

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

Table No. : UP 44

State : UTTAR PRADESH

ALLAHABAD

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												25.1
A1 - Mud & Unburnt Brick Wall	Rural	370,955	31.4									
	Urban	17,811	1.5									
	Total	388,766	32.9				<i>M</i>	<i>L</i>		<i>H</i>		<i>VH</i>
A2 - Stone Wall not packed with mortar	Rural	16,607	1.4									
	Urban	5,910	0.5									
	Total	22,517	1.9				<i>M</i>	<i>L</i>		<i>M</i>		<i>VH</i>
Total - Category - A		411,283	34.8									
B - Burnt Bricks Wall & Stone wall packed with mortar	Rural	472,394	40.0									
	Urban	199,387	16.9									
	Total	671,781	56.9				<i>L</i>	<i>VL</i>		<i>M</i>		<i>H/M</i>
Total - Category - B		671,781	56.9									
C1 - Concrete Wall	Rural	4,712	0.4									
	Urban	3,974	0.3									
	Total	8,686	0.7				<i>VL</i>	<i>VL</i>		<i>VL</i>		<i>L/ VL</i>
C2 - Wood wall	Rural	1,675	0.1									
	Urban	356	-									
	Total	2,031	0.1				<i>VL</i>	<i>VL</i>		<i>H</i>		<i>H</i>
Total - Category - C		10,717	0.9									
X - Other Materials	Rural	71,833	6.1									
	Urban	15,300	1.3									
	Total	87,133	7.4				<i>VL</i>	<i>VL</i>		<i>H</i>		<i>VH</i>
Total - Category - X		87,133	7.4									
TOTAL HOUSES*		1,180,914										

ROOF												
R1 - Light Weight Sloping Roof	Rural	289,548	24.5									
	Urban	26,347	2.2									
	Total	315,895	26.7				<i>L</i>	<i>VL</i>		<i>VH</i>		<i>VH</i>
R2 - Heavy Weight Sloping Roof	Rural	290,176	24.6									
	Urban	33,476	2.8									
	Total	323,652	27.4				<i>L</i>	<i>VL</i>		<i>M</i>		<i>H</i>
R3 - Flat Roof	Rural	358,452	30.4									
	Urban	182,915	15.5									
	Total	541,367	45.9	<i>Damage Risk as per that for the Wall supporting it</i>								
TOTAL HOUSES*		1,180,914										

Probable Maximum Precipitation at a Station of the district in one day for arial extent of 1000 sqm. 624 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