

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

Table No. : KN 09

State : KARNATAKA

UTTARA KANNADA

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 %				
						63.8	36.2			48.8	51.2	
WALL												
A1 - Mud & Unburnt Brick Wall	Rural	101,837	23.9									
	Urban	18,717	4.4									
	Total	120,554	28.3			M	L			M	L	
A2 - Stone Wall not packed with mortar	Rural	30,314	7.1									
	Urban	15,034	3.5									
	Total	45,348	10.6			M	L			L	VL	
Total - Category - A		165,902	38.9									
B - Burnt Bricks Wall & Stone wall packed with mortar	Rural	136,752	32.1									
	Urban	74,027	17.4									
	Total	210,779	49.5			L	VL			L	VL	
Total - Category - B		210,779	49.5									
C1 - Concrete Wall	Rural	5,307	1.2									
	Urban	8,886	2.1									
	Total	14,193	3.3			VL	VL			VL	VL	
C2 - Wood wall	Rural	2,915	0.7									
	Urban	896	0.2									
	Total	3,811	0.9			VL	VL			M	L	
Total - Category - C		18,004	4.2									
X - Other Materials	Rural	27,757	6.5									
	Urban	3,651	0.9									
	Total	31,408	7.4			VL	VL			M	L	
Total - Category - X		31,408	7.4									
TOTAL HOUSES*		426,093										

ROOF												
R1 - Light Weight Sloping Roof	Rural	34,014	8.0									
	Urban	12,061	2.8									
	Total	46,075	10.8			L	VL			H	M	
R2 - Heavy Weight Sloping Roof	Rural	243,917	57.2									
	Urban	70,755	16.6									
	Total	314,672	73.8			L	VL			L	VL	
R3 - Flat Roof	Rural	26,951	6.3									
	Urban	38,395	9.0									
	Total	65,346	15.3	<i>Damage Risk as per that for the Wall supporting it</i>								
TOTAL HOUSES*		426,093										

Probable Maximum Precipitation at a Station of the district in one day for arial extent of 1000 sqm. **410 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