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

Table No. : UP 17   **State : UTTAR PRADESH**   **MAINPURI**

Wall / Roof		No. of Houses	%	EQ Zone V	IV	III	II	Wind 55 & 50	47	44 & 39	33	Flood Prone Area in %
						96.9	3.1	33.5	66.5			7.7
WALL												
A1 - Mud &	Rural	56,771	14.4									
Unburnt Brick Wall	Urban	2,110	0.5									
	Total	*58,881*	*14.9*			M	L	VH	H			VH
A2 - Stone Wall	Rural	1,740	0.4									
not packed with mortar	Urban	427	0.1									
	Total	*2,167*	*0.5*			M	L	H	M			VH
Total - Category - A		**61,048**	**15.5**									
B - Burnt Bricks Wall	Rural	252,271	64.2									
& Stone wall packed	Urban	62,379	15.9									
with mortar	*Total*	*314,650*	*80.1*			L	VL	H	M			H/M
Total - Category - B		**314,650**	**80.1**									
C1 - Concrete Wall	Rural	857	0.2									
	Urban	320	0.1									
	Total	*1,177*	*0.3*			VL	VL	L	VL			L/VL
C2 - Wood wall	Rural	380	0.1									
	Urban	60	-									
	Total	*440*	*0.1*			VL	VL	VH	H			H
Total - Category - C		**1,617**	**0.4**									
X - Other Materials	Rural	14,530	3.7									
	Urban	1,129	0.3									
	Total	*15,659*	*4.0*			VL	VL	VH	H			VH
Total - Category - X		**15,659**	**4.0**									
TOTAL HOUSES*		**392,974**										
ROOF												
R1 - Light Weight	Rural	102,265	26.0									
Sloping Roof	Urban	6,999	1.8									
	Total	*109,264*	*27.8*			L	VL	VH	VH			VH
R2 - Heavy Weight	Rural	23,575	6.0									
Sloping Roof	Urban	2,348	0.6									
	Total	*25,923*	*6.6*			L	VL	H	M			H
R3 - Flat Roof	Rural	200,709	51.1									
	Urban	57,078	14.5									
	Total	*257,787*	*65.6*	*Damage Risk as per that for the Wall supporting it*								
TOTAL HOUSES*		**392,974**										

Probable Maximum Precipitation at a Station of the district in one day for arial extent of 1000 sqm.   558 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 chocked 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