



Preliminary Report – 2

Census of Buildings and Persons Affected by the Tsunami – 2004

(In this report, statistics are given only for the
affected Grama Niladhari divisions)

MANMUNAI PATTU DS DIVISION

BATTICALOA DISTRICT

Department of Census and Statistics - 2005

Preliminary Report – 2

Census of Buildings and Persons Affected by the Tsunami – 2004

Data collection of the Census on the Buildings and Persons Affected by the Tsunami – 2004 was conducted in two stages. During the stage one data on some key indicators related to the number of damaged buildings were collected. Damaged houses were categorized into completely damaged, partially damaged and usable, and partially damaged and not usable. Indicators compiled at various administrative divisions based on the data collected at the first stage have been released in the first set of preliminary reports.

During the second stage of the census, data on many other areas related to the disaster was collected. Characteristics of the buildings (both housing units and other buildings), occupants and dead and missing persons are some of such areas. Data collected are being computerized. Arrangements were made to give priority to compile some indicators, immediately needed for decision making. Indicators compiled on priority basis are listed below.

1. Average distance between the building and beach
2. Materials used for construction of buildings
3. Ownership of buildings
4. Floor area of buildings
5. Housing units by income category
6. Housing units by number of families
7. Population by age group
8. Number of people disabled/injured/sick due to tsunami
9. Number of persons engaged in fishing before and after the disaster
10. Number of persons engaged in other fishing related employments before and after the disaster
11. Number of persons engaged in coir industry before and after the disaster
12. Number of persons engaged in tourism industry before and after the disaster
13. Number of persons engaged in government employment before and after the disaster
14. Number of persons engaged in other employment before and after the disaster

The above indicators at GN level are presented in this report for the Manmunai Pattu DS division of the Batticaloa district.

NOTE

During the first stage of the census all affected buildings were listed. With regard to the buildings where there was no person available to collect information, details of a contact person were obtained by inquiring the people living in the neighborhood. Irrespective of all these attempts, some eligible respondents could not be enumerated during the second stage of the census.

For Manmunai Pattu DS division of Batticaloa districts 3 percent of the eligible respondent could not be enumerated. Arrangements are being made to collect information from all eligible respondents of these housing units as well.

Concepts and Definitions Used

Housing Unit

The following 3 conditions should be satisfied in order to consider a building unit as a housing unit.

- (i) It should be a place of dwelling of human beings.
- (ii) It should be separated from other places of dwelling.
- (iii) It should have separate entrance.

Under the definition, any building unit or a part of a building or any structure whether permanent or temporary such as huts, shanties, sheds etc., which are in fact used as place of residence were regarded as housing units.

Number of persons usually living in the housing unit

A person was considered as a member of the housing unit if he/she was a usual resident of the housing unit when the Tsunami disaster occurred. They may be presently living in the housing unit or elsewhere such as a welfare center or a friend's/ relative's house.

Employment prior to the Tsunami and whether the employment can be continued after the Tsunami ?

This information was collected from those persons who were engaged in an employment before the Tsunami. Further information was collected on whether they could continue their employment after the Tsunami.

Materials used for the construction of the housing unit

Materials used for the construction of housing unit was considered permanent, if the roof, the walls and the floor were constructed using Permanent material.

Roof is considered Permanent, if constructed using tiles / asbestos etc. Roof is considered Temporary, if constructed using cadjan / tin sheets etc.

Walls are considered Permanent, if constructed using bricks / cement blocks etc. Walls are considered Temporary, if constructed using mud, wood / tin sheets etc.

Floor is considered Permanent, if constructed using cement/ tiles / granite etc. Floor is considered Temporary, if constructed using mud / dung etc.

Distance from the beach to the housing unit:

This distance was estimated by the enumerator at the time of the data collection.

Income of the housing unit

This includes the total income of all income earners of the housing unit from all sources, before the Tsunami.

Size of Housing unit

This refers to the total number of the members of the housing unit, who are alive after the Tsunami, and were usually residing in the housing unit, before the Tsunami. They may be living in the housing unit or elsewhere now.

Disability, Injury or Sickness due to Tsunami

If a person was disabled or injured or had a sickness due to Tsunami, information on such persons was collected at this census.

Table 1: Number of damaged housing units in affected GN divisions* by material used for construction of the housing unit**

Manmunai Pattu DS division of Batticaloa District - April 2005

Affected GN Division		Total no. of damaged* * housing units	Material used for construction		
Name	No.		Permanent	Other [⌘]	Not reported
Araipattai East	157C	240	139	101	0
Kirankulam	150B	76	57	19	0
Kirankulam Center	150C	77	32	45	0
Kirankulam North	150	28	6	22	0
Kirankulam South	150A	142	90	51	1
Palamunai	152	469	345	121	3
Puthukudiyiruppu	151	175	69	106	0
Puthukudiyiruppu North	151B	231	106	125	0
Puthukudiyiruppu South	151A	182	83	99	0
Selvanagar East	157B	331	206	125	0
Vedarkudiyiruppu	153B	36	29	6	1
Total		1987	1162	820	5

*Statistics are given here only for the affected GN divisions

**Damaged - Fully damaged, Partially damaged (unusable) and Partially damaged (usable) housing units only were considered damaged

⌘ If any combination of materials other than 'Permanent' is considered as 'Other'

Note : In some DS divisions, number of housing units surveyed in stage 2 were greater than the number of housing units listed in stage 1 because some housing units were identified as damaged at later stage. In some other DS divisions, number of housing units surveyed in stage 2 were slightly less than the number of housing units covered in stage 1, because there was a small percentage of housing units which were not surveyed due to unavailability of a suitable respondent.

Source : Department of Census & Statistics

Table 2: Number of damaged housing units in affected GN divisions* by ownership of the land**

Manmunai Pattu DS division of Batticaloa District - April 2005

Affected GN Division		Total no. of damaged* * housing units	Ownership of the land				
Name	No.		Belongs to the family	Rent/Lease	Coast reservatio	Other	Not reported
Araipattai East	157C	240	236	0	0	4	0
Kirankulam	150B	76	75	0	0	1	0
Kirankulam Center	150C	77	74	0	0	3	0
Kirankulam North	150	28	26	0	0	2	0
Kirankulam South	150A	142	140	0	0	0	2
Palamunai	152	469	447	1	0	18	3
Puthukudiyiruppu	151	175	163	0	0	10	2
Puthukudiyiruppu North	151B	231	212	0	0	19	0
Puthukudiyiruppu South	151A	182	155	0	0	27	0
Selvanagar East	157B	331	317	0	0	14	0
Vedarkudiyiruppu	153B	36	19	0	0	17	0
Total		1987	1864	1	0	115	7

*Statistics are given here only for the affected GN divisions

**Damaged - Fully damaged , Partially damaged (unusable) and Partially damaged (usable) housing units only are considered damaged.

Note : In some DS divisions, number of housing units surveyed in stage 2 were greater than the number of housing units listed in stage 1 because some housing units were identified as damaged at later stage. In some other DS divisions, number of housing units surveyed in stage 2 were slightly less than the number of housing units covered in stage 1, because there was a small percentage of housing units which were not surveyed due to unavailability of a suitable respondent.

Source : Department of Census & Statistics

Table 3: Number of damaged housing units in affected GN divisions* by income category of the housing unit before Tsunami**

Manmunai Pattu DS division of Batticaloa District - April 2005

Affected GN Division		Total no. of damaged* * housing units	Monthly Income of the Housing Unit (Rs)			
Name	No.		Less than 5000	5000 - 9999	10000 & above	Not reported
Araipattai East	157C	240	116	108	14	2
Kirankulam	150B	76	52	18	4	2
Kirankulam Center	150C	77	40	35	2	0
Kirankulam North	150	28	17	11	0	0
Kirankulam South	150A	142	117	20	2	3
Palamunai	152	469	172	231	45	21
Puthukudiyiruppu	151	175	65	96	13	1
Puthukudiyiruppu North	151B	231	143	67	20	1
Puthukudiyiruppu South	151A	182	89	78	11	4
Selvanagar East	157B	331	191	113	24	3
Vedarkudiyiruppu	153B	36	24	10	1	1
Total		1987	1026	787	136	38

*Statistics are given here only for the affected GN divisions

**Damaged - Fully damaged , Partially damaged (unusable) and Partially damaged (usable) housing units only are considered damaged.

Note : In some DS divisions, number of housing units surveyed in stage 2 were greater than the number of housing units listed in stage 1 because some housing units were identified as damaged at later stage. In some other DS divisions, number of housing units surveyed in stage 2 were slightly less than the number of housing units covered in stage 1, because there was a small percentage of housing units which were not surveyed due to unavailability of a suitable respondent.

Source : Department of Census & Statistics

Table 4: Number of damaged housing units by number of families[@] in affected GN divisions***

Manmunai Pattu DS division of Batticaloa District - April 2005

Affected GN Division		Total no. of damaged* * housing units	Number of families			
Name	No.		1 Family	2 Families	3 or more	Not reported
Araipattai East	157C	240	235	5	0	0
Kirankulam	150B	76	74	1	1	0
Kirankulam Center	150C	77	77	0	0	0
Kirankulam North	150	28	28	0	0	0
Kirankulam South	150A	142	136	6	0	0
Palamunai	152	469	466	3	0	0
Puthukudiyiruppu	151	175	170	5	0	0
Puthukudiyiruppu North	151B	231	225	6	0	0
Puthukudiyiruppu South	151A	182	179	3	0	0
Selvanagar East	157B	331	318	13	0	0
Vedarkudiyiruppu	153B	36	34	2	0	0
Total		1987	1942	44	1	0

*Statistics are given here only for the affected GN divisions

**Damaged - Fully damaged , Partially damaged (unusable) and Partially damaged (usable) housing units only are considered damaged.

[@] 'Number of families' is defined as the number of families usually living in that housing unit after the Tsunami 2004

Note : In some DS divisions, number of housing units surveyed in stage 2 were greater than the number of housing units listed in stage 1 because some housing units were identified as damaged at later stage.

In some other DS divisions, number of housing units surveyed in stage 2 were slightly less than the number of housing units covered in stage 1, because there was a small percentage of housing units which were not surveyed due to unavailability of a suitable respondent.

Source : Department of Census & Statistics

Table 5: Number of damaged housing units in affected GN divisions* by size of housing units**

Manmunai Pattu DS division of Batticaloa District - April 2005

Affected GN Division		Total no. of damaged* * housing units	Size of housing units			
Name	No.		Less than 5 members	5 to 7 members	8 or more members	Not reported
Araipattai East	157C	240	136	95	9	0
Kirankulam	150B	76	49	27	0	0
Kirankulam Center	150C	77	63	14	0	0
Kirankulam North	150	28	17	10	1	0
Kirankulam South	150A	142	84	55	3	0
Palamunai	152	469	284	155	30	0
Puthukudiyiruppu	151	175	112	54	9	0
Puthukudiyiruppu North	151B	231	127	96	8	0
Puthukudiyiruppu South	151A	182	109	68	5	0
Selvanagar East	157B	331	191	120	20	0
Vedarkudiyiruppu	153B	36	29	5	2	0
Total		1987	1201	699	87	0

*Statistics are given here only for the affected GN divisions

**Damaged - Fully damaged , Partially damaged (unusable) and Partially damaged (usable) housing units only are considered damaged.

Note : In some DS divisions, number of housing units surveyed in stage 2 were greater than the number of housing units listed in stage 1 because some housing units were identified as damaged at later stage. In some other DS divisions, number of housing units surveyed in stage 2 were slightly less than the number of housing units covered in stage 1, because there was a small percentage of housing units which were not surveyed due to unavailability of a suitable respondent.

Source : Department of Census & Statistics

Table 6: Distribution of population in affected GN divisions* by the age group

Manmunai Pattu DS division of Batticaloa District - April 2005

Affected GN Division		Affected Population #	Age Group (Years)			
Name	No.		Less than 5	5 - 14	15-29	30 or more
Araipattai East	157C	991	95	227	296	373
Kirankulam	150B	303	26	64	97	116
Kirankulam Center	150C	270	33	57	83	97
Kirankulam North	150	118	10	24	39	45
Kirankulam South	150A	602	54	149	198	201
Palamunai	152	8925	213	501	7624	587
Puthukudiyiruppu	151	700	63	154	215	268
Puthukudiyiruppu North	151B	1001	109	230	325	337
Puthukudiyiruppu South	151A	724	73	135	214	302
Selvanagar East	157B	1436	149	349	435	503
Vedarkudiyiruppu	153B	139	19	24	56	40
Total		15209	844	1914	9582	2869

*Statistics are given here only for the affected GN divisions

Affected population - Total number of persons living in the damaged housing units.

Source : Department of Census & Statistics

Table 7: Number of persons who were disabled/injured/sick^{##} due to Tsunami 2004 in affected GN divisions*

Manmunai Pattu DS division of Batticaloa District -
April 2005

Affected GN Division		Affected Population #	No of persons disabled/injured/sick [#]
Name	No.		
Araipattai East	157C	991	32
Kirankulam	150B	303	1
Kirankulam Center	150C	270	0
Kirankulam North	150	118	3
Kirankulam South	150A	602	0
Palamunai	152	8925	49
Puthukudiyiruppu	151	700	7
Puthukudiyiruppu North	151B	1001	10
Puthukudiyiruppu South	151A	724	15
Selvanagar East	157B	1436	27
Vedarkudiyiruppu	153B	139	1
Total		15209	145

*Statistics are given here only for the affected GN divisions

Affected population - Total number of persons living in the damaged housing units.

##-Of the persons living in the damaged housing unit

Source : Department of Census & Statistics

Table 8: Number of persons[?] engaged in fishing⁺ before and after Tsunami in affected GN divisions*

Manmunai Pattu DS division of Batticaloa District -
April 2005

Affected GN Division		No. of persons engaged	
Name	No.	Before Tsunami	After Tsunami
Araipattai East	157C	10	3
Kirankulam	150B	7	1
Kirankulam Center	150C	12	0
Kirankulam North	150	6	0
Kirankulam South	150A	1	0
Palamunai	152	53	18
Puthukudiyiruppu	151	22	21
Puthukudiyiruppu North	151B	16	4
Puthukudiyiruppu South	151A	7	5
Selvanagar East	157B	45	11
Vedarkudiyiruppu	153B	0	0
Total		179	63

*Statistics are given here only for the affected GN divisions
+ Fishing - Persons engaged in fishing for selling (not only for home consumption) as employers, employees & own account workers are included here

? Persons engaged in the activity in the damaged housing units

Source : Department of Census & Statistics

Table 9: Number of persons [?] engaged in other fishery related industries⁺ before and after Tsunami in affected GN divisions*

Manmunai Pattu DS division of Batticaloa District -
April 2005

Affected GN Division		No. of persons engaged	
Name	No.	Before Tsunami	After Tsunami
Araipattai East	157C	3	0
Kirankulam	150B	1	0
Kirankulam Center	150C	4	0
Kirankulam North	150	0	0
Kirankulam South	150A	4	4
Palamunai	152	28	9
Puthukudiyiruppu	151	0	0
Puthukudiyiruppu North	151B	2	0
Puthukudiyiruppu South	151A	1	1
Selvanagar East	157B	3	0
Vedarkudiyiruppu	153B	0	0
Total		46	14

*Statistics are given here only for the affected GN divisions

+ Fishery related industries - Persons engaged in preparing dry fish, repairing of fishing nets and other implements etc. are included here.

? Persons engaged in the activity in the damaged housing units

Source : Department of Census & Statistics

Table 10: Number of persons[?] engaged in coir industry before and after Tsunami in affected GN divisions*

Manmunai Pattu DS division of Batticaloa District -
April 2005

Affected GN Division		No. of persons engaged	
Name	No.	Before Tsunami	After Tsunami
Araipattai East	157C	2	1
Kirankulam	150B	0	0
Kirankulam Center	150C	0	0
Kirankulam North	150	0	0
Kirankulam South	150A	0	0
Palamunai	152	0	0
Puthukudiyiruppu	151	0	0
Puthukudiyiruppu North	151B	0	0
Puthukudiyiruppu South	151A	0	0
Selvanagar East	157B	1	1
Vedarkudiyiruppu	153B	0	0
Total		3	2

*Statistics are given here only for the affected GN divisions

[?] Persons engaged in the activity in the damaged housing units

Source : Department of Census & Statistics

Table11: Number of persons[?] engaged in tourism industry before and after Tsunami in affected GN divisions*

Manmunai Pattu DS division of Batticaloa District -
April 2005

Affected GN Division		No. of persons engaged	
Name	No.	Before Tsunami	After Tsunami
Araipattai East	157C	0	0
Kirankulam	150B	0	0
Kirankulam Center	150C	0	0
Kirankulam North	150	0	0
Kirankulam South	150A	0	0
Palamunai	152	2	0
Puthukudiyiruppu	151	0	0
Puthukudiyiruppu North	151B	0	0
Puthukudiyiruppu South	151A	0	0
Selvanagar East	157B	0	0
Vedarkudiyiruppu	153B	0	0
Total		2	0

*Statistics are given here only for the affected GN divisions

[?] Persons engaged in the activity in the damaged housing units

Source : Department of Census & Statistics

Table 12: Number of persons[?] engaged in government employment⁺ before and after Tsunami in affected GN divisions*

Manmunai Pattu DS division of Batticaloa District -
April 2005

Affected GN Division		No. of persons engaged	
Name	No.	Before Tsunami	After Tsunami
Araipattai East	157C	11	10
Kirankulam	150B	11	11
Kirankulam Center	150C	3	3
Kirankulam North	150	0	0
Kirankulam South	150A	4	4
Palamunai	152	79	15
Puthukudiyiruppu	151	10	10
Puthukudiyiruppu North	151B	18	17
Puthukudiyiruppu South	151A	17	17
Selvanagar East	157B	36	36
Vedarkudiyiruppu	153B	0	0
Total		189	123

*Statistics are given here only for the affected GN divisions

+ Persons employed in public sector, provincial public sector and semi government are included here.

? Persons engaged in the activity in the damaged housing units

Source : Department of Census & Statistics

Table 13: Number of persons[?] engaged in other employment⁺ before and after Tsunami in affected GN divisions*

Manmunai Pattu DS division of Batticaloa District -
April 2005

Affected GN Division		No. of persons engaged	
Name	No.	Before Tsunami	After Tsunami
Araipattai East	157C	272	190
Kirankulam	150B	67	34
Kirankulam Center	150C	67	47
Kirankulam North	150	32	24
Kirankulam South	150A	147	137
Palamunai	152	405	349
Puthukudiyiruppu	151	204	178
Puthukudiyiruppu North	151B	232	183
Puthukudiyiruppu South	151A	237	199
Selvanagar East	157B	354	241
Vedarkudiyiruppu	153B	39	32
Total		2056	1614

*Statistics are given here only for the affected GN divisions

+ Which includes all other employment not specified in the previous tables.

? Persons engaged in the activity in the damaged housing units

Source : Department of Census & Statistics