

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

Table No. : UP 14

State : UTTAR PRADESH

MATHURA

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 %				
					53.7	46.3			100			47.8
WALL												
A1 - Mud & Unburnt Brick Wall	Rural	13,952	2.6									
	Urban	3,981	0.7									
	Total	17,933	3.3		H	M			H			VH
A2 - Stone Wall not packed with mortar	Rural	4,423	0.8									
	Urban	2,694	0.5									
	Total	7,117	1.3		H	M			M			VH
Total - Category - A		25,050	4.6									
B - Burnt Bricks Wall & Stone wall packed with mortar	Rural	359,042	65.7									
	Urban	151,765	27.8									
	Total	510,807	93.5		M	L			M			H/M
Total - Category - B		510,807	93.5									
C1 - Concrete Wall	Rural	664	0.1									
	Urban	830	0.2									
	Total	1,494	0.3		L	VL			VL			L/VL
C2 - Wood wall	Rural	451	0.1									
	Urban	244	-									
	Total	695	0.1		L	VL			H			H
Total - Category - C		2,189	0.4									
X - Other Materials	Rural	6,904	1.3									
	Urban	1,599	0.3									
	Total	8,503	1.6		VL	VL			H			VH
Total - Category - X		8,503	1.6									
TOTAL HOUSES*		546,549										

ROOF												
R1 - Light Weight Sloping Roof	Rural	38,720	7.1									
	Urban	7,125	1.3									
	Total	45,845	8.4		M	L			VH			VH
R2 - Heavy Weight Sloping Roof	Rural	316,582	57.9									
	Urban	131,750	24.1									
	Total	448,332	82.0		M	L			M			H
R3 - Flat Roof	Rural	30,134	5.5									
	Urban	22,238	4.1									
	Total	52,372	9.6	Damage Risk as per that for the Wall supporting it								
TOTAL HOUSES*		546,549										

Probable Maximum Precipitation at a Station of the district in one day for arial extent of 1000 sqm. **651 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