

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

Table No. : UP 43

State : UTTAR PRADESH

KAUSHAMBI

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								100		100		27.6
A1 - Mud & Unburnt Brick Wall	Rural	146,305	41.0									
	Urban	5,475	1.5									
	Total	151,780	42.5					<i>L</i>		<i>H</i>		<i>VH</i>
A2 - Stone Wall not packed with mortar	Rural	2,807	0.8									
	Urban	303	0.1									
	Total	3,110	0.9					<i>L</i>		<i>M</i>		<i>VH</i>
Total - Category - A		154,890	43.4									
B - Burnt Bricks Wall & Stone wall packed with mortar	Rural	161,125	45.1									
	Urban	19,608	5.5									
	Total	180,733	50.6					<i>VL</i>		<i>M</i>		<i>H/M</i>
Total - Category - B		180,733	50.6									
C1 - Concrete Wall	Rural	925	0.3									
	Urban	106	-									
	Total	1,031	0.3					<i>VL</i>		<i>VL</i>		<i>L/ VL</i>
C2 - Wood wall	Rural	292	0.1									
	Urban	59	-									
	Total	351	0.1					<i>VL</i>		<i>H</i>		<i>H</i>
Total - Category - C		1,382	0.4									
X - Other Materials	Rural	18,246	5.1									
	Urban	1,816	0.5									
	Total	20,062	5.6					<i>VL</i>		<i>H</i>		<i>VH</i>
Total - Category - X		20,062	5.6									
TOTAL HOUSES*		357,067										

ROOF												
R1 - Light Weight Sloping Roof	Rural	156,854	43.9									
	Urban	6,761	1.9									
	Total	163,615	45.8					<i>VL</i>		<i>VH</i>		<i>VH</i>
R2 - Heavy Weight Sloping Roof	Rural	41,178	11.5									
	Urban	2,809	0.8									
	Total	43,987	12.3					<i>VL</i>		<i>M</i>		<i>H</i>
R3 - Flat Roof	Rural	131,668	36.9									
	Urban	17,797	5.0									
	Total	149,465	41.9	<i>Damage Risk as per that for the Wall supporting it</i>								
TOTAL HOUSES*		357,067										

Probable Maximum Precipitation at a Station of the district in one day for arial extent of 1000 sqm. 619 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