

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

KARNATAKA

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		
STATE - KARNATAKA								14.7	85.3			20.2	79.8
WALL													
A1 - Mud & Unburnt Brick Wall	Rural	2,625,111	16.3										
	Urban	649,849	4.0										
	Total	3,274,960	20.3					<i>M</i>	<i>L</i>			<i>M</i>	<i>L</i>
A2 - Stone Wall not packed with mortar	Rural	1,418,139	8.8										
	Urban	560,050	3.5										
	Total	1,978,189	12.3					<i>M</i>	<i>L</i>			<i>L</i>	<i>VL</i>
Total - Category - A		5,253,149	32.5										
B - Burnt Bricks Wall & Stone wall packed with mortar	Rural	4,450,480	27.6										
	Urban	4,254,880	26.4										
	Total	8,705,360	54.0					<i>L</i>	<i>VL</i>			<i>L</i>	<i>VL</i>
Total - Category - B		8,705,360	53.9										
C1 - Concrete Wall	Rural	244,978	1.5										
	Urban	898,852	5.6										
	Total	1,143,830	7.1					<i>VL</i>	<i>VL</i>			<i>VL</i>	<i>VL</i>
C2 - Wood wall	Rural	110,826	0.7										
	Urban	30,481	0.2										
	Total	141,307	0.9					<i>VL</i>	<i>VL</i>			<i>M</i>	<i>L</i>
Total - Category - C		1,285,137	8.0										
X - Other Materials	Rural	710,855	4.4										
	Urban	187,333	1.2										
	Total	898,188	5.6					<i>VL</i>	<i>VL</i>			<i>M</i>	<i>L</i>
Total - Category - X		898,188	5.6										
TOTAL HOUSES*		16,141,834											

ROOF												
R1 - Light Weight Sloping Roof	Rural	3,110,827	19.3									
	Urban	1,393,587	8.6									
	Total	4,504,414	27.9					<i>L</i>	<i>VL</i>			<i>H</i>
R2 - Heavy Weight Sloping Roof	Rural	5,403,547	33.5									
	Urban	1,337,438	8.3									
	Total	6,740,985	41.8					<i>L</i>	<i>VL</i>			<i>L</i>
R3 - Flat Roof	Rural	1,046,015	6.5									
	Urban	3,850,420	23.9									
	Total	4,896,435	30.4		<i>Damage Risk as per that for the Wall supporting it</i>							
TOTAL HOUSES*		16,141,834										

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