

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

Table No. : UP 25

State : UTTAR PRADESH

UNNAO

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	
				Area in %				Area in %				
WALL												24.9
A1 - Mud & Unburnt Brick Wall	Rural	189,127	27.9									
	Urban	9,424	1.4									
	Total	198,551	29.3					<i>M</i>	<i>L</i>	<i>VH</i>	<i>H</i>	<i>VH</i>
A2 - Stone Wall not packed with mortar	Rural	4,546	0.7									
	Urban	1,797	0.3									
	Total	6,343	1.0					<i>M</i>	<i>L</i>	<i>H</i>	<i>M</i>	<i>VH</i>
Total - Category - A		204,894	30.3									
B - Burnt Bricks Wall & Stone wall packed with mortar	Rural	320,122	47.3									
	Urban	88,747	13.1									
	Total	408,869	60.4					<i>L</i>	<i>VL</i>	<i>H</i>	<i>M</i>	<i>H/M</i>
Total - Category - B		408,869	60.4									
C1 - Concrete Wall	Rural	2,603	0.4									
	Urban	1,335	0.2									
	Total	3,938	0.6					<i>VL</i>	<i>VL</i>	<i>L</i>	<i>VL</i>	<i>L/ VL</i>
C2 - Wood wall	Rural	655	0.1									
	Urban	214	-									
	Total	869	0.1					<i>VL</i>	<i>VL</i>	<i>VH</i>	<i>H</i>	<i>H</i>
Total - Category - C		4,807	0.7									
X - Other Materials	Rural	50,424	7.4									
	Urban	8,326	1.2									
	Total	58,750	8.6					<i>VL</i>	<i>VL</i>	<i>VH</i>	<i>H</i>	<i>VH</i>
Total - Category - X		58,750	8.7									
TOTAL HOUSES*		677,320										

ROOF												
R1 - Light Weight Sloping Roof	Rural	307,176	45.4									
	Urban	22,492	3.3									
	Total	329,668	48.7					<i>L</i>	<i>VL</i>	<i>VH</i>	<i>VH</i>	<i>VH</i>
R2 - Heavy Weight Sloping Roof	Rural	17,523	2.6									
	Urban	5,167	0.8									
	Total	22,690	3.4					<i>L</i>	<i>VL</i>	<i>H</i>	<i>M</i>	<i>H</i>
R3 - Flat Roof	Rural	242,778	35.8									
	Urban	82,184	12.1									
	Total	324,962	47.9	<i>Damage Risk as per that for the Wall supporting it</i>								
TOTAL HOUSES*		677,320										

Probable Maximum Precipitation at a Station of the district in one day for arial extent of 1000 sqm. 594 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