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

Table No. : UP 52   **State : UTTAR PRADESH**   **GONDA**

Wall / Roof		Census Houses		Level of Risk under								
		No. of Houses	%	EQ Zone				Wind Velocity m/s				Flood Prone Area in %
				V	IV	III	II	55 & 50	47	44 & 39	33	
				Area in %				Area in %				
					14.7	85.3		64.4	35.6			49.8
WALL												
A1 - Mud &	Rural	99,979	14.4									
Unburnt Brick Wall	Urban	2,218	0.3									
	Total	**102,197**	**14.7**		H	M		VH	H			VH
A2 - Stone Wall	Rural	5,208	0.8									
not packed with mortar	Urban	665	0.1									
	Total	**5,873**	**0.9**		H	M		H	M			VH
Total - Category - A		**108,070**	**15.6**									
B - Burnt Bricks Wall	Rural	373,829	53.9									
& Stone wall packed	Urban	38,894	5.6									
with mortar	*Total*	**412,723**	**59.5**		M	L		H	M			H/M
Total - Category - B		**412,723**	**59.5**									
C1 - Concrete Wall	Rural	3,791	0.5									
	Urban	397	0.1									
	Total	**4,188**	**0.6**		L	VL		L	VL			L/VL
C2 - Wood wall	Rural	1,923	0.3									
	Urban	326	-									
	Total	**2,249**	**0.3**		L	VL		VH	H			H
Total - Category - C		**6,437**	**0.9**									
X - Other Materials	Rural	161,350	23.3									
	Urban	4,562	0.7									
	Total	**165,912**	**24.0**		VL	VL		VH	H			VH
Total - Category - X		**165,912**	**23.9**									
TOTAL HOUSES*		**693,142**										
ROOF												
R1 - Light Weight	Rural	223,676	32.3									
Sloping Roof	Urban	4,424	0.6									
	Total	**228,100**	**32.9**		M	L		VH	VH			VH
R2 - Heavy Weight	Rural	36,010	5.2									
Sloping Roof	Urban	1,518	0.2									
	Total	**37,528**	**5.4**		M	L		H	M			H
R3 - Flat Roof	Rural	386,394	55.7									
	Urban	41,120	5.9									
	Total	**427,514**	**61.6**	*Damage Risk as per that for the Wall supporting it*								
TOTAL HOUSES*		**693,142**										

Probable Maximum Precipitation at a Station of the district in one day for arial extent of 1000 sqm.   630 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