

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

Table No. : UP 59

State : UTTAR PRADESH

DEORIA

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 %					
				75.3	24.7				100			59.9	
WALL													
A1 - Mud & Unburnt Brick Wall	Rural	45,815	7.2										
	Urban	3,847	0.6										
	Total	49,662	7.8		<i>H</i>	<i>M</i>			<i>H</i>			<i>VH</i>	
A2 - Stone Wall not packed with mortar	Rural	7,007	1.1										
	Urban	979	0.2										
	Total	7,986	1.3		<i>H</i>	<i>M</i>			<i>M</i>			<i>VH</i>	
Total - Category - A		57,648	9.0										
B - Burnt Bricks Wall & Stone wall packed with mortar	Rural	445,431	69.8										
	Urban	52,269	8.2										
	Total	497,700	78.0		<i>M</i>	<i>L</i>			<i>M</i>			<i>H/M</i>	
Total - Category - B		497,700	78.0										
C1 - Concrete Wall	Rural	3,132	0.5										
	Urban	471	0.1										
	Total	3,603	0.6		<i>L</i>	<i>VL</i>			<i>VL</i>			<i>L/ VL</i>	
C2 - Wood wall	Rural	3,349	0.5										
	Urban	400	0.1										
	Total	3,749	0.6		<i>L</i>	<i>VL</i>			<i>H</i>			<i>H</i>	
Total - Category - C		7,352	1.2										
X - Other Materials	Rural	71,785	11.2										
	Urban	3,806	0.6										
	Total	75,591	11.8		<i>VL</i>	<i>VL</i>			<i>H</i>			<i>VH</i>	
Total - Category - X		75,591	11.8										
TOTAL HOUSES*		638,291											

ROOF												
R1 - Light Weight Sloping Roof	Rural	158,865	24.9									
	Urban	9,916	1.6									
	Total	168,781	26.5		<i>M</i>	<i>L</i>			<i>VH</i>			<i>VH</i>
R2 - Heavy Weight Sloping Roof	Rural	53,113	8.3									
	Urban	5,757	0.9									
	Total	58,870	9.2		<i>M</i>	<i>L</i>			<i>M</i>			<i>H</i>
R3 - Flat Roof	Rural	364,541	57.1									
	Urban	46,099	7.2									
	Total	410,640	64.3	Damage Risk as per that for the Wall supporting it								
TOTAL HOUSES*		638,291										

Probable Maximum Precipitation at a Station of the district in one day for arial extent of 1000 sqm. 527 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