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

Table No. : RJ 22   **State : RAJASTHAN**   **TONK**

Wall / Roof		Census Houses No. of Houses	%	EQ Zone V	IV	III	II	Wind Velocity m/s 55 & 50	47	44 & 39	33	Flood Prone Area
							Area in %		Area in %			
							100		100			
WALL												
A1 - Mud &	Rural	136,986	38.9									
Unburnt Brick Wall	Urban	7,632	2.2									
	Total	*144,618*	*41.1*				L		H			
A2 - Stone Wall	Rural	21,440	6.1									
not packed with mortar	Urban	7,719	2.2									
	Total	*29,159*	*8.3*				L		M			
Total - Category - A		**173,777**	**49.4**									
B - Burnt Bricks Wall	Rural	116,413	33.1									
& Stone wall packed	Urban	54,394	15.4									
with mortar	*Total*	*170,807*	*48.5*				VL		M			
Total - Category - B		**170,807**	**48.5**									
C1 - Concrete Wall	Rural	391	0.1									
	Urban	359	0.1									
	Total	*750*	*0.2*				VL		VL			
C2 - Wood wall	Rural	637	0.2									
	Urban	293	0.1									
	Total	*930*	*0.3*				VL		H			
Total - Category - C		**1,680**	**0.5**									
X - Other Materials	Rural	4,483	1.3									
	Urban	1,338	0.4									
	Total	*5,821*	*1.7*				VL		H			
Total - Category - X		**5,821**	**1.7**									
TOTAL HOUSES*		**352,085**										
ROOF												
R1 - Light Weight	Rural	119,471	33.9									
Sloping Roof	Urban	11,043	3.1									
	Total	*130,514*	*37.0*				VL		VH			
R2 - Heavy Weight	Rural	146,377	41.6									
Sloping Roof	Urban	42,189	12.0									
	Total	*188,566*	*53.6*				VL		M			
R3 - Flat Roof	Rural	14,502	4.1									
	Urban	18,503	5.3									
	Total	*33,005*	*9.4*	*Damage Risk as per that for the Wall supporting it*								
TOTAL HOUSES*		**352,085**										

Probable Maximum Precipitation at a Station of the district in 24 hrs is   480 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