

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

MAHARASHTRA

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 %				
STATE - MAHARASHTRA					5.6	50.4	43.9			94.4	5.6	
WALL												
A1 - Mud & Unburnt Brick Wall	Rural	4,726,424	16.0									
	Urbar	1,061,904	3.6									
	Total	5,788,328	19.6		H	M	L			M	L	
A2 - Stone Wall not packed with mortar	Rural	683,207	2.3									
	Urbar	297,353	1.0									
	Total	980,560	3.3		H	M	L			L	VL	
Total - Category - A		6,768,888	22.9									
B - Burnt Bricks Wall & Stone wall packed with mortar	Rural	7,369,334	24.9									
	Urbar	9,193,798	31.1									
	Total	16,563,132	56.0		M	L	VL			L	VL	
Total - Category - B		16,563,132	56.0									
C1 - Concrete Wall	Rural	845,425	2.9									
	Urbar	2,348,762	7.9									
	Total	3,194,187	10.8		L	VL	VL			VL	VL	
C2 - Wood wall	Rural	187,899	0.6									
	Urbar	136,595	0.5									
	Total	324,494	1.1		L	VL	VL			M	L	
Total - Category - C		3,518,681	11.9									
X - Other Materials	Rural	1,984,261	6.7									
	Urbar	761,144	2.6									
	Total	2,745,405	9.3		VL	VL	VL			M	L	
Total - Category - X		2,745,405	9.3									
TOTAL HOUSES*		29,596,106										

ROOF												
R1 - Light Weight Sloping Roof	Rural	8,426,867	28.5									
	Urban	4,710,284	15.9									
	Total	13,137,151	44.4		M	L	VL			H	M	
R2 - Heavy Weight Sloping Roof	Rural	5,199,720	17.6									
	Urban	1,625,240	5.5									
	Total	6,824,960	23.1		M	L	VL			L	VL	
R3 - Flat Roof	Rural	2,169,963	7.3									
	Urban	7,464,032	25.2									
	Total	9,633,995	32.5	Damage Risk as per that for the Wall supporting it								
TOTAL HOUSES*		29,596,106										

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