

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

Table No. : TN 10

State : TAMIL NADU

THE NILGIRIS

Wall / Roof		Census Houses		Level of Risk under								
		No. of Houses	%	EQ Zone				Wind Velocity m/s				Flood Prone Area
				V	IV	III	II	55 & 50	47	44 & 39	33	in %
				Area in %				Area in %				in %
WALL						97.6	2.4			45.7	54.3	
A1 - Mud & Unburnt Brick Wall	Rural	22,512	9.8									
	Urban	35,847	15.6									
	Total	58,359	25.4			M	L			M	L	
A2 - Stone Wall not packed with mortar	Rural	5,171	2.2									
	Urban	5,494	2.4									
	Total	10,665	4.6			M	L			L	VL	
Total - Category - A		69,024	30.0									
B - Burnt Bricks Wall & Stone wall packed with mortar	Rural	56,669	24.6									
	Urban	77,133	33.5									
	Total	133,802	58.1			L	VL			L	VL	
Total - Category - B		133,802	58.2									
C1 - Concrete Wall	Rural	8,008	3.5									
	Urban	10,658	4.6									
	Total	18,666	8.1			VL	VL			VL	VL	
C2 - Wood wall	Rural	517	0.2									
	Urban	1,160	0.5									
	Total	1,677	0.7			VL	VL			M	L	
Total - Category - C		20,343	8.8									
X - Other Materials	Rural	2,958	1.3									
	Urban	3,791	1.6									
	Total	6,749	2.9			VL	VL			M	L	
Total - Category - X		6,749	2.9									
TOTAL HOUSES*		229,918										

ROOF												
R1 - Light Weight Sloping Roof	Rural	17,696	7.7									
	Urban	30,425	13.2									
	Total	48,121	20.9			L	VL			H	M	
R2 - Heavy Weight Sloping Roof	Rural	56,484	24.6									
	Urban	67,441	29.3									
	Total	123,925	53.9			L	VL			L	VL	
R3 - Flat Roof	Rural	21,655	9.4									
	Urban	36,217	15.8									
	Total	57,872	25.2	Damage Risk as per that for the Wall supporting it								
TOTAL HOUSES*		229,918										

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