

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

Table No. : UP 20

State : UTTAR PRADESH

PILIBHIT

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 %				
				79.5	20.5			100				23.8
WALL												
<i>A1 - Mud & Unburnt Brick Wall</i>	Rural	53,385	12.1									
	Urban	5,574	1.3									
	Total	58,959	13.4		<i>H</i>	<i>M</i>		<i>VH</i>				<i>VH</i>
<i>A2 - Stone Wall not packed with mortar</i>	Rural	2,227	0.5									
	Urban	968	0.2									
	Total	3,195	0.7		<i>H</i>	<i>M</i>		<i>H</i>				<i>VH</i>
Total - Category - A		62,154	14.1									
<i>B - Burnt Bricks Wall & Stone wall packed with mortar</i>	Rural	257,584	58.4									
	Urban	71,934	16.3									
	Total	329,518	74.7		<i>M</i>	<i>L</i>		<i>H</i>				<i>H/M</i>
Total - Category - B		329,518	74.7									
<i>C1 - Concrete Wall</i>	Rural	618	0.1									
	Urban	321	0.1									
	Total	939	0.2		<i>L</i>	<i>VL</i>		<i>L</i>				<i>L/ VL</i>
<i>C2 - Wood wall</i>	Rural	1,079	0.2									
	Urban	229	0.1									
	Total	1,308	0.3		<i>L</i>	<i>VL</i>		<i>VH</i>				<i>H</i>
Total - Category - C		2,247	0.5									
<i>X - Other Materials</i>	Rural	44,752	10.1									
	Urban	2,569	0.6									
	Total	47,321	10.7		<i>VL</i>	<i>VL</i>		<i>VH</i>				<i>VH</i>
Total - Category - X		47,321	10.7									
TOTAL HOUSES*		441,240										

ROOF												
<i>R1 - Light Weight Sloping Roof</i>	Rural	108,863	24.7									
	Urban	12,848	2.9									
	Total	121,711	27.6		<i>M</i>	<i>L</i>		<i>VH</i>				<i>VH</i>
<i>R2 - Heavy Weight Sloping Roof</i>	Rural	50,375	11.4									
	Urban	4,666	1.1									
	Total	55,041	12.5		<i>M</i>	<i>L</i>		<i>H</i>				<i>H</i>
<i>R3 - Flat Roof</i>	Rural	200,407	45.4									
	Urban	64,081	14.5									
	Total	264,488	59.9	Damage Risk as per that for the Wall supporting it								
TOTAL HOUSES*		441,240										

Probable Maximum Precipitation at a Station of the district in one day for arial extent of 1000 sqm. 525 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