SUPPORTING REPORT N FLOOD/LANDSLIDE DAMAGE SURVEY

SUPPORTING-N: FLOOD/LANDSLIDE DAMAGE SURVEY

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1. GENERAL

The objective of the Flood/Landslide Damage Survey is to grasp the current flood/landslide conditions and assets in the hazardous area. The collected information would be processed and used as basic information for estimating the damage caused by floods/landslides and the benefit derived from the project.

2. Process and Method of the Survey

Two-stepped interview survey, namely, "pilot survey" and "full-scale survey", were conducted during the first stage of the Study in Honduras. The process of the survey activities were as follows:

1) Preparation of Interview Sheet for Pilot Survey

Draft Interview Sheets was prepared by the Study Team and discussed in the counterpart meeting with the assistance of the Study Team for finalizing.

2) Pilot Survey

Using the interview sheet prepared above, the pilot survey was carried out for flood/landslide area with 100 samples (50 samples for flood area and 50 samples for landslide area), in order to confirm the method of interview and items to be asked, and to train the interviewers.

3) Modification of Interview Sheet for Full-scale Survey

Based on the results and the lessons of the pilot-survey, the interview sheets have been modified for the full-scale survey. The finalized interview sheets are presented in the Data Book.

4) Full-scale Survey

The full-scale survey was carried out for the possible hazardous area of flood/landslide with 634 samples in total. The surveys were carried out by the counterpart agencies of the Study through the interview to the habitants who are living in the possible flood and landslide area of the Study Area. The results are initially processed by the conducting agencies as presented in Appendix.

Two agencies of the counterparts, AMDC and SANNA, were in charge of the surveys. The numbers of households surveyed were as follows:

Table N.2.1 Agencies in Charge of the Survey

Survey	Agency in Charge	Sample Number
Flood Damage Survey:	AMDC	304
Landslide Damage Survey:	SANAA	330

3. SUMMARY OF SURVEY

3.1 LOCATIONS AND NUMBERS OF SURVEY

The colonias, which have experienced inundation/landslide, were selected through the counterpart meeting as the target of interview survey. To avoid aerial and social biases, the areas and households/buildings surveyed were carefully examined during the course of the interview survey.

Locations of colonias/barrios surveyed are shown in *Figures N.3.1* and *N.3.2*. *Table N.3.1* and *N.3.2* show the number of samples to be surveyed with their attributes.

Table N.3.1 Survey Locations and Numbers (Flood Damage)

		Resid	ential		Gov.	Public	Large	Small	
	High	Medium	Low	Poor	office	Builidng	Business		Total
1st Avenue	1	1							2
Barrio Abajo	3	2	1	1	1				8
Betania				3					3
Buenos Aires		2							2
Carrizal # 1 and # 2		2							2
Concepcion		2						2	4
El Chile		6	6		1				13
El Pedregal		3	1	2					6
El Sitio		2							2
Estados Unidos		1		1					2
Flor del Campo		3							3
Guanacaste								2	2
Guillen			7	4					11
Hato de Enmedio		1	1						2
Kennedy		21	1		2	1	2	5	32
La Concordia		2							2
La Haya		4						1	5
La Primavera		4	2			1			7
La Travesia		1	1	3					5
Las Brisas		1	1	3					5
Las Mercedes	1			1					2
Las Palmas			1	1					2
Las Torres				2					2
Las Vegas		4	5	6					15
Loarque	1	7	1	7	1			2	19
Los Robles	1	1							2
Lower El Pedregal				10					10
Miramesi			1	10		4			15
Nueva Suyapa	2								2
Reparto Arriba		1	19	4					24
Rio Grande	2	3		1					6
Roberto Suazo C.			1	2					3
San Juan del Norte		1	1						2
Santa Fe	2			1					3
Soto			5	11					16

		Resid	ential		Gov.	Public	Large	Small	Total
	High	Medium	Low	Poor	office	Builidng	Business	Business	Total
Universidad Suyapa				2					2
Valle de Angeles				1					1
Villa Nueva		7	9	8				2	26
Villa Olimpica		1							1
Others	2	16	6	9					33
Total	15	99	70	93	5	6	2	14	304

Table N.3.2 Survey Locations and Numbers (Landslide Damage)

	•			•	_	,
		Resid	lential		Public	Total
	High	Medium	Low	Poor	Builidng	Total
14 de Febrero	0	0	5	21	0	26
Campo Cielo	0	0	19	34	0	53
Las Torres	0	3	17	46	0	66
Nueva Esperanza	0	0	27	41	0	68
Reparto Arriba	0	9	80	27	1	117
Total	0	12	148	169	1	330

3.2 SUMMARY OF SURVEY RESULTS

3.2.1 CHARACTERISTICS OF HOUSEHOLDS

The characteristics of households by each survey are shown in the table below.

Table N.3.3 Characteristics of Households by Survey Area

		Construction cost of house	Value of Household Asset	Monthly Income	Living Length	Number of Person per Household
Elood Area	Lps.	91,735	55,506	6,228	11.4	5 10
Flood Area	\$	5,918	3,581	402	11.4	5.48
I d-1: d- A	Lps.	38,560	14,833	3,492	14.0	5.05
Landslide Area	\$	2,488	957	225	14.0	5.95

3.2.2 SUMMARY OF FLOOD DAMAGE

162 households/buildings have experienced inundation, which represents more than half of the total households/buildings of 304. Among the affected households/buildings of 162, more than 85 % of 139 were suffered from inundation by Hurricane "Mitch". The average duration of inundation at the event of Mitch is 5.7 days (maximum: more than 30 days).

3.2.3 SUMMARY OF LANDSLIDE DAMAGE

Approximately 30 % of total households surveyed, namely 98 households, have been affected by the damage of landslide. Among them, 84 households, which is more than 85 % of 98 affected households, had the damage in 1998; the year attacked by Mitch. The remaining 14 households were damaged in 1999 and 2000.

3.2.4 VALUE OF ASSETS IN FLOOD AREA

The average value of assets of household in the possible inundation area by household classifications and other buildings are summarized in the following tables.

Table N.3.4 Summary of Value of Assets (Flood Area: Residential)

		Const. Cost of House	Asset's Value	Monthly Income	Living Length	Family Members
High	Lps.	291,833	162,500	23,367	10.8	6.33
Iligii	\$	18,828	10,484	1,508	10.8	0.55
Middle	Lps.	139,077	92,615	9,633	14.9	5.31
Middle	\$	8,973	5,975	621	14.9	5.51
Low	Lps.	80,500	40,006	3,704	11.1	5.74
LOW	\$	5,194	2,581	239	11.1	3.74
Poor	Lps.	33,725	21,223	2,818	8.0	5.37
1 001	\$	2,176	1,369	182	6.0	3.37
Total	Lps.	91,735	55,506	6,228	11.4	5.48
Total	\$	5,918	3,581	402	11.4	3.40

Source: JICA Survey

Table N.3.5 Summary of Value of Assets (Flood Area: Other Buildings)

		Const. Cost of Building	Assets	Monthly Proceeds	Length of Operation
Gov. Office	Lps.	228,450	41,200		11.7
Gov. Office	\$	14,739	2,658	_	
Public Building	Lps.	73,000	25,333		16.3
Public Building	\$	4,710	1,634		
Larga Dusinass	Lps.	224,500	119,000	11,705	12.0
Large Business	\$	14,484	7,677	755	
Small Business	Lps.	52,200	153,133	7,310	8.0
Sman Business	\$	3,368	9,880	472	
Total	Lps.	121,282	97,344		11.0
Total	\$	7,825	6,280		

Source: JICA Survey

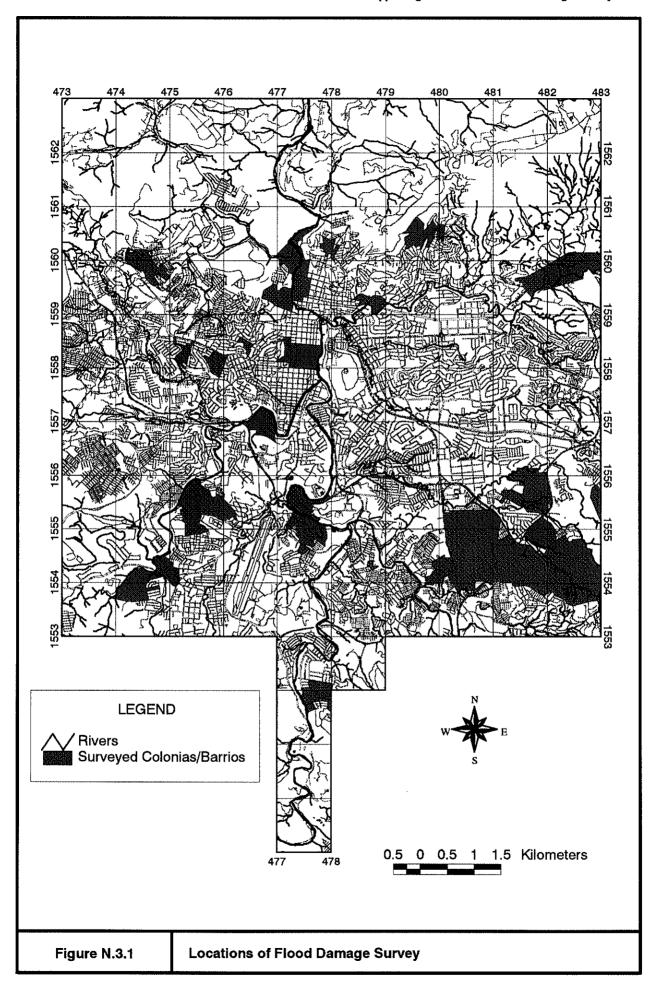
3.2.5 VALUE OF ASSETS IN LANDSLIDE AREA

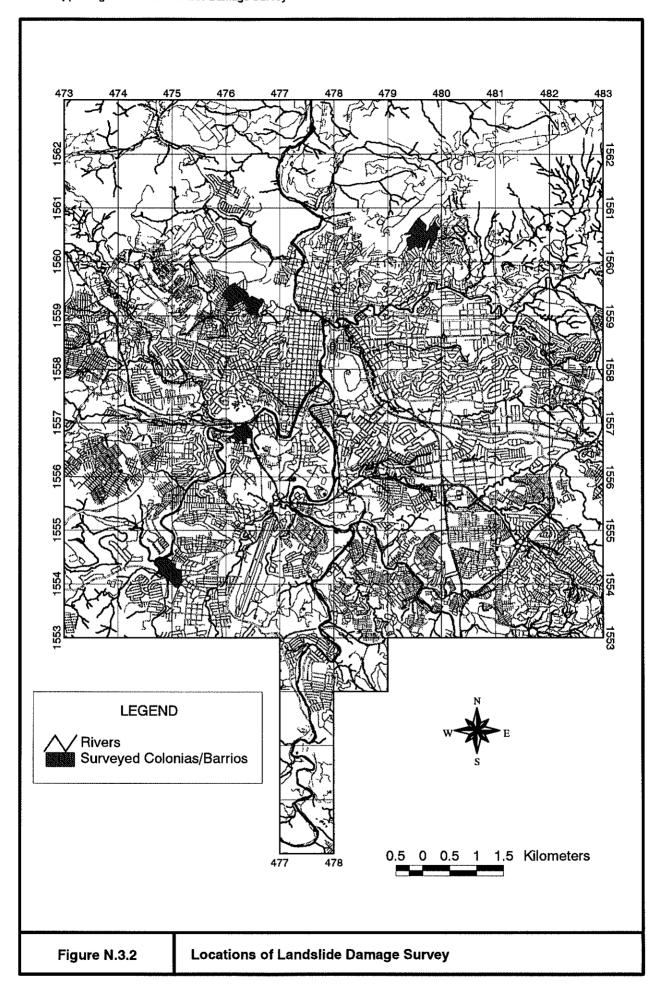
The average value of assets of household in the possible landslide area by household classifications are shown in the table below.

Table N.3.6 Summary of Survey in Possible Landslide Area (Residential)

		Const. Cost of House	Asset's Value	Monthly Income	Living Length	Family Members
Middle	Lps.	120,727	34,000	8,285	21.1	6 05
Wildule	\$	7,789	2,194	534	21.1	6.85
Low	Lps.	50,593	19,157	3,743	15.6	5.00
Low	\$	3,264	1,236	241	15.6	5.69
Poor	Lps.	22,806	9,345	2,889	12.1	6.12
1 001	\$	1,471	603	186	12.1	0.12
Total	Lps.	38,560	14,833	3,492	14.0	5.05
Total	\$	2,488	957	225	14.0	5.95

Source: JICA Survey





REFERENCES

- 1) Informe sobre desarrollo humano Honduras 1999, El Impacto de un huracán, nov. 1999, UNPD(PNUD)
- 2) Informe resumen de daños y pérdidas a la ciudad capital, CODEM
- 3) Resultados del cuestionario de daños por deslizamientos de tierra, derrumbes y arrastre de piedras, tierra y materiales, AMDC
- 4) Resultados del cuestionario de daños por deslizamientos de tierra, derrumbes y arrastre de piedras, tierra y materiales, SANAA
- 5) Alba Consuelo Flores, Preparativos para desastres, COPECO

SUPPORTING REPORT N APPENDIX N

APPENDIX N.1 FLOOD DAMAGE SURVEY RESULT

Flood Damage Survey Result (1/4)

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Flood Damage Survey Result (3/4)

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Flood Damage Survey Result (4/4)

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APPENDIX N.2 LANDSLIDE DAMAGE SURVEY RESULT

Landslide Damage Survey Result (1/5)

Landslide Damage Survey Result (2/5)

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Landslide Damage Survey Result (3/5)

Landslide Damage Survey Result (4/5)

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									-				+			rips	<u>.</u>		S Egis	E E	Arriba re	Editor Critical	Eggs	Vriba re		20 2	r equ	z pg	E L	e e	uriba re	rdb2	_		criba	2 5	- E	Vrriba re	E CHES		_	_	-	_	_			r. Egus	riga,		ē		EQ.	e dip		EQL5	vriba i
Barrio	Colinia	Reparto Arriba	Reparto	Reparto /	Reparto Amba	Reparto A	Reparto /	Reparto Amba	Reparto A	Reparto Amba	Reparto	Reparto Amba	Reparto A	Reparto	Reparto Arriba	Reparto Arriba	Reparto ,	Reparto A	Reparto A	Reparto A	Reparto /	Reparto Amba	Reparto A	Reparto Arriba	Reparto /	Reparto Amba	Reparto A	Reparto A	Reparto Amba	Reparto	Reparto A	Reparto A	Reparto Arriba	Reparto A	Reparto A	Reparto	Reparto A	Reparto Amba	Reparto A	Reparto A	Reparto Amba	Reparto A	Reparto A	Reparto Amba Reporto Amba	Reparto A	Reparto A	Reparto Amba	Reparto A	Reparto A	Reparto Arriba	Reparto A	Reparto /	Reparto A	Reparto A	Reparto A	Reparto Amba	Reparto A
*		22	53 53 73	525	227	223	23	3 8	E	7	200	237	R	239	3	242	3	1	246		748	\$ 5	ž	252	Z.	ž Ž	18	257	200	28	781	2	263	12	266	287	269	2	2 6	222	7.1	276	12	278	8	281	젎	ž	麗	9 28 28 28	8	2	291	252	3 2	150	296

Landslide Damage Survey Result (5/5)

Barrio	Use				Constr.	Construction Materials	terials			O	Ownership and	2001		Sulding	Construc		Number	Amoun	Monca	>	Landslide				Amount of		
6	5		Roof			Wal		4	Floor	propt	property price	area		area	tion	n Lìvíng	g of people	8	Fall	-	Records				Damages		
Colinia	Building	_	ment Tile	Adobe	Adobe Bk	ock Brick	c Wood 5	oil Brick	Zinc Cement 13e Adobe Adobe Block Brick Wood Soi Brick Wood Cement	ent own	pepuas uwo				Cost	st (years)	s) in house	Assets	псоше	o kes no	year	damaged part	land building	ing I.M.	Income Loss	ss Sales Loss	Production Lass
Reparto Arriba	a res/low	 -			H	L	F	-		_		4004	288 20	2007	144 60	60,000 31	4	15,000	1,500		_	_					
Reparto Arriba	a res/low	L			H	Ŀ		-	_	_		2007	144 15		108 25,	25,000 10	3	6,000									
Reparto Arriba	a resilow	E	L		H	H	-				-	250v	190 200v	-	144	æ	3	9,00				_					
Reparto Arriba	a res/poor	-	Ц		_				_	_		250v	180 180v	-		15,000 20	7	12,000				_					
Reparto Arriba	a res/low	-			H	-			_	L	-	2007	144 150v		108	2	2	000'B	5,000	E	1988	floor					
Reparto Arriba	a res/low	_			-	L		_	_	L	_	2007	3,44	-	108	10	5	5,000	25,000			-					
Reparto Arriba	a resilow	-			-	-		=	_	-		350	252 300v	r	216 75	75.000 10	5	15,000	9 5,000				_				
Reparto Arriba	a res/low	-			-	E		-			_	150v	108 130		93	2	3	9,000	3,000					_			
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Reparto Arriba	a res/low	-	L		-	E		=	L			350			L	15,000 21	8	15,000	000'S 000							_	
Reparto Arriba	a res/low	-	_		-	-		-		-		350~		/05Z	180 35	35,000 40	6	18,000					_	-	-	•	
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Reparto Arriba	a res/low	-	_		-	-		=		-		340	245 10	1001	72 10	10,000	2	10,000	3,000		1898	шосл	7	2,000			
Reparto Arriba	a res/low	-	_		-	L	_	-	-	-		7 18	126	01 7	Ï	20,000 40	12	6,000			L					-	
Reparto Arriba	wolves E	-				_	_	_	-	-		8 10	98	01 8	90 30		9	10,000	0 2,500	_					-		
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Reparto Arriba	a res/low				_	_				-		18 7	126 1	10 8		Ш	3	30,000	000'E 0	-						_	
Reparto Amba	a res/low	_	L		-	_		F	-	-		12 10	120	10	000	30,000 5	9	10,000	_		1838	ĮEM.	20	20,000		-	
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Reparto Arriba	a res/poor	_		E	<u></u>	L	-	_		-		B 01	90	9 8		15,000 8	9	10,000	_		1998	N-S	. 2,	2,000 6000		1	
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Reparto Arriba	a res/low	-	L		-	E		-		L	_	12 10	120	10	0 40	40,000	8	20,000	_		1998	wal	10,	10,000 15,000	Q	•	
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Reparto Arriba	a res/poor						-	_		-		10 8	90	10 6	Ц	10,000 13	8	6,000		- 1	1998	walt	1,	1,200	-		
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Reparto Amba	a respoor	-			-			-				10 8	80	10 7	70 10	10,000 12	8	6,000	_		1998	¥2	3	3,000	-		
Recarto Arriba	a Fresdow		L	-	L	ŀ	L			_	_	40.	90	45.0	Ļ			000 30		-			_	L	_		