

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

**Table No. : UP 41**

**State : UTTAR PRADESH**

**FATEHPUR**

Wall / Roof		Census Houses		Level of Risk under									Flood Prone Area in %
		No. of Houses	%	EQ Zone				Wind Velocity m/s					
				V	IV	III	II	55 & 50	47	44 & 39	33		
				Area in %				Area in %					
						2.2	97.8		100			16.2	
WALL													
A1 - Mud & Unburnt Brick Wall	Rural	170,233	28.2										
	Urban	6,746	1.1										
	Total	176,979	29.3			M	L		H			VH	
A2 - Stone Wall not packed with mortar	Rural	5,439	0.9										
	Urban	1,275	0.2										
	Total	6,714	1.1			M	L		M			VH	
Total - Category - A		183,693	30.4										
B - Burnt Bricks Wall & Stone wall packed with mortar	Rural	303,174	50.1										
	Urban	56,339	9.3										
	Total	359,513	59.4			L	VL		M			H/M	
Total - Category - B		359,513	59.5										
C1 - Concrete Wall	Rural	3,364	0.6										
	Urban	532	0.1										
	Total	3,896	0.7			VL	VL		VL			L/VL	
C2 - Wood wall	Rural	525	0.1										
	Urban	90	-										
	Total	615	0.1			VL	VL		H			H	
Total - Category - C		4,511	0.7										
X - Other Materials	Rural	51,718	8.6										
	Urban	5,257	0.9										
	Total	56,975	9.5			VL	VL		H			VH	
Total - Category - X		56,975	9.4										
TOTAL HOUSES*		604,692											

<b>ROOF</b>												
<b>R1 - Light Weight Sloping Roof</b>	Rural	309,933	51.3									
	Urban	15,204	2.5									
	<b>Total</b>	<b>325,137</b>	<b>53.8</b>			L	VL		VH			VH
<b>R2 - Heavy Weight Sloping Roof</b>	Rural	27,170	4.5									
	Urban	3,229	0.5									
	<b>Total</b>	<b>30,399</b>	<b>5.0</b>			L	VL		M			H
<b>R3 - Flat Roof</b>	Rural	197,350	32.6									
	Urban	51,806	8.6									
	<b>Total</b>	<b>249,156</b>	<b>41.2</b>	Damage Risk as per that for the Wall supporting it								
<b>TOTAL HOUSES*</b>		<b>604,692</b>										

Probable Maximum Precipitation at a Station of the district in one day for arial extent of 1000 sqm. **630 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