

**BHUTAN**

Admin. level	Months	Year	Area	Sex	Age group	Sample size	Percentage below / above median													Notes	Ref			
							Weight/age		Height/age		Weight/height					BMI / age								
							-3SD	-2SD	-3SD	-2SD	-3SD	-2SD	+1SD	+2SD	+3SD	-3SD	-2SD	+1SD	+2SD			+3SD		
National		1986-88			0. -5.99	3273		34.0		60.9		5.2		3.5							Converted estimates	00374		
National		1999			0.50-5.00	2996	3.3	14.1	19.5	47.7	0.8	2.5	22.4	3.9	0.7	0.9	2.2	29.8	6.5	1.1		02015		
					0.50-0.99	409	2.2	7.1	8.1	19.3	1.0	3.7	32.0	8.6	1.7	1.7	3.7	30.6	8.8	1.2				
					1. -1.99	692	4.2	14.0	19.8	44.5	1.3	3.2	20.4	3.5	1.3	1.3	2.7	28.9	7.8	1.7				
					2. -2.99	679	3.4	14.3	21.0	52.4	1.2	3.5	20.5	4.4	0.6	1.2	2.8	32.5	8.3	1.3				
					3. -3.99	632	3.3	16.1	23.1	57.4	0.3	1.4	24.4	3.2	0.3	0.3	1.4	34.1	6.0	1.0				
					4. -5.00	584	3.1	16.6	21.4	55.6	0.0	1.0	17.9	1.5	0.0	0.0	0.7	22.7	1.9	0.2				
					M	0.50-5.00	1490	4.7	16.7	22.0	52.1	0.9	3.3	23.4	4.6	0.8	1.0	2.6	32.6	7.4			1.4	
					M	0.50-0.99	200	3.0	10.5	12.5	28.5	0.5	4.5	31.0	9.0	3.0	1.5	4.0	30.5	9.0			2.0	
					M	1. -1.99	360	5.6	16.9	22.5	51.4	1.7	4.4	20.3	2.8	0.6	1.7	3.6	30.3	8.3			1.4	
					M	2. -2.99	330	5.8	18.5	23.5	52.7	1.8	4.8	19.7	6.1	0.9	1.5	3.4	32.0	9.5			2.1	
					M	3. -3.99	309	4.9	17.5	26.5	62.1	0.3	1.6	28.2	4.5	0.3	0.3	1.6	40.5	7.8			1.3	
					M	4. -5.00	291	3.4	17.9	21.4	57.6	0.0	1.0	21.4	2.1	0.0	0.0	0.7	29.3	2.4			0.3	
					F	0.50-5.00	1506	2.0	11.5	16.9	43.4	0.6	1.8	21.3	3.3	0.7	0.7	1.8	27.1	5.7			0.8	
					F	0.50-0.99	209	1.4	3.8	3.8	10.5	1.4	2.9	33.0	8.1	0.5	1.9	3.3	30.6	8.6			0.5	
					F	1. -1.99	332	2.7	10.8	16.9	37.0	0.9	1.8	20.5	4.2	2.1	0.9	1.8	27.4	7.2			2.1	
F	2. -2.99	349	1.1	10.3	18.6	52.1	0.6	2.3	21.2	2.9	0.3	0.9	2.3	33.0	7.2	0.6								
F	3. -3.99	323	1.9	14.9	19.7	52.8	0.3	1.2	20.9	1.9	0.3	0.3	1.2	28.0	4.4	0.6								
F	4. -5.00	293	2.7	15.4	21.5	53.6	0.0	1.0	14.4	1.0	0.0	0.0	0.7	16.1	1.4	0.0								
National	NOV-DEC	2008			0.50-5.00	2348	2.4	12.0	13.0	37.5	1.4	4.6	20.3	5.2	1.6	1.8	4.5	25.9	6.6	1.6		02967		
					0.50-0.99	203	1.5	6.4	4.6	12.8	2.5	8.6	26.9	7.1	0.0	2.6	7.8	26.6	5.2	0.0				
					1. -1.99	496	1.4	9.3	10.7	30.7	1.2	6.0	24.0	8.5	1.9	2.1	5.7	31.7	11.5	1.9				
					2. -2.99	651	2.2	12.6	13.6	39.7	1.1	4.1	20.2	5.7	2.0	1.6	4.1	28.8	7.8	2.2				
					3. -3.99	567	3.4	12.3	14.1	43.2	2.0	4.1	16.7	2.9	1.8	2.0	4.5	21.7	3.9	1.4				
					4. -5.00	431	3.0	16.5	17.1	45.9	0.9	2.4	17.8	3.1	1.2	1.2	2.4	20.2	3.3	1.2				
					URBAN	0.50-5.00	558	1.4	8.1	8.7	31.9	0.2	2.9	20.5	6.0	1.8								
					RURAL	0.50-5.00	1790	2.7	13.2	14.3	39.3	1.8	5.1	20.2	5.0	1.5								
					M	0.50-5.00	1249	3.0	16.0	16.3	43.4	1.6	5.0	18.2	4.9	1.9	1.9	4.7	24.7	6.8			1.7	
					M	0.50-0.99	114	2.6	10.5	5.5	17.3	3.6	9.9	18.9	5.4	0.0	1.9	8.3	20.4	3.7			0.0	
					M	1. -1.99	258	1.9	13.6	12.2	36.9	0.8	5.6	23.4	7.5	2.4	1.6	5.2	32.8	11.6			1.6	

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							Weight/age		Height/age		Weight/height					BMI / age							
							-3SD	-2SD	-3SD	-2SD	-3SD	-2SD	+1SD	+2SD	+3SD	-3SD	-2SD	+1SD	+2SD	+3SD			
National	NOV-DEC	2008		M	2. -2.99	335	3.3	18.2	18.0	46.6	1.5	4.9	17.2	5.5	2.1	2.5	5.0	25.5	8.1	2.2		02967	
				M	3. -3.99	305	3.3	15.4	18.7	50.5	2.0	4.7	15.2	3.0	2.4	2.0	4.4	21.5	4.7	2.0			
				M	4. -5.00	237	3.8	19.0	20.4	48.9	1.3	2.6	17.6	3.4	1.3	1.3	2.6	20.9	3.8	1.7			
				F	0.50-5.00	1099	1.6	7.5	9.2	30.9	1.2	4.1	22.6	5.6	1.3	1.7	4.3	27.2	6.4	1.4			
				F	0.50-0.99	89	0.0	1.1	3.5	7.0	1.2	7.0	37.2	9.3	0.0	3.6	7.1	34.5	7.1	0.0			
				F	1. -1.99	238	0.8	4.6	9.1	23.9	1.7	6.5	24.7	9.5	1.3	2.6	6.2	30.4	11.5	2.2			
				F	2. -2.99	316	0.9	6.6	8.9	32.5	0.6	3.2	23.3	5.8	1.9	0.6	3.2	32.1	7.5	2.3			
				F	3. -3.99	262	3.4	8.8	8.8	34.9	1.9	3.5	18.5	2.7	1.2	1.9	4.6	21.9	3.1	0.8			
				F	4. -5.00	194	2.1	13.4	13.0	42.2	0.5	2.1	18.0	2.6	1.1	1.0	2.1	19.4	2.6	0.5			
National	APR-AUG	2010			0. -5.00	6071	3.2	12.7	13.3	33.5	2.0	5.9		7.6							Bumthang Central region Chukha Dagana Eastern region Gasa Haa Lhuntse Mongar Paro Pemagatshel Punakha Samdrup jonkhar Samtse Srapang Thimphu Trashigang Trashiyangtse Trongsa Tsirang	03077	
					0. -5.00	165	2.7	9.1	6.0	21.5	2.0	3.3		3.3									
					0. -5.00	1452	2.5	11.7	9.0	28.1	1.9	4.8		4.6									
					0. -5.00	625	3.3	14.1	6.4	27.4	2.2	10.9		2.4									
					0. -5.00	231	2.1	12.4	10.3	29.0	1.7	5.5		5.1									
					0. -5.00	1802	4.2	14.6	19.3	42.8	2.1	5.5		11.0									
					0. -5.00	37	1.5	3.6	12.1	31.8	0.0	3.2		5.5									
					0. -5.00	118	1.4	9.8	10.7	30.6	0.4	3.3		4.8									
					0. -5.00	123	6.1	17.7	41.5	58.9	0.9	4.3		30.9									
					0. -5.00	462	3.7	12.0	13.9	39.7	2.0	5.5		5.6									
					0. -5.00	320	1.6	7.5	9.9	30.1	2.1	6.9		9.2									
					0. -5.00	196	6.6	19.8	19.1	44.9	0.2	2.6		17.7									
					0. -5.00	203	2.0	11.4	6.2	20.7	2.2	4.7		3.3									
					0. -5.00	404	2.0	11.0	12.4	37.4	2.1	3.4		4.7									
					0. -5.00	730	2.0	13.1	7.5	28.4	1.5	4.7		2.3									
					0. -5.00	347	1.0	10.9	6.4	23.2	1.8	4.4		5.0									
					0. -5.00	784	4.7	11.9	23.2	37.8	2.9	6.2		15.5									
					0. -5.00	454	6.0	17.7	27.0	47.2	2.9	8.8		15.6									
	0. -5.00	164	1.2	13.6	15.8	40.3	2.8	4.8		7.8													
	0. -5.00	130	2.9	10.3	9.5	27.2	0.7	2.6		1.9													
	0. -5.00	178	3.3	12.9	7.2	28.4	2.3	5.3		3.1													

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							Weight/age		Height/age		Weight/height					BMI / age								
							-3SD	-2SD	-3SD	-2SD	-3SD	-2SD	+1SD	+2SD	+3SD	-3SD	-2SD	+1SD	+2SD	+3SD				
National	APR-AUG	2010			0. -5.00	237	1.3	11.0	8.2	28.7	1.8	3.7		2.7								Wangdue Western region Zhemgang	03077	
					0. -5.00	2817	3.0	12.0	11.8	30.5	2.1	6.7		6.9										
					0. -5.00	165	6.1	15.9	18.6	42.8	3.3	8.8		11.4										
					0. -0.49	587	3.5	10.7	9.5	21.0	8.4	15.1		13.6										
					0.50-0.99	615	2.4	8.6	9.3	16.7	3.3	10.0		10.0										
					1. -1.99	1202	3.4	11.4	14.6	35.9	2.0	6.2		8.3										
					2. -2.99	1294	2.8	13.8	16.1	37.4	1.1	3.3		6.8										
					3. -3.99	1221	3.7	15.4	14.1	40.3	1.1	4.9		6.7										
					4. -5.00	1153	3.1	13.1	12.1	34.3	0.7	3.3		4.8										
					URBAN	0. -5.00	1800	3.2	10.5	14.0	28.0	2.3	6.5		10.0									
					RURAL	0. -5.00	4271	3.2	13.6	13.1	35.8	1.9	5.6		6.6									
					M	0. -5.00	3085	3.4	13.3	13.6	33.4	2.2	6.2		7.5									
					F	0. -5.00	2986	3.0	12.0	13.1	33.6	1.9	5.5		7.6									