

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

UTTAR PRADESH

Wall / Roof		Census Houses		Level of Risk under							
		No. of Houses	%	EQ Zone				Wind Velocity m/s			
				V	IV	III	II	55 & 50	47	44 & 39	33
STATE - UTTAR PRADESH				29.0	48.3	22.7		43.2	53.4	3.4	
WALL											26.0
A1 - Mud & Unburnt Brick Wall	Rural	7,671,487	18.0								
	Urban	557,829	1.3								
	Total	8,229,316	19.3		H	M	L	VH	H	M	
A2 - Stone Wall not packed with mortar	Rural	328,497	0.8								
	Urban	181,046	0.4								
	Total	509,543	1.2		H	M	L	H	M	L	VH
Total - Category - A		8,738,859	20.5								
B - Burnt Bricks Wall & Stone wall packed with mortar	Rural	21,620,426	50.7								
	Urban	8,140,057	19.1								
	Total	29,760,483	69.8		M	L	VL	H	M	L	H/M
Total - Category - B		29,760,483	69.9								
C1 - Concrete Wall	Rural	147,358	0.3								
	Urban	114,495	0.3								
	Total	261,853	0.6		L	VL	VL	L	VL	VL	L/VL
C2 - Wood wall	Rural	62,424	0.1								
	Urban	20,630	-								
	Total	83,054	0.1		L	VL	VL	VH	H	M	H
Total - Category - C		344,907	0.8								
X - Other Materials	Rural	3,365,434	7.9								
	Urban	392,676	0.9								
	Total	3,758,110	8.8		VL	VL	VL	VH	H	M	VH
Total - Category - X		3,758,110	8.8								
TOTAL HOUSES*		42,602,359									

ROOF											
R1 - Light Weight Sloping Roof	Rural	11,074,872	26.0								
	Urban	1,223,806	2.9								
	Total	12,298,678	28.9		M	L	VL	VH	VH	H	VH
R2 - Heavy Weight Sloping Roof	Rural	7,767,796	18.2								
	Urban	1,759,998	4.1								
	Total	9,527,794	22.3		M	L	VL	H	M	L	H
R3 - Flat Roof	Rural	14,352,958	33.7								
	Urban	6,422,929	15.1								
	Total	20,775,887	48.8		Damage Risk as per that for the Wall supporting it						
TOTAL HOUSES*		42,602,359									

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