
Salapungan Br.					Mabini			0.417214	
Salamaque Br.					Villasis			16.934374	
Principias Br. 3					Infanta			10.25114	
Principias Br. 2					Balungao			78.348765	
Quijano Br.					Lungsod			19.230554	
Principias Br. 4					Rosales			61.037766	
San Miguel Br.					Aguilar			105.178562	
San Isidro Br.					Santo Tomas			10.230247	
Seapang Br.					Alcala			39.562306	
San Routh Br.					Urbiztondo			26.643393	
San Aurelio Br. 1					Mangatarem			333.844523	
San Antonio Br.					Malasiqui			2.750608	
San Clemente Br.					Bavambang			68.539305	
San Aurelio Br. 2					Cuyapo			102.928359	
Godoy Br.					Santa Cruz			35.982241	
Barangobong Br. 1					Bautista			73.096051	
Barangobong Br.					Moncada			89.024416	
Barangobong Br. 3					Anao			22.559815	
Barangobong Br. 2					San Clemente			61.789124	
Bangot Br.					Camiling			124.092093	
Bandala Br.					Nampicuan			6.276587	
Barang Br.					Ramos			13.626820	
Baracbac Br.					Paniqui			96.287431	
Bayating Br.					Candalaria			70.669139	
Bayaoas Br.					Santa Ignacia			90.153311	
Binig Br.					Pura			11.777230	
Blad Br.					Mayantoc			347.819362	
Barbon Br. 1					Gerona			117.653036	
Barbon Br. # 2					Masinloc			33.390750	
Basti Br.					San Jose			38.115745	
Barbon Br. 3					Pulling			5.970262	
Atanod Br.					Casas			325.442429	
Adunot Br. 3					Botolan			39.413737	
Ambayek Br.					Bamban			72.675164	
Amaronan Br.					Porac			2.280346	
Adunot Br.					Name of Urban Center				
Acosta Br.					.....				Main City Centers
Aebayani Br. 2					.....			
Aebayani Br. 1					Forest			1303.286854	Natural Plantation, Bamboo
Balaanga Br. 2					Mangrove Forest			0.000000	
Balaanga Br. 1					Wooded & Natural Land			2131.594548	Shrub, Grassland, Barren, Marshland
Bafaga Br.					Annual Crop			2131.372395	
Balinguy Br.					Perennial Crop			26.344187	Agricultural Land
Asinan Br.					Pasture			0.000000	
Angayan Br.					Fish pond			7.907556	
Balabago Br.					Built-up Area			60.414010	
Bacabac Br.					Water body			45.552369	Inland Water
Carpio Br.					Simulated Flood Inundation	Area	sq. km.	444.845953	Total Area and Average Depth for River Basin
Cojuangco Br.					Average Depth		meter	2.124080	
Curva Br.					Forest			2.945776	
Carmen Br.					Mangrove Forest			0.000000	
Camiling Br.					Wooded & Natural Land			26.875512	
Carayan Br.					Annual Crop			339.775333	
Carito Br.					Perennial Crop			0.000000	
Dacol Br.					Pasture			0.000000	
Dumuloc Br.					Fish pond			6.447327	
Espiridato Br.					San Carlos City (City)			0.002103	
Gilas Br. 1					Tayug			0.000656	
Dulix Br.					Buhi			0.260402	Inundated area by land use except Water body, which is considered as permanently inundated.
Depalo Br. 1					Santa Maria			0.036013	
Depalo Br. 2					Asingan			0.048761	
Don Euserito Br.					Rosales			0.306341	
Bontoc Br.					Villasis			0.289699	
Bugon Br.					Alcala			1.614001	
Cababayangan Br.					Bavambang			0.049883	
Boneis Br.					Baurista			0.029912	
Braganza Br.					Mangatarem			0.031594	
Bueno Br.					San Carlos City (City)			42.493175	
Bolo Br.					Urdaneta (City)			2.165979	
Capugay Br.					Buguias			0.062689	
Cabawayasan Br. 2					Kabayan			0.560458	
Matuboy Br.					Bokod			8.213504	
Calvo Br.					Ilogon			3.553720	
Legasit Br.					San Manuel			17.316245	
Padilla Br.					San Nicolas			6.790538	
Olasan-Sanbari Br. 1					Tayug			14.751167	
Andulan Br.					Asingan			18.087766	
River	Ageno River	km.	231.687686	Length	Lingayen			24.491479	
	Ifigue DEO		74.892453		Labrador			4.354091	
District	Benguet II DEO		258.554844		Bugallon			15.265289	
	Nueva Vizcaya Sub-DEO		275.447357		Santa Maria			27.134952	Total Inundated Area by City/Municipality
	Benguet I DEO		849.902553		Villasis			34.980380	
	Bario City DEO		5.947751		Balungao			10.812110	
	Pangasinan III DEO		1134.593046		Rosales			8.536231	
	Nueva Ecija I DEO		154.218645		Aguilar			5.327533	
	Pangasinan II DEO		685.948293		Santo Tomas			7.333080	
	Pangasinan Sub-DEO		104.447545		Malasiqui			6.582503	
	Pangasinan I DEO		17.142889		Alcala			27.898282	
	Tarlac DEO		1570.587221		Urbiztondo			21.940180	
	Zambales DEO		174.393643		Mangatarem			45.077453	
			0.000664		Bavambang			45.153575	
	Tarlac Sub-DEO		398.107961		Bautista			20.843787	
	Pampanga II DEO		2.287900		San Clemente			13.339123	
					Camiling			17.889232	
	Baguio City (City)		4.971848		Santa Maria			0.107637	
	San Carlos City (City)		33.962137		Villasis			40708.461883	
	Urdaneta (City)		0.368948		Balungao			2207.132546	
	Tinoc (City)		175.007212		Rosales			14.355709	
			59.003545		Aguilar			49.320337	
	Buguias		100.163330		Santo Tomas			205.337612	
	Kabayan		137.163500		Malasiqui			433.536364	
	Kawankan		15.546166		Alcala			7596.376016	
	Atok		4.544193		Bavambang			862.398351	Proportion of City/Municipality Population Inside Inundated Area; Year 2000 Census Data
	Kayapa		153.463732		Bautista			7877.123035	
					San Clemente			14397.861915	
					Camiling			19029.879123	
					Santa Maria			1923.513737	
					Villasis			635.5138945	
					Bugallon			12454.759465	
					Santa Maria			24171.864220	

Data Items	Name/Description	Units	Data	Remarks
Inundated City/Municipality Population	Balungao	person	307529500	Proportion of City/Municipality Population Inside Inundated Area: Year 2000 Census Data
	Rosales		728140991	
	Aguilar		1683326965	
	Santa Tomas		8836373917	
	Malamiqui		5219325244	
	Alcala		25052657059	
	Urbiztondo		11167551466	
	Manatagat		8248173837	
	Bayambang		3237513247	
	Bautista		7712201126	
Inundation Average Depth by Land Use	San Clemente	meter	2530343989	
	Camiling		10322086702	
	Moncada		59353846	
	Forest		5526962	
	Mangrove Forest		0000000	
	Wooded & Natural Land		3462310	
	Annual Crop		2.08873	
	Perennial Crop		0000000	
	Pasture		0000000	
	Fish pond		1.822161	
Inundation Average Depth by Land Use	San Carlos City (City)	meter	0214144	
	Bugallon		1149313	
	Asingan		2280286	
	Santa Maria		0.801115	
	Aguilar		1.55651	
	Villas		2.824792	
	Rosales		1.089673	
	Alcala		1.277566	
	Bayambang		0.571102	
	Bautista		0.353133	

* The estimated inundation area and depth are preliminary results, and have not been used for screening/analysis as such, but with some modification based on expert judgements and so on (refer to Data Book C).

Data Item	Name/Description	Units	Date	Remarks
	Marugay-rugay Br. # 2			
	Mapangpang Br. (Muñoz)			
	Sala Busob Br.			
	Tactac Br.			
	Tabubuting Br.			
	Tanay Br.			
	Tanos Br. 2			
	Tambo Br.			
	Sulicuan Br. 2			
	Sulicuan Br. 1			
	Sto. Tomas Br.			
	Tibao Br.			
	Tin Br.			
	Sumacab Br.			
	Valdez Br.			
	Ungot Br.			
	Uligao Br. 2			
	Vega Br. 3			
	Vega Br. 2			
	Vega Br. 2			
	Diwa Br.			
	Tartaro Br.			
	Tarcian Br.			
	Uligao Br. 1			
	Tuboy Br.			
	Tigopas Br.			
	San Miguel Br.			
	San Juan Br. 3			
	San Juan Br. 2			
	Seasac-Buhay Br. 2			
	San Roque Br.			
	San Ricardo Br.			
	Salcerio Br. 2			
	Salcerio Br. 1			
	Salakot Br.			
	San Nicolas Br. 1			
	San Juan Br.			
	Salvacion Br.			
	Sn. Isidro Br.			
	Sn. Agustin Br.			
	Sibul Spring Br.			
	Sto. Cristo Br.			
	Sto. Rosa Br.			
	Sto. Niño Br.			
	Samill Br.			
	Sapang Buhay Br. 1			
	Sapang Alat Br.			
	Sibul Br.			
	Segum Br. 2			
	Segum Br. 1			
	Lingay Br. 1			
	Batac Br.			
	Batu Br.			
	Bato Ferry Br.			
	Bloco Br. 1			
	Bicos Br. 1			
	Bicos Br. 2			
	Bankerohan Br.			
	Bantuan Overhead Br.			
	Bambal-Centennial Br.			
	Bato Bato Br.			
	Barit Br.			
	Baracbac Br.			
	Cagdalan Br. 2			
	Cagdalan Br. 1			
	Cabitbitrugan Br.			
	Cabugao Br.			
	Calasagan Br.			
	Calahaya Br.			
Bridge	O de Leon Br. 1	Number km.	Concrete	Type
	Batas Br.			
	Bloco Br. 2			
	Cababao Br.			
	Caalanghangangan Br.			
	Conson Br. 2			
	Ace Br.			
	Anvatam Br. 2			
	Anyatam Br. 1			
	Asan Br.			
	Arimal Br. 2			
	Arimal Br. 1			
	Asmanan Br.			
	Ataya Br.			
	Abot Br.			
	Anupul Br.			
	Amucao Br. 2			
	Amucao Br. 1			
	Baliwae Br.			
	Baliwae-Candaba Br.			
	Baliente Br.			
	Baliente Br. 3			
	Baluarte Br. 2			
	Baluarte Br. 1			
	Bahay Pare Br.			
	Babas Br.			
	Atate Br.			
	Balbalungao Br. 2			
	Balbalungao Br. 1			
	Balete Br.			
	Labangan Br. 3			
	Dibulo Br.			
	Doris Josefa Br.			
	Labangan Br. 2			
	Dupinge Br.			
	Dansay Br.			
	Dinagat Br.			
	Labangan Br. 4			
	Dihabuén Br.			
	Del Pilar Br.			
	Gen. Ricarte Br.			
	Gen. Luna Br.			
	Jlog Bakod Br.			
	Impan Br.			
	Itog Balin Br.			
	Ft. Marasuyay Br.			
	Ese-esse Br.			
	Ganduz Br.			
	Labangan Br. 1			
	Garlang Br.			
	Cut-Cut Br. 2			
	Lumban Br.			
	Umantagan Br.			
	Labi Br.			
	Labangan Br. 7			
	Canupan Br. 2			
	Campilata Br.			
	Kamsaong Br.			
	Camp Aquino Br.			
	Campilatan Br. 1			
	Candaba Br.			
	Cinco Cinco Br.			
	Cinco-cinco Br. 2			
	Cut-Cut Br.			
	Cut-Cut Br. 1			
	Labangan Br. 5			
	Capitalan Br.			
	Campilatan Br. 3			
	Capitalan Br. 2			
	Labangan Br. 6			
	Gastellano Br.			

Data Item	Name/Description	Unit	Date	Remarks
Bridge	Linamuvac Br.	Number km.	Steel	Type
	Tuntunin Br.			
	Cabu Br.			
	Puncan Br. 2			
	San Luis Br.			
	Calauit Br.			
	San Agustin Br.			
	San Felipe Br.			
	Dindir Br.			
	Sulipan Br.			
River	Gen. Alejo Santos Br.	Timber	196.68	Length
	Cut-cut Br.			
	Sicasican Br.			
	Guyaasa Br. 2			
	Paranaig River			
	1. Nueva Vizcaya Sub-DEO			
District	280.98298	sq. km.	276.1215157	Area
	2. Nueva Ecija I DEO			
	3. Pangasinan III DEO			
	38.5013864			
	5.767889			
	5. Aurora DEO			
	179.20161			
	6. Tarlac DEO			
	277.786015			
	7. Nueva Ecija II DEO			
City/Municipality	253.104696	sq. km.	253.104696	Area
	8. Bulacan DEO			
	252.184228			
	9. Pampanga Sub-DEO			
	1555.924717			
	10. Bulacan II DEO			
	406.454205			
	11. Pampanga I DEO			
	45.026068			
	12. Pangasinan II DEO			
Inundated Area by Land Use	2.297874	sq. km.	31.214875	Area
	14. Quezon I DEO			
	3.013574			
	15. Quezon II DEO			
	2.925327			
	16. Rizal II DEO			
	17. San Jose Del Monte			
	167.614322			
	18. San Juan			
	132.525139			
Population	19. Caloocan	sq. km.	31.440841	Area
	20. Malabon			
	21. Tarlac City			
	22. Cabanatuan City			
	23. Gapan City			
	24. San Jose Del Monte			
	25. San Juan			
	26. Caloocan			
	27. Marikina			
	28. Pasig			
Inundated Area by Land Use	29. Mandaluyong	sq. km.	1.00	Area
	30. Makati			
	31. Quezon City			
	32. Manila			
	33. Navotas			
	34. Taguig			
	35. Paranaig			
	36. Pasig			
	37. Mandaluyong			
	38. Makati			
Population	39. Mandaluyong	sq. km.	1.00	Area
	40. Quezon City			
	41. Mandaluyong			
	42. Makati			
	43. Pasig			
	44. Taguig			
	45. Mandaluyong			
	46. Makati			
	47. Pasig			
	48. Taguig			
Population	49. Mandaluyong	sq. km.	1.00	Area
	50. Makati			
	51. Pasig			
	52. Taguig			
	53. Mandaluyong			
	54. Makati			
	55. Pasig			
	56. Taguig			
	57. Mandaluyong			
	58. Makati			
Population	59. Mandaluyong	sq. km.	1.00	Area
	60. Makati			
	61. Pasig			
	62. Taguig			
	63. Mandaluyong			
	64. Makati			
	65. Pasig			
	66. Taguig			
	67. Mandaluyong			
	68. Makati			
Population	69. Mandaluyong	sq. km.	1.00	Area
	70. Makati			
	71. Pasig			
	72. Taguig			
	73. Mandaluyong			
	74. Makati			
	75. Pasig			
	76. Taguig			
	77. Mandaluyong			
	78. Makati			
Population	79. Mandaluyong	sq. km.	1.00	Area
	80. Makati			
	81. Pasig			
	82. Taguig			
	83. Mandaluyong			
	84. Makati			
	85. Pasig			
	86. Taguig			
	87. Mandaluyong			
	88. Makati			
Population	89. Mandaluyong	sq. km.	1.00	Area
	90. Makati			
	91. Pasig			
	92. Taguig			
	93. Mandaluyong			
	94. Makati			
	95. Pasig			
	96. Taguig			
	97. Mandaluyong			
	98. Makati			
Population	99. Mandaluyong	sq. km.	1.00	Area
	100. Makati			
	101. Pasig			
	102. Taguig			
	103. Mandaluyong			
	104. Makati			
	105. Pasig			
	106. Taguig			
	107. Mandaluyong			
	108. Makati			
Population	109. Mandaluyong	sq. km.	1.00	Area
	110. Makati			
	111. Pasig			
	112. Taguig			
	113. Mandaluyong			
	114. Makati			
	115. Pasig			
	116. Taguig			
	117. Mandaluyong			
	118. Makati			
Population	119. Mandaluyong	sq. km.	1.00	Area
	120. Makati			
	121. Pasig			
	122. Taguig			
	123. Mandaluyong			
	124. Makati			
	125. Pasig			
	126. Taguig			
	127. Mandaluyong			
	128. Makati			
Population	129. Mandaluyong	sq. km.	1.00	Area
	130. Makati			
	131. Pasig			
	132. Taguig			
	133. Mandaluyong			
	134. Makati			
	135. Pasig			
	136. Taguig			
	137. Mandaluyong			
	138. Makati			
Population	139. Mandaluyong	sq. km.	1.00	Area
	140. Makati			
	141. Pasig			
	142. Taguig			
	143. Mandaluyong			
	144. Makati			
	145. Pasig			
	146. Taguig			
	147. Mandaluyong			
	148. Makati			
Population	149. Mandaluyong	sq. km.	1.00	Area
	150. Makati			
	151. Pasig			
	152. Taguig			
	153. Mandaluyong			
	154. Makati			
	155. Pasig			
	156. Taguig			
	157. Mandaluyong			
	158. Makati			
Population	159. Mandaluyong	sq. km.	1.00	Area
	160. Makati			
	161. Pasig			
	162. Taguig			
	163. Mandaluyong			
	164. Makati			
	165. Pasig			
	166. Taguig			
	167. Mandaluyong			
	168. Makati			
Population	169. Mandaluyong	sq. km.	1.00	Area
	170. Makati			
	171. Pasig			
	172. Taguig			
	173. Mandaluyong			
	174. Makati			
	175. Pasig			
	176. Taguig			
	177. Mandaluyong			
	178. Makati			
Population	179. Mandaluyong	sq. km.	1.00	Area
	180. Makati			
	181. Pasig			
	182. Taguig			
	183. Mandaluyong			

Data Items	Name/Description	Units	Data	Remarks
River	Meycauayan River	km	40.139030	Length
	Rizal II DEO		15.462378	
	Bulacan II DEO		67.134229	
District	9906	sq. km.	79.209886	Area
	Metro Manila III DEO		77.772175	
	Malabon-Novata Sub-DEO		7.409873	
	San Jose Del Monte (City)		14.901793	
	Quezon City (City)		91.758453	
	Kalekulan City (City)		44.686333	
	City of Valenzuela (City)		43.259043	
	Meycauayan (City)		12.521140	
	City of Malabon (City)		10.129549	
	City of Marikina (City)		1.265842	Area
	City of Manila (City)		0.139078	
	Rodriguez		7.440807	
	Santa Maria		5.175026	
	Marilao		8.189616	
	Obando		7.303264	
	San Mateo		0.115529	
Name of Urban Center	.....	name		Main City Centers
	Forest		16.792039	Natural Plantation, Bamboo
	Mangrove Forest		0.000000	
	Wooded & Natural Land		41.615782	Shrub, Grassland, Barren, Marshland
Land Use of River Basin	Annual Crop	Area, sq. km.	43.672777	Agricultural Land
	Perennial Crop		0.000000	
	Pasture		0.000000	
	Fish pond		6.588592	
	Built-up Area		135.225856	
	Water body		3.154465	Inland Water
Simulated Flood Inundation	Area	sq. km.	13.459581	Total Area and Average Depth for River Basin
	Average Depth	meter	1.920633	
	Forest		0.000000	
	Mangrove Forest		0.000000	
	Wooded & Natural Land		0.531643	
	Annual Crop		2.397159	Inundated area by land use except Water body, which is considered as permanently inundated.
	Perennial Crop		0.000000	
	Pasture		0.000000	
	Fish pond		3.838543	
Inundated Area by Land Use	Fish pond	sq. km.	0.774186	
	Kalookan City		1.391555	
	City of Valenzuela		0.116211	
	Quezon City		0.499592	
	Meycauayan (City)		1.775346	
	Marilao		0.490929	
	Obando		0.627770	
	Quezon City		0.568523	
Inundated Area by Administrative Boundary	San Jose Del Monte (City)		1.393059	Total Inundated Area by City/Municipality
	Kalookan City		3.948254	
	City of Valenzuela		0.980586	
	Meycauayan (City)		2.187188	
	Marilao		3.754201	
	Obando		8375.706146	
	Quezon City		1092.132652	
Inundated City/Municipality Population	San Jose Del Monte (City)	person	38934.610228	Proportion of City/Municipality Population Inside Inundated Area; Year 2000 Census Data
	Kalookan City		42171.298691	
	City of Valenzuela		12739.776659	
	Meycauayan (City)		8783.745749	
	Marilao		12426.406880	
	Obando		1.403526	

* The estimated inundation area and depth are preliminary results, and have not been used for screening/analysis as such, but with some modification based on expert judgements and so on (refer to Data Book C).

Name of Basin:	Upper Markings			
Data Items	Name/Description	Units	Data	Remarks
River Basin	Area	sq. km.	646.306474	
	Perimeter	km.	217.997701	
Population	Year 2000		4018197	Census Population
	Year 2005	person	4739148	Projected Population
Road	10th Ave East	km.	1.208357	Length
	10th Ave West		0.226638	
	11th St		0.480891	
	13th St		0.282275	
	16th St		0.144953	
	19th St		0.221648	
	20th St		0.134933	
	25th St		0.550454	
	2nd Street		1.210713	
	7th Ave East		0.793714	
	7th Ave West		0.389312	
	8th Street		0.869920	
	A Bautista		9.642728	
	A Bonifacio Ave		1.026443	
	A Francisco St		0.751823	
	A Linao St		5.422524	
	A Mabini St		1.186365	
	A Macario St		1.186374	
	A Rivera St		1.186374	
	A Sison (Aduna)		0.538933	
	Afridina Circle Parking Lot		0.580781	
	AH Lacson		4.377824	
	Alfonso Mendoza		1.748393	
	Algeciras		2.097260	
	Alvarez St		0.104827	
	Amang Rodriguez Rd		3.598013	
	Anda St		0.747589	
	Andrew Ave		2.673404	
	Antonio Arnaiz Ave		1.679159	
	AP Reyes		0.750637	
	Arellano Ave		1.875056	
	Arlegui St		1.180050	
	Arroceros St		0.852587	
	Atlanta St		0.304937	
	Aurora Avenue		0.964899	
	Aurora Blvd		16.576408	
	Avala Bridge		1.163682	
	B Serrano St		1.415036	
	Balagbag Rd		0.254109	

Data Items	Name/Description	Units	Data	Remarks
	Batasan Rd		2.814266	
	Bayani St		1.151958	
	Beata St		0.822116	
	Blumentritt Market Rd		0.137390	
	Blumentritt St (L7)		2.435513	
	Blumentritt St (Pasig Market)		0.088182	
	Boni Ave		6.126632	
	Bonifacio Drive		2.480522	
	Bonifacio Drive Interchange		0.898705	
	Bonifacio Monument Circle		0.207442	
	Bonny Serrano		2.399525	
	Buenos Aires St		1.865698	
	Bureau of Post Rd		0.455194	
	Bustillos St		0.148903	
	C-2 Road		1.376250	
	C-3 Road		7.906055	
	C-5 Road		15.674379	
	C Aguila St		0.576967	
	C Palanca St		1.007669	
	Cabilio St		0.954431	
	Certeza St		0.681027	
	Chimborazo St		0.670946	
	CM Recto		6.522113	
	Commonwealth Ave		12.523441	
	Conception St		0.548801	
	Cordillera St		1.639365	
	Daunpan St		1.592501	
	Dapitan St		3.270498	
	Dasmariñas St		0.432989	
	Del Pan Service Rd		0.167857	
	Del Pan St		0.233862	
	Delpan St		0.508587	
	Dian Road		1.486336	
	Dimasalang St		2.428634	
	Domestic Rd		1.175738	
	Dr Garcia St		0.346189	
	Dr Sixto Antonio		3.546960	
	E Quintos St		2.240089	
	E Rodriguez		6.081689	
	E Rodriguez Jr Ave		6.105780	
	Electrical Rd		1.066469	
	Epifanio Delos Santos Ave		24.691129	
	EDSA		4.117180	
	Espana Blvd		0.894342	
	Estrella St		0.510575	
	Eusebio St		0.251013	
	F Calixton St (LZ)		0.789254	
	F Cayco St		0.418157	
	F Torres St (NCR)		0.518002	
	Finance St		3.818737	
	Fort Bonifacio-Nichols Field		0.869227	
	G Del Pilar		1.581431	
	G Tuazon St		3.550671	
	Gen Kalantong-Blumentritt-Jolo Rd		3.550671	
	Gen Luna Street		2.545259	
	Gen Santos Ave		1.641194	
	Gil Puyat Ave		10.713379	
	Government Center Rd		0.108724	
	H Lopez Blvd		1.901196	
	Hanaya St		0.378306	
	Havana Ext		0.309699	
	Havana Rd		0.364381	
	Herbosa St		0.545884	
	Hermosa St		0.629402	
	J Fajardo St		0.979987	
	J Posadas St		0.364127	
	J Rizal Ave		0.847870	
	JA Santos Ave		0.510710	
	Jesus Ext		0.548749	
	JL Escoda St		0.236335	
	Jones Bridge		0.681528	
	Jones Bridge Service Rd		0.100450	
	Jose Syquia St		0.632021	
	Josefa Llanes Escoda		0.610637	
	jP Laurel St		1.748266	
	JP Rizal		4.962841	
	Juan Luna St		4.327450	
	Kalakal		0.172277	
	Kalayaan Ave		3.344094	
	Kalayaan Ave Ext		6.496391	
	Katibbak Drive		0.277685	
	Katipunan Ave (C-5)		10.248817	
	L Rivera		0.436973	
	Laborde St		0.555994	
	Lamayan St		0.775804	
	Laon-Laan St		1.829040	
	Laura St		0.505093	
	Legarda St		1.953050	
	Legislative Parking Lot		0.228780	
	Leon Guinto St		0.510624	
	Lerma St		0.510514	
	Liliw-Sing-mga Bayani		2.849931	
	Lopez-Jesua		1.639744	
	M Adriatico		2.183747	
	M Dela Fuente		2.248077	
	M Ermawar St		0.793335	
	M Roxas Blvd Ext Service Rd		0.334032	
	M Roxas Jr Bridge		2.915361	
	M Roxas Service Rd		0.650174	
	M Roxas St		0.528096	
	Ma Clara		2.785932	
	MacArthur H-way		0.825110	
	Madrid St		0.083559	
	Magallanes Drive		0.414998	
	Makati Ave		0.770979	
	Malacañang Rd Network		0.463091	
	Malacañang Park Rd		1.189225	
	Manila East Rd (Rosario-Cainta Rd)		5.077801	
	Manuel L Carreton St		0.751088	
	Marcos Highway		7.063816	
	Marcos Rd		0.075279	
	Maria Orosa St		0.839681	
	Mariana-Maria Luisa Rd		5.297423	
	McArthur Bridge		1.489547	
	McArthur Bridge Service Rd		0.223498	
	McKinley-Pateros Rd		3.095605	
	McKinley Rd		2.324905	
	Mendiola Ext		0.278196	
	Mendiola St		0.844495	
	MH Del Pilar		1.943304	
	Moriones		2.092580	
	Muelle de Magallanes		0.565334	
	Muelle del Rio St		0.229719	
	Muelle S Francisco		0.230973	
	Muelle S Francisco		1.247698	
	Mulle del Banco National		0.447530	
	Mulle dela Industria		1.603911	
	Muralla St		1.343723	
	MWSS Rd		0.074399	

Data Items	Name/Description	Units	Date	Remarks
	Nagtahan		1.748991	
	Nagtahan Bridge		0.465544	
	Narthan Bridge Service Rd		0.349612	
	NAIA Rd (MIA Road)		4.114034	
	New Panaderos St		1.368542	
	Nicanor Reyes St		0.714187	
	Nicanor Roxas		1.430917	
	Nichols Field Rd		1.191292	
	Ninoy Aquino Ave		3.531238	
	North Antipolo St		3.522419	
	North Bay Blvd		2.380894	
	Old Panaderos St		0.783793	
	Old Sta Mesa		0.936290	
	Onyx St		1.166789	
	Oreoguita St		2.090887	
	Ortigas Ave		11.406531	
	Osmena Ave		3.827707	
	P Burgos Street		3.734162	
	P Casal St		1.144272	
	P Florentino		1.000448	
	P Gomez St		0.053257	
	P Octavio St		2.057110	
	P Tauro St		1.645502	
	Paco Park Rd		0.455333	
	Padre Faustino		1.085169	
	Palacio St		0.136995	
	Palok St		0.632688	
	Pampanga St		0.110590	
	Paranaque-Sucat Rd		10.567195	
	Pasig-Pateros Rd		1.178141	
	Pasig-Santolan Rd		2.510727	
	Pasig Blvd		3.729765	
	Pasig Diversion Rd 1		0.109532	
	Pasig Diversion Rd 2		0.463343	
	Pasig Line		0.820071	
	Pasong Tamo		3.705659	
	Pasong Tamo Ext		2.089272	
	Pateros-McKinley Rd		0.347527	
	Paz Mendoza-Guanzon (Otis)		2.081328	
	Pedro Gil (Herran)		3.617680	
	Perez St		0.571326	
	PGH Road		0.764907	
	Pioneer St		1.536677	
	Plaza Calderon		0.038993	
	Plaza Dilao		0.191827	
	Plaza Espana		0.056547	
	Plaza Lacson		0.108848	
	Plaza Lawton Rd		0.271993	
	Plaza Mendiola		0.107764	
	Plaza Ruiz		0.008001	
	Plaza Sta Cruz		0.141458	
	PPTA Rd		9.462332	
	Pres Quirino Ave		7.749540	
	Pres Quirino Avenue		1.562443	
	Q Paredes St		0.390588	
	Quezon Blvd (L7)		2.593700	
	Quezon Blvd Service Rd		1.219907	
	Quezon Bridge Rd		0.802245	
	Quiricada St		1.216347	
	R-10		3.437894	
	R-10 Road		2.458718	
Road	R Del Pan St	km.	0.593714	Length
	R Magsaysay Blvd		3.191570	
	Railroad St		0.884217	
	Ramon Magsaysay Blvd Service Rd		1.051665	
	Reina Regente		0.713639	
	Remedios St		0.846609	
	Reposo St		0.016001	
	Retro St		0.222863	
	Rizal Ave Ext		4.803047	
	Road Around Capitol Bldg		0.753949	
	Road Around Pasig Market Rd		0.279392	
	Alcalde Jose St		5.482421	
	Rodriguez-San Jose Rd		1.145702	
	Romualdez St		0.153128	
	Rotonda-Pariancillo Rd		0.459649	
	Roxas Blvd-East Service Rd		2.472576	
	Roxas Boulevard		5.764488	
	Samson Rd		1.349701	
	SH Loyola		1.760469	
	Shaw Blvd		4.243235	
	Singalong St		1.663306	
	Sn Andres St		1.220159	
	Sn Fernando		0.476835	
	Sn Gregorio St		0.921279	
	Sn Joaquin-Buting Rd		1.100223	
	Sn Lazaro Hospital Compound Road Network		0.645794	
	Sn Marcelino St		2.404198	
	Sn Mateo-Rodriguez Rd		13.660517	
	Sn Nicolas-Sagad Rd		1.586892	
	Sn Rafael St		0.431137	
	Solis St		1.191248	
	South Antipolo		0.355924	
	South Blvd		0.818014	
	South Drive		0.803546	
	South Super H-way		20.010468	
	South Super H-way Service		10.182671	
	Sta Lucia		0.703351	
	Sto Cristo		0.687157	
	Sumulong Highway		6.379742	
	T Earnshaw		0.455494	
	T Mapua St		1.801354	
	Taft Ave		6.817595	
	Taguig Diversion Rd		1.596146	
	Tanay-Sampaloc Rd		17.329466	
	Tayuman		1.599811	
	Tejeron St		0.752465	
	TM Kalaw St		1.684885	
	United Nations Ave		1.884315	
	Ususan Diversion Rd		1.340169	
	V Del Fierro		0.403771	
	V Fugoso		0.526287	
	V Mapa St		1.460099	
	Valenzuela St		0.914256	
	Velasquez		1.199461	
	VG Cruz		2.055577	
	Victoria St		0.689833	
	Vitas St		1.442608	
	Vito Cruz Ext.		1.380477	
	Zamora St		0.833380	
	Zaragoza St		0.308434	
	Zobel Roxas St		1.117517	

Data Items	Name/Description	Units	Date	Remarks
	Pasong Tamo Br.			
	Pateros Br.			
	Pedro Gil Br. 1			
	P. Quirino Br. 1			
	P. Quirino Br. 2			
	P. Quirino Br. 3			
	Pedro Gil Br. 2			
	Pres. Quirino Br. 3			
	Quiricada Br.			
	R-10 Br. 2			
	Pioneer Br.			
	Pres. Quirino Br. 1			
	Pres. Quirino Br. 2			
	Nagtahan Br.			
	Nichols Br.			
	Nichols Flyover			
	Moriones Br.			
	Muelle del Banco Nacional Br.			
	Muelle dela Industria Br.			
	No Name Br.			
	Otis Br.			
	P. Casal Br.			
	P. P. Antonio Br.			
	Olas Br.			
	Onix Br.			
	Ortigas Br.			
	P. 10 Br.			
	Sto. Niño Br.			
	Sto. Rosario Br.			
	T. Mapua Br.			
	San Marcelino Br.			
	South Superhighway Br. 1			
	South Superhighway Br. 2			
	Third Br.			
	Viejo Br.			
	Zamora Br.			
	Zaniga Br.			
	United Nation Br. 1			
	Unnamed Br.			
	Vargas Br.			
	Reina Regente Br.			
	Rizal Ave. Br.			
	Rizal Ave. Extension Br.			
	R. del Pan Br.			
	R. Magsaysay Br. 1			
	R. Magsaysay Br. 2			
	Rodriguez Br.			
	San Francisco Br.			
	San Gregorio Br.			
	San Jose Br.			
	Romualdez Br.			
	Roxario Br.			
	San Andres Br.			
	Mendiola Br.			
	Casili Br.			
	Claro M. Recto Br. 1			
	Claro M. Recto Br. 2			
	C. Palanca Br.			
	C.P. Garcia Br.			
	Calatagan Br.			
	Daan Pasig Br.			
	Dimasalang Br.			
	Fourth Br.			
	Guadalupe Br.			
	Dasmariñas Br. 1			
	Dasmariñas Br. 2			
	Delpan Br.			
	Antipolo Br.			
	Arieguet Br.			
	Arieguet Br. 2			
	10th Ave. Br.			
	Algeciras Br.			
	Amihan Br.			
	Bambang Br.			
	C-3 Br.			
	C-5 Br.			
	C. Aguilera Br.			
	Baranica Viaduct(Flyover)			
	Buting Br.			
	C-2 Br.			
	H Lopez Br.			
	Magallanes Flyover (Interchange) Cubao-Alabang Lane			
	Magallanes Flyover (Interchange) Manila-Alabang Lane			
	Magallanes Flyover (Interchange) Manila-Alabang Lane			
	Liwasang Bonifacio West Overpass (Flyover)			
	M. Roxas Br.			
	M. Roxas Jr. Br.			
	Malibay Br.			
	Marikina Br.			
	Mc Arthur Br.			
	McKinley Br.			
	Mango Br.			
	Marala Br.			
	Marcos Br.			
	Jones Br.			
	Juan Luna Br. 1			
	Juan Luna Br. 3			
	Hanava Br.			
	J. P. Laurel Br. 3			
	Jesus Br.			
	Laura Br.			
	Legarda Br.			
	Liwasang Bonifacio East Overpass (Flyover)			
	Lagusnilad Br.			
	Kalayaan Br.			
	Katipunan Flyover			
	Quezon Br.			
	Ayala Br.			
River	Upper Marikina River	km.	86.967487	Length
	Rizal II DEO		225.855815	
	Rizal I DEO		225.855800	
	900 Br.		78.370303	
	Metro Manila I DEO		109.689332	
	Metro Manila II DEO		0.737034	
	North Manila DEO		20.513838	
	South Manila DEO		17.664634	
	Metro Manila III DEO		43.549655	
		sq. km.	16.068567	Area

Data Items	Name/Description	Units	Data	Remarks
City/Municipality	Quezon City (City)	sq. km.	69.966271	
	Antipolo (City)		203.237586	
	City of Marikina (City)		27.769635	
	City of Manila (City)		37.662512	
	City of Pasig (City)		37.85157	
	City of Makati (City)		29.618877	
	Pasay City (City)		9.743091	
	Taguig (City)		37.489874	
	City of Parañaque (City)		18.501135	
	Rodriguez		120.678765	Area
	San Mateo		50.750364	
	Cainta		24.060995	
	Tanay		83.472415	
	Teresa		0.268197	
	Morong		0.380248	
	Baras		1.734102	
	Pateros		2.204611	
	Pila		0.485247	
Name of Urban Center	.....	name		Main City Centers
			
Land Use of River Basin	Forest	Area, sq. km.	58.388705	Natural, Plantation, Bamboo
	Mangrove Forest		0.000000	
	Wooded & Natural Land		405.484322	Shrub, Grassland, Barren, Marshland
	Annual Crop		4.617856	Agricultural Land
	Perennial Crop		0.000000	
	Pasture		0.000000	
	Fish pond		0.000000	
	Built-up Area		173.162769	
	Water body		4.652724	Inland Water
Simulated Flood Inundation	Area	sq. km.	27.367735	Total Area and Average Depth for River Basin
	Average Depth	meter	2.965180	
Inundated Area by Land Use	Forest	sq. km.	0.000000	
	Mangrove Forest		0.000000	
	Wooded & Natural Land		10.044978	Inundated area by land which is considered as permanently inundated.
	Annual Crop		0.000000	
	Perennial Crop		0.000000	
	Pasture		0.000000	
	Fish pond		0.000000	
	City of Marikina (City)		2.312275	
	City of Pasig (City)		3.244867	
Inundated Area by Administrative Boundary	Quezon City (City)	sq. km.	1.534407	
	Rodriguez		0.228875	
	San Mateo		1.561242	
	Antipolo (City)		2.136214	
	City of Marikina (City)		4.454892	
	City of Pasig (City)		9.970914	
	Quezon City (City)		1.688869	Total Inundated Area by City/Municipality
Inundated City/Municipality Population	Rodriguez	person	1.444339	
	San Mateo		5.59213	
	Tanay		1.336813	
	Baras		0.472618	
	Antipolo (City)		3067.603718	Proportion of City/Municipality Population Inside Inundated Area; Year 2000 Census Data
	City of Marikina (City)		61922.998241	
	City of Pasig (City)		122562.478025	
	Quezon City (City)		22532.885587	
Inundation Average Depth by Land Use	Rodriguez	meter	716.593777	
	San Mateo		14933.501742	
	Tanay		450.506118	
	Baras		492.468065	
	Forest		0.000000	
	Mangrove Forest		0.000000	
	Wooded & Natural Land		3.261518	
	Annual Crop		0.000000	
	Perennial Crop		0.000000	
	Pasture		0.000000	
Name of Basin: East Mangahan	Fish pond		0.000000	
	City of Marikina (City)		4.362777	
	City of Pasig (City)		2.998010	
	Quezon City (City)		3.085990	
	Rodriguez		4.004022	
	San Mateo		2.990727	
	Antipolo (City)		0.16	
	City of Marikina (City)		0.16	
	City of Pasig (City)		0.16	
	Quezon City (City)		0.16	

* The estimated inundation area and depth are preliminary results, and have not been used for screening/analysis as such, but with some modification based on expert judgements and so on (refer to Data Book C).

Data Items	Name/Description	Units	Data	Remarks
River Basin	Area	sq. km.	97.20	
	Perimeter	km.	49.88	
	Year 2000	person	276594	Census Population
Population	Year 2005	person	316430	Projected Population
Road	A Bonifacio Ave	km.	2.09	
	Amang Rodriguez Rd		3.60	
	Dela Paz St		1.80	
	Imelda Ave		6.76	
	JP Rizal St		1.99	
	Manila East Rd (Rosario–Cainta Rd)		5.08	
	Marcos Highway		7.08	
	Marikina–Infanta Rd		28.29	
	Marikina–San Mateo Rd		4.83	
	Marikina–Victoria Valley–Antipolo Rd		10.48	
Bridge	Marikina Div Rd		2.62	
	Marikina–Santolan Rd		2.51	
	Road Around Marikina Public Market		0.16	
	Sn Mateo–Rodriguez Rd		13.33	
	Sumulong H-way		1.29	
	Sumulong Highway		6.38	
	Nangka Br.		Number	Concrete Type
	Mangahan River		36.06	Length
	Metro Manila I DEO		14.364486	
District	Rizal I DEO	sq. km.	72.571903	Area
City/Municipality	City of Marikina	sq. km.	0.777217	
	City of Pasig		17.459847	
	Antipolo (City)		11.299152	
	Cainta		20.813399	
	Taytay		26.816509	
	Angono		9.768820	
Name of Urban Center	.....	name		Main City Centers
			
Land Use of River Basin	Forest	Area, sq. km.	0.000000	Natural, Plantation, Bamboo
	Mangrove Forest		0.000000	
	Wooded & Natural Land		1.601393	Shrub, Grassland, Barren, Marshland
	Annual Crop		6.039622	Agricultural Land
	Perennial Crop		0.000000	
	Pasture		0.000000	
	Fish pond		0.000000	
	Built-up Area		89.560106	
	Water body		0.001698	Inland Water

Data Items	Name/Description	Units	Data	Remarks
Simulated Flood Inundation	Area	sq. km.	7.753081	Total Area and Average Depth for River Basin
	Average Depth	meter	1.982595	
Inundated Area by Land Use	Forest	sq. km.	0.000000	
	Mangrove Forest		0.000000	
	Wooded & Natural Land		0.000000	Inundated area by land except water body, which is considered as permanently inundated.
	Annual Crop		0.000000	
	Perennial Crop		0.000000	
	Pasture		0.000000	
	Fish pond		0.000000	
	City of Marikina		1.349656	
	City of Pasig		6.389081	
Inundated City/Municipality Population	Quezon City	sq. km.	0.012645	
	City of Marikina		1.349656	Total Inundated Area by City/Municipality
	City of Pasig		6.390779	
Inundation Average Depth by Land Use	Quezon City	person	0.012645	
	City of Marikina		18760.223715	Proportion of City/Municipality Population Inside Inundated Area; Year 2000 Census Data
	City of Pasig		78555.459605	
Name of Basin: San Juan	Quezon City	person	168.710022	
	Forest		0.000000	
Road	Mangrove Forest	km.	0.000000	
	Wooded & Natural Land		0.000000	
	Annual Crop		0.000000	
	Perennial Crop		0.000000	
	Pasture		0.000000	
	Fish pond		0.000000	
	City of Marikina		2.534457	
	City of Pasig		1.363847	
	Quezon City		1.245359	
	Forest		0.000000	

* The estimated inundation area and depth are preliminary results, and have not been used for screening/analysis as such, but with some modification based on expert judgements and so on (refer to Data Book C).

Data Items	Name/Description	Units	Date	Remarks
Road	Ortigas Ave		11.41	
	Osmeña Ave		3.83	
	P Guevarra-J Vargas St		1.58	
	P Guevarra-J Vargas St		0.58	
	P Sanchez St		0.15	
	P Tuazon Blvd		1.65	
	Pinaglabanan		0.86	
	Psychopathic Hospital Rd		2.26	
	Quirino H-way		13.97	
	R Massayay Blvd		3.64	
	Reposo St		0.28	
	Road 1		0.88	
	Roosevelt Ave		2.87	
	San Juan-Santolan Rd		2.16	
	Santol		0.85	
	Scour Yhardaloza		0.82	
	Scrl Alcaraz		1.51	
	Scrl Lozano		1.29	
	Scrl Esquerra (Bohol Ave)		1.22	
	Scrl Rivera (Tagaytay)		2.52	
	Shaw Blvd		4.24	
	South Ave (Timog Ave)		2.21	
	Sto Domingo		2.19	
	T Geron St		0.41	
	Tandang Sora Ave		8.06	
	Times St		1.28	
	Tomas Morato		1.71	
	University Ave		0.57	
	V Luna Rd		1.38	
	V Mapa St		1.46	
	Visayas Ave		5.03	
	Welfare Ville Rd		0.41	
	West Ave		2.08	
Bridge	New Panaderos Br.			
	Mariable Br.			
	No Name Br.			
	New Panaderos Br. 2			
	Maligaya Br.			
	Lazarian Br. 1			
	Kamias Flyover			
	Lambingan Br.			
	Lazarian Br. 2			
	P. Tuazon Underpass			
	Santolan Flyover			
	Santolan Br.			
	T. Geron Br.			
	Sevilla Br.			
	San Juan Br.			
	Pasong Tamo Br. 2			
	Pasong Tamo Br. 1			
	Quizon Ave. Flyover			
	Quizon Ave. Br.			
River	Culiat Br. 3			
	Culiat Br.			
	Dario Br. 1			
	Culiat II			
	Correctional Br.			
	Aurora - E. Rodriguez Interchange			
	Aquino Br.			
	Cloverleaf Br.			
	Banlat Br.			
	Granada Br.			
District	Ermittorio Br. 1			
	J. Vargas Br.			
	Interchange Br.			
	Kalentong Br.			
	Del Monte Br.			
City/Municipality	Dario Br. 2			
	Ermittorio Br. 2			
	Ermittorio Br.			
	Cubao Underpass			
	San Juan River	km.	16.16	Length
Land Use of River Basin	9906		61.188906	
	North Manila DEO	sq. km.	2.548483	
	Metro Manila I DEO		21.775770	Area
	South Manila DEO		0.778556	
	Metro Manila II DEO		1.662872	
Inundated Area by Land Use	Quezon City		52.187188	
	City of Manila		5.897853	
	San Juan (City)		6.878056	Area
	City of Mandaluyong		13.520109	
	City of Pasig		3.064248	
Inundated Area by Administrative Boundary	City of Makati		6.407134	
	.....	name		Main City Centers
			
	Forest		0.000000	Natural, Plantation, Bamboo
	Mangrove Forest		0.000000	
Simulated Flood Inundation	Wooded & Natural Land		1.146476	Shrub, Grassland, Barren, Marshland
	Annual Crop	Area, sq. km.	0.000000	
	Perennial Crop		0.000000	Agricultural Land
	Pasture		0.000000	
	Fish pond		0.000000	
Inundated Area by City/Municipality Population	Built-up Area		97.216870	
	Water body		0.030505	Inland Water
	Area	sq. km.		Total Area and Average Depth for River Basin
	Average Depth	meter		
	Forest			Inundated area by land use except Water body, which is considered as permanently inundated.
Inundated Area by City/Municipality Population	Mangrove Forest			
	Wooded & Natural Land			
	Annual Crop			
	Perennial Crop			
	Pasture			
Inundation Average Depth by Land Use	Fish pond			
	City - Built-up Area			
	City - Built-up Area			
	Municipality - Built-up Area			
	Municipality - Built-up Area			
Inundated Area by City/Municipality Population	city - total			
	city - total			
	Municipality - total			
	Municipality - total			
	city -	person		Proportion of City/Municipality Population Inside Inundated Area; Year 2000 Census Data

Data Items	Name/Description	Units	Date	Remarks
Forest				
Mangrove Forest				
Wooded & Natural Land				
Annual Crop				
Perennial Crop				
Pasture				
Fish pond				
City.....Built-up Area				
City.....Built-up Area				
Municipality.....Built-up Area				
Municipality.....Built-up Area				

* The estimated inundation area and depth are preliminary results, and have not been used for screening/analysis as such, but with some modification based on expert judgements and so on (refer to Data Book C).

Name of Basin:	Jaro-Aganan	Units	Date	Remarks
River Basin	Area	sq. km.	439.181290	
Population	Perimeter	km.	117.158337	
	Year 2000	person	377396	Census Population
	Year 2005		216480	Projected Population
Road	Airport Spur Rd		1.363968	
	Blumentritt St (PN)		0.384415	
	Cabatuan-New Lucena-Banga-Bante Rd		8.661237	
	I. De La Rama St		0.858215	
	Iloilo-Capiz Rd (New Route)		6.044936	
	Iloilo-Capiz Rd (Old Route)		68.092311	
	Iloilo-Capiz Rd (Pavia)		1.909451	
	Iloilo-Jaro Diversion Rd		6.132556	
	Iloilo Airport Direct Rd		1.744195	
	Jaro Spur Rd		0.578768	
Bridge	Jct Bancal-Leon-Antique Bdry Rd	km.	28.312929	Length
	La Paz-Jaro Rd		2.219368	
	La Paz-La Grana Rd		1.164848	
	La Paz-Lapuz Rd		0.938556	
	Mandurria-Jaro Rd		1.645630	
	Mandurria-Sn Miguel-Almodian-Maasin-Cabatuan		30.065455	
	Muelle Loney Marginal Wharf		2.987808	
	North Marginal Wharf Rd		0.567627	
	Oton-Mambog-Cabolo-an-Abilay-Sn Jose Rd		0.954643	
	Sta Barbara-Sn By-Pass Rd		1.675234	
Bridge	Bagumbayan Br.		Bailey	
	Jaro Br.			
	Imelda Marcos Br.			
	Dungan Br. 5			
	Pacuan Br.			
	Tigom Br.			
	Tamban Br.			
	Siwalo Br.			
	Dungan Br. 3			
	Buntatala Br.			
River	Balic Br.			
	Aganan Br.			
	Dungan Br. 1			
	Dungan Br. 2			
	Dungan Br.			
	Balu Br.			
	Jaro-Aganan River	km.	63.194066	Length
	Iloilo II DEO		182.151261	
	Antique DEO		0.400372	
	Iloilo IV DEO		216.229919	
District	Iloilo City DEO		37.193721	
	Iloilo I DEO		2.541139	
	Iloilo City (City)		38.093631	
	Janiuy		0.183272	
	Maasin		131.113249	
	San Remigio		0.250918	
	Almodia		84.217432	
	Cabatuan		50.081610	
	Leon		8.709765	
	Santa Ba		61.078206	
City/Municipality	New Luce		0.029665	
	San Migu		33.427488	
	Pavia		25.059487	
	Leganes		3.683971	
	Oton		2.485798	
	Name of Urban Center	name		Main City Centers
	Forest		43.699508	Natural, Plantation, Bamboo
	Mangrove Forest		0.061296	
	Wooded & Natural Land		310.697652	Shrub, Grassland, Barren, Marshland
	Annual Crop	Area, sq. km.	47.985465	
Inundated Area by Land Use	Perennial Crop		14.121849	Agricultural Land
	Pasture		0.000000	
	Fish pond		2.179777	
	Built-up Area		18.210815	
	Water body		2.224928	Inland Water
	Area	sq. km.	17.770348	Total Area and Average Depth for River Basin
	Average Depth	meter	1.452603	
	Forest		0.129032	
	Mangrove Forest		0.000000	
	Wooded & Natural Land		10.330912	Inundated area by land use except Water body, which is considered as permanently inundated.
Inundated Area by Administrative Boundary	Annual Crop		0.373800	
	Perennial Crop		0.967250	
	Pasture		0.000000	
	Fish pond		0.855814	
	(Iloilo City (City))		3.781995	
	Santa Ba		0.199480	
	Maasin		8.885184	
	Cabatuan		2.226477	
	Santa Ba		0.701590	Total Inundated Area by City/Municipality
	Pavia		4.181533	
Inundated City/Municipality Population	Leganes		1.484564	
	(Iloilo City (City))		0.000719	
	Santa Ba		47873.373928	Proportion of
	Maasin		454.201371	
	Cabatuan		381.664874	
	Santa Ba		2387.655164	
	Pavia		1931.417388	
	Leganes		0.524372	
	(Iloilo City (City))		4.752720	
	Santa Ba		0.000000	
Inundation Average Depth by Land Use	Mangrove Forest		1.460235	
	Wooded & Natural Land		0.591532	
	Annual Crop		1.428788	
	Perennial Crop		0.000000	
	Pasture		2.768169	
	Fish pond		1.153140	
	(Iloilo City (City))		1.838049	
	Santa Ba			

* The estimated inundation area and depth are preliminary results, and have not been used for screening/analysis as such, but with some modification based on expert judgements and so on (refer to Data Book C).

Name of Basin: Cairawan				
Data Items	Name/Description	Units	Data	Remarks
River Basin	Area	sq. km.	167.197506	
	Perimeter	km.	76.118486	
Population	Year 2000	person	21353	Census Population
	Year 2005	person	23420	Projected Population
Road	Iloilo-Antique Rd	km.	157.756565	Length
Bridge	Cairawan Br. I	Number	Concrete	Type
River	Cairawan River	km.	27.27533	Length
District	Antique DEO	sq. km.	129.76527	Area
	Capiz DEO	sq. km.	37.426062	
City/Municipality	Barbaza	sq. km.	16.853380	
	Jamindan	sq. km.	31.998434	
	Lau-an	sq. km.	100.943843	Area
	Tapaz	sq. km.	7.205683	
	Bugasong	sq. km.	10.195527	
Name of Urban Center	.....	name	Main City Centers	
	.....	name		
	Forest	sq. km.	58.093796	Natural, Plantation, Bamboo
	Mangrove Forest	sq. km.	0.000000	
	Wooded & Natural Land	sq. km.	106.343347	Shrub, Grassland, Barren, Marshland
Land Use of River Basin	Annual Crop	Area, sq. km.	2.670999	Agricultural Land
	Perennial Crop	sq. km.	0.000000	
	Pasture	sq. km.	0.000000	
	Fish pond	sq. km.	0.000000	
	Built-up Area	sq. km.	0.000000	
	Water body	sq. km.	0.000000	Inland Water
Simulated Flood Inundation	Area	sq. km.	3.289884	Total Area and Average Depth for River Basin
	Average Depth	meter	3.105592	
	Forest	sq. km.	0.000000	Inundated area by land use except Water body, which is considered as permanently inundated.
Inundated Area by Land Use	Mangrove Forest	sq. km.	0.000000	
	Wooded & Natural Land	sq. km.	2.270809	
	Annual Crop	sq. km.	1.019075	
	Perennial Crop	sq. km.	0.000000	
	Pasture	sq. km.	0.000000	
	Fish pond	sq. km.	0.000000	
Inundated Area by Land Use	Lau-an	sq. km.	3.289884	Total Inundated Area
Inundated Area by Land Use	Lau-an	person	463873701	Proportion of
	Forest	sq. km.	0.000000	
	Mangrove Forest	sq. km.	0.000000	
Inundation Average Depth by Land Use	Wooded & Natural Land	sq. km.	3.704054	Area
	Annual Crop	sq. km.	1.710788	
	Perennial Crop	sq. km.	0.000000	
	Pasture	sq. km.	0.000000	
	Fish pond	sq. km.	0.000000	

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Name of Basin: Sibalom				
Data Items	Name/Description	Units	Data	Remarks
River Basin	Area	sq. km.	765.219300	
	Perimeter	km.	170.986375	
Population	Year 2000	person	107170	Census Population
	Year 2005	person	118063	Projected Population
Road	Alangilan-Cubay-Sibalom Rd	km.	3.76451	
	Bantayan-Sn Pedro-Cubay Rd	km.	12.287830	
	Bugo-Gen Fullon Rd	km.	3.346348	
	Hamtic-Bia-an-Ega?a-Sibalom Rd	km.	11.015664	Length
	Iloilo-Antique Rd	km.	157.756565	
	Odiong-Sibalan-Sn Remigio-Leon Rd	km.	34.269101	
	Sibalom-Pisanan Rd	km.	6.138971	
	Sn Remigio-Bugo Rd	km.	8.550921	
Bridge	Lasasanian Br.	Number	Bailey	Type
	Libonan Br.			
	Imitan Br.			
	Nasuli Br. 3			
	Nasuli Br. 1			
	Nasuli Br. 2			
	Maragubudub Br.			
	Nardayas Br.			
	Bugo Br.			
	Baranbang Br.			
	Baranayan Br.			
	Cabatuan Br.			
	Itook Br. 1			
	Itook Br. 2			
	Tagbacan Br.			
	Tiplulan Br.			
	Cubay Br.			
	Bongsod Br.			
	Irrigation Br.			
	Sibalom Br.		Steel	
River	Sibalom River	km.	63.376647	Length
District	1 Iloilo DEO	sq. km.	305.474879	
	2 Antique DEO	sq. km.	266.895978	Area
	3 Iloilo IV DEO	sq. km.	52.709919	
	4 Iloilo I DEO	sq. km.	1524.623475	
City/Municipality	Lambunao	sq. km.	14.038114	
	Valderama	sq. km.	70.036006	
	San Remigio	sq. km.	359.739460	
	Maasin	sq. km.	2.633938	
	Almodiga	sq. km.	3.842995	
	Patromongan	sq. km.	15.970243	
	Besilon	sq. km.	19.238839	Area
	Sibalom	sq. km.	231.626825	
	San Jose	sq. km.	14.561812	
	Igbaras	sq. km.	5.699657	
	Magao	sq. km.	21.434719	
	Hamtic	sq. km.	0.430911	
	San Joaquin	sq. km.	5.908986	
Name of Urban Center	.....	name	Main City Centers	
	.....	name		
	Forest	sq. km.	325.186911	Natural, Plantation, Bamboo
	Mangrove Forest	sq. km.	0.000000	
	Wooded & Natural Land	sq. km.	420.962948	Shrub, Grassland, Barren, Marshland
Land Use of River Basin	Annual Crop	Area, sq. km.	15.117728	Agricultural Land
	Perennial Crop	sq. km.	0.000000	
	Pasture	sq. km.	0.000000	
	Fish pond	sq. km.	0.000000	
	Built-up Area	sq. km.	0.000000	
	Water body	sq. km.	2.892544	Inland Water
Simulated Flood Inundation	Area	sq. km.	14.360818	Total Area and Average Depth for River Basin
Simulated Flood Inundation	Average Depth	meter	2.114256	

Data Items	Name/Description	Units	Data	Remarks
	Forest	sq. km.	6.5586015	
Inundated Area by Land Use	Mangrove Forest	sq. km.	0.000000	Inundated area by land use except Water body, which is considered as permanently inundated.
	Wooded & Natural Land	sq. km.	5.9214958	
	Annual Crop	sq. km.	1.1304346	
	Perennial Crop	sq. km.	0.000000	
	Pasture	sq. km.	0.000000	
	Fish pond	sq. km.	0.000000	
Inundated Area by Administrative Boundary	San Remigio	sq. km.	7.4019187	
	Besilon	sq. km.	0.093600	Total Inundated Area by City/Municipality
	San Jose	sq. km.	1.939355	
	Sibalom	sq. km.	4.925067	
Inundated City/Municipality Population	San Remigio	person	488.8089861	Proportion of City/Municipality Population Inside Inundated Area: Year 2000 Census Data
	Besilon	person	20.591957	
	San Jose	person	1765.591150	
	Sibalom	person	935.762654	
	Forest	meter	1.396835	
	Mangrove Forest	meter	0.000000	
	Wooded & Natural Land	meter	3.244787	
Inundation Average Depth by Land Use	Annual Crop	meter	0.690404	
	Perennial Crop	meter	0.000000	
	Pasture	meter	0.000000	
	Fish pond	meter	0.000000	

* The estimated inundation area and depth are preliminary results, and have not been used for screening/analysis as such, but with some modification based on expert judgements and so on (refer to Data Book C).

Name of Basin: Dalanas				
Data Items	Name/Description	Units	Data	Remarks
River Basin	Area	sq. km.	157.312376	
	Perimeter	km.	65.151343	
Population	Year 2000	person	24446	Census Population
	Year 2005	person	24412	Projected Population
Road	Iloilo-Antique Rd	km.	157.756565	Length
Bridge	Palma Br.	Number	Concrete	Type
River	Dalanas River	km.	24.149822	Length
District	Dalanas Br.	km.	147.16694	
	Antique DEO	sq. km.	8.683177	Area
	Aklan DEO	sq. km.	1.323699	
	Capiz DEO	sq. km.	12.598559	
City/Municipality	Culasi	sq. km.	8.807288	
	Madalag	sq. km.	45.340318	
	Tibiao	sq. km.	0.515825	Area
	Libacao	sq. km.	88.231845	
	Barbaza	sq. km.	1.631798	
	Jamindan	sq. km.	0.186715	
	Lau-an	sq. km.	99.960337	Main City Centers
Name of Urban Center	.....	name		Natural, Plantation, Bamboo
	.....	name		
	Forest	sq. km.	0.000000	
	Mangrove Forest	sq. km.	43.8600356	
	Wooded & Natural Land	sq. km.	7.324558	
	Annual Crop	sq. km.	4.642635	Agricultural Land
	Perennial Crop	sq. km.	0.000000	
	Pasture	sq. km.	0.000000	
	Fish pond	sq. km.	0.000000	
Inundated Area by Land Use	Built-up Area	sq. km.	1.154736	Inland Water
Simulated Flood Inundation	Area	sq. km.	1.178312	Total Area and Average Depth for River Basin
	Average Depth	meter	6.534067	
Inundated Area by Land Use	Forest	sq. km.	0.211931	Inundated area by land use except Water body, which is considered as permanently inundated.
	Mangrove Forest	sq. km.	0.000000	
	Wooded & Natural Land	sq. km.	0.965093	
	Annual Crop	sq. km.	0.000000	
	Perennial Crop	sq. km.	0.000000	
	Pasture	sq. km.	0.000000	
	Fish pond	sq. km.	0.000000	
Inundated Area by Administrative Boundary	Madalag	sq. km.	0.017352	Total Inundated Area by City/Municipality
	Jamindan	sq. km.	0.011590	
	Barbaza	sq. km.	1.149370	
Inundated City/Municipality Population	Madalag	person	0.954342	Proportion of City/Municipality Population Inside Inundated Area: Year 2000 Census Data
	Jamindan	person	0.811292	
	Barbaza	person	168.957420	
	Forest	meter	7.083382	
	Mangrove Forest	meter	0.000000	
	Wooded & Natural Land	meter	6.428338	
	Annual Crop	meter	0.000000	
	Perennial Crop	meter	0.000000	
	Pasture	meter	0.000000	
	Fish pond	meter	0.000000	
Inundation Average Depth by Land Use	Water body	meter	0.000000	

Data Items	Name/Description	Units	Data	Remarks
River Basin	Area	sq. km.	66.791598	
	Perimeter	km.	47.639404	
Population	Year 2000	person	12163	Census Population
	Year 2005	person	11703	Projected Population
Road	Iloilo-Antique Rd	km.	157.756565	Length
Bridge	Tibiao Br.	Number	Concrete	Type
River	Tibiao River	km.	24.802350	Length
District	1 Antique DEO	sq. km.	2568.895978	Area
	2 Aklan DEO	sq. km.	1762.606293	
	Culasi	sq. km.	31.546396	
	Madalag	sq. km.	0.149426	
	Tibiao	sq. km.	35.093765	
Name of Urban Center	.....	name		Main City Centers
	.....	name		
	Forest	sq. km.	40.090882	Natural, Plantation, Bamboo
	Mangrove Forest	sq. km.	0.000000	
	Wooded & Natural Land	sq. km.	12.774057	
	Annual Crop	sq. km.	13.407848	
	Perennial Crop	sq. km.	0.000000	
	Pasture	sq. km.	0.000000	
	Fish pond	sq. km.	0.000000	
	Built-up Area	sq. km.	0.260810	
	Water body	sq. km.	0.000000	Inland Water
Simulated Flood Inundation	Area	sq. km.	1.341073	Total Area and Average Depth for River Basin
	Average Depth	meter	2.054064	

Data Items	Name/Description	Units	Date	Remarks
Inundated Area by Land Use	Forest	sq. km.	0.160438	
	Mangrove Forest		0.000000	
	Wooded & Natural Land		0.257685	Inundated area by land use except Water body, which is considered as permanently inundated.
	Annual Crop		0.910555	
	Perennial Crop		0.000000	
	Pasture		0.000000	
Inundated Area by Administrative Boundary	Fish pond	sq. km.	0.000000	
	Tibiao		0.012153	
Inundated Area by Administrative Boundary	Culasi	sq. km.	0.291153	Total Inundated Area by City/Municipality
	Tibiao		1.049920	
Inundated City/Municipality Population	Culasi	person	50.660627	Proportion of City/Municipality Population Inside
	Tibiao		199.484742	Inundated Area: Year 2000 Census Data
Inundation Average Depth by Land Use	Forest	meter	5.856814	
	Mangrove Forest		0.000000	
	Wooded & Natural Land		2.086524	
	Annual Crop		1.232652	
	Perennial Crop		0.000000	
	Pasture		0.000000	
Inundation Average Depth by Land Use	Fish pond	meter	0.000000	
	Tibiao		5.248448	

* The estimated inundation area and depth are preliminary results, and have not been used for screening/analysis as such, but with some modification based on expert judgements and so on (refer to Data Book C).

Name of Basin: Sipalay				
Data Items	Name/Description	Units	Data	Remarks
River Basin	Area	sq. km	306.727313	
	Perimeter	km	86.517577	
Population	Year 2000	person	51865	Census Population
	Year 2005		63132	Projected Population
Road	Bacold South Rd	km.	127.830299	
	Candoni-Sipalay Rd		34.322975	Length
Bridge	Manlachacoh Br.	Number		
	Tauangan Br.			
	Yamyan Br.			
	Cabadiangan Br.			
	Campsang Br.			
	Marama Br.			
River	Sipalay River	km.	35.489611	Length
District	1. Negros Occidental III DEO	sq. km.	2590.689449	Area
	Candoni (City)		36.783865	
City/Municipality	Sipalay City (City)	sq. km.	164.132411	
	Cauayan		105.808005	
Name of Urban Center	.....	name		Main City Centers
			
Land Use of River Basin	Forest	Area, sq. km.	5.098219	Natural, Plantation, Bamboo
	Mangrove Forest		1.008195	
	Wooded & Natural Land		255.727508	Shrub, Grassland, Barren, Marshland
	Annual Crop		43.822779	
	Perennial Crop		0.000000	Agricultural Land
	Pasture		0.000000	
	Fish pond		0.000000	
	Built-up Area		0.201897	
	Water body		0.868716	Inland Water
Simulated Flood Inundation	Area	sq. km.	13.047456	Total Area and Average Depth for River Basin
	Average Depth	meter	3.379952	
Inundated Area by Land Use	Forest	sq. km.	0.140001	
	Mangrove Forest		0.451488	
	Wooded & Natural Land		5.550675	Inundated area by land use except Water body, which is considered as permanently inundated.
	Annual Crop		6.697369	
	Perennial Crop		0.000000	
	Pasture		0.000000	
	Fish pond		0.000000	
	Sipalay City (City)		0.31022	
Inundated Area by Administrative Boundary	Sipalay City (City)	sq. km.	11.440004	Total Inundated Area by City/Municipality
	Cauayan		1.603452	
Inundated City/Municipality Population	Sipalay City (City)	person	2254.468873	Proportion of City/Municipality Population Inside
	Cauayan		259.759154	Inundated Area: Year 2000 Census Data
Inundation Average Depth by Land Use	Forest	meter	6.024429	
	Mangrove Forest		1.255978	
	Wooded & Natural Land		5.209770	
	Annual Crop		1.862376	
	Perennial Crop		0.000000	
	Pasture		0.000000	
	Fish pond		0.000000	
	Sipalay City		1.998351	

* The estimated inundation area and depth are preliminary results, and have not been used for screening/analysis as such, but with some modification based on expert judgements and so on (refer to Data Book C).

Name of Basin: Mananga				
Data Items	Name/Description	Units	Data	Remarks
River Basin	Area	sq. km	87.733078	
	Perimeter	km	52.756172	
Population	Year 2000	person	197024	Census Population
	Year 2005		220029	Projected Population
Road	Cebu-Balanban Transcentral Highway	km.	23.828340	
	Cebu-Toledo Wharf Rd		22.368043	Length
Bridge	N Bacalso Ave (Cebu South)	Number	30.287988	
	Mananga Br. 1			
	Mananga Br. 2			
	Langoyon Br.			
	Camp Br. 4			
	Mananga River		27.743194	Length
District	1. Cebu City DEO	sq. km.	54.521710	
	2. Cebu II DEO		32.939533	Area
City/Municipality	Cebu City (City)	sq. km.	54.894764	
	Talisay (City)		32.185997	
	Miniglanilla		0.485752	
Name of Urban Center	.....	name		Main City Centers
			
Land Use of River Basin	Forest	Area, sq. km.	0.467816	Natural, Plantation, Bamboo
	Mangrove Forest		0.000000	
	Wooded & Natural Land		82.684799	Shrub, Grassland, Barren, Marshland
	Annual Crop		4.549711	
	Perennial Crop		0.006556	
	Pasture		0.000000	
	Fish pond		0.000000	
	Built-up Area		0.000000	
	Water body		0.0022526	Inland Water

Data Items	Name/Description	Units	Data	Remarks
Simulated Flood Inundation	Area	sq. km.	3.183454	Total Area and Average Depth for River Basin
	Average Depth	meter	6.345702	
Inundated Area by Land Use	Forest	sq. km.	0.000000	
	Mangrove Forest		0.000000	
	Wooded & Natural Land		2.126098	Inundated area by land use except Water body, which is considered as permanently inundated.
	Annual Crop		1.041085	
	Perennial Crop		0.000000	
	Pasture		0.000000	
Inundated Area by Administrative Boundary	Fish pond	sq. km.	0.000000	
	Cebu City (City)		0.475174	Total Inundated Area by City/Municipality
	Talisay (City)		2.667455	
	Cebu City (City)	person	1034.453341	Proportion of City/Municipality Population Inside
	Talisay (City)		6372.549743	Inundated Area: Year 2000 Census Data
			0.763418	

* The estimated inundation area and depth are preliminary results, and have not been used for screening/analysis as such, but with some modification based on expert judgements and so on (refer to Data Book C).

Name of Basin: Guinebasan				
Data Items	Name/Description	Units	Data	Remarks
River Basin	Area	sq. km	132.909417	
	Perimeter	km	58.182221	
Population	Year 2000	person	24705	Census Population
	Year 2005		24813	Projected Population
Road	Toledo-Tabuelan-Sn Remigio	km.	57.316776	Length
Bridge	Guinebasan Br.	Number	1	Steel Type
River	Guinebasan River	km.	29.860544	Length
District	Cebu III DEO	sq. km.	127.185585	
	Cebu Sub-DEO		5.524921	Area
City/Municipality	Danao City (City)	sq. km.	6.523542	
	Tuburan		1.206778	
Name of Urban Center	Asturias	sq. km.	125.179097	
	.....	name		Main City Centers
			
Land Use of River Basin	Forest	Area, sq. km.	0.000000	Natural, Plantation, Bamboo
	Mangrove Forest		0.019877	
	Wooded & Natural Land		116.939949	Shrub, Grassland, Barren, Marshland
	Annual Crop		13.312235	
	Perennial Crop		0.000000	Agricultural Land
	Pasture		0.000000	
Inundation Average Depth by Land Use	Fish pond	meter	0.175432	
	Built-up Area		0.000000	
	Water body		1.380200	Inland Water
	Simulated Flood Inundation	Area	4.034063	Total Area and Average Depth for River Basin
	Average Depth	meter	4.533136	
	Forest		0.000000	Inundated area by land use except Water body, which is considered as permanently inundated.
Inundated Area by Land Use	Mangrove Forest	sq. km.	1.353569	
	Wooded & Natural Land		2.291495	
	Annual Crop		0.000000	
	Perennial Crop		0.000000	
	Pasture		0.000000	
	Fish pond		0.000000	
Inundation Average Depth by Land Use	Asturias	sq. km.	4.034063	Total Inundated Area
	Inundated		641.415966	Proportion of
	Asturias		0.000000	
Inundation Average Depth by Land Use	Forest	meter	0.000000	
	Mangrove Forest		0.000000	
	Wooded & Natural Land		3.253980	
	Annual Crop		5.420837	
	Perennial Crop		0.000000	
	Pasture		0.000000	
Inundation Average Depth by Land Use	Fish pond	sq. km.	0.000000	
			4.838936	

* The estimated inundation area and depth are preliminary results, and have not been used for screening/analysis as such, but with some modification based on expert judgements and so on (refer to Data Book C).

Data Items	Name/Description	Units	Date	Remarks
Inundated Area by Inundated	San Roque	sq. km.	3.970547	Total Inundated Area by
	San Roque	person	486,377,292	Proportion of
	Forest		0.00	
	Mangrove Forest		0.00	
Inundation Average Depth by Land Use	Wooded & Natural Land	meter	1.90	
Annual Crop			0.89	
Perennial Crop			1.82	
Pasture			0.00	
Fish pond			0.00	

* The estimated inundation area and depth are preliminary results, and have not been used for screening/analysis as such, but with some modification based on expert judgements and so on (refer to Data Book C).

Name of Basin: Date					
Data Items	Name/Description	Units	Date	Remarks	
River Basin	Area	sq. km.	215.17		
	Perimeter	km.	76.90		
Population	Year 2000	person	20861	Census Population	
	Year 2005		23520	Projected Population	
Road	Cataraman-Laoang Rd	km.	21.71	Length	
	Mondragon-Bantayan Old Rd		3.91		
Bridge	Muyaw Br.	Number	Concrete	Type	
River	Bugko River	km.	40.58	Length	
District	1. Northern Samar I DEO	sq. km.	178,855,707	Area	
	2. Northern Samar II DEO		35,874,018		
City/Municipality	Mondragon		168,563,948		
	San Roque	sq. km.	27,611,917	Area	
	Cataraman		7,281,712		
	Silivno Lobos		11,683,560		
Name of Urban Center	.....	name	Main City Centers		
				
	Forest		20,597,312	Natural, Plantation, Bamboo	
	Mangrove Forest		0.000000		
Land Use of River Basin	Wooded & Natural Land	Area, sq. km.	121,354,239	Shrub, Grassland, Barren, Marshland	
	Annual Crop		18,350,273	Agricultural Land	
	Perennial Crop		54,511,071		
	Pasture		0.000000		
	Fish pond		0.000000		
	Built-up Area		0.000000		
	Water body		0.000000	Inland Water	
Simulated Flood Inundation	Area	sq. km.	6,108,089	Total Area and Average Depth for River Basin	
	Average Depth	meter	1.802,111		
	Forest		0.000000		
Inundated Area by Land Use	Mangrove Forest	sq. km.	1,851,794	Inundated area by land use except Water body,	
	Wooded & Natural Land		3,483,765	which is considered as permanently inundated.	
	Annual Crop		0.638,360		
	Perennial Crop		0.000000		
	Pasture		0.000000		
	Fish pond		0.000000		
Inundated Area by Administrative	Mondragon	sq. km.	6,071,928	Total Inundated Area by	
	San Roque		0.036,261	City/Municipality	
Inundated City/Municipality	Mondragon	person	546,464,512	Proportion of	
	San Roque		4,460,150	City/Municipality	
	Forest		0.00		
	Mangrove Forest		0.00		
Inundation Average Depth by Land Use	Wooded & Natural Land	meter	2.41		
	Annual Crop		1.50		
	Perennial Crop		1.26		
	Pasture		0.00		
	Fish pond		0.00		

* The estimated inundation area and depth are preliminary results, and have not been used for screening/analysis as such, but with some modification based on expert judgements and so on (refer to Data Book C).

Name of Basin: Cadac-an					
Data Items	Name/Description	Units	Date	Remarks	
River Basin	Area	sq. km.	51,069,760		
	Perimeter	km.	151,784,505		
Population	Year 2000	person	848,745	Census Population	
	Year 2005		912,793	Projected Population	
Road	Daang Maharlika (LT)	km.	96,795,044	Length	
	Tacloban-Baybay South Rd		22,887,285		
	Pangkagan Br.				
	Mapatoron Br.				
	Manaplag Br.				
	Polahongan Br.				
	Tayonok Br.				
	Tagbunanga Br.				
Bridge	Tag-Abaca Br.				
	Lourdes Br.				
	Gaas Br. 1				
	Canaya Br.				
	Bagalungan Br.				
	Hilusie Br.				
	Gaas Br. 2				
	Layog Br.				
	Balacao Br.				
River	Cadac-an River	km.	42,028,277	Length	
District	1. Leyte V DEO	sq. km.	358,475,265	Area	
	2. Southern Leyte DEO		151,582,323		
	Abuyog		182,062,007		
	Javier		0.188,704		
	Baybay		9,874,682		
	Magahdag		134,714,419		
	Silago		72,218,718		
City/Municipality	Inopacan	sq. km.	18,740,974	Area	
	Sogod		76,886,492		
	Hindang		9,222,230		
	Hinunangan		3,660,095		
	Hilonigos		0.064,636		
	Libagon		2,677,726		
Name of Urban Center	.....	name	Main City Centers		
				
	Forest		198,535,255	Natural, Plantation, Bamboo	
	Mangrove Forest		3,395,285		
Land Use of River Basin	Wooded & Natural Land	Area, sq. km.	88,668,620	Shrub, Grassland, Barren, Marshland	
	Annual Crop		47,703,434	Agricultural Land	
	Perennial Crop		171,791,794		
	Pasture		0.000000		
	Fish pond		0.000000		
	Built-up Area		0.069,011		
	Water body		0.902,198	Inland Water	
Simulated Flood Inundation	Area	sq. km.	14,302,221	Total Area and Average Depth for River Basin	
	Average Depth	meter	1.422,678		

Data Items	Name/Description	Units	Date	Remarks
Inundated Area by Land Use	Forest	sq. km.	0.140,185	
	Manrove Forest		1,190,123	
	Wooded & Natural Land		0.02395	Inundated area by land use except Water body, which is considered as permanently inundated.
	Annual Crop		8,531,126	
	Perennial Crop		3,845,921	
	Pasture		0.000000	
	Fish pond		0.000000	
	Abuyog		0.002,248	
Inundated Area by City/Municipality	Abuyog	sq. km.	13,533,870	Total Inundated Area by
	Sitago		0,490,066	City/Municipality
	Abuyog	person	2612,036,951	Proportion of
	Sitago		24,995,362	City/Municipality
	Forest		2,58,7604	
	Mangrove Forest		2,796,975	
	Wooded & Natural Land		0.907,940	
	Annual Crop		1,161,473	
	Perennial Crop		1,469,722	
	Pasture		0.000000	
	Fish pond		0.000000	

* The estimated inundation area and depth are preliminary results, and have not been used for screening/analysis as such, but with some modification based on expert judgements and so on (refer to Data Book C).

Name of Basin: Balatukan					
Data Items	Name/Description	Units	Date	Remarks	
River Basin	Area	sq. km.	234,667,087		
	Perimeter	km.	70,180,625		
Population	Year 2000	person	51,115	Census Population	
	Year 2005		51,162	Projected Population	
Road	Balingasag By-Pass Rd	km.	4,309,634		
	Butuan-City-Cagayan de Oro City-Iligan City Rd		45,528,552	Length	
Bridge	Napalaran Br.				
	Waterfall Br. 1				
	Musimusi Br.				
	Mambayaan Br. 1				
	Mambayaan Br. 2				
	Waterfall Br. 2				
River	Balatukan River	km.	32,215,421	Length	
District	1. Misamis Oriental I DEO	sq. km.	122,830,937	Area	
	2. Misamis Oriental II DEO		111,836,700		
	Gingoog City (City)		20,629,534		
	Medina		8,965,632		
City/Municipality	Claveria	sq. km.	112,117,158	Area	
	Lagonglong		2,64,1054		
	Balingasag		90,318,194		
Name of Urban Center	.....	name	Main City Centers		
				
	Forest		41,024,561	Natural, Plantation, Bamboo	
	Mangrove Forest		0.42,1622		
	Wooded & Natural Land		135,330,090	Shrub, Grassland, Barren, Marshland	
Land Use of River Basin	Annual Crop	Area, sq. km.	3,057,893	Agricultural Land	
	Perennial Crop		53,988,285		
	Pasture		0.000000		
	Fish pond		0.049,750		
	Built-up Area		0.77,1853		
	Water body		0.000000	Inland Water	
Simulated Flood Inundation	Area	sq. km.	3,114,843	Total Area and Average Depth for River Basin	
	Average Depth	meter	3,219,256		
	Forest		0.011,445		
	Mangrove Forest		0.031,118		
Inundated Area by Land Use	Wooded & Natural Land	sq. km.	0.62,2377	Inundated area by land use except Water body, which is considered as permanently inundated.	
	Annual Crop		0.922,958		
	Perennial Crop		1,49,1519		
	Pasture		0.000000		
	Fish pond		0.000000		
	Balingasag		0.031,426		
Inundated Area by City/Municipality	Gingoog City (City)	sq. km.	0.199517	Total Inundated Area by City/Municipality	
	Boundary		0.267,544		
	Balingasag		2,64,7782		
	Gingoog City (City)		40,501,184	Proportion of City/Municipality	
	Claveria		1112,068,615	Population Inside	
	Forest		0.460,419		
	Mangrove Forest		1,078,116		
	Wooded & Natural Land		6,045,023		
	Annual Crop		3,204,4800		
	Perennial Crop		2,373,434		
	Pasture		0.000000		
	Fish pond		0.000000		
	Balingasag		1,89,3807		
Name of Basin: Tuganay					
Data Items	Name/Description	Units	Date	Remarks	
River Basin	Area	sq. km.	756,542,574		
	Perimeter	km.	205,728,008		
Population	Year 2000	person	20,776	Census Population	
	Year 2005		20,776	Projected Population	
Road	Carmen-DAPECOL Cmpd Rd	km.	12,174,904		
	Daang Maharlika (MN)		37,202,957		
	Davao-Agusan Rd		0.263,728	Length	
	Kapalong-Talaingod-Valencia		24,19,2544		
	Tagum-Panabo Cir Rd		0.140,737		
	Tagum-Panabo Circum Rd		69,601,628		
Bridge	Alej Br.				
	Basak Br.				
	Feeder Rd. Br.				
	Ilog Br.				
	Ising Br.				
	Magatos Br.				
	Magsaysay Br. 1				
	Magsaysay Br. 2				
	Mangcal Br.				
	Maniki Br.				
	New Camiling Br.				
	Tadeco Br.				
	Tuganay Br.				
	Misulong Br.				
	Napisulan Br.				
River	Tuganay River	km.	110,565,085	Length	
District	Bukidnon I DEO	sq. km.	5,512,963	Area	
	Davao del Norte DEO		726,298,230		
	Davao City DEO		24,64,6415		
	Davao City		23,29,0698		
	Bukidnon I DEO		5,512,963		
	Davao del Norte DEO		726,298,230		
	Davao City DEO		24,64,6415		
	Davao City		23,29,0698		
	Tagum (City)		0,018,463		
	Panabo (City)		71,35,6741		
	San Fernando		3,85,3710		
	Talaingod		209,017,6		

Data Items	Name/Description	Units	Data	Remarks
Land Use of River Basin	Forest	Area, sq. km.	254.316369	Natural, Plantation, Bamboo
	Mangrove Forest		0.000000	
	Wooded & Natural Land		127.331107	Shrub, Grassland, Barren, Marshland
	Annual Crop		180.118346	Agricultural Land
	Perennial Crop		185.764501	
	Pasture		0.000000	
	Fish pond		4.953506	
	Built-up Area		3.987638	
	Water body		0.000000	Inland Water
Simulated Flood Inundation	Area	sq. km.	99.975902	Total Area and Average Depth for River Basin
	Average Depth	meter	2.723704	
Inundated Area by Land Use	Forest	sq. km.	2.242541	
	Mangrove Forest		0.000000	
	Wooded & Natural Land		0.183742	Inundated area by land use except Water body, which is considered as permanently inundated.
	Annual Crop		83.598729	
	Perennial Crop		6.675754	
	Pasture		0.000000	
	Fish pond		1.863198	
	Santo Tomas		0.023568	
	Carmen		1.277026	
Inundated Area by Administrative Boundary	Tigum (City)	sq. km.	0.010615	
	Talaingod		2.049440	Total Inundated Area by City/Municipality
	Santo Tomas		6.572560	
	Carmen		90.921496	
Inundated City/Municipality Population	Tigum (City)	person	10.370914	Proportion of City/Municipality
	Talaingod		61.483203	Population Inside
	Santo Tomas		1912.614973	Inundated Area; Year 2000 Census Data
	Carmen		20275.493686	
Inundation Average Depth by Land Use	Forest	meter	5.110082	
	Mangrove Forest		0.000000	
	Wooded & Natural Land		4.285943	
	Annual Crop		2.486271	
	Perennial Crop		1.494674	
	Pasture		0.000000	
	Fish pond		2.075714	
	Santo Tomas		0.248106	
	Carmen		4.488390	

* The estimated inundation area and depth are preliminary results, and have not been used for screening/analysis as such, but with some modification based on expert judgements and so on (refer to Data Book C).

Name of Basin: Lipadas

Data Items	Name/Description	Units	Data	Remarks
River Basin	Area	sq. km.	217.02	
	Perimeter	km.	63.41	
Population	Year 2000	person	115492	Census Population
	Year 2005	person	130631	Projected Population
Road	Bayabas-Eden Rd	km.	12.43	
	Davao-Cotabato Old Rd		10.35	
	Davao-Cotabato Rd (Davao City-Jet Digos Sect)		8.34	Length
	Eden-Tagurano Rd		1.38	
Bridge	Tagurano Br.	Number	Bailey	
	Piedad Br.		Concrete	
	Bato Br.			Type
River	Lipadas River	km.	29.73	Length
District	1 Davao City DEO	sq. km.	216.997710	Area
City/Municipality	Davao City	sq. km.	216.277398	Area
Name of Urban Center	.....	name		Main City Centers
			
Land Use of River Basin	Forest	Area, sq. km.	31.076297	Natural, Plantation, Bamboo
	Mangrove Forest		0.000000	
	Wooded & Natural Land		0.354415	Shrub, Grassland, Barren, Marshland
	Annual Crop		32.702076	Agricultural Land
	Perennial Crop		149.330971	
	Pasture		0.000000	
	Fish pond		0.105554	
	Built-up Area		3.363697	
	Water body		0.000000	Inland Water
Simulated Flood Inundation	Area	sq. km.	1.473083	Total Area and Average Depth for River Basin
	Average Depth	meter	1.470213	
Inundated Area by Land Use	Forest	sq. km.	0.011425	
	Mangrove Forest		0.000000	
	Wooded & Natural Land		0.130730	Inundated area by land use except Water body, which is considered as permanently inundated.
	Annual Crop		0.881111	
	Perennial Crop		0.000000	
	Pasture		0.005724	
Inundated Area by Administrative Boundary	Davao City (City)	sq. km.	0.444093	
	Davao City (City)		1.430792	Total Inundated Area by City/Municipality
Inundated City/Municipality Population	Davao City (City)	person	764.04	Proportion of City/Municipality Population Inside Inundated Area; Year 2000 Census Data
	Davao City		2.17	
Inundation Average Depth by Land Use	Forest	meter	0.00	
	Mangrove Forest		0.00	
	Wooded & Natural Land		0.95	
	Annual Crop		1.66	
	Perennial Crop		0.00	
	Pasture		2.60	
	Fish pond		1.17	

* The estimated inundation area and depth are preliminary results, and have not been used for screening/analysis as such, but with some modification based on expert judgements and so on (refer to Data Book C).

Name of Basin: Talomo

Data Items	Name/Description	Units	Data	Remarks
River Basin	Area	sq. km.	386.063707	
	Perimeter	km.	126.057382	
Population	Year 2000	person	182824	Census Population
	Year 2005	person	206774	Projected Population
Road	ABS-CBN-Quezon Blvd	km.	3.226348	
	Calinan-Baguio-Cadalian Rd		17.529298	
	Davao-Bukidnon Rd		81.326879	Length
	Davao-Cotabato Old Rd		6.086851	
	Davao-Cotabato Rd (Davao City-Jet Digos Sect)		13.852070	
	Davao City Div Rd		9.135608	

Data Items	Name/Description	Units	Data	Remarks
Bridge	Pangi Br.	Number		
	Talomo Br. 1		Concrete	
	Talomo Br. 2		Type	
River	Talomo River	km.	48.539490	Length
District	1 North Cotabato I DEO	sq. km.	637.3580793	Area
	2 Davao City DEO		2142.185790	
	Davao City (City)		333.956511	
City/Municipality	Arakan	sq. km.	12.250143	Area
	Magpet		39.134746	
Name of Urban Center	.....	name		Main City Centers
Land Use of River Basin	Forest	Area, sq. km.	90.142246	Natural, Plantation, Bamboo
	Mangrove Forest		0.000000	
	Wooded & Natural Land		70.356646	Shrub, Grassland, Barren, Marshland
	Annual Crop		97.391354	Agricultural Land
	Perennial Crop		115.111591	
	Pasture		0.000000	
	Fish pond		0.000000	
	Built-up Area		12.620946	
	Water body		0.000000	Inland Water
Simulated Flood Inundation	Area	sq. km.	6.914345	Total Area and Average Depth for River Basin
	Average Depth	meter	1.897354	
Inundated Area by Land Use	Forest	sq. km.	0.000000	
	Mangrove Forest		0.000000	
	Wooded & Natural Land		0.000000	
	Annual Crop		4.988037	Inundated area by land use except Water body, which is considered as permanently inundated.
	Perennial Crop		0.931628	
	Pasture		0.000000	
	Fish pond		0.000000	
	Davao City (City)		0.963338	
	Davao City (City)		6.817982	Total Inundated Area by City/Municipality
Inundated Area by Administrative Boundary	Davao City (City)	person	3640.802213	Proportion of
	Davao City (City)			
	Forest			
	Mangrove Forest			
	Wooded & Natural Land			
	Annual Crop		1.696338	
	Perennial Crop		3.432107	
	Pasture		0.000000	
	Fish pond		0.000000	
Inundation Average Depth by Land Use	Davao City	meter	1.374969	

* The estimated inundation area and depth are preliminary results, and have not been used for screening/analysis as such, but with some modification based on expert judgements and so on (refer to Data Book C).

Name of Basin: Upper Agusan

Data Items	Name/Description	Units	Data	Remarks
River Basin	Area	sq. km.	1765.020855	
	Perimeter	km.	300.160386	
Population	Year 2000	person	244427	Census Population
	Year 2005	person	286889	Projected Population
Road	Compostela-Cateel Rd (Compostela Side)	km.	29.473509	
	Daang Maharika (Agusan-Davao Sect)		136.594565	
	Montevista-Compostela-Mati Brdy Rd		85.547311	
	Montevista-DNAS Rd		20.1685494	Length
	Nabunturan-Mainit Park Rd		16.417505	
	NRJ Cuevas-Sampaguita Rd		15.131821	
	NRJ Cuevas-Sta Josefa Rd		2.672898	
	NRJ Pularanguba-Sta Josefa Rd		4.081816	
	Pulanogupa-Sta Josefa Rd		3.108714	
	Ninan Br.			
Bridge	Maribago Br.	Number		
	Kantubug Br.		Bailey	
	Kagubawa Br.			
	Hagubawa Br. 2			
	Hagubawa Br. 1			
	Ludak Br.			
	Bango Br.			
	Nabunturan Br.			
	Manat Br.			
	Matum Br.			
Bridge	Maputi Br.	Number		
	Mayo Br.		Concrete	
	Maundo Br.			
	Talaan Br.			
	Tagbubita Br.			
	Tiebawan Br.			
	Upper Mapawa Br. 2			
	Tina Br.			
	Sta. Josefa Br.			
	Onoman Br.			
Bridge	Olaycon Br.	Number		
	Osmena Br.			
	Puntod Br.			
	Pasian Br.			
	Buay Br.			
	Binongan Br.			
	Casangan Br.			
	Cabidianan Br.			
	Banilag Br.			
	Araibo Br.			
River	Agusan Br.	sq. km.		
	Upper-Agusan River		170.031274	Length
	1 Agusan del Sur II DEO		116.505683	
	2 Agusan del Sur I DEO		25.228656	Area
	3 Compostela Valley DEO		1623.285617	
	Veruela		33.086269	
	Santa Josefa		82.306727	
	Trento		25.505946	
	Monkayo		439.085929	
	Compostela		198.936334	
City/Municipality	Montevista	sq. km.	80.697129	
	Nabunturan		261.271233	Area
	New Bataan		360.065692	
	Mawab		7.106147	
	Maco		14.901955	
	Maragusan (San Mariano)		167.504326	
	Pantukan		94.553053	

Data Items	Name/Description	Units	Data	Remarks
Name of Urban Center	.....	name		Main City Centers
Land Use of River Basin	Forest	510.360084	Natural, Plantation, Bamboo	
	Mangrove Forest	0.000000		
	Wooded & Natural Land	451.205185	Shrub, Grassland, Barren, Marshland	
	Annual Crop	493.759291		
	Perennial Crop	290.079800	Agricultural Land	
	Pasture	0.000000		
	Fish pond	0.000000		
	Built-up Area	8.940935		
	Water body	10.675560	Inland Water	
Simulated Flood Inundation	Area	sq. km.	69.690963	Total Area and Average Depth for River Basin
	Average Depth	meter	1.722086	
Inundated Area by Land Use	Forest	6.760444		
	Mangrove Forest	0.000000		
	Wooded & Natural Land	1.896781	Inundated area by land use except Water body, which is considered as permanently inundated.	
	Annual Crop	43.620626		
	Perennial Crop	14.645412		
	Pasture	0.000000		
	Fish pond	0.000000		
	Monkeyo	0.157100		
Inundated Area by Administrative Boundary	Venuela	10.917038		
	Santa Josefa	24.142979		
	Monkeyo	17.759919		
	Trento	0.422114	Total Inundated Area by City/Municipality	
	Montevista	0.419122		
	Compostela	6.494171		
	New Bataan	0.535068		
	Maragusan (San Mariano)	4.046262		
	Pantukan	4.954266		
Inundated City/Municipality Population	Venuela	764.192663		
	Santa Josefa	3742.161778		
	Monkeyo	2433.108970		
	Trento	44.322020	Proportion of City/Municipality Population Inside Inundated Area; Year 2000 Census Data	
	Montevista	109.390826		
	Compostela	1519.636082		
	New Bataan	33.709262		
	Maragusan (San Mariano)	610.985562		
	Pantukan	431.021130		
Inundation Average Depth by Land Use	Forest	1.929323		
	Mangrove Forest	0.000000		
	Wooded & Natural Land	1.771628		
	Annual Crop	1.587331		
	Perennial Crop	1.887828		
	Pasture	0.000000		
	Fish pond	0.000000		
	Monkeyo	2.842467		

* The estimated inundation area and depth are preliminary results, and have not been used for screening/analysis as such, but with some modification based on expert judgements and so on (refer to Data Book C).

Data Items	Name/Description	Units	Data	Remarks
Inundation Average Depth by Land Use	Forest	0.000000		
	Mangrove Forest	0.000000		
	Wooded & Natural Land	5.523864		
	Annual Crop	1.313550		
	Perennial Crop	0.000000		
	Pasture	0.000000		
	Fish pond	0.000000		
	San Nicolas	0.340857		

* The estimated inundation area and depth are preliminary results, and have not been used for screening/analysis as such, but with some modification based on expert judgements and so on (refer to Data Book C).

Name of Basin: Ambayawan				
Data Items	Name/Description	Units	Data	Remarks
River Basin	Area	sq. km.	422.23	
	Perimeter	km.	110.68	
Population	Year 2000	person	34454	Census Population
	Year 2005		37407	Projected Population
Road	Benguet–Nueva Vizcaya Rd	km.	65.75	
	Nueva Vizcaya–Benguet Rd		35.75	
	Nueva Vizcaya–Pangasinan Rd		17.42	Length
	Pangasinan–Nueva Vizcaya Rd		33.67	
	Sn Nicolas–Nativity–Sn		18.81	
Bridge	Nining Br. 2	Number		
	Primicias Br. 1			
	Primicias Br. 2			
	Nining Br. 1			
	Acosta Br.			
	Bitong Br.			
	Boncato Br.			
River	Ambayawan River	km.	65.39	Length
District	Nueva Vizcaya Sub-DEO	sq. km.	246.459177	
	Benguet I DEO		2.986398	Area
	Pangasinan III DEO		172.781564	
City/Municipality	Kavaya	sq. km.	133.794426	
	Bokod		2.971751	
	Itogon		0.011626	
	Santa Fe		112.658509	Area
	San Nicolas		153.898984	
	Nativity		14.105781	
	Tayug		4.786063	
Name of Urban Center	.....	name		Main City Centers
			
Land Use of River Basin	Forest	87.528358	Natural, Plantation, Bamboo	
	Mangrove Forest	0.000000		
	Wooded & Natural Land	280.294722	Shrub, Grassland, Barren, Marshland	
	Annual Crop	53.573175		
	Perennial Crop	0.000000	Agricultural Land	
	Pasture	0.000000		
	Fish pond	0.000000		
	Built-up Area	0.830884		
	Water body	0.000000	Inland Water	
Simulated Flood Inundation	Area	sq. km.	10.894591	Total Area and Average Depth for River Basin
	Average Depth	meter	3.120780	
Inundated Area by Land Use	Forest	0.000000		
	Mangrove Forest	0.000000	Inundated area by land use except Water body, which is considered as permanently inundated.	
	Wooded & Natural Land	0.467567		
	Annual Crop	4.410245		
	Perennial Crop	0.000000		
	Pasture	0.000000		
	Fish pond	0.000000		
	San Nicolas	0.016779		
Inundated Area by Administrative Boundary	Kavaya	0.105761		
	Santa Fe	1.589377	Total Inundated Area by City/Municipality	
	San Nicolas	8.719763		
	Tayug	0.479690		
Inundated City/Municipality Population	Kavaya	3.913167	Proportion of City/Municipality Population Inside Inundated Area; Year 2000 Census Data	
	Santa Fe	60.396339		
	San Nicolas	1107.409857		
	Tayug	256.154247		

* The estimated inundation area and depth are preliminary results, and have not been used for screening/analysis as such, but with some modification based on expert judgements and so on (refer to Data Book C).

Name of Basin: Rio Chico							
Data Items	Name/Description	Units	Data	Remarks			
River Basin	Area	sq. km	3268.60				
	Perimeter	km.	398.99				
Population	Year 2000	person	1489473	Census Population			
	Year 2005		15585893	Projected Population			
Road	Arayat-Magalang-Mabalacat Rd Bamban Poblacion Rd Cabanatuan City-Carmen Rd Camp Aquino Rd Daany Maharlika (LZ) Manila North Rd Munoz-Lupao Rd Nueva Ecija-Pangasinan Rd Romulo H-way San Miguel Cadre Rd Sn Jose-Lupao Rd Sn Nicolas-Natividad-Sn Quintin-Umingan-Guimba Rd Sta Rosa-Tarlac Rd Tarlac-Malibago Rd Tarlac-Sri Miguel via Macabulos Rd Tarlac-Sta Rosa Rd Tarlac-Zambales North West Div Rd Tarlac-Zambales Rd Tarlac Airport Rd	km.	15.58 2.69 19.21 0.88 84.57 87.09 19.60 37.42 42.86 1.80 17.68 15.73 20.92 2.41 6.70 19.67 2.99 22.00 0.44	Length			
	Mapangpang Br. (Lupao)	Number					
	Manicla Br. Mangitic Br. Mapangpang Br. (Muñoz) Panlasian Br. Minul Br. 2 Minul Br. 1 Lumang Bayan Br. 1 Lomboy Br. 2 Lomboy Br. 1 Lumang Bayan Br. 2 Malasin Br. Mahira Br. Mabalacat-Bamban Br. Papaya Br. Tactao Br. Sibul Br. San Miguel Br. Tavabo Br. Valdez Br. Ungot Br. Tuboy Br. Puncan Br. 1 Pinuzzo Br. Pasong Inchic Br. Putlan Br. Salvacion Br. Rio Chico Br. Quintangl Br. Linactagan Br. Bamban-Centennial Br.						
Bridge	Baliwag Br. Balbalungao Br. 2 Bamban Overhead Br. Biloco Br. 1 Bical Br. Barabac Br. Balbalungao Br. 1 Amucao Br. 1 Amawinan Br. Abot Br. Amucao Br. 2 Arimal Br. 2 Arimal Br. 1 Anupul Br. Ilos Baliwag Br. Cinco Cinco Br. Cinco-cinco Br. 2 Dibabuyan Br. Ese-eze Br. Dancay Br. Capitanlan Br. 2 Cabibitbitungan Br. Calumpit Br. Camp Aquino Br. Capitanlan Br. 1 Biloco Br. 2 Linamuvac Br. Tuntunin Br. Disidir Br. San Felipe Br. Puncan Br. 2 Sisican Br. Cut-cut Br.			Concrete	Type		
River	Rio Chico River	km.	146.92	Length			
District	Nueva Vizcaya Sub-DEO Nueva Ecija I DEO Pangasinan III DEO Tarlac DEO Nueva Ecija II DEO Tarlac Sub-DEO Pampanga Sub-DEO Pampanga I DEO Pampanga II DEO Zambales DEO	sq. km.	8232.503709 2936.570000 1733.557249 1908.044692 5077.824782 1926.633736 336.055994 1731.686420 663.138186 2810.899728	Area			
City/Municipality	San Jose City Munoz (City) Tarlac (City) Cabanatuan City Santa Fe Carranglan Lupao Umingan Pantabangan Cuyapo	sq. km.	160.697318 132.525139 125.781902 19.640040 2.020543 298.395257 128.028620 38.495683 40.407057 49.978318	Area			
	Talugtug Guimba Nampicuan Aao Llanera Ramos Talavera Paniqui Santo Domingo Pura Quezon Victoria General Mamerto Natividad Licab Gerona Aliaga La Paz Zaragoza Santa Rosa Jaen Concepcion Capas San Antonio Bamban Magalang Mabalacat Cabiao Arayat Candaba Porac Mexico Botolan	sq. km.	86.007876 218.251542 33.681763 34.471821 79.568947 14.313859 107.655635 0.569085 65.552135 19.738651 74.002040 109.336251 0.051979 52.180995 4.570065 115.284266 117.511263 96.325850 41.642720 73.479847 210.823292 150.307942 162.380863 74.752460 89.659834 162.340770 25.481881 33.681213 0.229750 45.031418 0.198860 2.296724	Area			
	Name of Urban Center			name			
	Forest Mangrove Forest Wooded & Natural Land Annual Crop Perennial Crop Pasture Fish pond Built-up Area Water body			Forest Mangrove Forest Wooded & Natural Land Annual Crop Perennial Crop Pasture Fish pond Llanera La Paz	132.08 0.00 631.96 2433 1 0 0.00 52.73 17.600667	Natural Plantation, Bamboo Shrub, Grassland, Barren, Marshland Agricultural Land Inland Water	
	Simulated Flood Inundation			Area	sq. km.	341.70	Total Area and Average Depth for River Basin
			Average Depth	meter		1.40	
	Inundated Area by Land Use			Forest Mangrove Forest Wooded & Natural Land Annual Crop Perennial Crop Pasture Fish pond Llanera La Paz	sq. km.	0.00 0.00 4.92 333.58 0.00 0.00 0.00 0.12 0.02	Inundated area by land use except Water body, which is considered as permanently inundated.
	Inundated Area by Administrative Boundary			San Jose City Munoz (City) Cabanatuan City Carranglan Pantabangan Llanera Talavera Santa Domingo Quezon Guimba Licab Aliaga Victoria La Paz Zaragoza Santa Rosa Jaen Concepcion Magalang Cabiao Arayat Candaba	sq. km.	9.26 0.01 0.01 5.63 0.15 0.33 1.07 2.60 30.99 0.22 36.01 28.44 2.33 22.05 48.39 0.92 9.86 104.12 7.19 2.31 23.70 6.03 0.02	Total Inundated Area by City/Municipality
	Inundated City/Municipality Population			San Jose City Munoz (City) Cabanatuan City Carranglan Pantabangan Llanera Talavera Santa Domingo Quezon Guimba Licab Aliaga Victoria La Paz Zaragoza Santa Rosa Jaen Concepcion Magalang Cabiao Arayat Candaba	person	5880.18 2.86 16.63 236.59 8.20 93.33 93.33 867.29 1825.52 13293.39 86.13 14907.53 12114.08 1085.08 9824.05 18821.13 340.77 6711.31 36752.94 3924.73 1870.50 13081.43 5167.88 8.37	Proportion of City/Municipality Population Inside Inundated Area, Year 2000 Census Data
	Inundation Average Depth by Land Use			Forest Mangrove Forest Wooded & Natural Land Annual Crop Perennial Crop Pasture Fish pond Llanera La Paz	meter	0.00 0.00 3.73 1.36 0.00 0.00 0.00 0.93 0.46	

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