

**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								
		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												16.2
A1 - Mud & Unburnt Brick Wall	Rural	170,233	28.2									
	Urban	6,746	1.1									
	Total	176,979	29.3					<i>M</i>	<i>L</i>		<i>H</i>	<i>VH</i>
A2 - Stone Wall not packed with mortar	Rural	5,439	0.9									
	Urban	1,275	0.2									
	Total	6,714	1.1					<i>M</i>	<i>L</i>		<i>M</i>	<i>VH</i>
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					<i>L</i>	<i>VL</i>		<i>M</i>	<i>H/M</i>
Total - Category - B		359,513	59.5									
C1 - Concrete Wall	Rural	3,364	0.6									
	Urban	532	0.1									
	Total	3,896	0.7					<i>VL</i>	<i>VL</i>		<i>VL</i>	<i>L/ VL</i>
C2 - Wood wall	Rural	525	0.1									
	Urban	90	-									
	Total	615	0.1					<i>VL</i>	<i>VL</i>		<i>H</i>	<i>H</i>
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					<i>VL</i>	<i>VL</i>		<i>H</i>	<i>VH</i>
Total - Category - X		56,975	9.4									
TOTAL HOUSES*		604,692										

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

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