

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

Table No. : HR 09

State : HARYANA

JIND

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		75.5	24.5			33.6	
WALL													
A1 - Mud & Unburnt Brick Wall	Rural	6,029	1.8										
	Urban	2,123	0.6										
	Total	8,152	2.4			M		VH	H				VH
A2 - Stone Wall not packed with mortar	Rural	2,076	0.6										
	Urban	1,741	0.5										
	Total	3,817	1.1			M		H	M				VH
Total - Category - A		11,969	3.5										
B - Burnt Bricks Wall & Stone wall packed with mortar	Rural	247,093	72.4										
	Urban	73,993	21.7										
	Total	321,086	94.1			L		H	M				H/M
Total - Category - B		321,086	94.1										
C1 - Concrete Wall	Rural	2,127	0.6										
	Urban	2,304	0.7										
	Total	4,431	1.3			VL		L	VL				L/VL
C2 - Wood wall	Rural	141	-										
	Urban	73	-										
	Total	214	-			VL		VH	H				H
Total - Category - C		4,645	1.4										
X - Other Materials	Rural	2,625	0.8										
	Urban	1,010	0.3										
	Total	3,635	1.1			VL		VH	H				VH
Total - Category - X		3,635	1.1										
TOTAL HOUSES*		341,335											
ROOF													
R1 - Light Weight Sloping Roof	Rural	170,038	49.8										
	Urban	22,566	6.6										
	Total	192,604	56.4			L		VH	VH				VH
R2 - Heavy Weight Sloping Roof	Rural	17,761	5.2										
	Urban	4,853	1.4										
	Total	22,614	6.6			L		H	M				H
R3 - Flat Roof	Rural	72,292	21.2										
	Urban	53,825	15.8										
	Total	126,117	37.0	Damage Risk as per that for the Wall supporting it									
TOTAL HOUSES*		341,335											

Probable Maximum Precipitation at a Station of the district in one day for arial extent of 1000 sqm. **528 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