

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

Table No. : UP 65

State : UTTAR PRADESH

CHANDAULI

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 %				
WALL												46.7
A1 - Mud & Unburnt Brick Wall	Rural	125,512	33.2									
	Urban	3,824	1.0									
	Total	129,336	34.2				<i>M</i>			<i>H</i>	<i>M</i>	<i>VH</i>
A2 - Stone Wall not packed with mortar	Rural	3,057	0.8									
	Urban	672	0.2									
	Total	3,729	1.0				<i>M</i>			<i>M</i>	<i>L</i>	<i>VH</i>
Total - Category - A		133,065	35.2									
B - Burnt Bricks Wall & Stone wall packed with mortar	Rural	181,509	48.1									
	Urban	38,901	10.3									
	Total	220,410	58.4				<i>L</i>			<i>M</i>	<i>L</i>	<i>H/M</i>
Total - Category - B		220,410	58.4									
C1 - Concrete Wall	Rural	1,731	0.5									
	Urban	703	0.2									
	Total	2,434	0.7				<i>VL</i>			<i>VL</i>	<i>VL</i>	<i>L/ VL</i>
C2 - Wood wall	Rural	472	0.1									
	Urban	66	-									
	Total	538	0.1				<i>VL</i>			<i>H</i>	<i>M</i>	<i>H</i>
Total - Category - C		2,972	0.8									
X - Other Materials	Rural	19,497	5.2									
	Urban	1,640	0.4									
	Total	21,137	5.6				<i>VL</i>			<i>H</i>	<i>M</i>	<i>VH</i>
Total - Category - X		21,137	5.6									
TOTAL HOUSES*		377,584										

ROOF												
R1 - Light Weight Sloping Roof	Rural	84,136	22.3									
	Urban	5,524	1.5									
	Total	89,660	23.8				<i>L</i>			<i>VH</i>	<i>H</i>	<i>VH</i>
R2 - Heavy Weight Sloping Roof	Rural	184,987	49.0									
	Urban	14,150	3.7									
	Total	199,137	52.7				<i>L</i>			<i>M</i>	<i>L</i>	<i>H</i>
R3 - Flat Roof	Rural	62,655	16.6									
	Urban	26,132	6.9									
	Total	88,787	23.5	<i>Damage Risk as per that for the Wall supporting it</i>								
TOTAL HOUSES*		377,584										

Probable Maximum Precipitation at a Station of the district in one day for arial extent of 1000 sqm. 517 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