

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

**Table No. : UP 54**

**State : UTTAR PRADESH**

**BASTI**

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 %					
					19.1	80.9		10.7	89.3			35.0	
WALL													
A1 - Mud & Unburnt Brick Wall	Rural	54,760	10.5										
	Urban	1,441	0.3										
	Total	56,201	10.8		H	M		VH	H			VH	
A2 - Stone Wall not packed with mortar	Rural	4,003	0.8										
	Urban	464	0.1										
	Total	4,467	0.9		H	M		H	M			VH	
Total - Category - A		60,668	11.6										
B - Burnt Bricks Wall & Stone wall packed with mortar	Rural	353,037	67.6										
	Urban	23,828	4.6										
	Total	376,865	72.2		M	L		H	M			H/M	
Total - Category - B		376,865	72.2										
C1 - Concrete Wall	Rural	1,947	0.4										
	Urban	195	-										
	Total	2,142	0.4		L	VL		L	VL			L/VL	
C2 - Wood wall	Rural	985	0.2										
	Urban	98	-										
	Total	1,083	0.2		L	VL		VH	H			H	
Total - Category - C		3,225	0.6										
X - Other Materials	Rural	78,876	15.1										
	Urban	2,393	0.5										
	Total	81,269	15.6		VL	VL		VH	H			VH	
Total - Category - X		81,269	15.6										
TOTAL HOUSES*		522,027											

<b>ROOF</b>												
<b>R1 - Light Weight Sloping Roof</b>	Rural	141,153	27.0									
	Urban	3,482	0.7									
	<b>Total</b>	<b>144,635</b>	<b>27.7</b>		M	L		VH	VH			VH
<b>R2 - Heavy Weight Sloping Roof</b>	Rural	25,237	4.8									
	Urban	626	0.1									
	<b>Total</b>	<b>25,863</b>	<b>4.9</b>		M	L		H	M			H
<b>R3 - Flat Roof</b>	Rural	327,218	62.7									
	Urban	24,311	4.7									
	<b>Total</b>	<b>351,529</b>	<b>67.4</b>	Damage Risk as per that for the Wall supporting it								
<b>TOTAL HOUSES*</b>		<b>522,027</b>										

Probable Maximum Precipitation at a Station of the district in one day for arial extent of 1000 sqm. **523 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