

Distribution of Houses by Predominant Materials of Roof and Wall and Level of Damage Risk

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Wall / Roof		Census Houses		Level of Risk under								
		No. of Houses	%	EQ Zone				Wind Velocity m/s				Flood Prone Area in %
				V	IV	III	II	55 & 50	47	44 & 39	33	
				Area in %				Area in %				
						35.3	64.7	30.1	8.2	46.9	14.9	9.9
WALL												
A1 - Mud & Unburnt Brick Wall	Rural	1,420,062	10.0									
	Urban	227,015	1.6									
	Total	1,647,077	11.6			M	L	VH	H	M	L	VH
A2 - Stone Wall not packed with mortar	Rural	473,780	3.3									
	Urban	151,495	1.1									
	Total	625,275	4.4			M	L	H	M	L	VL	VH
Total - Category - A		2,272,352	16.0									
B - Burnt Bricks Wall & Stone wall packed with mortar	Rural	6,973,104	49.0									
	Urban	3,478,467	24.5									
	Total	10,451,571	73.5			L	VL	H	M	L	VL	H/M
Total - Category - B		10,451,571	73.5									
C1 - Concrete Wall	Rural	114,705	0.8									
	Urban	126,292	0.9									
	Total	240,997	1.7			VL	VL	L	VL	VL	VL	L/VL
C2 - Wood Wall	Rural	108,667	0.8									
	Urban	14,975	0.1									
	Total	123,642	0.9			VL	VL	VH	H	M	L	H
Total - Category - C		364,639	2.6									
X - Other Materials	Rural	992,759	7.0									
	Urban	139,931	1.0									
	Total	1,132,690	8.0			VL	VL	VH	H	M	L	VH
Total - Category - X		1,132,690	8.0									
TOTAL HOUSES*		14,221,252										

ROOF		No. of Houses	%	Level of Risk under								
				EQ Zone				Wind Velocity m/s				Flood Prone Area in %
				V	IV	III	II	55 & 50	47	44 & 39	33	
				Area in %				Area in %				
R1 - Light Weight Sloping Roof	Rural	3,481,149	24.5									
	Urban	953,728	6.7									
	Total	4,434,877	31.2			L	VL	VH	VH	H	M	VH
R2 - Heavy Weight Sloping Roof	Rural	2,034,889	14.3									
	Urban	407,105	2.9									
	Total	2,441,994	17.2			L	VL	H	M	L	VL	H
R3 - Flat Roof	Rural	4,567,039	32.1									
	Urban	2,777,342	19.5									
	Total	7,344,381	51.6									
TOTAL HOUSES*		14,221,252										

Housing Category : Wall Types

- Category - A :** Buildings in field-stone, rural structures, unburnt brick houses, clay houses
- Category - B :** Ordinary brick building; buildings of the large block & prefabricated type, half-timbered structures, building in natural hewn stone
- Category - C :** Reinforced building, well built wooden structures
- Category - X :** Other materials not covered in A,B,C. These are generally light.

- Notes :**
1. Flood prone area includes that protected area which may have more severe damage under failure of protection works. In some other areas the local damage may be severe under heavy rains and choked drainage.
 2. Damage Risk for wall types is indicated assuming heavy flat roof in categories A, B and C (Reinforced Concrete) building
 3. Source of Housing Data : Census of Housing, GOI, 2011

Housing Category : Roof Type

- Category - R1 -** Light Weight (Grass, Thatch, Bamboo, Wood, Mud, Plastic, Polythene, GI Metal, Asbestos Sheets, Other Materials)
- Category - R2 -** Heavy Weight (Tiles, Stone/Slate)
- Category - R3 -** Flat Roof (Brick, Concrete)

- EQ Zone V : Very High Damage Risk Zone (MSK > IX)
- EQ Zone IV : High Damage Risk Zone (MSK VIII)
- EQ Zone III : Moderate Damage Risk Zone (MSK VII)
- EQ Zone II : Low Damage Risk Zone (MSK < VI)
- Level of Risk : VH = Very High; H = High;
M = Moderate; L = Low; VL = Very Low

* Total No.of Houses excluding Vacant/Locked Houses