

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

Table No. : HR 17

State : HARYANA

REWARI

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 %					
					100					100			6.2
WALL													
A1 - Mud & Unburnt Brick Wall	Rural	4,008	1.7										
	Urban	717	0.3										
	Total	4,725	2.0		H				H				VH
A2 - Stone Wall not packed with mortar	Rural	4,061	1.7										
	Urban	619	0.3										
	Total	4,680	2.0		H				M				VH
Total - Category - A		9,405	3.9										
B - Burnt Bricks Wall & Stone wall packed with mortar	Rural	168,291	70.5										
	Urban	57,374	24.0										
	Total	225,665	94.5		M				M				H/M
Total - Category - B		225,665	94.5										
C1 - Concrete Wall	Rural	754	0.3										
	Urban	596	0.2										
	Total	1,350	0.5		L				VL				L/VL
C2 - Wood wall	Rural	241	0.1										
	Urban	63	-										
	Total	304	0.1		L				H				H
Total - Category - C		1,654	0.7										
X - Other Materials	Rural	1,560	0.7										
	Urban	578	0.2										
	Total	2,138	0.9		VL				H				VH
Total - Category - X		2,138	0.9										
TOTAL HOUSES*		238,862											

ROOF												
R1 - Light Weight Sloping Roof	Rural	26,380	11.0									
	Urban	3,975	1.7									
	Total	30,355	12.7		M				VH			VH
R2 - Heavy Weight Sloping Roof	Rural	118,017	49.4									
	Urban	33,311	13.9									
	Total	151,328	63.3		M				M			H
R3 - Flat Roof	Rural	34,518	14.5									
	Urban	22,661	9.5									
	Total	57,179	24.0	<i>Damage Risk as per that for the Wall supporting it</i>								
TOTAL HOUSES*		238,862										

Probable Maximum Precipitation at a Station of the district in one day for arial extent of 1000 sqm. **732 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