

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

Table No. : HR 19

State : HARYANA

MEWAT

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		18.7		
WALL														
A1 - Mud & Unburnt Brick Wall	Rural	22,768	10.7											
	Urban	1,369	0.6											
	Total	24,137	11.3				<i>H</i>				<i>H</i>		<i>VH</i>	
A2 - Stone Wall not packed with mortar	Rural	6,720	3.2											
	Urban	548	0.3											
	Total	7,268	3.5				<i>H</i>				<i>M</i>		<i>VH</i>	
Total - Category - A		31,405	14.8											
B - Burnt Bricks Wall & Stone wall packed with mortar	Rural	145,509	68.7											
	Urban	29,577	14.0											
	Total	175,086	82.7				<i>M</i>				<i>M</i>		<i>H/M</i>	
Total - Category - B		175,086	82.6											
C1 - Concrete Wall	Rural	353	0.2											
	Urban	135	0.1											
	Total	488	0.3				<i>L</i>				<i>VL</i>		<i>L/ VL</i>	
C2 - Wood wall	Rural	480	0.2											
	Urban	157	0.1											
	Total	637	0.3				<i>L</i>				<i>H</i>		<i>H</i>	
Total - Category - C		1,125	0.5											
X - Other Materials	Rural	3,936	1.9											
	Urban	327	0.2											
	Total	4,263	2.1				<i>VL</i>				<i>H</i>		<i>VH</i>	
Total - Category - X		4,263	2.0											
TOTAL HOUSES*		211,879												

ROOF													
R1 - Light Weight Sloping Roof	Rural	46,515	22.0										
	Urban	3,059	1.4										
	Total	49,574	23.4				<i>M</i>				<i>VH</i>		<i>VH</i>
R2 - Heavy Weight Sloping Roof	Rural	109,115	51.5										
	Urban	21,133	10.0										
	Total	130,248	61.5				<i>M</i>				<i>M</i>		<i>H</i>
R3 - Flat Roof	Rural	24,136	11.4										
	Urban	7,921	3.7										
	Total	32,057	15.1				<i>Damage Risk as per that for the Wall supporting it</i>						
TOTAL HOUSES*		211,879											

Probable Maximum Precipitation at a Station of the district in one day for arial extent of 1000 sqm. 725 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