

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

Table No. : UP 22

State : UTTAR PRADESH

KHERI

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 %				
					62.9	37.1		100				23.9
WALL												
A1 - Mud & Unburnt Brick Wall	Rural	120,648	14.4									
	Urban	5,335	0.6									
	Total	125,983	15.0		H	M		VH			VH	
A2 - Stone Wall not packed with mortar	Rural	3,548	0.4									
	Urban	995	0.1									
	Total	4,543	0.5		H	M		H			VH	
Total - Category - A		130,526	15.6									
B - Burnt Bricks Wall & Stone wall packed with mortar	Rural	415,936	49.6									
	Urban	84,684	10.1									
	Total	500,620	59.7		M	L		H			H/M	
Total - Category - B		500,620	59.7									
C1 - Concrete Wall	Rural	1,182	0.1									
	Urban	232	-									
	Total	1,414	0.1		L	VL		L			L/VL	
C2 - Wood wall	Rural	2,085	0.2									
	Urban	488	0.1									
	Total	2,573	0.3		L	VL		VH			H	
Total - Category - C		3,987	0.5									
X - Other Materials	Rural	194,884	23.3									
	Urban	8,031	1.0									
	Total	202,915	24.3		VL	VL		VH			VH	
Total - Category - X		202,915	24.2									
TOTAL HOUSES*		838,048										

ROOF												
R1 - Light Weight Sloping Roof	Rural	346,500	41.3									
	Urban	18,471	2.2									
	Total	364,971	43.5		M	L		VH				VH
R2 - Heavy Weight Sloping Roof	Rural	15,029	1.8									
	Urban	2,361	0.3									
	Total	17,390	2.1		M	L		H				H
R3 - Flat Roof	Rural	376,754	45.0									
	Urban	78,933	9.4									
	Total	455,687	54.4	Damage Risk as per that for the Wall supporting it								
TOTAL HOUSES*		838,048										

Probable Maximum Precipitation at a Station of the district in one day for arial extent of 1000 sqm. **542 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