

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

Table No. : UP 45

State : UTTAR PRADESH

BARA BANKI

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		76.0	24.0		13.8
A1 - Mud & Unburnt Brick Wall	Rural	116,857	17.1										
	Urban	6,526	1.0										
	Total	123,383	18.1					<i>M</i>		<i>VH</i>	<i>H</i>		<i>VH</i>
A2 - Stone Wall not packed with mortar	Rural	4,396	0.6										
	Urban	702	0.1										
	Total	5,098	0.7					<i>M</i>		<i>H</i>	<i>M</i>		<i>VH</i>
Total - Category - A		128,481	18.8										
B - Burnt Bricks Wall & Stone wall packed with mortar	Rural	381,441	55.9										
	Urban	56,218	8.2										
	Total	437,659	64.1					<i>L</i>		<i>H</i>	<i>M</i>		<i>H/M</i>
Total - Category - B		437,659	64.1										
C1 - Concrete Wall	Rural	3,087	0.5										
	Urban	683	0.1										
	Total	3,770	0.6					<i>VL</i>		<i>L</i>	<i>VL</i>		<i>L/ VL</i>
C2 - Wood wall	Rural	1,525	0.2										
	Urban	167	-										
	Total	1,692	0.2					<i>VL</i>		<i>VH</i>	<i>H</i>		<i>H</i>
Total - Category - C		5,462	0.8										
X - Other Materials	Rural	104,339	15.3										
	Urban	7,030	1.0										
	Total	111,369	16.3					<i>VL</i>		<i>VH</i>	<i>H</i>		<i>VH</i>
Total - Category - X		111,369	16.3										
TOTAL HOUSES*		682,971											

ROOF												
R1 - Light Weight Sloping Roof	Rural	242,563	35.5									
	Urban	13,728	2.0									
	Total	256,291	37.5					<i>L</i>		<i>VH</i>	<i>VH</i>	
R2 - Heavy Weight Sloping Roof	Rural	20,028	2.9									
	Urban	2,299	0.3									
	Total	22,327	3.2					<i>L</i>		<i>H</i>	<i>M</i>	
R3 - Flat Roof	Rural	349,054	51.1									
	Urban	55,299	8.1									
	Total	404,353	59.2	<i>Damage Risk as per that for the Wall supporting it</i>								
TOTAL HOUSES*		682,971										

Probable Maximum Precipitation at a Station of the district in one day for arial extent of 1000 sqm. 558 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