

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

Table No. : UP 49

State : UTTAR PRADESH

BAHRAICH

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 %					
				65.3	34.7			100				47.2	
WALL													
A1 - Mud & Unburnt Brick Wall	Rural	204,847	27.8										
	Urban	5,654	0.8										
	Total	210,501	28.6		H	M		VH				VH	
A2 - Stone Wall not packed with mortar	Rural	3,818	0.5										
	Urban	824	0.1										
	Total	4,642	0.6		H	M		H				VH	
Total - Category - A		215,143	29.1										
B - Burnt Bricks Wall & Stone wall packed with mortar	Rural	319,580	43.3										
	Urban	47,115	6.4										
	Total	366,695	49.7		M	L		H				H/M	
Total - Category - B		366,695	49.7										
C1 - Concrete Wall	Rural	1,129	0.2										
	Urban	327	-										
	Total	1,456	0.2		L	VL		L				L/ VL	
C2 - Wood wall	Rural	2,027	0.3										
	Urban	258	-										
	Total	2,285	0.3		L	VL		VH				H	
Total - Category - C		3,741	0.5										
X - Other Materials	Rural	149,908	20.3										
	Urban	2,688	0.4										
	Total	152,596	20.7		VL	VL		VH				VH	
Total - Category - X		152,596	20.7										
TOTAL HOUSES*		738,175											

ROOF												
R1 - Light Weight Sloping Roof	Rural	342,038	46.3									
	Urban	8,966	1.2									
	Total	351,004	47.5		M	L		VH				VH
R2 - Heavy Weight Sloping Roof	Rural	88,417	12.0									
	Urban	5,733	0.8									
	Total	94,150	12.8		M	L		H				H
R3 - Flat Roof	Rural	250,854	34.0									
	Urban	42,167	5.7									
	Total	293,021	39.7	Damage Risk as per that for the Wall supporting it								
TOTAL HOUSES*		738,175										

Probable Maximum Precipitation at a Station of the district in one day for arial extent of 1000 sqm. 391 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