

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

Table No. : UP 08

State : UTTAR PRADESH

BAGHPAT

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 %				
				100				100				50.9
WALL												
<i>A1 - Mud & Unburnt Brick Wall</i>	Rural	7,410	2.6									
	Urban	1,993	0.7									
	Total	9,403	3.3		<i>H</i>				<i>VH</i>			<i>VH</i>
<i>A2 - Stone Wall not packed with mortar</i>	Rural	2,669	0.9									
	Urban	2,091	0.7									
	Total	4,760	1.6		<i>H</i>				<i>H</i>			<i>VH</i>
Total - Category - A		14,163	5.0									
<i>B - Burnt Bricks Wall & Stone wall packed with mortar</i>	Rural	207,067	72.4									
	Urban	55,514	19.4									
	Total	262,581	91.8		<i>M</i>				<i>H</i>			<i>H/M</i>
Total - Category - B		262,581	91.8									
<i>C1 - Concrete Wall</i>	Rural	1,168	0.4									
	Urban	1,175	0.4									
	Total	2,343	0.8		<i>L</i>				<i>L</i>			<i>L/VL</i>
<i>C2 - Wood wall</i>	Rural	188	0.1									
	Urban	122	-									
	Total	310	0.1		<i>L</i>				<i>VH</i>			<i>H</i>
Total - Category - C		2,653	0.9									
<i>X - Other Materials</i>	Rural	5,042	1.8									
	Urban	1,655	0.6									
	Total	6,697	2.4		<i>VL</i>				<i>VH</i>			<i>VH</i>
Total - Category - X		6,697	2.3									
TOTAL HOUSES*		286,094										

ROOF												
<i>R1 - Light Weight Sloping Roof</i>	Rural	73,551	25.7									
	Urban	13,476	4.7									
	Total	87,027	30.4		<i>M</i>				<i>VH</i>			<i>VH</i>
<i>R2 - Heavy Weight Sloping Roof</i>	Rural	85,615	29.9									
	Urban	14,349	5.0									
	Total	99,964	34.9		<i>M</i>				<i>H</i>			<i>H</i>
<i>R3 - Flat Roof</i>	Rural	64,378	22.5									
	Urban	34,725	12.1									
	Total	99,103	34.6		<i>Damage Risk as per that for the Wall supporting it</i>							
TOTAL HOUSES*		286,094										

Probable Maximum Precipitation at a Station of the district in one day for arial extent of 1000 sqm. 537 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