

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

Table No. : UP 50

State : UTTAR PRADESH

SHRAWASTI

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 %				
				100				100				14.2
WALL												
A1 - Mud & Unburnt Brick Wall	Rural	56,622	22.7									
	Urban	1,075	0.4									
	Total	57,697	23.1		<i>H</i>			<i>VH</i>				<i>VH</i>
A2 - Stone Wall not packed with mortar	Rural	1,584	0.6									
	Urban	112	-									
	Total	1,696	0.6		<i>H</i>			<i>H</i>				<i>VH</i>
Total - Category - A		59,393	23.8									
B - Burnt Bricks Wall & Stone wall packed with mortar	Rural	127,976	51.4									
	Urban	6,039	2.4									
	Total	134,015	53.8		<i>M</i>			<i>H</i>				<i>H/M</i>
Total - Category - B		134,015	53.8									
C1 - Concrete Wall	Rural	714	0.3									
	Urban	21	-									
	Total	735	0.3		<i>L</i>			<i>L</i>				<i>L/VL</i>
C2 - Wood wall	Rural	605	0.2									
	Urban	41	-									
	Total	646	0.2		<i>L</i>			<i>VH</i>				<i>H</i>
Total - Category - C		1,381	0.6									
X - Other Materials	Rural	53,830	21.6									
	Urban	456	0.2									
	Total	54,286	21.8		<i>VL</i>			<i>VH</i>				<i>VH</i>
Total - Category - X		54,286	21.8									
TOTAL HOUSES*		249,075										

ROOF												
R1 - Light Weight Sloping Roof	Rural	105,637	42.4									
	Urban	1,445	0.6									
	Total	107,082	43.0		<i>M</i>			<i>VH</i>				<i>VH</i>
R2 - Heavy Weight Sloping Roof	Rural	20,040	8.0									
	Urban	375	0.2									
	Total	20,415	8.2		<i>M</i>			<i>H</i>				<i>H</i>
R3 - Flat Roof	Rural	115,654	46.4									
	Urban	5,924	2.4									
	Total	121,578	48.8		Damage Risk as per that for the Wall supporting it							
TOTAL HOUSES*		249,075										

Probable Maximum Precipitation at a Station of the district in one day for arial extent of 1000 sqm. 400 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