

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

Table No. : KN 21

State : KARNATAKA

DAKSHINA 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 %				
						83.9	16.1			47.4	52.6	
WALL												
A1 - Mud & Unburnt Brick Wall	Rural	123,960	21.2									
	Urban	39,065	6.7									
	Total	163,025	27.9			M	L			M	L	
A2 - Stone Wall not packed with mortar	Rural	37,540	6.4									
	Urban	25,500	4.4									
	Total	63,040	10.8			M	L			L	VL	
Total - Category - A		226,065	38.6									
B - Burnt Bricks Wall & Stone wall packed with mortar	Rural	138,488	23.7									
	Urban	193,346	33.0									
	Total	331,834	56.7			L	VL			L	VL	
Total - Category - B		331,834	56.7									
C1 - Concrete Wall	Rural	3,143	0.5									
	Urban	12,147	2.1									
	Total	15,290	2.6			VL	VL			VL	VL	
C2 - Wood wall	Rural	1,721	0.3									
	Urban	968	0.2									
	Total	2,689	0.5			VL	VL			M	L	
Total - Category - C		17,979	3.1									
X - Other Materials	Rural	6,106	1.0									
	Urban	3,171	0.5									
	Total	9,277	1.5			VL	VL			M	L	
Total - Category - X		9,277	1.6									
TOTAL HOUSES*		585,155										

ROOF												
R1 - Light Weight Sloping Roof	Rural	17,544	3.0									
	Urban	11,294	1.9									
	Total	28,838	4.9			L	VL			H	M	
R2 - Heavy Weight Sloping Roof	Rural	247,209	42.2									
	Urban	133,347	22.8									
	Total	380,556	65.0			L	VL			L	VL	
R3 - Flat Roof	Rural	46,205	7.9									
	Urban	129,556	22.1									
	Total	175,761	30.0	<i>Damage Risk as per that for the Wall supporting it</i>								
TOTAL HOUSES*		585,155										

Probable Maximum Precipitation at a Station of the district in one day for arial extent of 1000 sqm. **784 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