

TABLE 1

Sample Sizes by Regions and Communities

	<u>Number of Interviews</u>
<u>Highlands</u>	
Chimaltenango (Departmental Capitol)	142
San Martin Jilotepeque (Municipio)	66
Patzun (Municipio)	107
Zaragoza (Municipio)	78
Las Lomas (Aldea)	22
Pacoc-San Marcos (Aldea)	25
Santa Maria Cauque	25
TOTAL	465
<u>East</u>	
El Progreso (Departmental Capitol)	79
Sanarate (Municipio)	110
Santo Domingo (Aldea)	28
Conacaste (Aldea)	28
Espiritu Santo (Aldea)	25
San Juan (Aldea)	23
TOTAL	293
<u>City</u>	
Asentamiento Roosevelt (Guatemalan Gov't.Housing)	53
Carolingia (Agency Housing)	101
Asentamiento 4 de febrero (Squatter Settlement)	117
New Chinautla (Agency Housing)	49
TOTAL	320
TOTAL SAMPLE	1078

TABLE 2 (Part I)

Pre- and Post-Earthquake Wall Types by Geographical Region

Wall Type	<u>Highlands (N=465)</u>						<u>East (N=293)</u>					
	<u>Pre-Eq.</u>		<u>STR #1</u>		<u>STR #2</u>		<u>Pre-Eq.</u>		<u>STR #1</u>		<u>STR #2</u>	
	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%
Patch Work	1	0.2	51	11.0	5	4.6	2	0.7	13	4.5	0	0.0
Cane, Palm, Thatch	10	2.2	39	8.4	6	5.5	18	6.1	34	11.8	1	1.4
Bajareque	17	3.7	15	3.2	1	0.9	37	12.6	36	12.5	0	0.0
Tapla	5	1.1	1	0.2	0	0.0	1	0.3	0	0.0	0	0.0
Wood	5	1.1	125	26.9	25	22.9	3	1.0	82	28.4	30	41.7
Lamina/Duralita	1	0.2	9	1.9	1	0.9	0	0.0	1	0.3	0	0.0
Half Adobe	1	0.2	85	18.3	10	9.2	1	0.3	10	3.5	0	0.0
Half Block	2	0.4	24	5.2	5	4.6	0	0.0	7	2.4	4	5.6
Adobe	409	88.3	24	5.2	10	9.2	225	76.8	64	22.1	7	9.7
Block	11	2.4	92	19.8	45	41.3	6	2.0	41	14.2	30	41.7
Other	1	0.2	0	0.0	1	0.9	0	0.0	1	0.3	0	0.0
Cardboard	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
TOTAL	463*	100.0**	465	100.0	109	100.0	293	100.0	289	100.0	72	100.0

* Differences in totals for Pre-Eq and STR #1 are due to missing information.

** Differences due to rounding.

TABLE 2 (Part II)
Pre- and Post-Earthquake Wall Types by Geographical Region

City (N=320)												Total (N=1078)			
Wall Type	Pre-Eq.		STR #1		STR #2		Pre-Eq.		STR #1		STR #2				
	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%			
Patch Work	10	3.1	45	14.1	1	16.7	13	1.2	109	10.2	6	3.2			
Cane, Palm,Thatch	6	1.9	0	0.0	0	0.0	30	2.8	73	6.8	7	3.7			
Rajareque	3	0.9	0	0.0	0	0.0	57	5.3	51	4.8	1	0.5			
Tapia	0	0.0	0	0.0	0	0.0	6	0.6	1	0.1	0	0.0			
Wood	48	15.0	101	31.6	3	50.0	56	5.2	308	28.7	58	31.0			
Lamina/Duralita	3	0.9	17	5.3	2	33.3	4	0.4	27	2.5	3	1.6			
Half Adobe	4	1.3	0	0.0	0	0.0	6	0.6	95	8.8	10	5.4			
Half Block	2	0.6	0	0.0	0	0.0	4	0.4	31	2.9	9	4.8			
Adobe	206	64.4	0	0.0	0	0.0	840	78.4	88	8.2	17	9.1			
Block	35	10.9	150	46.9	0	0.0	52	4.9	283	26.4	75	40.1			
Other	2	0.6	1	0.3	0	0.0	3	0.3	2	0.2	1	0.5			
Cardboard	1	0.3	6	1.9	0	0.0	1	0.1	6	0.6	0	0.0			
TOTAL	320	100.0	320	100.0	6	100.0	1072	100.0	1074	100.0	187	100.0			

TABLE 3 (Part I)

Pre- and Post-Earthquake Roof Types by Geographical Region

Highlands (N=465)										East (N=293)					
Roof Type	Pre-Eq.		STR #1		STR #2		Pre-Eq.		STR #1		STR #2				
	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%			
Thatch or Palm	20	4.3	12	2.6	0	0.0	40	13.7	23	7.9	1	1.4			
Wood	1	0.2	0	0.0	0	0.0	1	0.3	1	0.3	0	0.0			
Tile	225	48.7	16	3.5	4	3.7	210	79.9	82	28.3	7	9.7			
Tile Over Lamina	0	0.0	0	0.0	1	0.9	0	0.0	4	1.4	0	0.0			
Lamina	209	45.2	378	81.5	83	76.2	36	12.3	143	49.3	45	62.5			
Duralita	4	0.9	48	10.3	19	17.4	3	1.0	26	9.0	19	26.4			
Cement Slab	2	0.4	2	0.4	1	0.9	2	0.7	4	1.4	0	0.0			
Various	1	0.2	8	1.7	1	0.9	0	0.0	7	2.4	0	0.0			
TOTAL	462*	100.0**	464	100.0	109	100.0	292	100.0	290	100.0	72	100.0			

* Differences in totals for Pre-Eq. and STR #1 are due to missing information.

** Differences due to rounding.

TABLE 4 (Part I)

Cross Classification of Wall and Roof Types for Common House Types

Wall Types				Roof Types								
				Thatch		Tile		Lamina or Duralita				
				Pre-Eq.	STR #1	STR #2	Pre-Eq.	STR #1	STR #2	Pre-Eq.	STR #1	STR #2
Patchwork	Number			1	3	0	2	9	0	9	93	5
Percent				0.1	0.3	0.0	0.2	0.8	0.0	0.8	8.6	2.7
Cane or Palm	Number			15	15	1	8	8	0	11	45	5
Percent				1.4	1.4	0.5	0.7	0.7	0.0	1.0	4.2	2.7
Bajareque	Number			35	9	0	15	16	0	7	25	1
Percent				3.2	0.8	0.0	1.4	1.5	0.0	0.7	2.3	0.5
Wood	Number			4	2	0	0	2	0	51	304	59
Percent				0.4	0.2	0.0	0.0	0.2	0.0	4.8	28.3	31.4
Half Adobe or Block	Number			0	6	0	2	6	2	8	110	17
Percent				0.0	0.6	0.0	0.2	0.6	1.1	0.7	10.2	9.0
Adobe	Number			8	0	0	427	54	8	405	29	9
Percent				0.7	0.0	0.0	39.6	5.0	4.3	37.5	2.7	4.8
Block	Number			0	0	0	3	0	1	41	276	73
Percent				0.0	0.0	0.0	0.3	0.0	0.5	3.8	25.6	38.8
All Other	Number			0	0	0	4	2	0	9	35	4
Percent				0.0	0.0	0.0	0.4	0.2	0.0	0.8	4.2	2.1
TOTAL	Number			63	35	1	461	98	11	541	917	173
Percent				5.8	3.3	0.5	42.7	9.1	5.3	50.2	85.3	92.0

TABLE 4 (Part II)

Cross Classification of Wall and Roof Types for Common House Types

Wall Types	Roof Types					
	All Other Roofs			Total		
	<u>Pre-Eq.</u>	<u>STR #1</u>	<u>STR #2</u>	<u>Pre-Eq.</u>	<u>STR #1</u>	<u>STR #2</u>
Patchwork Number Percent	1 0.1	4 0.4	1 0.5	13 1.2	109 10.1	6 3.2
Cane or Palm Number Percent	0 0.0	5 0.5	1 0.5	34 3.2	73 6.8	7 3.7
Bajareque Number Percent	0 0.0	1 0.1	0 0.0	57 5.3	51 4.7	1 0.5
Wood Number Percent	1 0.1	0 0.0	0 0.0	56 5.2	308 28.6	51 31.4
Half Adobe or Block Number Percent	0 0.0	5 0.5	0 0.0	10 0.9	107 9.9	13 6.9
Adobe Number Percent	3 0.3	5 0.5	0 0.0	843 78.1	88 8.2	17 9.0
Block Number Percent	9 0.8	6 0.6	1 0.5	53 4.9	282 26.2	75 39.9
All Other Number Percent	0 0.0	0 0.0	0 0.0	13 1.2	47 4.3	4 2.1
TOTAL	14	26	3	1079	1076	188
Number	14	26	3	1079	1076	188
Percent	1.3	2.4	1.6	100.0	100.0	100.0

TABLE 5

Types of Houses Occupied by Respondents Before and After
The Earthquake

<u>Common House Types</u>	<u>Pre-Earthquake</u>		<u>Post-Earthquake *</u>	
	<u>House</u>		<u>Houses</u>	
	<u>No.</u>	<u>%</u>	<u>No.</u>	<u>%</u>
Adobe and Tile	426	39.5	62	4.9
Adobe and Lamina or Duralita	405	37.5	38	3.0
Wood and Lamina or Duralita	51	4.8	363	28.6
Block and Lamina or Duralita	41	3.8	349	27.5
Bajareque and Thatch or Palm	35	3.2	9	0.7
Bajareque and Tile	15	1.4	16	1.3
Cane or Palm and Thatch or Palm	15	1.4	16	1.3
Cane and Lamina or Duralita	11	1.0	50	3.9
Patchwork and Any Roof	13	1.2	115	9.1
Half Adobe or Block and Lamina or Duralita	8	0.7	127	10.0
Other	59	5.5	122	9.6
TOTAL	1079	100.0	1267	100.0

*Includes Structure I and Structure II.

TABLE 6 (Part I)

Floor Types in Pre- and Post-Earthquake Houses Classified by Region

Floor Type	Highlands				East							
	Pre-EQ.		STR #1		STR #2		Pre-EQ.		STR #1		STR #2	
	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%
Dirt	277	59.7	255	54.8	43	39.5	154	52.6	181	62.4	35	48.6
Wood	0	0.0	0	0.0	0	0.0	2	0.7	3	1.0	0	0.0
Brick	40	8.6	16	3.4	4	3.7	47	16.0	20	6.9	3	4.2
Concrete	72	15.5	137	29.5	43	39.5	45	15.4	47	16.2	17	23.6
Tile	74	16.0	52	11.2	18	16.5	43	14.7	37	12.8	17	23.6
Other	1	0.2	5	1.1	1	0.9	2	0.7	2	0.7	0	0.0
TOTAL	464	100.0	465	100.0	109	100.0	293	100.0	290	100.0	72	100.0

TABLE 6 (Part II)

Floor Types in Pre- and Post-Earthquake Houses Classified by Region

Floor Type	City						Total					
	Pre-Eq.		STR #1		STR #2		Pre-Eq.		STR #1		STR #2	
	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%
Dirt	127	39.7	159	49.7	5	83.3	558	51.8	595	55.4	83	44.4
Wood	2	0.6	0	0.0	0	0.0	4	0.4	3	0.3	0	0.0
Brick	9	2.8	0	0.0	0	0.0	96	8.9	36	3.4	7	3.7
Concrete	95	29.7	160	50.0	1	16.7	212	19.7	344	32.0	61	32.6
Tile	85	26.6	0	0.0	0	0.0	202	18.8	89	8.3	35	18.7
Other	2	0.6	1	0.3	0	0.0	5	0.5	8	0.7	1	0.5
TOTAL	320	100.0	320	100.0	6	100.0	1077	100.0	1075	100.0	187	100.0

TABLE 7 (Part I)

Uses of Various Materials for Corner Posts or Columns in the Walls of Pre- and Post-Earthquake Houses Classified by Regions												
Corner Posts or Columns	Highlands						East					
	Pre-EQ.		STR #1		STR #2		Pre-EQ.		STR #1		STR #2	
	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%
None	370	79.7	19	4.1	2	1.8	218	74.4	63	21.7	11	15.3
Untreated logs	58	12.5	131	28.2	17	15.6	63	21.5	101	34.8	2	2.8
Treated logs	1	0.2	1	0.2	0	0.0	0	0.0	0	0.0	0	0.0
Treated Lumber	18	3.9	210	45.2	41	37.6	4	1.4	78	26.9	27	37.5
Metal	0	0.0	3	0.6	1	0.9	0	0.0	2	0.7	0	0.0
Unreinforced Concrete	1	0.2	1	0.2	4	3.6	1	0.3	1	0.3	0	0.0
Reinforced Concrete	1	0.2	1	0.2	1	0.9	1	0.3	0	0.0	0	0.0
Prefabricated Concrete	11	2.4	98	21.1	43	39.5	5	1.7	44	15.2	32	44.4
No Information	4	0.9	1	0.2	0	0.0	1	0.3	1	0.3	0	0.0
TOTAL	464	100.0	465	100.0	109	100.0	293	100.0	290	100.0	72	100.0

TABLE 7 (Part II)

Uses of Various Materials for Corner Posts or Columns in the Walls of Pre- and Post-Earthquake Houses Classified by Regions

Corner Posts or Columns	City						Total					
	Pre-EQ.		STR #1		STR #2		Pre-EQ.		STR #1		STR #2	
	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%
None	133	41.6	2	0.6	0	0.0	721	67.0	84	7.8	13	7.0
Untreated Logs	29	9.1	3	0.9	1	16.7	150	13.9	235	21.9	20	10.7
Treated Logs	0	0.0	0	0.0	0	0.0	0	0.0	1	0.1	0	0.0
Treated Lumber	109	34.1	165	51.6	5	83.3	131	12.2	453	42.1	73	39.0
Metal	0	0.0	0	0.0	0	0.0	0	0.0	5	0.5	1	0.5
Unreinforced Concrete	0	0.0	0	0.0	0	0.0	2	0.2	2	0.2	4	2.1
Reinforced Concrete	4	1.2	0	0.0	0	0.0	6	0.6	1	0.1	1	0.5
Prefabricated Concrete	33	10.3	150	46.9	0	0.0	50	4.6	292	27.2	75	40.1
No Information	12	3.8	0	0.0	0	0.0	17	1.6	2	0.2	0	0.0
TOTAL	320	100.0	320	100.0	6	100.0	1077	100.0	1075	100.0	187	100.0

TABLE 8

The Use of Various Types of Materials for Cross Bracing in Pre- and
Post-Earthquake Houses Classified by Region

	Highlands						East					
	Pre-EQ.		STR #1		STR #2		Pre-EQ.		STR #1		STR #2	
	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%
Cross Bracing												
None	448	96.8	433	93.3	98	88.3	266	90.8	276	95.5	68	94.4
Wire	5	1.1	5	1.1	5	4.5	2	0.7	0	0.0	0	0.0
Wood	7	1.5	23	5.0	6	5.4	24	8.2	9	3.1	2	2.8
Iron or Steel	1	0.2	3	0.6	2	1.8	0	0.0	3	1.0	2	2.8
Other	0	0.0	0	0.0	0	0.0	1	0.3	0	0.0	0	0.0
No Information	2	0.4	0	0.0	0	0.0	0	0.0	1	0.4	0	0.0
TOTAL	463	100.0	464	100.0	111	100.0	293	100.0	289	100.0	72	100.0
	City						Total					
	Pre-EQ.		STR #1		STR #2		Pre-EQ.		STR #1		STR #2	
	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%
Cross Bracing												
None	292	91.2	318	99.7	6	85.7	1006	93.5	1027	95.8	172	90.5
Wire	19	5.9	1	0.3	0	0.0	26	2.4	6	0.6	5	2.6
Wood	5	1.6	0	0.0	0	0.0	36	3.4	32	3.0	8	4.2
Iron or Steel	1	0.3	0	0.0	0	0.0	2	0.2	6	0.6	4	2.1
Other	1	0.3	0	0.0	0	0.0	2	0.2	0	0.0	0	0.0
No Information	2	0.6	0	0.0	1	14.3	4	0.4	1	0.1	1	0.5
TOTAL	320	100.0	319	100.0	7	100.0	1076	100.0	1072	100.0	190	100.0

TABLE 9 (Part I)

The Use of Various Materials for Foundations in Pre- and Post-Earthquake
Houses Classified by Regions

	Highlands				East							
Foundation	Pre-Eq.		STR #1		STR #2		Pre-Eq.		STR #1		STR #2	
	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%
None	47	10.2	215	46.2	33	30.3	62	21.2	147	50.7	18	25.0
Adobe	317	68.5	77	16.6	11	10.1	13	4.4	8	2.8	1	1.4
Clods of Earth	7	1.5	1	0.2	0	0.0	12	4.1	5	1.7	0	0.0
Loose Stones	25	5.4	9	1.9	11	10.1	104	35.5	48	16.6	18	25.0
Rock and Cement	31	6.7	13	2.8	4	3.7	85	29.0	29	10.0	5	6.9
Concrete without Reinforcement	2	0.4	5	1.1	1	0.9	2	0.7	4	1.4	1	1.4
Reinforced Concrete	9	1.9	105	22.6	42	38.5	5	5.6	41	14.1	28	38.9
Other	5	1.1	31	6.4	7	6.4	2	0.7	6	2.1	1	1.4
No Information	20	4.3	9	1.9	0	0.0	8	2.7	2	0.7	0	0.0
TOTAL	463	100.0	465	100.0	109	100.0	293	100.0	290	100.0	72	100.0

TABLE 9 (Part II)

The Use of Various Materials for Foundations in Pre- and Post-Earthquake
Houses Classified by Regions

	City						Total					
	Pre-EQ.		STR #1		STR #2		Pre-EQ.		STR #1		STR #2	
	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%
Foundation												
None	88	27.5	170	53.1	5	83.3	197	18.3	532	49.4	56	26.0
Adobe	103	32.2	0	0.0	0	0.0	433	40.2	85	7.9	12	6.4
Clods of Earth	13	4.1	0	0.0	1	16.7	32	3.0	6	0.6	1	0.5
Loose Stones	10	3.1	0	0.0	0	0.0	139	12.9	57	5.3	29	15.5
Rock and Cement	24	7.5	0	0.0	0	0.0	140	13.0	42	3.9	9	4.8
Concrete without Reinforcement	2	0.6	0	0.0	0	0.0	6	0.6	9	0.8	2	1.1
Reinforced Concrete	19	5.9	150	46.9	0	0.0	33	3.1	296	27.5	70	37.4
Other	3	0.9	0	0.0	0	0.0	10	0.9	37	3.5	8	4.3
No Information	58	18.1	0	0.0	0	0.0	86	8.0	11	1.0	0	0.0
TOTAL	320	100.0	320	100.0	6	100.0	1076	100.0	1075	100.0	187	100.0

TABLE 10

Number of Rooms in Pre- and Post-Earthquake Houses

<u>No. of Rooms</u>	<u>Pre-EQ. House*</u>		<u>Post-EQ. Houses</u>			
	<u>No.</u>	<u>%</u>	<u>STR #1 & #2 Combined</u>		<u>STR #1 Only</u>	
			<u>No.</u>	<u>%</u>	<u>No.</u>	<u>%</u>
1	519	48.3	445	41.4	569	53.0
2	312	29.0	300	27.9	226	21.1
3	114	10.6	178	16.6	134	12.5
4	52	4.8	107	10.0	76	7.1
5	31	2.9	15	1.4	9	0.8
6	15	1.4	15	1.4	8	0.8
7	13	1.2	3	0.3	4	0.4
8	18	1.7	7	0.6	6	0.6
9	1	0.1	2	0.2	1	0.1
10			1	0.1		
11			0	0.0		
12			1	0.1		
13			1	0.1		
TOTAL	1075	100.0	1075	100.0	1073	100.0

* Only principal dwelling was counted in pre-earthquake period. There was therefore only one structure per family counted at that time.

Table 1.1

The Use of Various Materials for Windows in Pre- and Post-Earthquake Houses
Classified by Regions

Highlands (N=465)												East (N=293)															
Windows	Pre-EQ.		STR #1		STR #2			Pre-EQ.		STR #1		STR #2															
	No.	%	No.	%	No.	%		No.	%	No.	%	No.	%														
None	189	40.9	218	47.1	30	27.8		101	34.5	133	45.9	7	9.5														
Plastic	2	0.4	4	0.9	1	0.9		6	2.1	10	3.5	2	2.7														
Metal or Cloth Screen	1	0.2	3	0.7	0	0.0		1	0.3	2	1.1	1	1.4														
Wooden Shutters	214	46.3	178	38.4	50	46.3		162	55.3	117	40.3	45	60.8														
Glass	51	11.0	59	12.7	21	19.4		20	6.8	24	8.3	16	21.6														
Other	5	1.1	1	0.2	6	5.6		3	1.0	4	1.4	3	4.1														
TOTAL	462	100.0	463	100.0	108	100.0		293	100.0	290	100.0	74	100.0														

City (N=320)														Total (N=1078)													
Windows	Pre-EQ.		STR #1		STR #2			Pre-EQ.		STR #1		STR #2															
	No.	%	No.	%	No.	%		No.	%	No.	%	No.	%														
None	122	38.1	124	38.8	4	66.7		412	38.3	475	44.3	41	21.8														
Plastic	1	0.3	0	0.0	0	0.0		9	0.8	14	1.3	3	1.6														
Metal or Cloth Screen	2	0.6	1	0.3	0	0.0		4	0.4	6	0.6	0	0.0														
Wooden Shutters	141	44.1	187	58.4	2	33.3		517	48.1	482	44.9	97	51.6														
Glass	51	15.9	5	1.6	0	0.0		126	11.7	88	8.2	42	22.3														
Other	3	0.9	3	0.9				11	1.0	8	0.8	9	4.8														
TOTAL	320	100.0	320	100.0	6	100.0		1075	100.0	1073	100.0	188	100.0														

TABLE 12

Presence or Absence of Kitchens Inside the House, Before and After the
Earthquake Classified by Regions

Highlands (N=465)												East (N=293)					
Kitchen Inside House	Pre-Eq.		STR #1		STR #2		Pre-Eq.		STR #1		STR #2						
	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%					
No	314	68.1	316	68.4	95	88.8	164	56.6	175	62.1	58	85.3					
Yes	147	31.9	146	31.6	12	11.2	126	43.5	107	37.9	10	14.7					
TOTAL	461	100.0	462	100.0	107	100.0	290	100.0	282	100.0	68	100.0					
City (N=320)												Total (N=1078)					
Kitchen Inside House	Pre-Eq.		STR #1		STR #2		Pre-Eq.		STR #1		STR #2						
	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%					
No	184	58.2	130	40.9	5	83.3	662	62.0	621	58.5	158	87.3					
Yes	132	41.8	188	59.1	1	16.7	405	37.9	441	41.5	23	12.7					
TOTAL	316	100.0	318	100.0	6	100.0	1067	100.0	1062	100.0	181	100.0					

TABLE 13
Presence or Absence of Porch or Corridor on Pre-and Post-Earthquake Houses
Classified by Region

Highlands (N=465)												East (N=293)					
Porch	Pre-Eq.		STR #1		STR #2		Pre-Eq.		STR #1		STR #2						
	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%					
No	146	31.8	293	63.2	69	63.3	50	17.1	151	52.1	34	47.9					
Yes	313	68.2	171	36.9	40	36.7	242	82.9	139	47.9	37	52.1					
TOTAL	459	100.0	464	100.0**	109	100.0	292	100.0	290	100.0	71	100.0					
**Differences due to rounding.																	

City (N=320)												Total (N=1078)					
Porch	Pre-Eq.		STR #1		STR #2		Pre-Eq.		STR #1		STR #2						
	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%					
No	168	52.9	265	83.1	6	100.0	364	34.1	709	66.1	109	58.7					
Yes	150	47.2	54	16.9	0	0.0	705	65.9	364	33.9	77	41.4					
TOTAL	318	100.0	319	100.0	6	100.0	1069	100.0	1073	100.0	186	100.0					

TABLE 14

Indigenous and Industrial Materials Used in House Construction
Before and After Earthquake

(All Sample Areas Combined)

<u>Materials</u>	<u>Pre-EQ.</u>		<u>Post-EQ.</u>	
	<u>No.</u>	<u>%</u>	<u>No.</u>	<u>%</u>
Indigenous	512	47.5	111	8.8
Industrial Manufacture	109	10.1	783	62.0
Mixed	439	40.7	233	18.4
Other	19	1.8	137	10.8
TOTAL	1079	100.0	1264	100.0

TABLE 15
Damage to Various Wall Types

Wall Type	Amount of Damage to Walls					Total	Average Damage
	Category						
	None	Slight	Much	Destroyed			
	Weight						
	0	1	2	3			
Patchwork	Number Percent	2 15.4	4 30.7	4 30.7	3 23.1	13 100.0	1.6
Cane, Palm	Number Percent	18 52.9	3 8.8	4 11.8	9 26.5	34 100.0	1.1
Bajareque	Number Percent	11 19.3	12 21.0	12 21.0	22 38.6	57 100.0	1.8
Tapia	Number Percent	0 0	2 40.0	0 0	3 70.0	5 100.0	2.2
Wood	Number Percent	22 39.3	17 30.4	11 19.6	6 10.7	56 100.0	1.1
Lamina/Duralita	Number Percent	1 25.0	2 50.0	1 25.0	0 0	4 100.0	1.0
Half Adobe	Number Percent	1 16.7	2 33.3	0 0	3 50.0	6 100.0	1.8
Half Block	Number Percent	1 25.0	2 50.0	1 25.0	0 0	4 100.0	1.0
Adobe	Number Percent	29 3.4	81 9.6	217 25.8	515 61.2	842 100.0	2.4
Block	Number Percent	28 52.8	13 24.5	7 13.2	5 9.4	53 100.0	0.8
Other	Number Percent	1 25.0	0 0	3 75.0	0 0	4 100.0	0.8
TOTAL	Number Percent	114 10.6	138 12.8	260 24.1	566 52.5	1078 100.0	2.2

TABLE 1 6

Damage to Various Roof Types

Wall Type Pre-Eq. House	Amount of Damage to Roofs					Total	Average Damage
	Category						
	None	Slight	Much	Destroyed			
	Weight						
	0	1	2	3			
Thatch or Palm	Number Percent	34 54.0	6 9.5	6 9.5	17 27.0	63 100.0	1.1
Wood	Number Percent	1 50.0	0 0	0 0	1 50.0	2 100.0	1.5
Tile	Number Percent	48 10.4	59 12.8	108 23.5	245 53.3	460 100.0	2.2
Lamina	Number Percent	160 30.5	43 8.2	64 12.2	257 49.1	524 100.0	1.8
Duralita	Number Percent	8 47.1	1 5.9	3 17.6	5 29.4	17 100.0	1.3
Cement Slab	Number Percent	7 77.8	1 11.1	1 11.1	0 0	9 100.0	0.3
Patchwork	Number Percent	2 66.7	1 33.3	0 0	0 0	3 100.0	0.3
TOTAL	Number Percent	260 24.1	111 10.3	183 17.0	525 48.6	1079 100.0	1.9

TABLE 17

Estimates for Various Pre-Earthquake House Types

<u>House Types</u> <u>Walls x Roof</u>	<u>No. of</u> <u>Houses</u>	<u>Average</u> <u>Damage *</u>	<u>Standard</u> <u>Deviation</u>
Adobe and Tile	426	2.30	0.87
Adobe and Lamina	405	2.31	0.93
Wood and Lamina	51	0.91	0.97
Cement Block and Lamina or Duralita	41	0.60	0.91
Bajareque and Thatch	35	1.37	1.15
Bajareque and Tile	15	1.77	1.18
Cane and Thatch	15	0.43	0.88
Cane and Lamina	11	1.86	1.42
Patchwork Walls any roof	13	1.27	1.01
Half Block or Adobe and Lamina or Duralita	8	1.56	1.32
All Others	59	1.48	1.14
TOTAL	1079	2.08	0.94

*Average Damage = Wall Damage Score + Roof Damage Score / 2 x number of houses in housing type.

TABLE 18

Differential Damage to Tile and Lamina Roofs When Combined
With Adobe and Non-Adobe Walls

<u>Wall Type</u>		<u>Damage to Tile Roofs</u>				
		<u>None</u>	<u>Slight</u>	<u>Much</u>	<u>Destroyed</u>	<u>Total</u>
Adobe	No.	41	51	97	234	426
	%	9.0	12.7	22.8	54.9	100.0
Non-Adobe	No.	7	5	11	10	32
	%	21.9	15.6	34.4	31.2	100.0
Total	No.	48	59	108	244	458
	%	10.5	12.9	23.6	53.3	100.0

		<u>Damage to Lamina Roofs</u>				
		<u>None</u>	<u>Slight</u>	<u>Much</u>	<u>Destroyed</u>	<u>Total</u>
Adobe	No.	445	28	28	234	735
	%	60.5	3.8	3.8	31.8	100.0
Non-Adobe	No.	75	13	8	21	117
	%	64.0	11.1	6.8	18.0	100.0
Total	No.	520	41	36	255	852
	%	61.0	4.8	4.2	26.4	100.0

TABLE 19

Average Damage to Roofs of Tile and Lamina When Combined
With Adobe and Non-Adobe Walls

<u>Walls</u>	<u>Roofs</u>		<u>Total</u>
	<u>Tile</u>	<u>Lamina</u>	
Adobe	2.22	1.07	1.49
Non-Adobe	1.78	0.79	1.00
Total	2.13	1.03	1.44

TABLE 2 0 (Part I)

Tenable of House and Land Before and After Earthquake by Region *

Region	Squatting		Loaned		Rented		Owned**		Total	
	House	Land	House	Land	House	Land	House	Land	House	Land
<u>Highlands</u>										
Pre-EQ.	No.		0	0	69	95	36	41	357	326
	%		0.0	0.0	14.9	20.6	7.8	8.9	77.3	70.6
									462	462
									100.0	100.0
STR #1	No.	1	0	16	66	15	31	433	366	465
	%	0.2	0.0	3.5	14.3	3.2	6.7	93.5	79.1	100.0
									100.0	100.0
STR #2	No.	0		0		1		108		109
	%	0.0		0.0		0.9		99.1		100.0
<u>East</u>										
Pre-EQ.	No.	0	0	20	29	39	41	234	223	293
	%	0.0	0.0	6.8	9.9	13.3	14.0	79.9	76.1	100.0
STR #1	No.	1	0	10	26	15	20	264	244	290
	%	0.3	0.0	3.5	8.9	5.2	6.9	91.0	84.1	100.0
STR #2	No.	0		2		0		70		72
	%	0.0		2.8		0.0		97.2		100.0

* Land tenure is the same for Structure II as for Structure I.

** Owned or ownership pending.

TABLE 20 (Part II)

Tenure of House and Land Before and After Earthquake by Region

<u>Region</u>	<u>Squatting</u>		<u>Loaned</u>		<u>Rented</u>		<u>Owned</u>		<u>Total</u>	
	<u>House</u>	<u>Land</u>	<u>House</u>	<u>Land</u>	<u>House</u>	<u>Land</u>	<u>House</u>	<u>Land</u>	<u>House</u>	<u>Land</u>
<u>City</u>										
<u>Pre-Eq.</u>	No.		40	50	232	238	47	29	320	320
	%		12.5	15.6	72.5	74.4	14.7	9.1	100.0	100.0
STR #1	No.	1	4	80	51	51	264	149	320	320**
	%	0.3	1.2	25.0	15.9	15.9	82.5	46.5	100.0	100.0
STR #2	No.	0	0		1		4		5	
	%	0.0	0.0		20.0		80.0		100.0	
<u>Total</u>										
<u>Pre-Eq.</u>	No.	1	3	129	174	307	638	578	1075	0
	%	0.1	0.3	12.0	16.2	28.6	59.4	53.8	100.0	100.0
STR #1	No.	3	22	30	172	81	961	759	1075	0
	%	0.3	2.0	2.8	16.0	7.5	89.4	70.6	100.0	100.0
STR #2	No.	0		2		2	182		186	
	%	0.0		1.1		1.1	97.8		100.0	

** There were 18 cases who did not answer on tenure question for Struct. I in the 4th of February community.

TABLE 21 (Part I)
Land and House Tenure by Ethnic Groups

Ethnicity	Pre-Earthquake House					Structure I				
	Squattling	Loaned	Rented	Owned	Total	Squattling	Loaned	Rented	Owned	No Information
INDIANS										
House	No.	47	38	237	322	0	1	8	313	0
%	0.0	14.6	11.8	73.6	100.0	0.0	0.3	2.5	97.2	0.0
Land	No.	71	41	209	322	2	43	19	252	6
%	0.3	22.1	12.7	64.9	100.0	0.6	13.4	5.9	78.2	1.9
LADINOS										
House	No.	83	269	393	746	2	29	72	640	0
%	0.1	11.1	36.1	52.7	100.0	0.3	3.9	9.7	86.1	0.0
Land	No.	106	278	360	746	20	128	82	499	14
%	0.3	14.2	37.3	48.3	100.0	2.7	17.2	11.0	67.2	1.9
TOTAL										
House	No.	130	307	630	1068	2	30	80	953	0
%	0.1	12.2	28.8	59.0	100.0	0.2	2.8	7.5	89.5	0.0
Land	No.	177	319	569	1068	22	171	101	751	20
%	0.3	16.6	29.9	53.3	100.0	2.1	16.1	9.5	70.5	1.9

TABLE 21 (Part II)
Land and House Tenure by Ethnic Groups

<u>Ethnicity</u>	<u>Structure II</u>					
	<u>Squatting</u>	<u>Loaned</u>	<u>Rented</u>	<u>Owned</u>	<u>No Information</u>	<u>Total</u>
INDIANS						
House	No. %	0 0.0	1 1.5	66 98.5	0 0.0	67 100.0
Land	No. %	3 4.5	6 9.0	57 85.0	1 1.5	67 100.0
LADINOS						
House	No. %	2 0.0	1 0.9	113 97.4	0 0.0	116 100.0
Land	No. %	9 7.8	4 3.4	103 88.8	0 0.0	116 100.0
TOTAL						
House	No. %	2 1.1	2 1.1	179 97.8	0 0.0	183 100.0
Land	No. %	12 6.6	10 5.5	160 87.4	1 0.6	183 100.0

TABLE 22

Distribution of Agency Houses by Community and by Region

Region and Community	Received Agency House		Did Not Receive Agency House		No Information		Total	
	Number	Percent	Number	Percent	Number	Percent	Number	Percent
Highlands								
Chimaltenango	44	31.0	97	68.3	1	0.7	142	100.0
San Martin Jilotepeque	39	59.1	27	40.9	0	0.0	66	100.0
Patzun	71	66.4	36	33.6	0	0.0	107	100.0
Zaragoza	9	11.5	68	87.2	1	1.3	78	100.0
Las Lomas	1	4.6	21	95.4	0	0.0	22	100.0
Pacoc - San Marcos	14	56.0	10	40.0	1	4.0	25	100.0
Santa Maria Cauque	22	88.0	3	12.0	0	0.0	25	100.0
TOTAL	200	43.0	262	57.0	3	0.6	465	100.0
East								
El Progreso	67	84.8	9	11.4	3	3.8	79	100.0
Sanarate	36	32.7	74	67.3	0	0.0	110	100.0
Santo Domingo	3	10.7	25	89.3	0	0.0	28	100.0
Conacaste	0	0.0	27	100.0	0	0.0	27	100.0
Espiritu Santo	16	64.0	9	36.0	0	0.0	25	100.0
San Juan	0	0.0	23	100.0	0	0.0	23	100.0
TOTAL	122	41.8	167	57.2	3	1.0	292	100.0
City								
Asentamiento del Roosevelt	53	100.0	0	0.0	0	0.0	53	100.0
Colonia la Carolingia	100	99.0	0	0.0	1	1.0	101	100.0
Asentamiento 4 de Febrero	8	6.8	108	92.3	1	0.8	117	100.0
New Chlnautla	47	95.9	1	2.0	1	2.0	49	100.0
TOTAL	208	65.0	109	34.1	3	0.9	320	100.0
GRAND TOTAL	530	49.2	538	50.0	9	0.8	1077	100.0

TABLE 23

Comparison of Wall Types Between Agency and Non-Agency Post-Earthquake Houses

<u>Walls</u>	<u>Code</u>	<u>Non-Agency Houses</u>		<u>Agency Houses</u>		<u>Total</u>	
		<u>No.</u>	<u>%</u>	<u>No.</u>	<u>%</u>	<u>No.</u>	<u>%</u>
Patchwork	1	112	15.5	2	0.4	114	9.1
Cane, Palm, Thatch	2	78	10.8	0	0.0	78	6.2
Bajareque	3	49	6.8	1	0.2	50	4.0
Tapia	4	1	0.1	0	0.0	1	0.1
Wood	5	134	18.5	234	44.2	368	29.4
Lamina/Duralita	6	21	2.9	10	1.9	31	2.5
Half Adobe	7	98	13.5	5	0.9	103	8.2
Half Block	8	23	3.2	17	3.2	40	3.2
Adobe	9	99	13.7	6	1.1	105	8.4
Block	10	101	13.9	253	47.7	354	28.2
Carton	12	6	0.8	0	0.0	6	0.5
Other	11	2	0.3	2	0.4	4	0.3
TOTAL		724	100.0	530	100.0	1254	100.0

TABLE 24

Roof Types on Agency and Non-Agency Houses Built after the Earthquake

<u>Roof Types</u>	<u>Non-Agency Houses</u>		<u>Agency Houses</u>		<u>Total</u>	
	<u>No.</u>	<u>%</u>	<u>No.</u>	<u>%</u>	<u>No.</u>	<u>%</u>
Thatch or Palm	29	4.0	6	1.1	35	2.8
Wood	1	0.1	0	0.0	1	0.1
Tile	108	14.9	1	0.2	109	8.7
Tile over lamina	5	0.7	0	0.0	5	0.4
Lamina	545	75.3	428	80.8	973	77.6
Duralita	15	2.1	94	17.7	109	8.7
Cement Slab	5	0.7	1	0.2	6	0.5
Combination, Patchwork	16	2.2	0	0.0	16	1.3
TOTAL	724	100.0	530	100.0	1254	100.0

TABLE 25

Comparison of Housing Features Found in Agency and Non-Agency Houses

<u>Housing Feature</u>	<u>Agency Houses</u>						<u>Non-Agency Houses</u>					
	<u>Number with Feature</u>	<u>Percent with Feature</u>	<u>Number without Feature</u>	<u>Percent without Feature</u>	<u>Total No.</u>	<u>%</u>	<u>Number with Feature</u>	<u>Percent with Feature</u>	<u>Number without Feature</u>	<u>Percent without Feature</u>	<u>Total No.</u>	<u>%</u>
Foundation	333	62.8	197	37.2	530	100.0	334	46.1	390	53.9	724	100.0
Columns	514	97.0	16	3.0	530	100.0	643	88.8	81	11.2	724	100.0
Cross bracing	29	5.5	500	94.5	529	100.0	28	3.9	694	96.1	722	100.0
Windows	468	88.6	60	11.4	528	100.0	273	37.7	451	62.3	724	100.0
One Room Only	266	50.2	264	49.8	530	100.0	418	57.7	306	42.3	724	100.0
Kitchen in House	164	31.5	356	68.5	520	100.0	297	41.5	419	58.5	716	100.0
Porch	152	28.7	377	71.3	529	100.0	285	39.6	437	60.4	723	100.0

TABLE. 26

Agency and Non-Agency House Types

<u>House Types</u>	<u>Non-Agency House</u>		<u>Agency House</u>		<u>Total</u>	
	<u>No.</u>	<u>%</u>	<u>No.</u>	<u>%</u>	<u>No.</u>	<u>%</u>
Adobe and Tile	62	8.5	0	0.0	62	4.9
Adobe and Lamina or Duralita	32	4.4	6	1.1	38	3.0
Wood and Lamina or Duralita	131	18.0	233	43.2	364	28.7
Block and Lamina or Duralita	95	13.1	253	46.8	348	27.5
Bajareque and Lamina or Duralita	9	1.2	0	0.0	9	0.7
Bajareque and Tile	16	2.2	0	0.0	16	1.3
Cane and Thatch	15	2.1	1	0.2	16	1.3
Cane and Lamina or Duralita	49	6.7	0	0.0	49	3.9
Patchwork and Any Roof	112	15.4	3	0.6	115	9.1
Half and Half and Lamina or Duralita	107	14.7	19	3.5	126	9.9
Other	99	13.6	25	4.6	124	9.8
TOTAL	727	100.0	540*	100.0	1267	100.0

*Ten of these houses were rented, bought or borrowed from persons who received them from agencies.

TABLE. 27

Region	Use of Agency Houses										No						
	Dwelling		Business		Storehouse		Barn		Materials			Other		Information		Total	
	No.	%	No.	%	No.	%	No.	%	No.	%		No.	%	No.	%	No.	%
Highlands	181	89.6	1	0.5	7	3.5	0	0.0	0	0.0	12	5.9	1	0.5	202	100.0	
East	106	83.5	2	1.6	5	3.9	0	0.0	3	2.4	8	6.3	3	2.4	127	100.0	
City	211	100.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	211	100.0	
TOTAL	498	92.2	3	0.6	12	2.2	0	0.0	3	0.6	20	3.7	4	0.7	540	100.0	

TABLE 28

Additions to Agency Structure

<u>Region</u>	<u>No</u>		<u>Yes</u>		<u>Total</u>	
	<u>No.</u>	<u>%</u>	<u>No.</u>	<u>%</u>	<u>No.</u>	<u>%</u>
Highlands	127	60.5	74	36.8	201	100.0
East	80	64.0	45	36.0	125	100.0
City	120	56.9	91	43.1	211	100.0
TOTAL	327	60.9	210	39.1	537	100.0

TABLE 29

Summary of Damage to Roof and Walls of Pre-Earthquake House Classified
by Whether Households Receive an Agency House or Not

<u>Damage to Roof and Walls</u>	<u>Did Not Receive Agency House</u>		<u>Received Agency House</u>		<u>Total</u>	
	<u>No.</u>	<u>%</u>	<u>No.</u>	<u>%</u>	<u>No.</u>	<u>%</u>
Light Damage to Roof and Walls	151	65.9	78	34.1	229	100.0
Light Damage to Walls, Heavy to Roof	18	85.7	3	14.3	21	100.0
Light Damage to Roof, Heavy to Walls	72	52.2	66	47.8	138	100.0
Heavy Damage to Both Roof & Walls	297	43.7	383	56.3	680	100.0
TOTAL	538	50.4	530	49.6	1068	100.0

$\chi^2 = 44.93$ with 3df $P < .01$

TABLE 30

Size of Agency House as Compared to Pre-Earthquake House

<u>Size</u>	<u>Highlands</u>		<u>East</u>		<u>City</u>		<u>Total</u>	
	<u>No.</u>	<u>%</u>	<u>No.</u>	<u>%</u>	<u>No.</u>	<u>%</u>	<u>No.</u>	<u>%</u>
Smaller	101	53.44	80	75.47	56	26.54	237	46.84
Equal	46	24.34	15	14.15	33	15.64	94	18.58
Larger	38	20.11	10	9.43	121	57.35	169	33.40
No Info.	4	2.12	1	0.94	1	0.47	6	1.19
TOTAL	189	100.0	106	100.0	211	100.0	506	100.0

TABLE 31
Opinions of Whether Agency Houses are Safer or Less Safe Than
Pre-Earthquake Dwellings

Region	Safer		Same		Not as Safe		No Opinion		Total	
	No.	%	No.	%	No.	%	No.	%	No.	%
Highlands	149	78.8	13	6.9	15	7.9	12	6.4	189	100.0
East	73	68.9	8	7.6	21	19.8	4	3.8	106	100.0
City	170	80.6	5	2.4	28	13.3	8	3.8	211	100.0
TOTAL	392	77.5	26	5.1	64	12.6	24	4.7	506	100.0

TABLE 32

Reasons Agency House is Thought to be Safer than Pre-Earthquake Dwelling

<u>Reasons House is More Safe</u>	<u>Number</u>	<u>Percent</u>
Non-adobe	133	26.4
Lower	11	2.2
Built Well	69	13.7
Built by Outside Agency	9	1.8
Built by Family	0	0.0
On a Better Site	7	1.4
Better Foundation Materials	24	4.8
Material for Roof Stronger and/or Lighter	26	5.2
Material for Columns and Beams Better	75	14.9
Material for Walls is Better	120	23.9
Walls Have Cross-bracing	2	0.4
Walls are Fastened With Wire	3	0.6
Has More Doors and Windows	1	0.2
Other	14	2.8
No Answer	10	2.0
Total	504	100.0

TABLE 33

Reasons Agency House is Thought to be Less Safe than Pre-Earthquake Dwelling

<u>Reasons House is Less Safe</u>	<u>Number</u>	<u>Percent</u>
It is Crooked	1	1.3
Located on Bad Site	1	1.3
Bad Construction	19	23.8
Built in a Hurry	8	10.0
Built by Foreign Agency	0	0.0
Made of Wood and is Flamable	1	1.3
No Protection Against Rough Weather	1	1.3
Fewer Rooms	2	2.5
Bad Wall Material	6	7.5
Bad Roof Material	5	6.3
Roof Material is Heavy	3	3.8
No Cross-bracing	0	0.0
No Roof Beams	0	0.0
No Support Columns	6	7.5
No Windows	0	0.0
Windows Poorly Placed	0	0.0
Other	21	26.3
No Information	6	7.5
TOTAL	80	100.0

TABLE 34

Reasons Respondents Liked Agency Houses More or Less

	<u>Reasons Liked More</u>		<u>Reasons Liked Less</u>	
	<u>No. of Times Mentioned</u>	<u>% Who Mentioned</u>	<u>No. of Times Mentioned</u>	<u>% Who Mentioned</u>
Location	26	4.9	12	2.3
Newness of Construction	7	1.3	1	0.2
General Appearance	126	23.8	12	2.3
Construction Material Used	91	17.2	14	2.6
Foundation	2	0.4	5	0.9
Frame (Support Columns & Beams)	4	0.8	2	0.4
Walls	31	5.8	7	1.3
Roof	17	3.2	5	0.9
Size in General	75	14.2	57	10.8
Number of Rooms	14	2.6	7	1.3
Ventilation	11	2.1	10	1.9
Electricity	4	0.8	4	0.8
Internal Temperature	10	1.9	24	4.5
Weather Resistance	46	8.7	14	2.6
Rooms and Windows	4	0.8	4	0.8
Security Against Theft	2	0.4	2	0.4
Security Against Fire	0	0.0	1	0.2
Durability	2	0.4	2	0.4
Overall Construction	16	3.0	5	0.9
Conditions Under Which Received	25	4.7	3	0.6
Other	24	4.5	11	2.1
Total No. of Agency Houses	530	100.0*	530	100.0
Total No. of Reasons Given	537	--	202	--

*Percentages add to more or less than 100% since the number of respondents is used as the base for percentages rather than the number of responses.

TABLE 35 (Part I)

Source	Sources of Laminas Classified by Region and Community															
	Highlands															
	Chimaltenango No.	San Martin Jilotepeque No.	Patzun No.	Zaragoza No.	Las Lomas No.	Marcos No.	San Santa Maria Cauque No.	Total No.								
	%	%	%	%	%	%	%	%								
Given	20	14.1	16	24.2	5	4.7	17	21.8	11	50.0	6	24.0	1	4.0	76	16.3
Purchased Market Value	60	42.2	23	34.8	32	29.9	30	38.5	7	31.8	5	20.0	8	32.0	165	35.5
Purchased Discount	53	37.3	35	53.0	22	20.6	26	33.3	7	31.8	17	68.0	15	60.0	175	37.6
Traded for Work	2	37.3	5	7.6	0	0.0	1	1.3	0	0.0	0	0.0	0	0.0	8	1.7
Owned	2	1.4	1	1.5	0	0.0	0	0.0	0	0.0	0	0.0	1	4.0	4	0.9
Salvaged Previous House	28	19.7	9	13.6	51	47.7	32	41.0	0	0.0	4	16.0	11	44.0	135	29.0
Salvaged Agency House	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
loaned	1	0.7	1	1.5	0	0.0	2	2.6	0	0.0	0	0.0	0	0.0	4	0.9
Other	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0
No Information	2	1.4	1	1.5	1	0.9	0	0.0	0	0.0	1	4.0	0	0.0	5	1.1
TOTAL All Sources	168	118.3	91	137.9	111	103.7	108	138.5	25	113.6	33	132.0	36	144.0	572	123.0
SAMPLE SIZE	142	100.0	66	100.0	107	100.0	78	100.0	22	100.0	25	100.0	25	100.0	465	100.0

TABLE 35 (Part III)

Sources of Lamina Classified by Region and Community

Source	City									
	Roosevelt		Carolingia		4th of February		New Chinautla		Total	TOTAL ALL AREAS
	No.	%	No.	%	No.	%	No.	%	No.	%
Given	0	0	1	1.0	16	13.7	4	8.2	21	21.6
Purchased Market Value	7	13.2	33	32.7	71	60.7	20	40.8	131	35.0
Purchased Discount	1	1.9	15	14.8	46	39.3	1	2.0	63	23.9
Traded for Work	0	0.0	0	0.0	0	0.0	0	0.0	0	0.8
Owned	0	0.0	2	2.0	1	0.8	1	2.0	4	0.8
Salvaged Previous House	1	1.9	4	4.0	5	4.3	4	8.2	14	14.7
Salvaged Agency House	0	0.0	0	0.0	0	0.0	0	0.0	0	0.2
Loaned	0	0.0	2	2.0	1	0.8	0	0.0	3	0.6
Other	0	0.0	99	98.0	0	0.0	47	95.9	146	13.5
No Information	0	0.0	0	0.0	3	2.6	4	8.2	7	1.1
Total All Sources	9	17.0	156	154.0	143	122.2	81	165.3	389	112.3
SAMPLE SIZE	53	100.0	101	100.0	117	100.0	49	100.0	320	100.0

*These cases all received lamina as a part of the agency house they received and should not be counted as other sources of lamina in comparison with Highlands and East.

TABLE 36

Where the Members of the Household Slept Immediately Following the
Earthquake Classified by Region

	<u>Highlands</u>		<u>East</u>		<u>City</u>		<u>Total</u>	
	<u>No.</u>	<u>%</u>	<u>No.</u>	<u>%</u>	<u>No.</u>	<u>%</u>	<u>No.</u>	<u>%</u>
Pre-Earthquake House	13	2.8	15	5.2	16	5.0	44	4.1
Makeshift roof of various Materials*	290	62.4	160	55.4	244	76.2	694	64.6
Makeshift Roof of Wood +/-or Sheet Metal	118	25.4	80	27.7	38	11.9	236	22.0
Manufactured Tent	23	5.0	2	0.7	16	5.0	41	3.8
Provisional Shelter/Hut	6	1.3	23	8.0	0	0.0	29	2.7
House of Friends or Relatives	12	2.6	6	2.1	3	0.9	21	2.0
Other	2	0.4	3	1.0	3	0.9	8	0.7
No Information	1	0.2	0	0.0	0	0.0	1	0.1
TOTAL	465	100.0	289	100.0	320	100.0	1074	100.0

*Cloth, Tarp, Cardboard, Nylon, and/or Simple Natural Materials (such as thatch).

TABLE 37

Length of Time Household Members Slept in a Temporary Shelter
Classified by Region

	<u>Highlands</u>		<u>East</u>		<u>City</u>		<u>Total</u>	
	<u>No.</u>	<u>%</u>	<u>No.</u>	<u>%</u>	<u>No.</u>	<u>%</u>	<u>No.</u>	<u>%</u>
1 or 2 nights	2	0.4	2	0.7	6	1.9	10	0.9
2 to 5 nights	17	3.7	7	2.5	11	3.5	35	3.3
5 to 15 nights	62	13.5	26	9.2	87	27.4	175	16.5
2 weeks to 1 month	81	17.7	43	15.2	62	19.5	186	17.6
1 - 2 months	102	22.2	57	20.1	51	16.0	210	19.8
2 - 4 months	108	23.5	69	24.4	51	16.0	228	21.5
4 months - 1 year	77	16.8	56	19.8	45	14.2	178	16.8
Still	4	0.9	17	6.0	0	0.0	21	2.0
Other	0	0.0	3	1.1	0	0.0	3	0.3
No Information	6	1.3	3	1.1	5	1.6	14	1.3
TOTAL	459	100.0	283	100.0	318	100.0	1060	100.0

TABLE 38

Predicted and Actual Damage Estimates to Pre- and Post-Earthquake Houses

<u>Housing Category and Damage Estimate Type</u>	<u>Weighted Means*</u>	<u>Standard Deviation</u>
Average Actual Damage to Pre-Earthquake Houses	2.080	0.517
Average Predicted Damage to Post-Earthquake Houses	1.076	0.516
Predicted Damage for Non-Agency Houses	1.320	0.528
Predicted Damage for Agency Houses	0.798	0.301

* Numbers are on a scale 0=No Damage, 1= Light Damage, 2=Heavy Damage and 3=Destroyed