

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

Table No. : UP 18

State : UTTAR PRADESH

BUDAUN

Wall / Roof		Census Houses		Level of Risk under								Flood Prone Area in %	
		No. of Houses	%	EQ Zone				Wind Velocity m/s					
				V	IV	III	II	55 & 50	47	44 & 39	33		
				Area in %				Area in %					
					23.4	76.6		100				36.1	
WALL													
A1 - Mud & Unburnt Brick Wall	Rural	133,508	16.4										
	Urban	10,914	1.3										
	Total	144,422	17.7		H	M		VH				VH	
A2 - Stone Wall not packed with mortar	Rural	4,536	0.6										
	Urban	1,790	0.2										
	Total	6,326	0.8		H	M		H				VH	
Total - Category - A		150,748	18.5										
B - Burnt Bricks Wall & Stone wall packed with mortar	Rural	483,606	59.3										
	Urban	122,014	15.0										
	Total	605,620	74.3		M	L		H				H/M	
Total - Category - B		605,620	74.2										
C1 - Concrete Wall	Rural	1,416	0.2										
	Urban	853	0.1										
	Total	2,269	0.3		L	VL		L				L/VL	
C2 - Wood wall	Rural	543	0.1										
	Urban	249	-										
	Total	792	0.1		L	VL		VH				H	
Total - Category - C		3,061	0.4										
X - Other Materials	Rural	51,614	6.3										
	Urban	4,888	0.6										
	Total	56,502	6.9		VL	VL		VH				VH	
Total - Category - X		56,502	6.9										
TOTAL HOUSES*		815,931											

ROOF												
R1 - Light Weight Sloping Roof	Rural	303,055	37.1									
	Urban	31,058	3.8									
	Total	334,113	40.9		M	L		VH				VH
R2 - Heavy Weight Sloping Roof	Rural	77,749	9.5									
	Urban	4,629	0.6									
	Total	82,378	10.1		M	L		H				H
R3 - Flat Roof	Rural	294,419	36.1									
	Urban	105,021	12.9									
	Total	399,440	49.0	Damage Risk as per that for the Wall supporting it								
TOTAL HOUSES*		815,931										

Probable Maximum Precipitation at a Station of the district in one day for arial extent of 1000 sqm. **547 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