

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

Table No. : KN 14

State : KARNATAKA

SHIMOGA

Wall / Roof		Census Houses		Level of Risk under								Flood Prone Area in %
		No. of Houses	%	EQ Zone				Wind Velocity m/s				
				V	IV	III	II	55 & 50	47	44 & 39	33	
				Area in %				Area in %				
						30.3	69.7			18.5	81.5	
WALL												
A1 - Mud & Unburnt Brick Wall	Rural	142,396	27.9									
	Urban	36,284	7.1									
	Total	178,680	35.0			M	L			M	L	
A2 - Stone Wall not packed with mortar	Rural	21,790	4.3									
	Urban	14,514	2.8									
	Total	36,304	7.1			M	L			L	VL	
Total - Category - A		214,984	42.2									
B - Burnt Bricks Wall & Stone wall packed with mortar	Rural	126,572	24.8									
	Urban	112,094	22.0									
	Total	238,666	46.8			L	VL			L	VL	
Total - Category - B		238,666	46.8									
C1 - Concrete Wall	Rural	3,735	0.7									
	Urban	13,671	2.7									
	Total	17,406	3.4			VL	VL			VL	VL	
C2 - Wood wall	Rural	2,385	0.5									
	Urban	723	0.1									
	Total	3,108	0.6			VL	VL			M	L	
Total - Category - C		20,514	4.0									
X - Other Materials	Rural	31,623	6.2									
	Urban	3,932	0.8									
	Total	35,555	7.0			VL	VL			M	L	
Total - Category - X		35,555	7.0									
TOTAL HOUSES*		509,719										

ROOF												
R1 - Light Weight Sloping Roof	Rural	27,547	5.4									
	Urban	18,767	3.7									
	Total	46,314	9.1			L	VL			H	M	
R2 - Heavy Weight Sloping Roof	Rural	282,202	55.4									
	Urban	83,711	16.4									
	Total	365,913	71.8			L	VL			L	VL	
R3 - Flat Roof	Rural	18,752	3.7									
	Urban	78,740	15.4									
	Total	97,492	19.1	Damage Risk as per that for the Wall supporting it								
TOTAL HOUSES*		509,719										

Probable Maximum Precipitation at a Station of the district in one day for arial extent of 1000 sqm. **819 mm**

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