

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

Table No. : UP 69

State : UTTAR PRADESH

SONBHADRA

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 %				
						99.9	.1		1.0	99.0		
WALL												
A1 - Mud & Unburnt Brick Wall	Rural	257,173	65.6									
	Urban	12,994	3.3									
	Total	270,167	68.9			M	L		H	M		
A2 - Stone Wall not packed with mortar	Rural	2,073	0.5									
	Urban	769	0.2									
	Total	2,842	0.7			M	L		M	L		
Total - Category - A		273,009	69.6									
B - Burnt Bricks Wall & Stone wall packed with mortar	Rural	46,675	11.9									
	Urban	55,822	14.2									
	Total	102,497	26.1			L	VL		M	L		
Total - Category - B		102,497	26.1									
C1 - Concrete Wall	Rural	1,045	0.3									
	Urban	903	0.2									
	Total	1,948	0.5			VL	VL		VL	VL		
C2 - Wood wall	Rural	343	0.1									
	Urban	391	0.1									
	Total	734	0.2			VL	VL		H	M		
Total - Category - C		2,682	0.7									
X - Other Materials	Rural	10,001	2.5									
	Urban	4,112	1.0									
	Total	14,113	3.5			VL	VL		H	M		
Total - Category - X		14,113	3.6									
TOTAL HOUSES*		392,301										

ROOF												
R1 - Light Weight Sloping Roof	Rural	74,863	19.1									
	Urban	22,491	5.7									
	Total	97,354	24.8			L	VL		VH	H		
R2 - Heavy Weight Sloping Roof	Rural	212,556	54.2									
	Urban	11,417	2.9									
	Total	223,973	57.1			L	VL		M	L		
R3 - Flat Roof	Rural	29,891	7.6									
	Urban	41,083	10.5									
	Total	70,974	18.1	<i>Damage Risk as per that for the Wall supporting it</i>								
TOTAL HOUSES*		392,301										

Probable Maximum Precipitation at a Station of the district in one day for arial extent of 1000 sqm. **482 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