



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)

VADAMARACHCHI EAST DS DIVISION

JAFFNA 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 Vadamarachchi East DS division of the Jaffna 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 Vadamarachchi East DS division of Jaffna districts x 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**

Vadamarachchi East DS division of Jaffna District - April 2005

Affected GN Division		Total no. of damaged** housing units	Material used for construction		
Name	No.		Permanent	Other [⊙]	Not reported
Aliyavalai	J/431	362	221	141	0
Chempiyanpattu North	J/426	368	225	143	0
Chempiyanpattu South	J/427	228	118	110	0
Chundikulam	J/435	55	52	3	0
Manalkadu	J/418	110	79	31	0
Maruthankarny	J/428	282	204	78	0
Mulliyar	J/433	231	167	64	0
Nagarkovil South	J/425	18	4	14	0
Pokkaruppu	J/434	173	71	101	1
Potpathi	J/421	121	94	27	0
Uduthurai	J/430	418	337	81	0
Vathirayan	J/429	339	216	123	0
Vettrilaikerny	J/432	246	143	103	0
Total		2951	1931	1019	1

*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**

Vadamarachchi East DS division of Jaffna 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 reservation	Other	Not reported
Aliyavalai	J/431	362	281	1	0	79	1
Chempiyanpattu North	J/426	368	268	0	0	98	2
Chempiyanpattu South	J/427	228	218	3	0	6	1
Chundikulam	J/435	55	55	0	0	0	0
Manalkadu	J/418	110	91	2	0	16	1
Maruthankarny	J/428	282	216	0	0	63	3
Mulliyar	J/433	231	196	1	0	33	1
Nagarkovil South	J/425	18	17	0	0	1	0
Pokkaruppu	J/434	173	150	0	0	22	1
Potpathi	J/421	121	105	0	0	14	2
Uduthurai	J/430	418	382	1	0	31	4
Vathirayan	J/429	339	333	0	0	5	1
Vetrilaikerny	J/432	246	117	2	0	127	0
Total		2951	2429	10	0	495	17

*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**

Vadamarachchi East DS division of Jaffna 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
Aliyavalai	J/431	362	350	4	5	3
Chempiyanpattu North	J/426	368	348	8	5	7
Chempiyanpattu South	J/427	228	193	22	10	3
Chundikulam	J/435	55	15	40	0	0
Manalkadu	J/418	110	101	3	0	6
Maruthankarny	J/428	282	253	17	4	8
Mulliyian	J/433	231	225	5	0	1
Nagarkovil South	J/425	18	17	1	0	0
Pokkaruppu	J/434	173	167	3	1	2
Potpathi	J/421	121	114	5	1	1
Uduthurai	J/430	418	406	7	2	3
Vathirayan	J/429	339	290	29	19	1
Vetrilaikerny	J/432	246	236	5	4	1
Total		2951	2715	149	51	36

*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***

Vadamarachchi East DS division of Jaffna 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
Aliyavalai	J/431	362	360	2	0	0
Chempiyanpattu North	J/426	368	368	0	0	0
Chempiyanpattu South	J/427	228	226	2	0	0
Chundikulam	J/435	55	55	0	0	0
Manalkadu	J/418	110	110	0	0	0
Maruthankarny	J/428	282	282	0	0	0
Mulliyar	J/433	231	231	0	0	0
Nagarkovil South	J/425	18	18	0	0	0
Pokkaruppu	J/434	173	173	0	0	0
Potpathi	J/421	121	121	0	0	0
Uduthurai	J/430	418	418	0	0	0
Vathirayan	J/429	339	339	0	0	0
Vetrilaikerny	J/432	246	246	0	0	0
Total		2951	2947	4	0	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

Source : Department of Census & Statistics

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

Vadamarachchi East DS division of Jaffna 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
Aliyavalai	J/431	362	259	96	7	0
Chempiyanpattu North	J/426	368	266	92	10	0
Chempiyanpattu South	J/427	228	140	82	6	0
Chundikulam	J/435	55	23	26	6	0
Manalkadu	J/418	110	58	49	3	0
Maruthankarny	J/428	282	185	94	3	0
Mulliyar	J/433	231	135	85	11	0
Nagarkovil South	J/425	18	13	5	0	0
Pokkaruppu	J/434	173	87	71	15	0
Potpathi	J/421	121	64	50	7	0
Uduthurai	J/430	418	309	105	4	0
Vathirayan	J/429	339	237	95	7	0
Vetrilaikerny	J/432	246	159	83	4	0
Total		2951	1935	933	83	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

Vadamarachchi East DS division of Jaffna District - April 2005

Affected GN Division		Affected Population #	Age Group (Years)			
Name	No.		Less than 5	5 - 14	15-29	30 or more
Aliyavalai	J/431	1283	106	226	486	465
Chempiyanpattu North	J/426	1312	110	235	492	475
Chempiyanpattu South	J/427	868	44	163	299	362
Chundikulam	J/435	277	11	42	131	93
Manalkadu	J/418	472	35	117	153	167
Maruthankarny	J/428	1044	79	168	403	394
Mulliyian	J/433	957	85	235	343	294
Nagarkovil South	J/425	70	9	13	25	23
Pokkaruppu	J/434	723	71	192	237	223
Potpathi	J/421	534	43	141	181	169
Uduthurai	J/430	1417	94	219	581	523
Vathirayan	J/429	1212	80	207	484	441
Vetrilaikerny	J/432	948	46	170	362	370
Total		11117	813	2128	4177	3999

*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*

Vadamarachchi East DS division of Jaffna District - April 2005

Affected GN Division		Affected Population #	No of persons disabled/injured/sick ^{##} due to Tsunami
Name	No.		
Aliyavalai	J/431	1283	175
Chempiyanpattu North	J/426	1312	132
Chempiyanpattu South	J/427	868	17
Chundikulam	J/435	277	4
Manalkadu	J/418	472	58
Maruthankarny	J/428	1044	179
Mulliyar	J/433	957	59
Nagarkovil South	J/425	70	12
Pokkaruppu	J/434	723	53
Potpathi	J/421	534	7
Uduthurai	J/430	1417	194
Vathirayan	J/429	1212	208
Vetrilaikerny	J/432	948	137
Total		11117	1235

*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^Δ engaged in fishing⁺ before and after
Tsunami in affected GN divisions***

Vadamarachchi East DS division of Jaffna District - April 2005

Affected GN Division		No. of persons engaged	
Name	No.	Before Tsunami	After Tsunami
Aliyavalai	J/431	322	5
Chempiyanpattu North	J/426	241	2
Chempiyanpattu South	J/427	78	3
Chundikulam	J/435	58	0
Manalkadu	J/418	92	1
Maruthankarny	J/428	223	1
Mulliyian	J/433	248	20
Nagarkovil South	J/425	18	0
Pokkaruppu	J/434	98	34
Potpathi	J/421	100	1
Uduthurai	J/430	371	2
Vathirayan	J/429	307	3
Vetrilaikerny	J/432	218	31
Total		2374	103

*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

Δ Persons engaged in the activity in the damaged housing units

Source : Department of Census & Statistics

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

Vadamarachchi East DS division of Jaffna District - April 2005

Affected GN Division		No. of persons engaged	
Name	No.	Before Tsunami	After Tsunami
Aliyavalai	J/431	21	1
Chempiyanpattu North	J/426	42	2
Chempiyanpattu South	J/427	1	0
Chundikulam	J/435	0	0
Manalkadu	J/418	18	0
Maruthankarny	J/428	18	1
Mulliyar	J/433	7	1
Nagarkovil South	J/425	2	0
Pokkaruppu	J/434	18	5
Potpathi	J/421	9	0
Uduthurai	J/430	21	0
Vathirayan	J/429	14	0
Vetrilaikerny	J/432	21	3
Total		192	13

*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.

Δ Persons engaged in the activity in the damaged housing units

Source : Department of Census & Statistics

Table 10: Number of persons^Δ engaged in coir industry before and after Tsunami in affected GN divisions*

Vadamarachchi East DS division of Jaffna District - April 2005

Affected GN Division		No. of persons engaged	
Name	No.	Before Tsunami	After Tsunami
Aliyavalai	J/431	0	0
Chempiyanpattu North	J/426	0	0
Chempiyanpattu South	J/427	0	0
Chundikulam	J/435	0	0
Manalkadu	J/418	0	0
Maruthankarny	J/428	0	0
Mulliyar	J/433	0	0
Nagarkovil South	J/425	0	0
Pokkaruppu	J/434	0	0
Potpathi	J/421	0	0
Uduthurai	J/430	0	0
Vathirayan	J/429	2	0
Vetrilaikerny	J/432	0	0
Total		2	0

*Statistics are given here only for the affected GN divisions

^Δ 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*

Vadamarachchi East DS division of Jaffna District - April 2005

Affected GN Division		No. of persons engaged	
Name	No.	Before Tsunami	After Tsunami
Aliyavalai	J/431	0	0
Chempiyanpattu North	J/426	0	0
Chempiyanpattu South	J/427	0	0
Chundikulam	J/435	0	0
Manalkadu	J/418	0	0
Maruthankarny	J/428	0	0
Mulliyar	J/433	0	0
Nagarkovil South	J/425	0	0
Pokkaruppu	J/434	0	0
Potpathi	J/421	0	0
Uduthurai	J/430	1	1
Vathirayan	J/429	0	0
Vetrilaikerny	J/432	0	0
Total		1	1

*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^Δ engaged in government employment⁺ before and after Tsunami in affected GN divisions*

Vadamarachchi East DS division of Jaffna District - April 2005

Affected GN Division		No. of persons engaged	
Name	No.	Before Tsunami	After Tsunami
Aliyavalai	J/431	14	14
Chempiyanpattu North	J/426	18	18
Chempiyanpattu South	J/427	26	21
Chundikulam	J/435	0	0
Manalkadu	J/418	3	3
Maruthankarny	J/428	12	11
Mulliyar	J/433	4	2
Nagarkovil South	J/425	0	0
Pokkaruppu	J/434	5	5
Potpathi	J/421	2	2
Uduthurai	J/430	7	6
Vathirayan	J/429	12	12
Vettilaikerny	J/432	6	7
Total		109	101

*Statistics are given here only for the affected GN divisions

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

Δ Persons engaged in the activity in the damaged housing units

Source : Department of Census & Statistics

Table 13: Number of persons^Δ engaged in other employment⁺ before and after Tsunami in affected GN divisions*

Vadamarachchi East DS division of Jaffna District - April 2005

Affected GN Division		No. of persons engaged	
Name	No.	Before Tsunami	After Tsunami
Aliyavalai	J/431	32	12
Chempiyanpattu North	J/426	60	54
Chempiyanpattu South	J/427	159	115
Chundikulam	J/435	2	0
Manalkadu	J/418	27	6
Maruthankarny	J/428	45	25
Mulliyar	J/433	28	13
Nagarkovil South	J/425	2	0
Pokkaruppu	J/434	114	70
Potpathi	J/421	21	4
Uduthurai	J/430	63	16
Vathirayan	J/429	44	22
Vetrilaikerny	J/432	34	18
Total		631	355

*Statistics are given here only for the affected GN divisions

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

^Δ Persons engaged in the activity in the damaged housing units

Source : Department of Census & Statistics