

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

Table No. : UP 19

State : UTTAR PRADESH

BAREILLY

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 %					
				51.1	48.9			100				31.1	
WALL													
A1 - Mud & Unburnt Brick Wall	Rural	94,141	10.1										
	Urban	15,584	1.7										
	Total	109,725	11.8		<i>H</i>	<i>M</i>		<i>VH</i>				<i>VH</i>	
A2 - Stone Wall not packed with mortar	Rural	4,854	0.5										
	Urban	5,782	0.6										
	Total	10,636	1.1		<i>H</i>	<i>M</i>		<i>H</i>				<i>VH</i>	
Total - Category - A		120,361	12.9										
B - Burnt Bricks Wall & Stone wall packed with mortar	Rural	472,450	50.5										
	Urban	299,502	32.0										
	Total	771,952	82.5		<i>M</i>	<i>L</i>		<i>H</i>				<i>H/M</i>	
Total - Category - B		771,952	82.4										
C1 - Concrete Wall	Rural	2,262	0.2										
	Urban	3,628	0.4										
	Total	5,890	0.6		<i>L</i>	<i>VL</i>		<i>L</i>				<i>L/ VL</i>	
C2 - Wood wall	Rural	687	0.1										
	Urban	511	0.1										
	Total	1,198	0.2		<i>L</i>	<i>VL</i>		<i>VH</i>				<i>H</i>	
Total - Category - C		7,088	0.8										
X - Other Materials	Rural	29,749	3.2										
	Urban	7,272	0.8										
	Total	37,021	4.0		<i>VL</i>	<i>VL</i>		<i>VH</i>				<i>VH</i>	
Total - Category - X		37,021	4.0										
TOTAL HOUSES*		936,422											

ROOF												
R1 - Light Weight Sloping Roof	Rural	152,271	16.3									
	Urban	38,366	4.1									
	Total	190,637	20.4		<i>M</i>	<i>L</i>		<i>VH</i>				<i>VH</i>
R2 - Heavy Weight Sloping Roof	Rural	96,808	10.3									
	Urban	21,979	2.3									
	Total	118,787	12.6		<i>M</i>	<i>L</i>		<i>H</i>				<i>H</i>
R3 - Flat Roof	Rural	355,064	37.9									
	Urban	271,934	29.0									
	Total	626,998	66.9	<i>Damage Risk as per that for the Wall supporting it</i>								
TOTAL HOUSES*		936,422										

Probable Maximum Precipitation at a Station of the district in one day for arial extent of 1000 sqm. 547 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