

## Land Use Land Cover (LULC) Change Matrix

(Area in Sq. Km)

LULC_CLASSES			ANDHRA PRADESH																
			2011-12																
			1: Agriculture					Sub Total	2: Barren/unculturable/ Wastelands						Sub Total	3: Builtup			Sub Total
			1.1	1.2	1.3	FL	1.4		2.1	2.2	2.3	2.4	2.5	2.6		3.1	3.2	3.3	
2005-06	1: Agriculture	1.1: Crop land	73978.65		1126.59	75105.24	39.70	75144.94								30.21	2.84	223.73	256.78
		1.2: Current Shifting cultivation		15.24		15.24		15.24											
		1.3: Plantation	0.09		5900.86	5900.96	0.04	5901.00						0.44	0.44	0.06		15.01	15.07
		Farmland (FL) = 1.1+1.2+1.3	73978.75	15.24	7027.45	81021.43	39.74	81061.18						0.44	0.44	30.27	2.84	238.74	271.85
		1.4: Fallow	3298.07		268.26	3566.33	9738.34	13304.67				65.05		0.18	65.22	31.25	0.60	94.62	126.46
		Sub Total	77276.82	15.24	7295.71	84587.77	9778.08	94365.85				65.05		0.62	65.66	61.51	3.44	333.36	398.32
	2: Barren/unculturable/ Wastelands	2.1: Barren Rocky							2133.77						2133.77	7.88	0.40	1.89	10.16
		2.2: Gullied / Ravinous Land								250.28					250.28	0.28		0.30	0.58
		2.3: Rann																	
		2.4: Salt Affected Land			1.24	1.24	0.39	1.63				1287.57			1287.57			1.98	1.98
		2.5: Sandy Area	10.28		28.58	38.86		38.86					485.56	0.11	485.67	14.83		0.80	15.62
		2.6: Scrub Land	0.04		86.66	86.69		86.69						11892.01	11892.01	38.01	1.78	37.37	77.15
		Sub Total	10.32		116.48	126.80	0.39	127.19	2133.77	250.28		1287.57	485.56	11892.12	16049.30	60.99	2.18	42.33	105.50
	3: Builtup	3.1: Mining			0.07	0.07		0.07								377.33		5.31	382.64
		3.2: Rural															2902.82	1.47	2904.28
		3.3: Urban														0.58		1072.85	1073.43
		Sub Total			0.07	0.07		0.07								377.91	2902.82	1079.63	4360.35
	4: Forest	4.1: Deciduous																	
		4.2: Evergreen/Semi evergreen														3.02		0.50	3.51
		4.3: Forest Plantation																	
		4.4: Scrub Forest		0.07		0.07		0.07								1.01		1.19	2.20
		4.5: Swamp / Mangroves											1.63		1.63			0.37	0.37
		Sub Total		0.07		0.07		0.07					1.63		1.63	4.03		2.06	6.08
	5: Grass / Grazing	5.1: Grass / Grazing																	
	6: Snow and Glacier	6.1: Snow and Glacier																	
	7: Wet lands / Water bodies	7.1: Inland Wetland																	
		7.2: Coastal Wetland	9.05		1.19	10.24	5.04	15.28					0.42	0.18	0.60	0.06		3.68	3.74
		7.3: River/Stream/Canals	1.04			1.04		1.04								0.08		0.90	0.98
		7.4: Water bodies	274.30		4.15	278.46	43.22	321.68									0.39	4.64	5.03
		Sub Total	284.39		5.34	289.74	48.26	338.00					0.42	0.18	0.60	0.13	0.39	9.22	9.75
	Grand Total		77571.53	15.31	7417.60	85004.44	9826.73	94831.17	2133.77	250.28		1352.62	487.61	11892.92	16117.20	504.57	2908.83	1466.60	4880.00

Note: Totals may not match due to rounding off.

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(Area in Sq. Km)

LULC_CLASSES			ANDHRA PRADESH													
			2011-12													
			4: Forest					Sub Total	5: Grass / Grazing	6: Snow and Glacier	7: Wet lands / Water bodies				Sub Total	Grand Total
			4.1	4.2	4.3	4.4	4.5		5.1	6.1	7.1	7.2	7.3	7.4		
2005-06	1: Agriculture	1.1: Crop land											102.69	289.98	392.67	75794.39
		1.2: Current Shifting cultivation				0.95		0.95								16.19
		1.3: Plantation											10.74	4.60	15.34	5931.85
		Farmland (FL) = 1.1+1.2+1.3				0.95		0.95					113.43	294.59	408.01	81742.43
		1.4: Fallow											40.85	27.05	67.90	13564.25
		Sub Total				0.95		0.95					154.28	321.64	475.91	95306.68
	2: Barren/unculturable/Wastelands	2.1: Barren Rocky														2143.93
		2.2: Gullied / Ravinous Land											0.04	0.01	0.05	250.92
		2.3: Rann														
		2.4: Salt Affected Land											0.95	2.68	3.64	1294.81
		2.5: Sandy Area	0.09		17.47		0.43	17.99				1.72	0.02	6.07	7.81	565.96
		2.6: Scrub Land											21.72	15.33	37.05	12092.91
		Sub Total	0.09		17.47		0.43	17.99				1.72	22.74	24.09	48.55	16348.53
	3: Builtup	3.1: Mining											0.50	0.32	0.82	383.52
		3.2: Rural											0.06	0.41	0.48	2904.76
		3.3: Urban														1073.43
		Sub Total											0.57	0.73	1.30	4361.72
	4: Forest	4.1: Deciduous		257.00				257.00								257.00
		4.2: Evergreen/Semi evergreen	25329.16		34.30	32.85		25396.31					1.01	5.35	6.36	25406.18
		4.3: Forest Plantation			545.56	84.29		629.86					0.12		0.12	629.98
		4.4: Scrub Forest			68.89	8321.44		8390.33					2.27	2.60	4.87	8397.46
		4.5: Swamp / Mangroves					323.50	323.50						0.47	0.47	325.98
		Sub Total	25329.16	257.00	648.75	8438.58	323.50	34997.00					3.40	8.42	11.82	35016.60
	5: Grass / Grazing	5.1: Grass / Grazing							98.20							98.20
	6: Snow and Glacier	6.1: Snow and Glacier														
	7: Wet lands / Water bodies	7.1: Inland Wetland									221.75			0.20	221.95	221.95
		7.2: Coastal Wetland					32.20	32.20				1076.31		4.38	1080.68	1132.50
		7.3: River/Stream/Canals											3556.89	5.71	3562.60	3564.61
		7.4: Water bodies					15.63	15.63			231.30	4.07	4.09	6356.38	6595.85	6938.20
		Sub Total					47.84	47.84			453.05	1080.38	3560.97	6366.67	11461.08	11857.27
	Grand Total		25329.26	257.00	666.22	8439.53	371.77	35063.77	98.20		453.05	1082.11	3741.95	6721.55	11998.66	162989.00

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## Land Use Land Cover (LULC) Change Matrix

(Area in Sq. Km)

LULC_CLASSES			ARUNACHAL PRADESH																
			2011-12																
			1: Agriculture					Sub Total	2:Barren/unculturable/ Wastelands						Sub Total	3: Builtup			Sub Total
			1.1	1.2	1.3	FL	1.4		2.1	2.2	2.3	2.4	2.5	2.6		2.3.1	2.3.2	2.3.3	
2005-06	1: Agriculture	1.1: Crop land	2500.72		14.88	2515.60	33.48	2549.08									0.28	0.23	0.51
		1.2: Current Shifting cultivation	1.73	431.64		433.37	0.13	433.49	0.35					0.23	0.57			0.07	0.07
		1.3: Plantation			31.68	31.68		31.68											
		Farmland(FL) = 1.1+1.2+1.3	2502.45	431.64	46.56	2980.65	33.61	3014.26	0.35					0.23	0.57		0.28	0.30	0.58
		1.4: Fallow	17.78			17.78	24.28	42.05									0.04		0.04
		Sub Total	2520.22	431.64	46.56	2998.43	57.89	3056.31	0.35					0.23	0.57		0.32	0.30	0.62
	2:Barren/unculturable/ Wastelands	2.1: Barren Rocky							133.12						133.12				
		2.2:Gullied / Ravinous Land																	
		2.3: Rann																	
		2.4: Salt Affected Land																	
		2.5: Sandy Area											7.53		7.53				
		2.6: Scrub Land	15.31	34.96	0.57	50.84		50.84	19.75					2393.32	2413.07				
		Sub Total	15.31	34.96	0.57	50.84		50.84	152.86				7.53	2393.32	2553.71				
	3: Builtup	3.1: Mining														0.61			0.61
		3.2: Rural															397.74		397.74
		3.3: Urban																122.74	122.74
		Sub Total														0.61	397.74	122.74	521.09
	4: Forest	4.1: Deciduous	1.34			1.34		1.34											
		4.2: Evergreen/Semi evergreen	110.46	333.27	2.28	446.01		446.01	19.43						19.43				
		4.3: Forest Plantation																	
		4.4: Scrub Forest	0.68	93.76		94.44		94.44						6.28	6.28				
		4.5: Swamp / Mangroves																	
		Sub Total	112.48	427.03	2.28	541.79		541.79	19.43					6.28	25.71				
	5: Grass / Grazing	5.1: Grass / Grazing	24.06	0.05	0.63	24.75	12.22	36.97											
	6:Snow and Glacier	6.1: Snow and Glacier							3.12						3.12				
	7: Wet lands / Water bodies	7.1: Inland Wetland																	
		7.2: Coastal Wetland																	
		7.3: River/Stream/Canals	6.11			6.11		6.11					0.00		0.00				
		7.4: Water bodies																	
		Sub Total	6.11			6.11		6.11					0.00		0.00				
	Grand Total		2678.20	893.69	50.05	3621.93	70.11	3692.04	175.76				7.53	2399.83	2583.11	0.61	398.06	123.04	521.71

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LULC_CLASSES			ARUNACHAL PRADESH														
			2011-12														
			4: Forest					5: Grass / Grazing	6: Snow and Glacier	7: Wet lands / Water bodies					Grand Total		
			2.4.1	2.4.2	2.4.3	2.4.4	2.4.5	Sub Total	2.5.1	2.6.1	2.7.1	2.7.2	2.7.3	2.7.4	Sub Total		
2005-06	1: Agriculture	1.1: Crop land				0.14	0.14						2.56		2.56	2552.29	
		1.2: Current Shifting cultivation				553.95	553.95									988.09	
		1.3: Plantation															31.68
		Farmland(FL) = 1.1+1.2+1.3				554.09	554.09						2.56		2.56	3572.06	
		1.4: Fallow															42.09
		Sub Total				554.09	554.09					2.56		2.56	3614.16		
	2: Barren/unculturable/ Wastelands	2.1: Barren Rocky															133.12
		2.2: Gullied / Ravinous Land															
		2.3: Rann															
		2.4: Salt Affected Land															
		2.5: Sandy Area															7.53
		2.6: Scrub Land	11.28			20.09	31.36		32.36								2527.63
		Sub Total	11.28			20.09	31.36		32.36								2668.27
	3: Builtup	3.1: Mining															0.61
		3.2: Rural															397.74
		3.3: Urban															122.74
		Sub Total															521.09
	4: Forest	4.1: Deciduous	121.48	1.14				122.61									123.95
		4.2: Evergreen/Semi evergreen	4.47	59214.89	1.87	269.28		59490.52	68.62	3.36			3.80		3.80		60031.74
		4.3: Forest Plantation			22.21	0.28		22.48									22.48
		4.4: Scrub Forest	0.13	2.46	0.03	503.74		506.36									607.08
		4.5: Swamp / Mangroves															
		Sub Total	126.09	59218.48	24.11	773.29		60141.97	68.62	3.36			3.80		3.80		60785.25
	5: Grass / Grazing	5.1: Grass / Grazing		332.44				332.44	5523.51	3.58			38.38	0.76	39.14	5935.64	
	6: Snow and Glacier	6.1: Snow and Glacier		4.31				4.31	190.64	8508.22						8706.29	
	7: Wet lands / Water bodies	7.1: Inland Wetland									4.16				4.16	4.16	
7.2: Coastal Wetland																	
7.3: River/Stream/Canals												1466.53		1466.53	1472.64		
7.4: Water bodies													35.49	35.49	35.49		
Sub Total										4.16		1466.53	35.49	1506.17	1512.29		
Grand Total		137.36	59555.23	24.11	1347.47		61064.18	5782.76	8547.52	4.16		1511.27	36.25	1551.68	83743.00		

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(Area in Sq. Km)

LULC_CLASSES			ASSAM																				
			2011-12																				
			1: Agriculture								2:Barren/unculturable/ Wastelands								3: Builtup				
1.1	1.2	1.3	FL	1.4	Sub Total	2.1	2.2	2.3	2.4	2.5	2.6	Sub Total	3.1	3.2	3.3	Sub Total							
2005-06	1: Agriculture	1.1: Crop land	22678.38		28.60	22706.99	374.30	23081.29					26.12	0.25	26.37	21.21	50.81	11.37	83.38				
		1.2: Current Shifting cultivation		40.75		40.75		40.75					44.43	44.43									
		1.3: Plantation	3.75		3795.80	3799.55	1.48	3801.03					0.05		0.05	0.06	3.48	3.72	7.26				
		Farmland (FL) = 1.1+1.2+1.3	22682.14	40.75	3824.40	26547.29	375.78	26923.07					26.17	44.68	70.86	21.26	54.29	15.09	90.65				
		1.4: Fallow	4.45			4.45	237.86	242.31					0.03		0.03	1.37	0.07	0.89	2.33				
		Sub Total	22686.59	40.75	3824.40	26551.74	613.64	27165.38					26.21	44.68	70.89	22.63	54.36	15.98	92.98				
	2:Barren/unculturable/ Wastelands	2.1: Barren Rocky							7.37						7.37								
		2.2:Gullied / Ravinous Land								6.80					6.80								
		2.3: Rann																					
		2.4: Salt Affected Land																					
		2.5: Sandy Area											69.69		69.69								
		2.6: Scrub Land		34.97		34.97		34.97	0.15				2.89	3696.25	3699.29	0.26			0.26				
		Sub Total		34.97		34.97		34.97	7.52	6.80			72.58	3696.25	3783.15	0.26			0.26				
	3: Builtup	3.1: Mining														34.82			34.82				
		3.2: Rural															556.93		556.93				
		3.3: Urban																560.72	560.72				
		Sub Total														34.82	556.93	560.72	1152.46				
	4: Forest	4.1: Deciduous	28.47	22.67		51.15		51.15					2.71		2.71	0.97	0.46	1.76	3.19				
		4.2: Evergreen/Semi evergreen		17.75	4.89	22.63	1.10	23.73					0.06		0.06	1.30			1.30				
		4.3: Forest Plantation		1.39		1.39		1.39															
		4.4: Scrub Forest	5.06	5.31		10.37		10.37					0.10	36.16	36.27	0.45	1.41	0.36	2.22				
		4.5: Swamp / Mangroves																					
		Sub Total	33.54	47.11	4.89	85.54	1.10	86.63					2.87	36.16	39.03	2.71	1.87	2.13	6.71				
	5: Grass / Grazing	5.1: Grass / Grazing	62.97		0.16	63.13		63.13					30.30		30.30	0.26			0.26				
	6:Snow and Glacier	6.1: Snow and Glacier																					
	7: Wet lands / Water bodies	7.1: Inland Wetland	342.20			342.20	8.61	350.80					10.39	1.25	11.64		1.91	0.52	2.42				
		7.2: Coastal Wetland																					
7.3: River/Stream/Canals		170.28			170.28	0.93	171.21					73.91	4.15	78.06		0.01		0.01					
7.4: Water bodies		1.02			1.02		1.02																
Sub Total		513.50			513.50	9.53	523.04					84.30	5.41	89.70		1.92	0.52	2.43					
Grand Total		23296.60	122.83	3829.46	27248.88	624.27	27873.16	7.52	6.80			216.25	3782.50	4013.08	60.68	615.08	579.34	1255.10					

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			2011-12													
			4: Forest					5: Grass / Grazing	6:Snow and Glacier	7: Wet lands / Water bodies					Grand Total	
			4.1	4.2	4.3	4.4	4.5	Sub Total	5.1	6.1	7.1	7.2	7.3	7.4	Sub Total	
2005-06	1: Agriculture	1.1: Crop land									82.54		380.01	2.02	464.57	23655.61
		1.2: Current Shifting cultivation	1.92			63.17		65.09								150.28
		1.3: Plantation									0.41		6.82		7.23	3815.57
		Farmland (FL) = 1.1+1.2+1.3	1.92			63.17		65.09			82.95		386.82	2.02	471.80	27621.46
		1.4: Fallow									2.64		0.52		3.16	247.84
		Sub Total	1.92			63.17		65.09			85.59		387.34	2.02	474.96	27869.30
	2:Barren/unculturable/ Wastelands	2.1: Barren Rocky														7.37
		2.2:Gullied / Ravinous Land														6.80
		2.3: Rann														
		2.4: Salt Affected Land														
		2.5: Sandy Area														69.69
		2.6: Scrub Land	21.89			0.83		22.73	0.39		0.22		6.71	0.05	6.98	3764.61
		Sub Total	21.89			0.83		22.73	0.39		0.22		6.71	0.05	6.98	3848.47
	3: Builtup	3.1: Mining											0.00		0.00	34.82
		3.2: Rural											0.06		0.06	556.99
		3.3: Urban														560.72
		Sub Total											0.06		0.06	1152.52
	4: Forest	4.1: Deciduous	23718.16	54.58		74.45		23847.19	0.00		0.13		67.88		68.01	23972.25
		4.2: Evergreen/Semi evergreen		7805.37		89.13		7894.50			0.30		18.70		19.01	7938.60
		4.3: Forest Plantation	0.40		122.26			122.66					0.37		0.37	124.42
		4.4: Scrub Forest	24.20		1.62	1956.24		1982.05					9.41		9.41	2040.32
		4.5: Swamp / Mangroves														
		Sub Total	23742.75	7859.95	123.88	2119.82		33846.41	0.00		0.43		96.36		96.80	34075.58
	5: Grass / Grazing	5.1: Grass / Grazing	16.32					16.32	2117.43		17.60		430.08	0.12	447.80	2675.25
	6:Snow and Glacier	6.1: Snow and Glacier														
	7: Wet lands / Water bodies	7.1: Inland Wetland	2.35	0.06		0.15		2.57	40.96		1371.90		21.56	3.17	1396.64	1805.03
7.2: Coastal Wetland																
7.3: River/Stream/Canals		1.94			0.59		2.53	884.68		18.92		5785.87	0.59	5805.37	6941.86	
7.4: Water bodies		0.14					0.14	0.03		0.46		0.42	67.90	68.78	69.98	
Sub Total		4.44	0.06		0.74		5.24	925.67		1391.28		5807.85	71.66	7270.80	8816.87	
Grand Total		23787.33	7860.01	123.88	2184.56		33955.78	3043.49		1495.13		6728.40	73.86	8297.38	78438.00	

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LULC_CLASSES			BIHAR																
			2011-12																
			1: Agriculture						2:Barren/unculturable/ Wastelands							3: Builtup			
1.1	1.2	1.3	FL	1.4	Sub Total	2.1	2.2	2.3	2.4	2.5	2.6	Sub Total	3.1	3.2	3.3	Sub Total			
2005-06	1: Agriculture	1.1: Crop land	57277.51		16.38	57293.89	1978.00	59271.89					3.64	108.67	112.31	5.29	25.14	19.11	49.54
		1.2: Current Shifting cultivation																	
		1.3: Plantation	12.44		2416.79	2429.23	3.61	2432.83					0.26	0.26				0.07	0.07
		Farmland (FL) = 1.1+1.2+1.3	57289.94		2433.17	59723.11	1981.61	61704.72				3.64	108.93	112.57	5.29	25.14	19.18	49.61	
		1.4: Fallow	6579.09		9.73	6588.81	3810.52	10399.34		0.19		0.07	99.94	100.20	1.53	1.81	15.59	18.93	
		Sub Total	63869.03		2442.90	66311.93	5792.13	72104.06		0.19		3.71	208.87	212.76	6.82	26.94	34.77	68.53	
	2:Barren/uncul turable/ Wastelands	2.1: Barren Rocky						150.28						150.28					
		2.2:Gullied / Ravinous Land			0.08	0.08		0.08		56.16		3.12	59.28						
		2.3: Rann																	
		2.4: Salt Affected Land																	
		2.5: Sandy Area	0.68			0.68	2.07	2.76				2.18	1.75	3.93					
		2.6: Scrub Land	556.04		1.74	557.78	76.02	633.80		0.52			2373.76	2374.28	0.50	0.10	1.49	2.08	
		Sub Total	556.72		1.82	558.54	78.09	636.63	150.28	56.68		2.18	2378.63	2587.77	0.50	0.10	1.49	2.08	
	3: Builtup	3.1: Mining													45.97				45.97
		3.2: Rural														4447.18			4447.18
		3.3: Urban															797.51		797.51
		Sub Total													45.97	4447.18	797.51		5290.65
	4: Forest	4.1: Deciduous																0.08	0.08
		4.2: Evergreen/Semi evergreen																	
		4.3: Forest Plantation																	
		4.4: Scrub Forest																	
		4.5: Swamp / Mangroves																	
		Sub Total																0.08	0.08
	5: Grass / Grazing	5.1: Grass / Grazing	1.65			1.65		1.65					1.09	1.09					
	6:Snow and Glacier	6.1: Snow and Glacier																	
	7: Wet lands / Water bodies	7.1: Inland Wetland	382.50		0.35	382.86	21.84	404.70					7.66	7.66	0.18	0.22	1.62		2.02
		7.2: Coastal Wetland																	
7.3: River/Stream/Canals		266.12		0.76	266.88	47.29	314.17					461.07	461.07						
7.4: Water bodies		2.75			2.75	0.07	2.82					1.61	1.61						
Sub Total		651.37		1.12	652.48	69.20	721.68					470.35	470.35	0.18	0.22	1.62		2.02	
Grand Total		65078.77		2445.83	67524.60	5939.42	73464.02	150.28	56.87		5.89	3058.93	3271.97	53.47	4474.44	835.46		5363.37	

Note: Totals may not match due to rounding off.

## Land Use Land Cover (LULC) Change Matrix

(Area in Sq. Km)

LULC_CLASSES			BIHAR													
			2011-12													
			4: Forest					Sub Total	5: Grass / Grazing	6:Snow and Glacier	7: Wet lands / Water bodies				Sub Total	Grand Total
			4.1	4.2	4.3	4.4	4.5				7.1	7.2	7.3	7.4		
2005-06	1: Agriculture	1.1: Crop land									40.52		202.38	0.62	243.51	59677.25
		1.2: Current Shifting cultivation														
		1.3: Plantation									0.30		0.88		1.18	2434.34
		Farmland (FL) = 1.1+1.2+1.3									40.82		203.26	0.62	244.70	62111.59
		1.4: Fallow	0.12					0.12			115.43		173.62	0.46	289.51	10808.08
		Sub Total	0.12					0.12			156.25		376.87	1.08	534.20	72919.67
	2:Barren/unculturable/ Wastelands	2.1: Barren Rocky														150.28
		2.2:Gullied / Ravinous Land	1.35					1.35								60.71
		2.3: Rann														
		2.4: Salt Affected Land														
		2.5: Sandy Area	0.03					0.03					0.08		0.08	6.79
		2.6: Scrub Land	0.69					0.69	3.25		56.90		184.81	0.35	242.06	3256.16
		Sub Total	2.07					2.07	3.25		56.90		184.89	0.35	242.14	3473.95
	3: Builtup	3.1: Mining														45.97
		3.2: Rural											1.40		1.40	4448.57
		3.3: Urban														797.51
		Sub Total											1.40		1.40	5292.05
	4: Forest	4.1: Deciduous	4635.72			0.16		4635.88					1.15	0.03	1.18	4637.14
		4.2: Evergreen/Semi evergreen														
		4.3: Forest Plantation			2.81			2.81								2.81
		4.4: Scrub Forest	49.64			1024.36		1073.99					0.38	0.18	0.57	1074.56
		4.5: Swamp / Mangroves														
		Sub Total	4685.36		2.81	1024.52		5712.68					1.53	0.21	1.75	5714.51
	5: Grass / Grazing	5.1: Grass / Grazing							12.65		0.04		2.36		2.40	17.80
	6:Snow and Glacier	6.1: Snow and Glacier														
	7: Wet lands / Water bodies	7.1: Inland Wetland									1603.58		3.13	0.34	1607.06	2021.44
		7.2: Coastal Wetland														
7.3: River/Stream/Canals								5.38		21.88		3754.03		3775.90	4556.52	
7.4: Water bodies										1.02		0.01	169.60	170.64	175.07	
Sub Total									5.38		1626.48		3757.18	169.94	5553.60	6753.03
Grand Total		4687.55		2.81	1024.52		5714.88	21.28		1839.66		4324.23	171.59	6335.48	94171.00	

Note: Totals may not match due to rounding off.



## Land Use Land Cover (LULC) Change Matrix

(Area in Sq. Km)

LULC_CLASSES			CHHATTISGARH																
			2011-12																
			1: Agriculture						2:Barren/unculturable/ Wastelands							3: Builtup			
			1.1	1.2	1.3	FL	1.4	Sub Total	2.1	2.2	2.3	2.4	2.5	2.6	Sub Total	3.1	3.2	3.3	Sub Total
2005-06	1: Agriculture	1.1: Crop land	55267.79		86.49	55354.28	1665.37	57019.65					10.97	345.48	356.45	19.15		105.40	124.55
		1.2: Current Shifting cultivation		1.84		1.84		1.84											
		1.3: Plantation	75.21		133.16	208.38	6.65	215.02					0.05	4.65	4.70			0.86	0.86
		Farmland (FL) = 1.1+1.2+1.3	55343.00	1.84	219.65	55564.50	1672.02	57236.52					11.01	350.13	361.15	19.15		106.26	125.41
		1.4: Fallow	1797.98		1.87	1799.85	1341.85	3141.70					1.31	103.36	104.66	3.11		4.45	7.56
		Sub Total	57140.98	1.84	221.53	57364.35	3013.87	60378.22					12.32	453.49	465.81	22.26		110.71	132.98
	2:Barren/unculturable/ Wastelands	2.1: Barren Rocky							566.69						566.69	1.31		1.33	2.64
		2.2:Gullied / Ravinous Land	39.96			39.96		39.96		23.31				1.99	25.30				
		2.3: Rann																	
		2.4: Salt Affected Land										0.29			0.29				
		2.5: Sandy Area	3.99			3.99		3.99					75.81		75.81				
		2.6: Scrub Land	593.11		15.69	608.79	0.56	609.36					0.04	3862.25	3862.29	22.60		23.27	45.87
		Sub Total	637.05		15.69	652.74	0.56	653.31	566.69	23.31		0.29	75.85	3864.25	4530.39	23.91		24.61	48.52
	3: Builtup	3.1: Mining														238.30			238.30
		3.2: Rural															3114.70		3114.70
		3.3: Urban														0.04		712.06	712.10
			Sub Total													238.34	3114.70	712.06	4065.10
	4: Forest	4.1: Deciduous	736.68	17.01		753.69		753.69					0.08		0.08	6.43		1.62	8.05
		4.2: Evergreen/Semi evergreen																	
		4.3: Forest Plantation																	
		4.4: Scrub Forest		1.54		1.54	0.94	2.48								3.89			3.89
		4.5: Swamp / Mangroves																	
		Sub Total	736.68	18.54		755.22	0.94	756.17					0.08		0.08	10.32		1.62	11.94
	5: Grass / Grazing	5.1: Grass / Grazing																	
	6:Snow and Glacier	6.1: Snow and Glacier																	
	7: Wet lands / Water bodies	7.1: Inland Wetland																	
		7.2: Coastal Wetland																	
7.3: River/Stream/Canals		5.42			5.42		5.42					0.11		0.11					
7.4: Water bodies		31.27			31.27		31.27								1.13		0.37	1.50	
	Sub Total	36.70			36.70		36.70					0.11		0.11	1.13		0.37	1.50	
Grand Total		58551.41	20.39	237.21	58809.01	3015.37	61824.38	566.69	23.31		0.29	88.36	4317.73	4996.39	295.96	3114.70	849.37	4260.03	

Note: Totals may not match due to rounding off.

## Land Use Land Cover (LULC) Change Matrix

(Area in Sq. Km)

LULC_CLASSES			CHHATTISGARH													
			2011-12													
			4: Forest					5: Grass / Grazing	6: Snow and Glacier	7: Wet lands / Water bodies					Grand Total	
			4.1	4.2	4.3	4.4	4.5	Sub Total	5.1	6.1	7.1	7.2	7.3	7.4	Sub Total	
2005-06	1: Agriculture	1.1: Crop land	3.38		0.03			3.40			0.35		2.60	87.87	90.82	57594.88
		1.2: Current Shifting cultivation														1.84
		1.3: Plantation										0.17	0.62	0.79	221.37	
		Farmland (FL) = 1.1+1.2+1.3	3.38		0.03			3.40			0.35		2.76	88.49	91.61	57818.09
		1.4: Fallow	0.83		0.05			0.88				0.07	13.77	13.84	3268.64	
		Sub Total	4.21		0.08			4.28			0.35		2.84	102.26	105.45	61086.73
	2: Barren/unculturable/ Wastelands	2.1: Barren Rocky										0.12	3.75	3.88	573.21	
		2.2: Gullied / Ravinous Land														65.26
		2.3: Rann														
		2.4: Salt Affected Land														0.29
		2.5: Sandy Area	0.05					0.05				16.84	1.34	18.18	98.04	
		2.6: Scrub Land	0.98		5.32			6.31			0.10			19.83	19.93	4543.76
		Sub Total	1.03		5.32			6.35			0.10		16.97	24.93	42.00	5280.56
	3: Builtup	3.1: Mining														238.30
		3.2: Rural														3114.70
		3.3: Urban														712.10
		Sub Total														4065.10
	4: Forest	4.1: Deciduous	57330.91			3.97		57334.88					0.53	32.40	32.93	58129.63
		4.2: Evergreen/Semi evergreen														
		4.3: Forest Plantation			51.10			51.10								51.10
		4.4: Scrub Forest			2.16	3376.80		3378.96					0.06	8.50	8.57	3393.89
		4.5: Swamp / Mangroves														
		Sub Total	57330.91		53.25	3380.77		60764.93					0.59	40.91	41.50	61574.62
	5: Grass / Grazing	5.1: Grass / Grazing														
	6: Snow and Glacier	6.1: Snow and Glacier														
	7: Wet lands / Water bodies	7.1: Inland Wetland									0.05				0.05	0.05
		7.2: Coastal Wetland														
7.3: River/Stream/Canals											1745.91	2.32	1748.23	1753.77		
7.4: Water bodies												1400.41	1400.41	1433.18		
	Sub Total									0.05		1745.91	1402.73	3148.69	3186.99	
	Grand Total	57336.15		58.66	3380.77		60775.57			0.50		1766.31	1570.82	3337.63	135194.00	

Note: Totals may not match due to rounding off.

## Land Use Land Cover (LULC) Change Matrix

(Area in Sq. Km)

LULC_CLASSES			GOA																	
			2011-12																	
			1: Agriculture					Sub Total	2:Barren/unculturable/ Wastelands						Sub Total	3: Builtup			Sub Total	
									1.1	1.2	1.3	FL	1.4	2.1		2.2	2.3	2.4		2.5
2005-06	1: Agriculture	1.1: Crop land	559.19			559.19	1.30	560.50									2.51		1.19	3.70
		1.2: Current Shifting cultivation																		
		1.3: Plantation	0.10		173.90	174.01	0.68	174.69									1.85		0.13	1.98
		Farmland (FL) = 1.1+1.2+1.3	559.29		173.90	733.20	1.99	735.19									4.36		1.32	5.67
		1.4: Fallow	0.36			0.36	28.57	28.93												
		Sub Total	559.65		173.90	733.56	30.56	764.12									4.36		1.32	5.67
	2:Barren/unculturable/ Wastelands	2.1: Barren Rocky							57.59							57.59				
		2.2:Gullied / Ravinous Land																		
		2.3: Rann																		
		2.4: Salt Affected Land																		
		2.5: Sandy Area											2.42		2.42					
		2.6: Scrub Land			0.21	0.21		0.21							264.09	264.09	4.27	0.06	1.34	5.67
		Sub Total			0.21	0.21		0.21	57.59				2.42	264.09	324.10	4.27	0.06	1.34	5.67	
	3: Builtup	3.1: Mining															72.73			72.73
		3.2: Rural																19.84		19.84
		3.3: Urban																	289.53	289.53
		Sub Total															72.73	19.84	289.53	382.10
	4: Forest	4.1: Deciduous															2.37		0.03	2.40
		4.2: Evergreen/Semi evergreen																		
		4.3: Forest Plantation																		
		4.4: Scrub Forest																		
		4.5: Swamp / Mangroves																		
		Sub Total															2.37		0.03	2.40
5: Grass / Grazing	5.1: Grass / Grazing																			
6:Snow and Glacier	6.1: Snow and Glacier																			
7: Wet lands / Water bodies	7.1: Inland Wetland																			
	7.2: Coastal Wetland																			
	7.3: River/Stream/Canals																			
	7.4: Water bodies													0.25	0.25					
	Sub Total												0.25	0.25						
Grand Total		559.65		174.11	733.77	30.56	764.33	57.59				2.42	264.34	324.35	83.73	19.90	292.22	395.85		

Note: Totals may not match due to rounding off.

## Land Use Land Cover (LULC) Change Matrix

(Area in Sq. Km)

LULC_CLASSES			GOA													
			2011-12													
			4: Forest					Sub Total	5: Grass / Grazing	6: Snow and Glacier	7: Wet lands / Water bodies				Sub Total	Grand Total
			4.1	4.2	4.3	4.4	4.5		5.1	6.1	7.1	7.2	7.3	7.4		
2005-06	1: Agriculture	1.1: Crop land														564.19
		1.2: Current Shifting cultivation														
		1.3: Plantation														176.67
		Farmland (FL) = 1.1+1.2+1.3														740.86
		1.4: Fallow														28.93
		Sub Total														769.79
	2: Barren/unculturable/ Wastelands	2.1: Barren Rocky														57.59
		2.2: Gullied / Ravinous Land														
		2.3: Rann														
		2.4: Salt Affected Land														
		2.5: Sandy Area														2.42
		2.6: Scrub Land														269.97
		Sub Total														329.98
	3: Builtup	3.1: Mining														72.73
		3.2: Rural														19.84
		3.3: Urban														289.53
		Sub Total														382.10
	4: Forest	4.1: Deciduous	1154.74					1154.74								1157.14
		4.2: Evergreen/Semi evergreen		608.37				608.37								608.37
		4.3: Forest Plantation			41.00			41.00								41.00
		4.4: Scrub Forest				207.52		207.52								207.52
		4.5: Swamp / Mangroves					17.31	17.31								17.31
		Sub Total	1154.74	608.37	41.00	207.52	17.31	2028.95								2031.35
	5: Grass / Grazing	5.1: Grass / Grazing							0.09							0.09
	6: Snow and Glacier	6.1: Snow and Glacier														
	7: Wet lands / Water bodies	7.1: Inland Wetland	0.50					0.50			54.57		0.10		54.68	55.18
		7.2: Coastal Wetland										23.28			23.28	23.28
		7.3: River/Stream/Canals											79.96		79.96	79.96
		7.4: Water bodies												30.01	30.01	30.26
		Sub Total	0.50					0.50			54.57	23.28	80.07	30.01	187.93	188.68
		Grand Total	1155.24	608.37	41.00	207.52	17.31	2029.45	0.09		54.57	23.28	80.07	30.01	187.93	3702.00

Note: Totals may not match due to rounding off.

## Land Use Land Cover (LULC) Change Matrix

(Area in Sq. Km)

LULC_CLASSES			GUJARAT																	
			2011-12																	
			1: Agriculture						2:Barren/unculturable/ Wastelands							3: Builtup				
			1.1	1.2	1.3	FL	1.4	Sub Total	2.1	2.2	2.3	2.4	2.5	2.6	Sub Total	3.1	3.2	3.3	Sub Total	
2005-06	1: Agriculture	1.1: Crop land	109434.16		18.91	109453.07	552.02	110005.09				0.18		2.10	2.27	0.32	0.20	128.03	128.55	
		1.2: Current Shifting cultivation																		
		1.3: Plantation			309.92	309.92	0.29	310.20												
		Farmland (FL) = 1.1+1.2+1.3	109434.16		328.83	109762.99	552.30	110315.29				0.18		2.10	2.27	0.32	0.20	128.03	128.55	
		1.4: Fallow	158.53		0.38	158.90	13774.01	13932.91				4.48		2.27	6.75		0.08	63.38	63.46	
		Sub Total	109592.69		329.20	109921.89	14326.31	124248.20				4.66		4.36	9.02	0.32	0.27	191.41	192.01	
	2:Barren/unculturable/ Wastelands	2.1: Barren Rocky							203.43							203.43				
		2.2:Gullied / Ravinous Land	0.75			0.75		0.75		438.21						438.21			0.19	0.19
		2.3: Rann									16868.50					16868.50			0.28	0.28
		2.4: Salt Affected Land										958.79				958.79			1.42	1.42
		2.5: Sandy Area											195.00			195.00			1.26	1.26
		2.6: Scrub Land	8.20		0.85	9.05		9.05		6.12					18562.91	18569.03	13.30		54.23	67.53
		Sub Total	8.95		0.85	9.80		9.80	203.43	444.33	16868.50	958.79	195.00	18562.91	37232.95	13.30		57.38	70.69	
	3: Builtup	3.1: Mining															111.70		0.22	111.92
		3.2: Rural																1494.22	0.45	1494.67
		3.3: Urban																	1706.41	1706.41
		Sub Total															111.70	1494.22	1707.08	3313.01
	4: Forest	4.1: Deciduous																	1.25	1.25
		4.2: Evergreen/Semi evergreen																		
		4.3: Forest Plantation																		
		4.4: Scrub Forest																		
		4.5: Swamp / Mangroves																	0.49	0.49
		Sub Total																	1.74	1.74
	5: Grass / Grazing	5.1: Grass / Grazing																	0.39	0.39
	6:Snow and Glacier	6.1: Snow and Glacier																		
	7: Wet lands / Water bodies	7.1: Inland Wetland	0.30			0.30		0.30									0.21		3.60	3.81
		7.2: Coastal Wetland													25.71	25.71			4.19	4.19
7.3: River/Stream/Canals										0.06					0.06					
7.4: Water bodies																		1.18	1.18	
	Sub Total	0.30			0.30		0.30		0.06				25.71	25.77	0.21		8.97	9.18		
Grand Total		109601.94		330.05	109931.99	14326.31	124258.31	203.43	444.39	16868.50	963.45	195.00	18592.98	37267.74	125.54	1494.50	1966.98	3587.02		

Note: Totals may not match due to rounding off.

## Land Use Land Cover (LULC) Change Matrix

(Area in Sq. Km)

LULC_CLASSES			GUJARAT													
			2011-12													
			4: Forest					5: Grass / Grazing	6:Snow and Glacier	7: Wet lands / Water bodies				Sub Total	Grand Total	
			4.1	4.2	4.3	4.4	4.5			Sub Total	5.1	6.1	7.1			7.2
2005-06	1: Agriculture	1.1: Crop land										7.85	1.27	39.06	48.18	110184.09
		1.2: Current Shifting cultivation														
		1.3: Plantation														310.20
		Farmland (FL) = 1.1+1.2+1.3									7.85	1.27	39.06	48.18	110494.29	
		1.4: Fallow									1.27	2.91	9.85	14.02	14017.14	
		Sub Total									9.12	4.18	48.90	62.20	124511.44	
	2:Barren/unculturable/ Wastelands	2.1: Barren Rocky														203.43
		2.2:Gullied / Ravinous Land														439.15
		2.3: Rann														16868.79
		2.4: Salt Affected Land										0.93	3.35	4.28	964.49	
		2.5: Sandy Area													196.25	
		2.6: Scrub Land						2.78		11.34	2.50	5.80	19.64	18668.03		
		Sub Total						2.78		11.34	3.43	9.16	23.92	37340.14		
	3: Builtup	3.1: Mining														111.92
		3.2: Rural														1494.67
		3.3: Urban														1706.41
		Sub Total														3313.01
	4: Forest	4.1: Deciduous	10117.67					10117.67						3.05	3.05	10121.97
		4.2: Evergreen/Semi evergreen		10.21				10.21								10.21
		4.3: Forest Plantation			187.47			187.47						0.40	0.40	187.88
		4.4: Scrub Forest				1933.99		1933.99								1933.99
		4.5: Swamp / Mangroves					634.89	634.89								635.39
		Sub Total	10117.67	10.21	187.47	1933.99	634.89	12884.25						3.45	3.45	12889.44
	5: Grass / Grazing	5.1: Grass / Grazing							16.81							17.20
	6:Snow and Glacier	6.1: Snow and Glacier														
	7: Wet lands / Water bodies	7.1: Inland Wetland					1.59	1.59			983.91			1.04	984.95	990.65
		7.2: Coastal Wetland					56.74	56.74			8.77	9073.75	4.72	3.06	9090.30	9176.93
		7.3: River/Stream/Canals											3040.96	0.06	3041.02	3041.08
7.4: Water bodies													4742.92	4742.92	4744.11	
	Sub Total					58.33	58.33			992.68	9073.75	3045.68	4747.08	17859.19	17952.77	
Grand Total		10117.67	10.21	187.47	1933.99	693.22	12942.57	19.59		992.68	9094.20	3053.29	4808.60	17948.77	196024.00	

Note: Totals may not match due to rounding off.

## Land Use Land Cover (LULC) Change Matrix

(Area in Sq. Km)

LULC_CLASSES			HARYANA																
			2011-12																
			1: Agriculture						2:Barren/unculturable/ Wastelands							3: Builtup			
			1.1	1.2	1.3	FL	1.4	Sub Total	2.1	2.2	2.3	2.4	2.5	2.6	Sub Total	3.1	3.2	3.3	Sub Total
2005-06	1: Agriculture	1.1: Crop land	37007.53		54.04	37061.57	273.22	37334.80				3.48		18.77	22.26	29.53	6.41	330.97	366.91
		1.2: Current Shifting cultivation																	
		1.3: Plantation	45.16		83.48	128.64	2.16	130.80				0.05		1.73	1.79	0.08		4.35	4.43
		Farmland (FL) = 1.1+1.2+1.3	37052.70		137.52	37190.22	275.38	37465.60				3.54		20.51	24.04	29.61	6.41	335.32	371.33
		1.4: Fallow	538.86		0.43	539.29	207.80	747.09				0.05		0.39	0.43	1.73		12.27	14.00
		Sub Total	37591.56		137.95	37729.51	483.18	38212.69				3.58		20.89	24.48	31.33	6.41	347.59	385.33
	2:Barren/unculturable/ Wastelands	2.1: Barren Rocky							187.16						187.16	1.39			1.39
		2.2:Gullied / Ravinous Land																	
		2.3: Rann																	
		2.4: Salt Affected Land	13.35			13.35	0.10	13.44				47.15		1.51	48.66	0.82		5.92	6.74
		2.5: Sandy Area	10.92			10.92	1.13	12.05					22.21	2.24	24.46			0.22	0.22
		2.6: Scrub Land	26.37			26.37	0.92	27.29				1.45		635.10	636.55	1.54		24.93	26.47
		Sub Total	50.64			50.64	2.15	52.79	187.16			48.60	22.21	638.85	896.83	3.75		31.07	34.82
	3: Builtup	3.1: Mining														73.98			73.98
		3.2: Rural															792.45	3.69	796.15
		3.3: Urban																1220.16	1220.16
		Sub Total														73.98	792.45	1223.86	2090.29
	4: Forest	4.1: Deciduous												0.02	0.02			0.05	0.05
		4.2: Evergreen/Semi evergreen																	
		4.3: Forest Plantation																	
		4.4: Scrub Forest														0.14			0.14
		4.5: Swamp / Mangroves																	
		Sub Total												0.02	0.02	0.14		0.05	0.19
	5: Grass / Grazing	5.1: Grass / Grazing	22.72		0.15	22.88	0.93	23.81				0.56		2.60	3.16	0.15	81.85	22.61	104.61
	6:Snow and Glacier	6.1: Snow and Glacier																	
	7: Wet lands / Water bodies	7.1: Inland Wetland	2.30			2.30		2.30						0.13	0.13				
		7.2: Coastal Wetland																	
7.3: River/Stream/Canals		3.04			3.04	0.00	3.04												
7.4: Water bodies		1.54		0.08	1.62	0.07	1.68										0.19	0.19	
	Sub Total	6.88		0.08	6.96	0.07	7.02						0.13	0.13			0.19	0.19	
Grand Total		37671.80		138.19	37809.98	486.32	38296.30	187.16			52.75	22.21	662.49	924.61	109.35	880.71	1625.36	2615.43	

Note: Totals may not match due to rounding off.

## Land Use Land Cover (LULC) Change Matrix

(Area in Sq. Km)

LULC_CLASSES			HARYANA													
			2011-12													
			4: Forest					Sub Total	5: Grass / Grazing	6:Snow and Glacier	7: Wet lands / Water bodies				Sub Total	Grand Total
			4.1	4.2	4.3	4.4	4.5		5.1	6.1	7.1	7.2	7.3	7.4		
2005-06	1: Agriculture	1.1: Crop land						53.51			6.15		13.14	9.67	28.96	37806.42
		1.2: Current Shifting cultivation														
		1.3: Plantation							2.95		0.35			0.24	0.59	140.56
		Farmland (FL) = 1.1+1.2+1.3							56.46		6.50		13.14	9.90	29.54	37946.98
		1.4: Fallow							0.67		0.15		0.12	0.28	0.55	762.73
		Sub Total						57.13		6.65		13.25	10.18	30.09	38709.71	
	2:Barren/unculturable/ Wastelands	2.1: Barren Rocky														188.56
		2.2:Gullied / Ravinous Land														
		2.3: Rann														
		2.4: Salt Affected Land							0.09		0.48			0.31	0.78	69.71
		2.5: Sandy Area											0.31	0.12	0.44	37.16
		2.6: Scrub Land							5.61		0.76		0.84	1.39	2.99	698.91
		Sub Total						5.70		1.24		1.15	1.82	4.21	994.34	
	3: Builtup	3.1: Mining														73.98
		3.2: Rural														796.15
		3.3: Urban												0.04	0.04	1220.20
		Sub Total												0.04	0.04	2090.32
	4: Forest	4.1: Deciduous	891.50			0.00		891.50					0.11		0.11	891.68
		4.2: Evergreen/Semi evergreen		1.24				1.24								1.24
		4.3: Forest Plantation			10.57			10.57								10.57
		4.4: Scrub Forest	1.89			153.11		155.00								155.14
		4.5: Swamp / Mangroves														
		Sub Total	893.39	1.24	10.57	153.11		1058.31					0.11		0.11	1058.63
	5: Grass / Grazing	5.1: Grass / Grazing							718.78		0.08		0.13	5.53	5.74	856.09
	6:Snow and Glacier	6.1: Snow and Glacier														
	7: Wet lands / Water bodies	7.1: Inland Wetland									41.00				41.00	43.43
7.2: Coastal Wetland																
7.3: River/Stream/Canals												333.78	0.03	333.80	336.85	
7.4: Water bodies								0.41					120.35	120.35	122.63	
	Sub Total							0.41		41.00		333.78	120.38	495.16	502.91	
Grand Total		893.39	1.24	10.57	153.11		1058.31	782.01		48.97		348.42	137.95	535.34	44212.00	

Note: Totals may not match due to rounding off.



## Land Use Land Cover (LULC) Change Matrix

(Area in Sq. Km)

LULC_CLASSES			HIMACHAL PRADESH																
			2011-12																
			1: Agriculture						2:Barren/unculturable/ Wastelands							3: Builtup			
			1.1	1.2	1.3	FL	1.4	Sub Total	2.1	2.2	2.3	2.4	2.5	2.6	Sub Total	3.1	3.2	3.3	Sub Total
2005-06	1: Agriculture	1.1: Crop land	6259.55		39.93	6299.48		6299.48		0.03				272.85	272.88	0.34		3.04	3.38
		1.2: Current Shifting cultivation																	
		1.3: Plantation	139.54		1994.58	2134.12		2134.12					22.16	22.16					
		Farmland (FL) = 1.1+1.2+1.3	6399.09		2034.51	8433.60		8433.60		0.03			295.01	295.04	0.34		3.04	3.38	
		1.4: Fallow					1.66	1.66											
		Sub Total	6399.09		2034.51	8433.60	1.66	8435.26		0.03			295.01	295.04	0.34		3.04	3.38	
	2:Barren/unculturable/ Wastelands	2.1: Barren Rocky							5925.14					28.29	5953.43	0.69			0.69
		2.2:Gullied / Ravinous Land							0.09	129.03				8.58	137.69				
		2.3: Rann																	
		2.4: Salt Affected Land										2.41		2.41					
		2.5: Sandy Area	0.61			0.61		0.61					21.73	2.39	24.12				
		2.6: Scrub Land	103.08		1.35	104.43		104.43		0.24				3404.24	3404.48	0.78			0.78
		Sub Total	103.69		1.35	105.04		105.04	5925.23	129.26		2.41	21.73	3443.49	9522.13	1.47			1.47
	3: Builtup	3.1: Mining														11.42			11.42
		3.2: Rural															304.99	92.21	397.20
		3.3: Urban																203.73	203.73
		Sub Total														11.42	304.99	295.94	612.36
	4: Forest	4.1: Deciduous	0.04			0.04		0.04						25.12	25.12	0.13		0.10	0.23
		4.2: Evergreen/Semi evergreen																	
		4.3: Forest Plantation																	
		4.4: Scrub Forest							4.37					3.44	7.81				
		4.5: Swamp / Mangroves																	
		Sub Total	0.04			0.04		0.04	4.37					28.56	32.93	0.13		0.10	0.23
	5: Grass / Grazing	5.1: Grass / Grazing			7.03	7.03		7.03	3.71					131.16	134.87	0.33			0.33
	6:Snow and Glacier	6.1: Snow and Glacier							3618.67						3618.67				
	7: Wet lands / Water bodies	7.1: Inland Wetland														0.88			0.88
7.2: Coastal Wetland																			
7.3: River/Stream/Canals		0.55			0.55		0.55					0.70	1.25	1.95	0.31			0.31	
7.4: Water bodies																			
Sub Total		0.55			0.55		0.55					0.70	1.25	1.95	1.19			1.19	
Grand Total		6503.38		2042.88	8546.26	1.66	8547.92	9551.97	129.30		2.41	22.43	3899.48	13605.59	14.88	304.99	299.09	618.96	

Note: Totals may not match due to rounding off.

## Land Use Land Cover (LULC) Change Matrix

(Area in Sq. Km)

LULC_CLASSES			HIMACHAL PRADESH													
			2011-12													
			4: Forest						5: Grass / Grazing	6:Snow and Glacier	7: Wet lands / Water bodies					Grand Total
			4.1	4.2	4.3	4.4	4.5	Sub Total	5.1	6.1	7.1	7.2	7.3	7.4	Sub Total	
2005-06	1: Agriculture	1.1: Crop land	28.71					28.71					1.51	2.10	3.61	6608.07
		1.2: Current Shifting cultivation														
		1.3: Plantation														2156.28
		Farmland (FL) = 1.1+1.2+1.3	28.71					28.71					1.51	2.10	3.61	8764.35
		1.4: Fallow														1.66
		Sub Total	28.71					28.71					1.51	2.10	3.61	8766.01
	2:Barren/unculturable/ Wastelands	2.1: Barren Rocky								635.11			0.40	0.59	0.98	6590.22
		2.2:Gullied / Ravinous Land	5.59			0.72		6.31					0.13		0.13	144.14
		2.3: Rann														
		2.4: Salt Affected Land														2.41
		2.5: Sandy Area											0.38		0.38	25.11
		2.6: Scrub Land	7.46					7.46	106.92	3.68			4.35	0.57	4.91	3632.66
		Sub Total	13.06			0.72		13.78	106.92	638.79			5.26	1.15	6.41	10394.54
	3: Builtup	3.1: Mining														11.42
		3.2: Rural														397.20
		3.3: Urban														203.73
		Sub Total														612.36
	4: Forest	4.1: Deciduous	2278.12			3.44		2281.56	9.46				0.14		0.14	2316.55
		4.2: Evergreen/Semi evergreen		11022.81		19.09		11041.90	86.95	6.69						11135.54
		4.3: Forest Plantation			5.73			5.73								5.73
		4.4: Scrub Forest	7.71	16.02		1163.99		1187.73	12.99	1.88						1210.40
		4.5: Swamp / Mangroves					0.32	0.32								0.32
		Sub Total	2285.83	11038.83	5.73	1186.52	0.32	14517.24	109.40	8.56			0.14		0.14	14668.54
	5: Grass / Grazing	5.1: Grass / Grazing	4.77	16.48		2.24		23.49	8334.61	532.00			2.73	0.09	2.82	9035.16
	6:Snow and Glacier	6.1: Snow and Glacier				4.58		4.58		7136.86						10760.11
	7: Wet lands / Water bodies	7.1: Inland Wetland									3.46		3.06	0.26	6.78	7.66
		7.2: Coastal Wetland														
		7.3: River/Stream/Canals											999.78	0.10	999.88	1002.69
7.4: Water bodies													425.94	425.94	425.94	
	Sub Total									3.46		1002.84	426.30	1432.60	1436.29	
Grand Total		2332.37	11055.31	5.73	1194.06	0.32	14587.80	8550.94	8316.22	3.46		1012.47	429.65	1445.58	55673.00	

Note: Totals may not match due to rounding off.

## Land Use Land Cover (LULC) Change Matrix

(Area in Sq. Km)

LULC_CLASSES			JAMMU & KASHMIR																
			2011-12																
			1: Agriculture					Sub Total	2:Barren/unculturable/ Wastelands						Sub Total	3: Builtup			Sub Total
									1.1	1.2	1.3	FL	1.4	2.1		2.2	2.3	2.4	
2005-06	1: Agriculture	1.1: Crop land	10912.37		3.43	10915.79	0.10	10915.89		0.09				0.00	0.09	0.58	1.84	6.93	9.36
		1.2: Current Shifting cultivation																	
		1.3: Plantation			2072.11	2072.11		2072.11					0.09	0.09			0.35	1.08	1.42
		Farmland (FL) = 1.1+1.2+1.3	10912.37		2075.54	12987.90	0.10	12988.00		0.09			0.09	0.00	0.19	0.58	2.19	8.01	10.78
		1.4: Fallow	2.53		2.44	4.97	153.17	158.14									0.10	0.48	0.58
		Sub Total	10914.90		2077.98	12992.87	153.27	13146.14		0.09			0.09	0.00	0.19	0.58	2.28	8.49	11.36
	2:Barren/unculturable/ Wastelands	2.1: Barren Rocky							93221.71					228.01	93449.72			1.99	1.99
		2.2:Gullied / Ravinous Land								608.47					608.47				
		2.3: Rann																	
		2.4: Salt Affected Land										73.31		73.31					
		2.5: Sandy Area	1.68		0.87	2.55		2.55					1947.98	1947.98			0.29	0.97	1.26
		2.6: Scrub Land			0.21	0.21		0.21		0.68				7140.29	7140.98			2.73	2.73
		Sub Total	1.68		1.08	2.76		2.76	93221.71	609.16		73.31	1947.98	7368.31	103220.46		0.29	5.69	5.98
	3: Builtup	3.1: Mining														8.32			8.32
		3.2: Rural															370.22	0.10	370.33
		3.3: Urban																396.98	396.98
		Sub Total														8.32	370.22	397.08	775.62
	4: Forest	4.1: Deciduous																	
		4.2: Evergreen/Semi evergreen																	
		4.3: Forest Plantation																	
		4.4: Scrub Forest							79.21	0.16				165.86	245.22			0.01	0.01
		4.5: Swamp / Mangroves																	
		Sub Total							79.21	0.16				165.86	245.22			0.01	0.01
	5: Grass / Grazing	5.1: Grass / Grazing															0.16		0.16
	6:Snow and Glacier	6.1: Snow and Glacier							10855.88				14.49	395.56	11265.93				
	7: Wet lands / Water bodies	7.1: Inland Wetland															0.03	0.88	0.91
		7.2: Coastal Wetland																	
7.3: River/Stream/Canals												5.47	1.79	7.26		0.23		0.23	
7.4: Water bodies																			
	Sub Total											5.47	1.79	7.26		0.26	0.88	1.14	
Grand Total		10916.58		2079.06	12995.64	153.27	13148.90	104156.80	609.41		73.31	1968.03	7931.52	114739.06	8.90	373.22	412.15	794.27	

Note: Totals may not match due to rounding off.

## Land Use Land Cover (LULC) Change Matrix

(Area in Sq. Km)

LULC_CLASSES			JAMMU & KASHMIR													
			2011-12													
			4: Forest						5: Grass / Grazing	6: Snow and Glacier	7: Wet lands / Water bodies					Grand Total
			4.1	4.2	4.3	4.4	4.5	Sub Total	5.1	6.1	7.1	7.2	7.3	7.4	Sub Total	
2005-06	1: Agriculture	1.1: Crop land							0.56	1.82		0.80	1.46	4.08	10929.98	
		1.2: Current Shifting cultivation														
		1.3: Plantation										0.11		0.11	2073.73	
		Farmland (FL) = 1.1+1.2+1.3							0.56	1.82		0.91	1.46	4.19	13003.71	
		1.4: Fallow													158.72	
		Sub Total							0.56	1.82		0.91	1.46	4.19	13162.43	
	2: Barren/unculturable/ Wastelands	2.1: Barren Rocky							931.50			0.55	1.04	1.59	94384.80	
		2.2: Gullied / Ravinous Land													608.47	
		2.3: Rann														
		2.4: Salt Affected Land													73.31	
		2.5: Sandy Area									0.68		0.68	1952.46		
		2.6: Scrub Land							67.79				0.95	0.95	7212.67	
		Sub Total							999.29			1.23	1.99	3.22	104231.71	
	3: Builtup	3.1: Mining													8.32	
		3.2: Rural													370.33	
		3.3: Urban													396.98	
		Sub Total													775.62	
	4: Forest	4.1: Deciduous	1936.67	720.12		0.48	2657.27								2657.27	
		4.2: Evergreen/Semi evergreen		14167.76		0.26	14168.02					1.61		1.61	14169.62	
		4.3: Forest Plantation			15.61	0.70	16.31								16.31	
		4.4: Scrub Forest				22485.80	22485.80		141.94			0.55		0.55	22873.52	
		4.5: Swamp / Mangroves														
		Sub Total	1936.67	14887.88	15.61	22487.23	39327.39		141.94			2.15		2.15	39716.72	
	5: Grass / Grazing	5.1: Grass / Grazing						4531.33	0.32						4531.80	
	6: Snow and Glacier	6.1: Snow and Glacier		276.89		3823.95	4100.84	378.76	40014.55			2.17	3.33	5.50	55765.58	
	7: Wet lands / Water bodies	7.1: Inland Wetland								707.90				707.90	708.81	
		7.2: Coastal Wetland														
7.3: River/Stream/Canals					0.48	0.48		2.62			2070.67	16.88	2087.56	2098.16		
7.4: Water bodies								0.80	0.32			1244.05	1244.37	1245.17		
	Sub Total				0.48	0.48		3.42	708.22		2070.67	1260.93	4039.83	4052.13		
	Grand Total	1936.67	15164.77	15.61	26311.66	43428.72	4910.09	41160.07	710.04		2077.14	1267.71	4054.89	222236.00		

Note: Totals may not match due to rounding off.

## Land Use Land Cover (LULC) Change Matrix

(Area in Sq. Km)

LULC_CLASSES			JHARKHAND																
			2011-12																
			1: Agriculture						2:Barren/unculturable/ Wastelands							3: Builtup			
									1.1	1.2	1.3	FL	1.4	Sub Total		2.1	2.2	2.3	
2005-06	1: Agriculture	1.1: Crop land	32640.59		8.20	32648.79	23.59	32672.38		0.02				0.05	0.08	21.57		20.19	41.75
		1.2: Current Shifting cultivation																	
		1.3: Plantation			23.86	23.86		23.86											
		Farmland (FL) = 1.1+1.2+1.3	32640.59		32.06	32672.65	23.59	32696.24		0.02				0.05	0.08	21.57		20.19	41.75
		1.4: Fallow	404.53		9.62	414.15	4497.24	4911.39						0.00	0.00	7.68	0.00	3.01	10.69
		Sub Total	33045.12		41.68	33086.80	4520.83	37607.63		0.02				0.05	0.08	29.25	0.00	23.20	52.45
	2:Barren/unculturable/ Wastelands	2.1: Barren Rocky							461.38							461.38	3.69	0.11	3.80
		2.2:Gullied / Ravinous Land	0.00			0.00		0.00		79.43						79.43			
		2.3: Rann																	
		2.4: Salt Affected Land																	
		2.5: Sandy Area																	
		2.6: Scrub Land	1.57		5.78	7.34	0.00	7.34						6004.93	6004.93	16.42		6.79	23.21
		Sub Total	1.57		5.78	7.34	0.00	7.34	461.38	79.43				6004.93	6545.73	20.11		6.90	27.01
	3: Builtup	3.1: Mining												1.54	1.54	482.55		0.08	482.63
		3.2: Rural															2953.53	3.48	2957.01
		3.3: Urban																962.61	962.61
			Sub Total											1.54	1.54	482.55	2953.53	966.17	4402.25
	4: Forest	4.1: Deciduous	0.00			0.00		0.00						0.00	0.00	20.32		1.79	22.11
		4.2: Evergreen/Semi evergreen																	
		4.3: Forest Plantation																	
		4.4: Scrub Forest														0.86		1.01	1.86
		4.5: Swamp / Mangroves																	
		Sub Total	0.00			0.00		0.00						0.00	0.00	21.17		2.80	23.97
	5: Grass / Grazing	5.1: Grass / Grazing																	
	6:Snow and Glacier	6.1: Snow and Glacier																	
	7: Wet lands / Water bodies	7.1: Inland Wetland																	
		7.2: Coastal Wetland																	
7.3: River/Stream/ Canals		9.38			9.38		9.38						0.10	0.10		0.02		0.02	
7.4: Water bodies		2.72			2.72		2.72								0.07			0.07	
	Sub Total	12.10			12.10		12.10						0.10	0.10	0.07	0.02		0.09	
Grand Total			33058.79		47.45	33106.25	4520.83	37627.08	461.38	79.45				6006.62	6547.45	553.15	2953.55	999.07	4505.77

Note: Totals may not match due to rounding off.

## Land Use Land Cover (LULC) Change Matrix

(Area in Sq. Km)

LULC_CLASSES			JHARKHAND													
			2011-12													
			4: Forest					5: Grass / Grazing	6:Snow and Glacier	7: Wet lands / Water bodies					Grand Total	
			4.1	4.2	4.3	4.4	4.5	Sub Total	5.1	6.1	7.1	7.2	7.3	7.4	Sub Total	
2005-06	1: Agriculture	1.1: Crop land	0.00			1.63		1.63					10.30	26.08	36.38	32752.22
		1.2: Current Shifting cultivation														
		1.3: Plantation														23.86
		Farmland (FL) = 1.1+1.2+1.3	0.00			1.63		1.63				10.30	26.08	36.38	32776.07	
		1.4: Fallow	0.01			0.00		0.01				0.56	8.85	9.41	4931.50	
		Sub Total	0.01			1.63		1.64				10.87	34.93	45.79	37707.58	
	2:Barren/unculturable/ Wastelands	2.1: Barren Rocky														465.18
		2.2:Gullied / Ravinous Land														79.43
		2.3: Rann														
		2.4: Salt Affected Land														
		2.5: Sandy Area														
		2.6: Scrub Land	0.00		0.55			0.55				2.14	8.53	10.66	6046.70	
		Sub Total	0.00		0.55			0.55				2.14	8.53	10.66	6591.31	
	3: Builtup	3.1: Mining	1.23		0.27			1.50								485.66
		3.2: Rural														2957.01
		3.3: Urban														962.61
		Sub Total	1.23		0.27			1.50								4405.29
	4: Forest	4.1: Deciduous	23672.38		1.10	12.60		23686.07				0.31	3.72	4.02	23712.21	
		4.2: Evergreen/Semi evergreen														
		4.3: Forest Plantation			18.66			18.66								18.66
		4.4: Scrub Forest	1.78		6.64	5296.60		5305.02				0.04	3.25	3.29	5310.17	
		4.5: Swamp / Mangroves														
		Sub Total	23674.16		26.40	5309.19		29009.75				0.35	6.96	7.31	29041.03	
	5: Grass / Grazing	5.1: Grass / Grazing														
	6:Snow and Glacier	6.1: Snow and Glacier														
	7: Wet lands / Water bodies	7.1: Inland Wetland									12.98				12.98	12.98
		7.2: Coastal Wetland														
7.3: River/Stream/Canals		0.00					0.00				1289.66	2.73	1292.39	1301.90		
7.4: Water bodies												643.12	643.12	645.91		
Sub Total		0.00					0.00			12.98		1289.66	645.86	1948.50	1960.79	
Grand Total		23675.39		27.23	5310.83		29013.44			12.98		1303.00	696.27	2012.26	79706.00	

Note: Totals may not match due to rounding off.

## Land Use Land Cover (LULC) Change Matrix

(Area in Sq. Km)

LULC_CLASSES			KARNATAKA																
			2011-12																
			1: Agriculture					Sub Total	2:Barren/unculturable/ Wastelands						Sub Total	3: Builtup			Sub Total
									2.1	2.2	2.3	2.4	2.5	2.6		3.1	3.2	3.3	
2005-06	1: Agriculture	1.1: Crop land	111191.60		78.98	111270.58	4.81	111275.40						0.49	0.49		0.33	194.77	195.10
		1.2: Current Shifting cultivation																	
		1.3: Plantation	3.59		19344.89	19348.48	2.32	19350.80						0.00	0.00		0.79	17.44	18.23
		Farmland (FL) = 1.1+1.2+1.3	111195.19		19423.87	130619.06	7.13	130626.19						0.49	0.49		1.12	212.22	213.34
		1.4: Fallow	969.55		75.23	1044.79	3924.76	4969.55				0.10		0.64	0.74	0.00	0.27	18.97	19.25
		Sub Total	112164.75		19499.10	131663.85	3931.90	135595.74				0.10		1.13	1.23	0.00	1.39	231.19	232.58
	2:Barren/unculturable/ Wastelands	2.1: Barren Rocky							1129.90						1129.90	4.57		1.75	6.32
		2.2:Gullied / Ravinous Land								61.85					61.85			0.09	0.09
		2.3: Rann																	
		2.4: Salt Affected Land					0.50	0.50				519.76		0.15	519.91			0.15	0.15
		2.5: Sandy Area											12.98		12.98				
		2.6: Scrub Land			1.52	1.52		1.52		0.15				6865.58	6865.73	5.24		17.06	22.30
		Sub Total			1.52	1.52	0.50	2.02	1129.90	62.00		519.76	12.98	6865.73	8590.38	9.81		19.05	28.86
	3: Builtup	3.1: Mining														552.81		1.50	554.31
		3.2: Rural															2975.49	0.85	2976.35
		3.3: Urban																2332.81	2332.81
		Sub Total														552.81	2975.49	2335.17	5863.47
	4: Forest	4.1: Deciduous														1.92			1.92
		4.2: Evergreen/Semi evergreen																	
		4.3: Forest Plantation																3.02	3.02
		4.4: Scrub Forest														13.61		0.85	14.47
		4.5: Swamp / Mangroves																	
		Sub Total														15.53		3.88	19.41
	5: Grass / Grazing	5.1: Grass / Grazing												0.03	0.03			0.88	0.88
	6:Snow and Glacier	6.1: Snow and Glacier																	
	7: Wet lands / Water bodies	7.1: Inland Wetland																0.52	0.52
		7.2: Coastal Wetland																	
		7.3: River/Stream/Canals	0.01			0.01		0.01											
		7.4: Water bodies												0.20	0.20	0.16		0.19	0.34
		Sub Total	0.01			0.01		0.01						0.20	0.20	0.16		0.71	0.86
	Grand Total		112164.75		19500.62	131665.38	3932.39	135597.77	1129.90	62.00		519.87	12.98	6867.08	8591.83	578.31	2976.89	2590.87	6146.07

Note: Totals may not match due to rounding off.

## Land Use Land Cover (LULC) Change Matrix

(Area in Sq. Km)

LULC_CLASSES			KARNATAKA														
			2011-12														
			4: Forest						5: Grass / Grazing	6:Snow and Glacier	7: Wet lands / Water bodies					Grand Total	
			4.1	4.2	4.3	4.4	4.5	Sub Total	5.1	6.1	7.1	7.2	7.3	7.4	Sub Total		
2005-06	1: Agriculture	1.1: Crop land											2.09	1.35	3.44	111474.43	
		1.2: Current Shifting cultivation															
		1.3: Plantation	0.16					0.16					0.15		0.15	19369.34	
		Farmland (FL) = 1.1+1.2+1.3	0.16					0.16					2.24	1.35	3.59	130843.77	
		1.4: Fallow											0.23	0.04	0.27	4989.81	
		Sub Total	0.16					0.16					2.47	1.39	3.86	135833.58	
	2:Barren/unculturable/ Wastelands	2.1: Barren Rocky															1136.22
		2.2:Gullied / Ravinous Land															61.94
		2.3: Rann															
		2.4: Salt Affected Land															520.56
		2.5: Sandy Area											0.07		0.07	13.05	
		2.6: Scrub Land											0.02		0.02	6889.58	
		Sub Total											0.09		0.09	8621.35	
	3: Builtup	3.1: Mining															554.31
		3.2: Rural															2976.35
		3.3: Urban															2332.81
		Sub Total															5863.47
	4: Forest	4.1: Deciduous	15744.82		1.63			15746.46	0.11				0.48		0.48		15748.96
		4.2: Evergreen/Semi evergreen		9874.97		0.81		9875.78									9875.78
		4.3: Forest Plantation			2993.13			2993.13									2996.15
		4.4: Scrub Forest			6.79	4929.83		4936.63	0.13								4951.22
		4.5: Swamp / Mangroves					8.37	8.37									8.37
		Sub Total	15744.82	9874.97	3001.56	4930.64	8.37	33560.36	0.24				0.48		0.48		33580.49
	5: Grass / Grazing	5.1: Grass / Grazing							666.69								667.59
	6:Snow and Glacier	6.1: Snow and Glacier															
	7: Wet lands / Water bodies	7.1: Inland Wetland									26.62					26.62	27.14
		7.2: Coastal Wetland										43.62				43.62	43.62
		7.3: River/Stream/Canals											1993.41			1993.41	1993.42
		7.4: Water bodies												5159.80		5159.80	5160.34
		Sub Total									26.62	43.62	1993.41	5159.80	7223.45	7224.51	
	Grand Total		15744.98	9874.97	3001.56	4930.64	8.37	33560.52	666.93		26.62	43.62	1996.45	5161.19	7227.88		191791.00

Note: Totals may not match due to rounding off.



## Land Use Land Cover (LULC) Change Matrix

(Area in Sq. Km)

LULC_CLASSES			KERALA																	
			2011-12																	
			1: Agriculture						2:Barren/unculturable/ Wastelands							3: Builtup				
			1.1	1.2	1.3	FL	1.4	Sub Total	2.1	2.2	2.3	2.4	2.5	2.6	Sub Total	3.1	3.2	3.3	Sub Total	
2005-06	1: Agriculture	1.1: Crop land	2559.66		115.01	2674.68	3.65	2678.33								0.66		4.15	4.80	
		1.2: Current Shifting cultivation																		
		1.3: Plantation	69.94		18716.13	18786.07	47.69	18833.76					0.12	88.45	88.57	0.28	0.19	87.09	87.56	
		Farmland (FL) = 1.1+1.2+1.3	2629.61		18831.14	21460.75	51.35	21512.09					0.12	88.45	88.57	0.94	0.19	91.23	92.36	
		1.4: Fallow	4.19		11.26	15.45	47.40	62.85										0.64	0.64	
		Sub Total	2633.80		18842.40	21476.20	98.74	21574.94					0.12	88.45	88.57	0.94	0.19	91.88	93.00	
	2:Barren/unculturable/ Wastelands	2.1: Barren Rocky							257.21						257.21	0.44		1.28	1.71	
		2.2:Gullied / Ravinous Land																		
		2.3: Rann																		
		2.4: Salt Affected Land																		
		2.5: Sandy Area			0.19	0.19		0.19					13.73		13.73			4.69	4.69	
		2.6: Scrub Land			72.53	72.53		72.53						1297.35	1297.35			3.22	3.22	
		Sub Total			72.72	72.72		72.72	257.21				13.73	1297.35	1568.29	0.44		9.19	9.63	
	3: Builtup	3.1: Mining														53.22			53.22	
		3.2: Rural												1.55	1.55	0.57	2413.83	7.16	2421.56	
		3.3: Urban																554.88	554.88	
		Sub Total												1.55	1.55	53.78	2413.83	562.04	3029.65	
	4: Forest	4.1: Deciduous			9.18	9.18		9.18								0.13			0.13	
		4.2: Evergreen/Semi evergreen														0.34			0.34	
		4.3: Forest Plantation															10.22		10.22	
		4.4: Scrub Forest			0.16	0.16		0.16									1.13		1.13	
		4.5: Swamp / Mangroves																		
		Sub Total			9.34	9.34		9.34								0.46	11.36		11.82	
	5: Grass / Grazing	5.1: Grass / Grazing					0.04	0.04												
	6:Snow and Glacier	6.1: Snow and Glacier																		
	7: Wet lands / Water bodies	7.1: Inland Wetland	0.42			0.42		0.42										0.40		0.40
		7.2: Coastal Wetland																0.49	0.49	
7.3: River/Stream/Canals												1.19	0.07	1.26						
7.4: Water bodies																	0.05	0.05		
	Sub Total	0.42			0.42		0.42					1.19	0.07	1.26		0.40	0.54	0.95		
Grand Total			2634.22		18924.47	21558.69	98.78	21657.47	257.21				15.04	1387.42	1659.67	55.62	2425.78	663.65	3145.05	

Note: Totals may not match due to rounding off.

## Land Use Land Cover (LULC) Change Matrix

(Area in Sq. Km)

LULC_CLASSES			KERALA													
			2011-12													
			4: Forest					5: Grass / Grazing	6:Snow and Glacier	7: Wet lands / Water bodies					Grand Total	
			4.1	4.2	4.3	4.4	4.5	Sub Total	5.1	6.1	7.1	7.2	7.3	7.4	Sub Total	
2005-06	1: Agriculture	1.1: Crop land												0.42	0.42	2683.56
		1.2: Current Shifting cultivation														
		1.3: Plantation														19009.88
		Farmland (FL) = 1.1+1.2+1.3											0.42	0.42	21693.44	
		1.4: Fallow								9.50				4.70	14.21	77.70
		Sub Total								9.50			5.13	14.63	21771.14	
	2:Barren/unculturable/ Wastelands	2.1: Barren Rocky														258.93
		2.2:Gullied / Ravinous Land														
		2.3: Rann														
		2.4: Salt Affected Land														
		2.5: Sandy Area										0.44		0.44	19.06	
		2.6: Scrub Land								0.77				0.77	1373.87	
		Sub Total								0.77		0.44		1.21	1651.85	
	3: Builtup	3.1: Mining														53.22
		3.2: Rural														2423.11
		3.3: Urban														554.88
		Sub Total														3031.21
	4: Forest	4.1: Deciduous	1572.67		4.32	9.36		1586.35								1595.65
		4.2: Evergreen/Semi evergreen		6021.11		18.96		6040.07								6040.41
		4.3: Forest Plantation			2117.43			2117.43								2127.65
		4.4: Scrub Forest			0.74	887.28		888.02								889.32
		4.5: Swamp / Mangroves					0.24	0.24								0.24
		Sub Total	1572.67	6021.11	2122.48	915.61	0.24	10632.10								10653.27
	5: Grass / Grazing	5.1: Grass / Grazing							198.35							198.39
	6:Snow and Glacier	6.1: Snow and Glacier														
	7: Wet lands / Water bodies	7.1: Inland Wetland									253.56	0.04			253.60	254.43
		7.2: Coastal Wetland										105.25			105.25	105.73
7.3: River/Stream/Canals								0.11				571.61		571.61	572.98	
7.4: Water bodies										0.45			623.49	623.95	624.00	
	Sub Total							0.11		254.01	105.28	571.61	623.49	1554.40	1557.14	
	Grand Total	1572.67	6021.11	2122.48	915.61	0.24	10632.10	198.46		264.28	105.28	572.05	628.62	1570.24	38863.00	

Note: Totals may not match due to rounding off.

## Land Use Land Cover (LULC) Change Matrix

(Area in Sq. Km)

LULC_CLASSES			MADHYA PRADESH																
			2011-12																
			1: Agriculture						2:Barren/unculturable/ Wastelands							3: Builtup			
1.1	1.2	1.3	FL	1.4	Sub Total	2.1	2.2	2.3	2.4	2.5	2.6	Sub Total	3.1	3.2	3.3	Sub Total			
2005-06	1: Agriculture	1.1: Crop land	182075.95		2.38	182078.34	1.90	182080.24						3.34	3.34		0.43	76.52	76.95
		1.2: Current Shifting cultivation																	
		1.3: Plantation	0.27		49.81	50.08		50.08											
		Farmland (FL) = 1.1+1.2+1.3	182076.22		52.19	182128.42	1.90	182130.32						3.34	3.34		0.43	76.52	76.95
		1.4: Fallow	376.54		1.23	377.78	5790.10	6167.88								21.86	0.58	73.46	95.90
		Sub Total	182452.77		53.42	182506.19	5792.00	188298.19						3.34	3.34	21.86	1.01	149.98	172.85
	2:Barren/unculturable/ Wastelands	2.1: Barren Rocky							418.20						418.20	1.57		0.15	1.72
		2.2:Gullied / Ravinous Land	0.33			0.33		0.33		1462.55				0.12	1462.67				
		2.3: Rann																	
		2.4: Salt Affected Land																	
		2.5: Sandy Area																	
		2.6: Scrub Land	13.33		2.28	15.61	0.45	16.06						23505.08	23505.08	26.83	0.54	29.73	57.10
		Sub Total	13.66		2.28	15.94	0.45	16.39	418.20	1462.55				23505.20	25385.95	28.40	0.54	29.88	58.82
	3: Builtup	3.1: Mining														224.29			224.29
		3.2: Rural															2779.94	3.07	2783.01
		3.3: Urban																1406.49	1406.49
		Sub Total														224.29	2779.94	1409.57	4413.80
	4: Forest	4.1: Deciduous	0.89			0.89		0.89								11.48		0.83	12.31
		4.2: Evergreen/Semi evergreen																	
		4.3: Forest Plantation																	
		4.4: Scrub Forest	21.18			21.18	0.10	21.27								1.06		0.42	1.48
		4.5: Swamp / Mangroves																	
		Sub Total	22.06			22.06	0.10	22.16								12.54		1.25	13.79
	5: Grass / Grazing	5.1: Grass / Grazing	0.28			0.28		0.28											
	6:Snow and Glacier	6.1: Snow and Glacier																	
	7: Wet lands / Water bodies	7.1: Inland Wetland																	
7.2: Coastal Wetland																			
7.3: River/Stream/Canals																			
7.4: Water bodies													0.19	0.19			0.56	0.56	
	Sub Total												0.19	0.19			0.56	0.56	
Grand Total			182488.78		55.70	182544.48	5792.55	188337.02	418.20	1462.55				23508.74	25389.49	287.09	2781.49	1591.25	4659.83

Note: Totals may not match due to rounding off.

## Land Use Land Cover (LULC) Change Matrix

(Area in Sq. Km)

LULC_CLASSES			MADHYA PRADESH													
			2011-12													
			4: Forest						5: Grass / Grazing	6:Snow and Glacier	7: Wet lands / Water bodies					Grand Total
			4.1	4.2	4.3	4.4	4.5	Sub Total	5.1	6.1	7.1	7.2	7.3	7.4	Sub Total	
2005-06	1: Agriculture	1.1: Crop land											5.25	867.12	872.37	183032.89
		1.2: Current Shifting cultivation														
		1.3: Plantation														50.08
		Farmland (FL) = 1.1+1.2+1.3										5.25	867.12	872.37	183082.97	
		1.4: Fallow										4.43	312.19	316.62	6580.39	
		Sub Total										9.68	1179.31	1188.98	189663.37	
	2:Barren/unculturable/ Wastelands	2.1: Barren Rocky										0.10	13.61	13.71	433.63	
		2.2:Gullied / Ravinous Land											0.84	0.84	1463.85	
		2.3: Rann														
		2.4: Salt Affected Land											1.77	1.77	1.77	
		2.5: Sandy Area														
		2.6: Scrub Land										3.24	183.36	186.60	23764.84	
		Sub Total										3.34	199.59	202.93	25664.09	
	3: Builtup	3.1: Mining	3.93					3.93								228.23
		3.2: Rural														2783.01
		3.3: Urban														1406.49
		Sub Total	3.93					3.93								4417.73
	4: Forest	4.1: Deciduous	68981.60		25.77	1.51		69008.87				0.69	106.11	106.80	69128.87	
		4.2: Evergreen/Semi evergreen		0.10				0.10							0.10	
		4.3: Forest Plantation	0.06		34.74			34.80							34.80	
		4.4: Scrub Forest			5.70	12118.90		12124.59				0.77	44.32	45.09	12192.43	
		4.5: Swamp / Mangroves														
		Sub Total	68981.66	0.10	66.21	12120.40		81168.37				1.45	150.44	151.89	81356.21	
	5: Grass / Grazing	5.1: Grass / Grazing							1.60							1.89
	6:Snow and Glacier	6.1: Snow and Glacier														
	7: Wet lands / Water bodies	7.1: Inland Wetland														
		7.2: Coastal Wetland														
7.3: River/Stream/Canals											3433.41	14.25	3447.66	3447.66		
7.4: Water bodies												3700.30	3700.30	3701.06		
	Sub Total										3433.41	3714.54	7147.95	7148.71		
	Grand Total		68985.59	0.10	66.21	12120.40		81172.30	1.60			3447.88	5243.88	8691.75	308252.00	

Note: Totals may not match due to rounding off.

## Land Use Land Cover (LULC) Change Matrix

(Area in Sq. Km)

LULC_CLASSES			MAHARASHTRA																	
			2011-12																	
			1: Agriculture					Sub Total	2:Barren/unculturable/ Wastelands						Sub Total	3: Builtup			Sub Total	
			1.1	1.2	1.3	FL	1.4	Sub Total	2.1	2.2	2.3	2.4	2.5	2.6	Sub Total	3.1	3.2	3.3	Sub Total	
2005-06	1: Agriculture	1.1: Crop land	180049.79		96.92	180146.71	3569.72	183716.43	0.16	1.30				6.90	8.36		107.68	333.74	441.42	
		1.2: Current Shifting cultivation																		
		1.3: Plantation	199.72		5982.58	6182.30	62.04	6244.34										2.43	5.93	8.36
		Farmland (FL) = 1.1+1.2+1.3	180249.51		6079.50	186329.01	3631.76	189960.77	0.16	1.30				6.90	8.36			110.11	339.67	449.78
		1.4: Fallow	7768.84		44.61	7813.45	11050.65	18864.10		0.12				13.56	13.68	6.82	33.40	218.20	258.42	
		Sub Total	188018.35		6124.11	194142.46	14682.41	208824.88	0.16	1.42				20.46	22.04	6.82	143.51	557.87	708.20	
	2:Barren/unculturable/ Wastelands	2.1: Barren Rocky							1092.19						1092.19	4.71	0.80	3.43	8.94	
		2.2:Gullied / Ravinous Land	2.49			2.49		2.49		476.18				19.37	495.55		0.25	0.32	0.57	
		2.3: Rann																		
		2.4: Salt Affected Land	0.04			0.04		0.04				8.10		6.41	14.52			2.36	2.36	
		2.5: Sandy Area											0.86		0.86					
		2.6: Scrub Land	73.98		9.18	83.16	6.45	89.61	1.85	7.27				22123.09	22132.20	37.89	10.45	113.32	161.67	
		Sub Total	76.51		9.18	85.69	6.45	92.14	1094.04	483.44		8.10	0.86	22148.88	23735.32	42.60	11.51	119.43	173.54	
	3: Builtup	3.1: Mining															293.74			293.74
		3.2: Rural																2927.27	53.56	2980.83
		3.3: Urban															0.10		3106.51	3106.62
		Sub Total															293.84	2927.27	3160.07	6381.18
	4: Forest	4.1: Deciduous	7.42		0.08	7.50	0.86	8.36									4.93	0.80	1.68	7.40
		4.2: Evergreen/Semi evergreen															0.47	0.06		0.53
		4.3: Forest Plantation																		
		4.4: Scrub Forest															0.66	0.91	6.58	8.15
		4.5: Swamp / Mangroves																		
		Sub Total	7.42		0.08	7.50	0.86	8.36									6.05	1.76	8.26	16.08
	5: Grass / Grazing	5.1: Grass / Grazing																		
	6:Snow and Glacier	6.1: Snow and Glacier																		
	7: Wet lands / Water bodies	7.1: Inland Wetland	0.63			0.63		0.63												
		7.2: Coastal Wetland	1.03			1.03		1.03					0.09		0.09			0.24	3.40	3.64
7.3: River/Stream/Canals																				
7.4: Water bodies																				
	Sub Total	1.65			1.65		1.65					0.09		0.09			0.24	3.40	3.64	
Grand Total		188103.93		6133.37	194237.30	14689.73	208927.03	1094.20	484.86		8.10	0.95	22169.34	23757.45	349.31	3084.29	3849.04	7282.64		

Note: Totals may not match due to rounding off.

## Land Use Land Cover (LULC) Change Matrix

(Area in Sq. Km)

LULC_CLASSES			MAHARASHTRA													
			2011-12													
			4: Forest					5: Grass / Grazing	6:Snow and Glacier	7: Wet lands / Water bodies					Grand Total	
			4.1	4.2	4.3	4.4	4.5	Sub Total	5.1	6.1	7.1	7.2	7.3	7.4	Sub Total	
2005-06	1: Agriculture	1.1: Crop land	0.26				0.26			0.57	0.65	25.50	552.87	579.59	184746.07	
		1.2: Current Shifting cultivation														
		1.3: Plantation										0.01	6.73	6.74	6259.43	
		Farmland (FL) = 1.1+1.2+1.3	0.26				0.26			0.57	0.65	25.50	559.60	586.33	191005.51	
		1.4: Fallow									0.02	5.00	92.20	97.23	19233.42	
		Sub Total	0.26				0.26			0.57	0.67	30.51	651.81	683.56	210238.93	
	2:Barren/unculturable/ Wastelands	2.1: Barren Rocky												2.31	2.31	1103.44
		2.2:Gullied / Ravinous Land											0.80	1.41	2.21	500.83
		2.3: Rann														
		2.4: Salt Affected Land														16.91
		2.5: Sandy Area														0.86
		2.6: Scrub Land									0.01	2.11	36.98	39.10	22422.58	
		Sub Total									0.01	2.91	40.70	43.62	24044.62	
	3: Builtup	3.1: Mining														293.74
		3.2: Rural												1.33	1.33	2982.16
		3.3: Urban														3106.62
		Sub Total												1.33	1.33	6382.52
	4: Forest	4.1: Deciduous	39948.34		88.67	316.69		40353.70					3.78	22.91	26.69	40396.15
		4.2: Evergreen/Semi evergreen		7163.96				7163.96						1.20	1.20	7165.69
		4.3: Forest Plantation	0.21		262.97			263.18								263.18
		4.4: Scrub Forest	45.21		3.29	8697.49		8745.99					0.49	26.09	26.58	8780.72
		4.5: Swamp / Mangroves					310.95	310.95					0.00		0.00	310.95
		Sub Total	39993.76	7163.96	354.94	9014.18	310.95	56837.79					4.28	50.19	54.47	56916.69
	5: Grass / Grazing	5.1: Grass / Grazing							2.10						0.01	2.11
	6:Snow and Glacier	6.1: Snow and Glacier														
	7: Wet lands / Water bodies	7.1: Inland Wetland									1.81				1.81	2.44
		7.2: Coastal Wetland										998.17			998.17	1002.93
		7.3: River/Stream/Canals											3867.38	25.54	3892.92	3892.92
		7.4: Water bodies												5206.13	5206.13	5206.13
		Sub Total									1.81	998.17	3867.38	5231.67	10099.03	10104.42
	Grand Total		39994.02	7163.96	354.94	9014.18	310.95	56838.05	2.10		2.39	998.85	3905.06	5975.72	10882.02	307689.29

Note: Totals may not match due to rounding off.

## Land Use Land Cover (LULC) Change Matrix

(Area in Sq. Km)

LULC_CLASSES		MANIPUR																
		2011-12																
		1: Agriculture					Sub Total	2:Barren/unculturable/ Wastelands						Sub Total	3: Builtup			Sub Total
		1.1	1.2	1.3	FL	1.4		2.1	2.2	2.3	2.4	2.5	2.6		3.1	3.2	3.3	
2005-06	1: Agriculture	1.1: Crop land	1556.65	1.29		1557.94		1557.94								0.93	1.46	2.39
		1.2: Current Shifting cultivation		260.05		260.05		260.05					1.10	1.10		0.12		0.12
		1.3: Plantation			38.90	38.90		38.90										
		Farmland (FL) = 1.1+1.2+1.3	1556.65	261.35	38.90	1856.89		1856.89					1.10	1.10		1.04	1.46	2.51
		1.4: Fallow				9.61		9.61										
		Sub Total	1556.65	261.35	38.90	1856.89	9.61	1866.50					1.10	1.10		1.04	1.46	2.51
	2:Barren/unculturable/ Wastelands	2.1: Barren Rocky																
		2.2:Gullied / Ravinous Land																
		2.3: Rann																
		2.4: Salt Affected Land																
		2.5: Sandy Area																
		2.6: Scrub Land	1.39	17.09	0.85	19.33		19.33					3091.11	3091.11		1.55		1.55
		Sub Total	1.39	17.09	0.85	19.33		19.33					3091.11	3091.11		1.55		1.55
	3: Builtup	3.1: Mining																
		3.2: Rural														297.34		297.34
		3.3: Urban															93.77	93.77
		Sub Total														297.34	93.77	391.11
	4: Forest	4.1: Deciduous	0.52	148.17		148.69		148.69					1.32	1.32		2.91		2.91
		4.2: Evergreen/Semi evergreen	0.08	18.54		18.62		18.62								0.21		0.21
		4.3: Forest Plantation																
		4.4: Scrub Forest	0.08	8.39		8.47		8.47								2.19		2.19
		4.5: Swamp / Mangroves																
		Sub Total	0.67	175.10		175.77		175.77					1.32	1.32		5.31		5.31
	5: Grass / Grazing	5.1: Grass / Grazing																
	6:Snow and Glacier	6.1: Snow and Glacier																
	7: Wet lands / Water bodies	7.1: Inland Wetland																
		7.2: Coastal Wetland																
		7.3: River/Stream/Canals	0.12			0.12		0.12										
		7.4: Water bodies																
		Sub Total	0.12			0.12		0.12										
	Grand Total		1558.83	453.54	39.75	2052.12	9.61	2061.73					3093.52	3093.52		305.24	95.24	400.48

Note: Totals may not match due to rounding off.

## Land Use Land Cover (LULC) Change Matrix

(Area in Sq. Km)

LULC_CLASSES			MANIPUR													
			2011-12													
			4: Forest					5: Grass / Grazing	6:Snow and Glacier	7: Wet lands / Water bodies					Grand Total	
			4.1	4.2	4.3	4.4	4.5	Sub Total	5.1	6.1	7.1	7.2	7.3	7.4	Sub Total	
2005-06	1: Agriculture	1.1: Crop land		4.84		9.40		14.24					4.23		4.23	1578.80
		1.2: Current Shifting cultivation		1.80		227.56		229.36								490.63
		1.3: Plantation														38.90
		Farmland (FL) = 1.1+1.2+1.3		6.64		236.97		243.60					4.23		4.23	2108.33
		1.4: Fallow														9.61
		Sub Total		6.64		236.97		243.60					4.23		4.23	2117.93
	2:Barren/unculturable/ Wastelands	2.1: Barren Rocky														
		2.2:Gullied / Ravinous Land														
		2.3: Rann														
		2.4: Salt Affected Land														
		2.5: Sandy Area														
		2.6: Scrub Land		45.50		18.25		63.75				1.87		1.87	3177.61	
		Sub Total		45.50		18.25		63.75				1.87		1.87	3177.61	
	3: Builtup	3.1: Mining														
		3.2: Rural											0.12		0.12	297.46
		3.3: Urban														93.77
		Sub Total											0.12		0.12	391.23
	4: Forest	4.1: Deciduous		11531.37		2.20		11533.57								11686.48
		4.2: Evergreen/Semi evergreen	2766.36			0.29		2766.65					0.27		0.27	2785.75
		4.3: Forest Plantation			1.85			1.85								1.85
		4.4: Scrub Forest	0.30	0.09		1586.24		1586.63					0.08		0.08	1597.37
		4.5: Swamp / Mangroves														
		Sub Total	2766.66	11531.46	1.85	1588.73		15888.70					0.35		0.35	16071.45
	5: Grass / Grazing	5.1: Grass / Grazing							2.72							2.72
	6:Snow and Glacier	6.1: Snow and Glacier														
	7: Wet lands / Water bodies	7.1: Inland Wetland									312.39				312.39	312.39
7.2: Coastal Wetland																
7.3: River/Stream/Canals												133.81		133.81	133.93	
7.4: Water bodies													119.73	119.73	119.73	
Sub Total										312.39		133.81	119.73	565.93	566.06	
Grand Total		2766.66	11583.59	1.85	1843.94		16196.05	2.72		312.39		140.38	119.73	572.50	22327.00	

Note: Totals may not match due to rounding off.



## Land Use Land Cover (LULC) Change Matrix

(Area in Sq. Km)

LULC_CLASSES		MEGHALAYA																
		2011-12																
		1: Agriculture						2:Barren/unculturable/ Wastelands						3: Builtup				
		1.1	1.2	1.3	FL	1.4	Sub Total	2.1	2.2	2.3	2.4	2.5	2.6	Sub Total	3.1	3.2	3.3	Sub Total
2005-06	1: Agriculture	1.1: Crop land	1261.65				1261.65						0.29	0.29			0.14	0.14
		1.2: Current Shifting cultivation		59.08			59.08						44.86	44.86		0.53		0.53
		1.3: Plantation	2.82		562.90		565.72											
		Farmland (FL) = 1.1+1.2+1.3	1264.48	59.08	562.90		1886.46						45.15	45.15		0.53	0.14	0.67
		1.4: Fallow				0.40	0.40											
		Sub Total	1264.48	59.08	562.90	1886.46	0.40	1886.86					45.15	45.15		0.53	0.14	0.67
	2:Barren/unculturable/ Wastelands	2.1: Barren Rocky						262.84						262.84				
		2.2:Gullied / Ravinous Land																
		2.3: Rann																
		2.4: Salt Affected Land																
		2.5: Sandy Area										4.39		4.39				
		2.6: Scrub Land		0.04	0.04	0.08	0.08						2602.20	2602.20		20.77	1.38	22.14
		Sub Total		0.04	0.04	0.08	0.08	262.84				4.39	2602.20	2869.43		20.77	1.38	22.14
	3: Builtup	3.1: Mining													1.35			1.35
		3.2: Rural														727.55		727.55
		3.3: Urban															83.77	83.77
		Sub Total													1.35	727.55	83.77	812.66
	4: Forest	4.1: Deciduous	20.72	155.70	1.03	177.45		177.45					80.25	80.25	0.43	24.29	2.91	27.62
		4.2: Evergreen/Semi evergreen		1.71		1.71	1.08	2.79										
		4.3: Forest Plantation																
		4.4: Scrub Forest		16.51	0.25	16.75		16.75					109.10	109.10		0.19		0.19
		4.5: Swamp / Mangroves																
		Sub Total	20.72	173.92	1.28	195.92	1.08	197.00					189.35	189.35	0.43	24.47	2.91	27.81
	5: Grass / Grazing	5.1: Grass / Grazing																
	6:Snow and Glacier	6.1: Snow and Glacier																
	7: Wet lands / Water bodies	7.1: Inland Wetland	5.70			5.70		5.70										
		7.2: Coastal Wetland																
		7.3: River/Stream/Canals	0.13			0.13		0.13										
		7.4: Water bodies	0.32			0.32		0.32										
		Sub Total	6.15			6.15		6.15										
	Grand Total		1291.35	233.04	564.21	2088.60	1.49	2090.09	262.84			4.39	2836.70	3103.93	1.77	773.32	88.19	863.28

Note: Totals may not match due to rounding off.

## Land Use Land Cover (LULC) Change Matrix

(Area in Sq. Km)

LULC_CLASSES			MEGHALAYA														
			2011-12														
			4: Forest					5: Grass / Grazing	6: Snow and Glacier	7: Wet lands / Water bodies					Grand Total		
			4.1	4.2	4.3	4.4	4.5	Sub Total	5.1	6.1	7.1	7.2	7.3	7.4	Sub Total		
2005-06	1: Agriculture	1.1: Crop land	0.27				0.27						0.04	0.22	0.26	1262.61	
		1.2: Current Shifting cultivation	73.99			144.03	218.02									322.49	
		1.3: Plantation															565.72
		Farmland (FL) = 1.1+1.2+1.3	74.26			144.03	218.28						0.04	0.22	0.26	2150.82	
		1.4: Fallow															0.40
		Sub Total	74.26			144.03	218.28						0.04	0.22	0.26	2151.22	
	2: Barren/unculturable/ Wastelands	2.1: Barren Rocky															262.84
		2.2: Gullied / Ravinous Land															
		2.3: Rann															
		2.4: Salt Affected Land															
		2.5: Sandy Area															4.39
		2.6: Scrub Land	210.23					210.23							0.04	0.04	2834.70
		Sub Total	210.23					210.23							0.04	0.04	3101.92
	3: Builtup	3.1: Mining															1.35
		3.2: Rural															727.55
		3.3: Urban															83.77
		Sub Total															812.66
	4: Forest	4.1: Deciduous	14345.56			1.93		14347.49									14632.81
		4.2: Evergreen/Semi evergreen		753.72		0.18		753.90									756.69
		4.3: Forest Plantation			13.59			13.59									13.59
		4.4: Scrub Forest	11.46			466.78		478.24									604.28
		4.5: Swamp / Mangroves					0.58	0.58									0.58
		Sub Total	14357.02	753.72	13.59	468.88	0.58	15593.79									16007.95
	5: Grass / Grazing	5.1: Grass / Grazing							0.03								0.03
	6: Snow and Glacier	6.1: Snow and Glacier															
	7: Wet lands / Water bodies	7.1: Inland Wetland									55.80					55.80	61.50
		7.2: Coastal Wetland															
7.3: River/Stream/Canals												275.05			275.05	275.18	
7.4: Water bodies														18.21	18.21	18.53	
	Sub Total									55.80		275.05	18.21	349.06	355.21		
Grand Total		14641.51	753.72	13.59	612.91	0.58	16022.30	0.03		55.80		275.10	18.47	349.37	22429.00		

Note: Totals may not match due to rounding off.

## Land Use Land Cover (LULC) Change Matrix

(Area in Sq. Km)

LULC_CLASSES			MIZORAM																
			2011-12																
			1: Agriculture						2:Barren/unculturable/ Wastelands							3: Builtup			
			1.1	1.2	1.3	FL	1.4	Sub Total	2.1	2.2	2.3	2.4	2.5	2.6	Sub Total	3.1	3.2	3.3	Sub Total
2005-06	1: Agriculture	1.1: Crop land	158.14		0.70	158.83		158.83						4.30	4.30				
		1.2: Current Shifting cultivation	0.15	97.17		97.32	97.32						0.82	0.82					
		1.3: Plantation			78.79	78.79	78.79												
		Farmland (FL) = 1.1+1.2+1.3	158.29	97.17	79.49	334.95	334.95						5.12	5.12					
		1.4: Fallow																	
		Sub Total	158.29	97.17	79.49	334.95	334.95						5.12	5.12					
	2:Barren/unculturable/ Wastelands	2.1: Barren Rocky						0.20						0.20					
		2.2:Gullied / Ravinous Land																	
		2.3: Rann																	
		2.4: Salt Affected Land																	
		2.5: Sandy Area																	
		2.6: Scrub Land											107.23	107.23			0.37	0.37	
		Sub Total						0.20					107.23	107.43			0.37	0.37	
	3: Builtup	3.1: Mining																	
		3.2: Rural														118.72		118.72	
		3.3: Urban															63.68	63.68	
		Sub Total														118.72	63.68	182.40	
	4: Forest	4.1: Deciduous	12.48	299.55	2.38	314.40	314.40	3.87						3.87	1.38	0.85	2.23		
		4.2: Evergreen/Semi evergreen	1.92	103.95	0.07	105.95	105.95								1.63		1.63		
		4.3: Forest Plantation																	
		4.4: Scrub Forest	1.22	289.85	1.92	292.98	292.98	1.01					27.46	28.47	2.17	0.47	2.64		
		4.5: Swamp / Mangroves																	
		Sub Total	15.62	693.35	4.37	713.33	713.33	4.88					27.46	32.33	5.19	1.31	6.50		
	5: Grass / Grazing	5.1: Grass / Grazing																	
6:Snow and Glacier	6.1: Snow and Glacier																		
7: Wet lands / Water bodies	7.1: Inland Wetland																		
	7.2: Coastal Wetland																		
	7.3: River/Stream/Canals																		
	7.4: Water bodies																		
	Sub Total																		
Grand Total		173.91	790.52	83.86	1048.28	1048.28	5.07					139.81	144.89	123.91	65.37	189.28			

Note: Totals may not match due to rounding off.

## Land Use Land Cover (LULC) Change Matrix

(Area in Sq. Km)

LULC_CLASSES			MIZORAM													
			2011-12													
			4: Forest					5: Grass / Grazing	6:Snow and Glacier	7: Wet lands / Water bodies					Grand Total	
			4.1	4.2	4.3	4.4	4.5	Sub Total	5.1	6.1	7.1	7.2	7.3	7.4	Sub Total	
2005-06	1: Agriculture	1.1: Crop land		0.19			0.19							1.91	1.91	165.23
		1.2: Current Shifting cultivation	293.99		0.71	526.73	821.43									919.57
		1.3: Plantation											0.03	0.03		78.82
		Farmland (FL) = 1.1+1.2+1.3	293.99	0.19	0.71	526.73	821.62						1.93	1.93		1163.63
		1.4: Fallow														
		Sub Total	293.99	0.19	0.71	526.73	821.62						1.93	1.93		1163.63
	2:Barren/unculturable/ Wastelands	2.1: Barren Rocky														0.20
		2.2:Gullied / Ravinous Land														
		2.3: Rann														
		2.4: Salt Affected Land														
		2.5: Sandy Area														
		2.6: Scrub Land	12.19				12.19						0.04	0.04		119.83
		Sub Total	12.19				12.19						0.04	0.04		120.03
	3: Builtup	3.1: Mining														
		3.2: Rural												0.03	0.03	118.75
		3.3: Urban														63.68
		Sub Total											0.03	0.03		182.43
	4: Forest	4.1: Deciduous	6574.72			570.44	7145.16					0.35	9.48	9.83		7475.49
		4.2: Evergreen/Semi evergreen	8.98	6934.22	4.11	91.37	7038.67						2.51	2.51		7148.77
		4.3: Forest Plantation			100.86		100.86									100.86
		4.4: Scrub Forest	334.18	74.20	0.07	3902.74	4311.18						9.03	9.03		4644.29
		4.5: Swamp / Mangroves														
		Sub Total	6917.87	7008.42	105.03	4564.55	18595.87					0.35	21.02	21.37		19369.40
	5: Grass / Grazing	5.1: Grass / Grazing	0.06			0.22	0.28	112.44								112.72
	6:Snow and Glacier	6.1: Snow and Glacier														
7: Wet lands / Water bodies	7.1: Inland Wetland									0.04				0.04	0.04	
	7.2: Coastal Wetland															
	7.3: River/Stream/Canals										130.20		130.20		130.20	
	7.4: Water bodies											2.54	2.54		2.54	
	Sub Total									0.04		130.20	2.54	132.79	132.79	
Grand Total		7224.11	7008.61	105.74	5091.50	19429.97	112.44			0.04		130.55	25.56	156.15	21081.00	

Note: Totals may not match due to rounding off.

## Land Use Land Cover (LULC) Change Matrix

(Area in Sq. Km)

LULC_CLASSES		NAGALAND																
		2011-12																
		1: Agriculture						2:Barren/unculturable/ Wastelands							3: Builtup			
		1.1	1.2	1.3	FL	1.4	Sub Total	2.1	2.2	2.3	2.4	2.5	2.6	Sub Total	3.1	3.2	3.3	Sub Total
2005-06	1: Agriculture	1.1: Crop land	565.81			565.81	15.10	580.91								0.40	0.04	0.43
		1.2: Current Shifting cultivation	0.46	214.32		214.77		214.77					173.60	173.60		1.68	0.03	1.71
		1.3: Plantation			8.98	8.98		8.98										
		Farmland (FL) = 1.1+1.2+1.3	566.27	214.32	8.98	789.57	15.10	804.67					173.60	173.60		2.07	0.07	2.14
		1.4: Fallow	8.36			8.36	5.63	13.99										
		Sub Total	574.63	214.32	8.98	797.93	20.73	818.66					173.60	173.60		2.07	0.07	2.14
	2:Barren/unculturable/ Wastelands	2.1: Barren Rocky						0.86						0.86				
		2.2:Gullied / Ravinous Land																
		2.3: Rann																
		2.4: Salt Affected Land																
		2.5: Sandy Area																
		2.6: Scrub Land	4.06	159.39	0.32	163.77		163.77					1921.18	1921.18		1.98	0.64	2.63
		Sub Total	4.06	159.39	0.32	163.77		163.77	0.86				1921.18	1922.05		1.98	0.64	2.63
	3: Builtup	3.1: Mining													8.99			8.99
		3.2: Rural														240.68		240.68
		3.3: Urban															88.46	88.46
		Sub Total													8.99	240.68	88.46	338.14
	4: Forest	4.1: Deciduous	2.99	543.41	0.12	546.52		546.52					0.73	0.73		6.73	0.36	7.09
		4.2: Evergreen/Semi evergreen		1.12		1.12		1.12								0.03		0.03
		4.3: Forest Plantation		0.22		0.22		0.22								0.17		0.17
		4.4: Scrub Forest		247.20		247.20		247.20					257.59	257.59		0.31		0.31
		4.5: Swamp / Mangroves																
		Sub Total	2.99	791.95	0.12	795.07		795.07					258.31	258.31		7.24	0.36	7.60
	5: Grass / Grazing	5.1: Grass / Grazing																
	6:Snow and Glacier	6.1: Snow and Glacier																
	7: Wet lands / Water bodies	7.1: Inland Wetland																
		7.2: Coastal Wetland																
		7.3: River/Stream/Canals											0.08	0.08				
		7.4: Water bodies																
		Sub Total											0.08	0.08				
	Grand Total		581.68	1165.67	9.42	1756.77	20.73	1777.50	0.86				2353.17	2354.03	8.99	251.98	89.53	350.50

Note: Totals may not match due to rounding off.

## Land Use Land Cover (LULC) Change Matrix

(Area in Sq. Km)

LULC_CLASSES			NAGALAND														
			2011-12														
			4: Forest					5: Grass / Grazing	6:Snow and Glacier	7: Wet lands / Water bodies					Grand Total		
			4.1	4.2	4.3	4.4	4.5	Sub Total	5.1	6.1	7.1	7.2	7.3	7.4	Sub Total		
2005-06	1: Agriculture	1.1: Crop land											0.01		0.01	581.35	
		1.2: Current Shifting cultivation	46.41			698.66		745.07								1135.15	
		1.3: Plantation															8.98
		Farmland (FL) = 1.1+1.2+1.3	46.41			698.66		745.07					0.01		0.01		1725.48
		1.4: Fallow	0.06					0.06									14.05
		Sub Total	46.47			698.66		745.13					0.01		0.01		1739.53
	2:Barren/unculturable/ Wastelands	2.1: Barren Rocky															0.86
		2.2:Gullied / Ravinous Land															
		2.3: Rann															
		2.4: Salt Affected Land															
		2.5: Sandy Area															
		2.6: Scrub Land	25.16			15.93		41.09						0.23	0.23		2128.90
		Sub Total	25.16			15.93		41.09						0.23	0.23		2129.77
	3: Builtup	3.1: Mining															8.99
		3.2: Rural															240.68
		3.3: Urban															88.46
		Sub Total															338.14
	4: Forest	4.1: Deciduous	9297.41			65.21		9362.62									9916.95
		4.2: Evergreen/Semi evergreen		347.24				347.24									348.39
		4.3: Forest Plantation			126.91	0.30		127.21					0.00		0.00		127.61
		4.4: Scrub Forest	132.86			1121.56		1254.42									1759.51
		4.5: Swamp / Mangroves															
		Sub Total	9430.27	347.24	126.91	1187.07		11091.48					0.00		0.00		12152.46
	5: Grass / Grazing	5.1: Grass / Grazing							17.87								17.87
	6:Snow and Glacier	6.1: Snow and Glacier															
	7: Wet lands / Water bodies	7.1: Inland Wetland															
7.2: Coastal Wetland																	
7.3: River/Stream/Canals												180.27		180.27		180.35	
7.4: Water bodies													20.88	20.88		20.88	
	Sub Total											180.27	20.88	201.16		201.23	
	Grand Total											180.28	21.12	201.40		16579.00	

Note: Totals may not match due to rounding off.

## Land Use Land Cover (LULC) Change Matrix

(Area in Sq. Km)

LULC_CLASSES			ODISHA																
			2011-12																
			1: Agriculture						2:Barren/unculturable/ Wastelands							3: Builtup			
			1.1	1.2	1.3	FL	1.4	Sub Total	2.1	2.2	2.3	2.4	2.5	2.6	Sub Total	3.1	3.2	3.3	Sub Total
2005-06	1: Agriculture	1.1: Crop land	75916.02	2.50	1.57	75920.10	387.68	76307.78					1.33	114.76	116.09	13.84	7.98	136.31	158.12
		1.2: Current Shifting cultivation		483.06		483.06		483.06						2.07	2.07				
		1.3: Plantation	0.68		332.23	332.90		332.90						0.42	0.42			0.51	0.51
		Farmland (FL) = 1.1+1.2+1.3	75916.70	485.56	333.80	76736.06	387.68	77123.74					1.33	117.25	118.58	13.84	7.98	136.82	158.63
		1.4: Fallow	103.76	1.62	2.76	108.15	1894.04	2002.19		1.10				39.04	40.14	8.10	1.18	42.57	51.85
		Sub Total	76020.46	487.18	336.56	76844.21	2281.72	79125.93		1.10			1.33	156.29	158.72	21.94	9.16	179.39	210.48
	2:Barren/unculturable/ Wastelands	2.1: Barren Rocky							482.71						482.71				
		2.2:Gullied / Ravinous Land								716.38					716.38				
		2.3: Rann																	
		2.4: Salt Affected Land	2.03			2.03		2.03				15.33			15.33				
		2.5: Sandy Area											49.32		49.32	0.44		0.19	0.62
		2.6: Scrub Land	6.36	46.08	0.70	53.14		53.14		0.13				10603.55	10603.68	14.38		15.99	30.36
		Sub Total	8.38	46.08	0.70	55.17		55.17	482.71	716.52		15.33	49.32	10603.55	11867.42	14.81		16.17	30.99
	3: Builtup	3.1: Mining														165.17			165.17
		3.2: Rural														1.52	4956.79	12.95	4971.26
		3.3: Urban																852.08	852.08
		Sub Total														166.69	4956.79	865.04	5988.51
	4: Forest	4.1: Deciduous		78.98		78.98		78.98						6.07	6.07	14.74		8.36	23.11
		4.2: Evergreen/Semi evergreen																	
		4.3: Forest Plantation											0.09	0.50	0.59	0.62	0.14	1.39	2.16
		4.4: Scrub Forest		104.17		104.17		104.17					0.08	2.93	3.01	2.99		0.54	3.53
		4.5: Swamp / Mangroves																0.41	0.41
		Sub Total		183.15		183.15		183.15					0.16	9.51	9.67	18.36	0.14	10.71	29.20
	5: Grass / Grazing	5.1: Grass / Grazing																	
	6:Snow and Glacier	6.1: Snow and Glacier																	
	7: Wet lands / Water bodies	7.1: Inland Wetland	5.30			5.30	1.73	7.03						0.09	0.09				
		7.2: Coastal Wetland	0.11			0.11		0.11					0.05		0.05			6.65	6.65
7.3: River/Stream/Canals		4.61			4.61		4.61					0.54		0.54			0.07	0.07	
7.4: Water bodies		0.15			0.15	2.06	2.21						0.65	0.65			1.07	1.07	
	Sub Total	10.16			10.16	3.79	13.95					0.59	0.74	1.33			7.79	7.79	
Grand Total		76039.01	716.42	337.26	77092.69	2285.51	79378.20	482.71	717.62		15.33	51.41	10770.09	12037.15	221.79	4966.08	1079.09	6266.97	

Note: Totals may not match due to rounding off.

## Land Use Land Cover (LULC) Change Matrix

(Area in Sq. Km)

LULC_CLASSES			ODISHA														
			2011-12														
			4: Forest					5: Grass / Grazing	6: Snow and Glacier	7: Wet lands / Water bodies					Grand Total		
			4.1	4.2	4.3	4.4	4.5	Sub Total	5.1	6.1	7.1	7.2	7.3	7.4	Sub Total		
2005-06	1: Agriculture	1.1: Crop land			2.25			2.25			6.46	5.13	5.37	46.92	63.89	76648.12	
		1.2: Current Shifting cultivation	5.91			559.81		565.72								1050.85	
		1.3: Plantation															333.84
		Farmland (FL) = 1.1+1.2+1.3	5.91		2.25	559.81		567.97			6.46	5.13	5.37	46.92	63.89	78032.81	
		1.4: Fallow	2.39			0.39		2.78			2.00	1.38	0.17	4.69	8.24	2105.20	
		Sub Total	8.30		2.25	560.20		570.75			8.46	6.52	5.54	51.62	72.13	80138.01	
	2: Barren/unculturable/ Wastelands	2.1: Barren Rocky															482.71
		2.2: Gullied / Ravinous Land															716.38
		2.3: Rann															
		2.4: Salt Affected Land					0.60	0.60				0.35	0.46	9.82	10.62	28.58	
		2.5: Sandy Area			0.23			0.23				0.68	1.07		1.74	51.92	
		2.6: Scrub Land	22.91					22.91					0.24	0.67	0.91	10711.00	
		Sub Total	22.91		0.23		0.60	23.75				1.02	1.77	10.49	13.28	11990.60	
	3: Builtup	3.1: Mining															165.17
		3.2: Rural											0.24		0.24	4971.50	
		3.3: Urban														852.08	
		Sub Total											0.24		0.24	5988.75	
	4: Forest	4.1: Deciduous	43029.91		0.74	96.13		43126.78				0.09		0.35	0.44	43235.38	
		4.2: Evergreen/Semi evergreen															
		4.3: Forest Plantation			869.05		0.32	869.37				0.34	0.28	0.43	1.05	873.17	
		4.4: Scrub Forest	93.76		0.75	5764.92		5859.43					0.14	0.04	0.19	5970.32	
		4.5: Swamp / Mangroves					242.22	242.22				1.10		0.22	1.32	243.96	
		Sub Total	43123.67		870.54	5861.05	242.54	50097.80				1.54	0.42	1.04	3.00	50322.83	
	5: Grass / Grazing	5.1: Grass / Grazing															
	6: Snow and Glacier	6.1: Snow and Glacier															
	7: Wet lands / Water bodies	7.1: Inland Wetland					1.87	1.87			455.34			3.65	459.00	467.99	
		7.2: Coastal Wetland			1.27		23.85	25.13				1131.21	1.49	27.75	1160.45	1192.39	
		7.3: River/Stream/Canals					0.22	0.22			0.02	2.59	3106.70	1.63	3110.95	3116.38	
7.4: Water bodies						0.95	0.95				0.66	0.28	2484.23	2485.17	2490.05		
	Sub Total			1.27		26.90	28.17			455.37	1134.47	3108.47	2517.26	7215.57	7266.81		
Grand Total		43154.88		874.29	6421.25	270.05	50720.47			463.83	1143.54	3116.44	2580.41	7304.21	155707.00		

Note: Totals may not match due to rounding off.



## Land Use Land Cover (LULC) Change Matrix

(Area in Sq. Km)

LULC_CLASSES			PUNJAB																
			2011-12																
			1: Agriculture					Sub Total	2:Barren/unculturable/ Wastelands						Sub Total	3: Builtup			Sub Total
			1.1	1.2	1.3	FL	1.4		2.1	2.2	2.3	2.4	2.5	2.6		3.1	3.2	3.3	
2005-06	1: Agriculture	1.1: Crop land	42411.18		268.22	42679.40	52.88	42732.28				3.64	0.34	18.56	22.54	72.35	80.71	231.23	384.29
		1.2: Current Shifting cultivation																	
		1.3: Plantation	24.97		536.44	561.40	0.55	561.95						0.19	0.19		0.02	0.20	0.22
		Farmland (FL) = 1.1+1.2+1.3	42436.15		804.66	43240.81	53.43	43294.24				3.64	0.34	18.76	22.73	72.35	80.74	231.42	384.51
		1.4: Fallow	11.29		0.48	11.78	14.02	25.79					0.01	0.29	0.30	0.58		1.18	1.76
		Sub Total	42447.44		805.14	43252.58	67.45	43320.03				3.64	0.36	19.04	23.03	72.93	80.74	232.60	386.27
	2:Barren/unculturable/ Wastelands	2.1: Barren Rocky																	
		2.2:Gullied / Ravinous Land	0.28		1.69	1.97		1.97		35.17				0.20	35.37	0.35		0.25	0.60
		2.3: Rann																	
		2.4: Salt Affected Land	32.34		0.65	32.99	0.08	33.07				21.51		3.64	25.14			0.47	0.47
		2.5: Sandy Area	260.90		6.38	267.28	0.74	268.02					127.78	11.14	138.92	2.84		13.85	16.70
		2.6: Scrub Land	15.82		0.91	16.73	1.38	18.12						312.43	312.43	0.16	0.16	3.56	3.89
		Sub Total	309.34		9.63	318.97	2.21	321.18		35.17		21.51	127.78	327.40	511.86	3.36	0.16	18.13	21.65
	3: Builtup	3.1: Mining	2.23			2.23		2.23								45.47		0.81	46.28
		3.2: Rural															1654.80		1654.80
		3.3: Urban																1566.81	1566.81
		Sub Total	2.23			2.23		2.23								45.47	1654.80	1567.62	3267.89
	4: Forest	4.1: Deciduous	0.49			0.49		0.49						0.28	0.28	0.29		1.64	1.93
		4.2: Evergreen/Semi evergreen																	
		4.3: Forest Plantation																	
		4.4: Scrub Forest											0.06		0.06				
		4.5: Swamp / Mangroves																	
		Sub Total	0.49			0.49		0.49					0.06	0.28	0.34	0.29		1.64	1.93
	5: Grass / Grazing	5.1: Grass / Grazing																	
	6:Snow and Glacier	6.1: Snow and Glacier																	
	7: Wet lands / Water bodies	7.1: Inland Wetland	24.75		2.00	26.75	0.01	26.76				0.46		1.73	2.19				
		7.2: Coastal Wetland																	
		7.3: River/Stream/Canals	21.41		0.39	21.81		21.81					0.38	6.89	7.26				
		7.4: Water bodies																	
		Sub Total	46.16		2.40	48.56	0.01	48.57				0.46	0.38	8.62	9.45				
	Grand Total		42805.67		817.17	43622.84	69.67	43692.51		35.17		25.60	128.57	355.34	544.69	122.05	1735.70	1819.99	3677.74

Note: Totals may not match due to rounding off.

## Land Use Land Cover (LULC) Change Matrix

(Area in Sq. Km)

LULC_CLASSES			PUNJAB													
			2011-12													
			4: Forest					Sub Total	5: Grass / Grazing	6:Snow and Glacier	7: Wet lands / Water bodies				Sub Total	Grand Total
			4.1	4.2	4.3	4.4	4.5		5.1	6.1	7.1	7.2	7.3	7.4		
2005-06	1: Agriculture	1.1: Crop land									17.91		25.76	3.76	47.42	43186.54
		1.2: Current Shifting cultivation														
		1.3: Plantation									0.03		0.11		0.14	562.50
		Farmland (FL) = 1.1+1.2+1.3									17.93		25.87	3.76	47.56	43749.04
		1.4: Fallow									0.27				0.27	28.13
		Sub Total									18.21		25.87	3.76	47.83	43777.16
	2:Barren/unculturable/ Wastelands	2.1: Barren Rocky														
		2.2:Gullied / Ravinous Land											0.03		0.03	37.98
		2.3: Rann														
		2.4: Salt Affected Land									0.04			0.63	0.67	59.36
		2.5: Sandy Area									0.19		14.82		15.01	438.64
		2.6: Scrub Land									0.32		2.97	0.43	3.71	338.15
		Sub Total									0.55		17.82	1.06	19.43	874.13
	3: Builtup	3.1: Mining														48.51
		3.2: Rural														1654.80
		3.3: Urban														1566.81
		Sub Total														3270.12
	4: Forest	4.1: Deciduous	1409.84		0.14	9.14		1419.12	0.00				0.05	0.38	0.43	1422.25
		4.2: Evergreen/Semi evergreen		12.75				12.75								12.75
		4.3: Forest Plantation	1.19		14.08	0.92		16.20								16.20
		4.4: Scrub Forest	8.22		0.58	59.90		68.70					0.01		0.01	68.77
		4.5: Swamp / Mangroves														
		Sub Total	1419.24	12.75	14.80	69.97		1516.76	0.00				0.06	0.38	0.44	1519.97
	5: Grass / Grazing	5.1: Grass / Grazing														
	6:Snow and Glacier	6.1: Snow and Glacier														
	7: Wet lands / Water bodies	7.1: Inland Wetland									95.14		0.80	0.08	96.02	124.96
		7.2: Coastal Wetland														
		7.3: River/Stream/Canals									0.45		682.89		683.34	712.41
		7.4: Water bodies												83.24	83.24	83.24
		Sub Total									95.59		683.69	83.31	862.59	920.61
	Grand Total		1419.24	12.75	14.80	69.97		1516.76	0.00		114.35		727.44	88.51	930.30	50362.00

Note: Totals may not match due to rounding off.

## Land Use Land Cover (LULC) Change Matrix

(Area in Sq. Km)

LULC_CLASSES			RAJASTHAN																
			2011-12																
			1: Agriculture					Sub Total	2:Barren/unculturable/ Wastelands						Sub Total	3: Builtup			Sub Total
			1.1	1.2	1.3	FL	1.4		2.1	2.2	2.3	2.4	2.5	2.6		3.1	3.2	3.3	
2005-06	1: Agriculture	1.1: Crop land	120539.49		6.11	120545.60	17924.92	138470.52		0.02			4.10	124.42	128.55	0.02	4.29	63.36	67.67
		1.2: Current Shifting cultivation																	
		1.3: Plantation	6.22		89.06	95.28	0.22	95.50						4.31	4.31				
		Farmland (FL) = 1.1+1.2+1.3	120545.71		95.16	120640.87	17925.15	138566.02		0.02			4.10	128.73	132.85	0.02	4.29	63.36	67.67
		1.4: Fallow	30643.98		1.15	30645.13	46150.61	76795.74		0.31			0.01	140.16	140.48		11.28	44.82	56.11
		Sub Total	151189.69		96.31	151286.00	64075.76	215361.76		0.33			4.11	268.89	273.33	0.02	15.57	108.19	123.78
	2:Barren/unculturable/ Wastelands	2.1: Barren Rocky							4979.61						4979.61	12.18	0.35	1.77	14.31
		2.2:Gullied / Ravinous Land	151.11		0.50	151.61	2.92	154.52		2452.60				36.27	2488.87	1.80	0.06	3.39	5.24
		2.3: Rann									196.23				196.23				
		2.4: Salt Affected Land	27.05		2.86	29.92	36.79	66.71				795.57		68.88	864.45	0.01	0.94	0.12	1.07
		2.5: Sandy Area	1175.53		0.77	1176.31	17.85	1194.16					24949.63	3961.48	28911.11	1.17	0.77	6.18	8.12
		2.6: Scrub Land	2290.12		1.08	2291.19	1497.38	3788.57		56.85		1.31	48.13	36987.34	37093.63	40.12	11.75	90.18	142.06
		Sub Total	3643.81		5.21	3649.02	1554.95	5203.97	4979.61	2509.46	196.23	796.89	24997.76	41053.96	74533.92	55.29	13.87	101.64	170.79
	3: Builtup	3.1: Mining												0.35	0.35	331.79		0.05	331.84
		3.2: Rural															3032.95	4.61	3037.56
		3.3: Urban																1708.95	1708.95
	Sub Total												0.35	0.35	331.79	3032.95	1713.61	5078.36	
	4: Forest	4.1: Deciduous	0.54			0.54	1.32	1.86		0.50				1.86	2.36	1.01	0.43	1.05	2.48
		4.2: Evergreen/Semi evergreen																	
		4.3: Forest Plantation																	
		4.4: Scrub Forest														6.64			6.64
		4.5: Swamp / Mangroves																	
	Sub Total	0.54			0.54	1.32	1.86		0.50				1.86	2.36	7.65	0.43	1.05	9.12	
	5: Grass / Grazing	5.1: Grass / Grazing	171.81		4.75	176.56	189.08	365.64				0.32	11.90	83.12	95.34	3.43	0.07	14.82	18.32
	6:Snow and Glacier	6.1: Snow and Glacier																	
	7: Wet lands / Water bodies	7.1: Inland Wetland	1.05			1.05	0.24	1.28			0.10	1.13		1.93	3.15				
		7.2: Coastal Wetland																	
7.3: River/Stream/Canals		10.66		0.04	10.70	0.00	10.71										0.01	0.01	
7.4: Water bodies		19.57			19.57		19.57								0.12	0.04	0.23	0.39	
Sub Total	31.28		0.04	31.32	0.24	31.56			0.10	1.13		1.93	3.15	0.12	0.04	0.24	0.40		
Grand Total		155037.14		106.30	155143.44	65821.34	220964.79	4979.61	2510.29	196.33	798.34	25013.77	41410.09	74908.44	398.29	3062.94	1939.54	5400.77	

Note: Totals may not match due to rounding off.

## Land Use Land Cover (LULC) Change Matrix

(Area in Sq. Km)

LULC_CLASSES			RAJASTHAN													
			2011-12													
			4: Forest					Sub Total	5: Grass / Grazing	6:Snow and Glacier	7: Wet lands / Water bodies				Sub Total	Grand Total
			4.1	4.2	4.3	4.4	4.5				7.1	7.2	7.3	7.4		
2005-06	1: Agriculture	1.1: Crop land	0.00					0.00	0.04		32.16		7.22	202.49	241.87	138908.65
		1.2: Current Shifting cultivation														
		1.3: Plantation											0.36		0.36	100.17
		Farmland (FL) = 1.1+1.2+1.3	0.00					0.00	0.04		32.16		7.59	202.49	242.24	139008.82
		1.4: Fallow									8.04		5.15	72.66	85.84	77078.17
		Sub Total	0.00					0.00	0.04		40.20		12.74	275.15	328.08	216086.99
	2:Barren/unculturable/ Wastelands	2.1: Barren Rocky												1.29	1.29	4995.21
		2.2:Gullied / Ravinous Land	0.52					0.52						0.37	0.37	2649.53
		2.3: Rann														196.23
		2.4: Salt Affected Land									4.61		0.26	1.50	6.37	938.61
		2.5: Sandy Area	20.77					20.77	16.26		1.12		2.58	0.89	4.60	30155.02
		2.6: Scrub Land	21.82					21.82	12.90		2.02		4.90	102.18	109.10	41168.08
		Sub Total	43.12					43.12	29.17		7.75		7.74	106.23	121.73	80102.69
	3: Builtup	3.1: Mining														332.18
		3.2: Rural														3037.56
		3.3: Urban														1708.95
		Sub Total														5078.70
	4: Forest	4.1: Deciduous	16863.04		1.89	19.23		16884.17					2.17	5.70	7.87	16898.74
		4.2: Evergreen/Semi evergreen														
		4.3: Forest Plantation	1.11		112.96	4.94		119.00								119.00
		4.4: Scrub Forest	449.27		24.64	10996.36		11470.27					0.24	6.47	6.71	11483.62
		4.5: Swamp / Mangroves														
		Sub Total	17313.42		139.49	11020.53		28473.44					2.41	12.17	14.58	28501.36
	5: Grass / Grazing	5.1: Grass / Grazing	9.34					9.34	5566.24		1.48			0.34	1.82	6056.70
	6:Snow and Glacier	6.1: Snow and Glacier														
	7: Wet lands / Water bodies	7.1: Inland Wetland									195.61			2.99	198.59	203.03
		7.2: Coastal Wetland														
		7.3: River/Stream/Canals	0.05			0.02		0.07					3377.53		3377.53	3388.32
		7.4: Water bodies											0.05	2801.20	2801.25	2821.21
		Sub Total	0.05			0.02		0.07			195.61		3377.58	2804.18	6377.37	6412.56
	Grand Total		17365.93		139.49	11020.56		28525.98	5595.45		245.04		3400.46	3198.07	6843.57	342239.00

Note: Totals may not match due to rounding off.

## Land Use Land Cover (LULC) Change Matrix

(Area in Sq. Km)

LULC_CLASSES			SIKKIM																
			2011-12																
			1: Agriculture						2:Barren/unculturable/ Wastelands							3: Builtup			
									1.1	1.2	1.3	FL	1.4	Sub Total		2.1	2.2	2.3	
2005-06	1: Agriculture	1.1: Crop land	582.41			582.41		582.41		0.31				0.17	0.48		0.03	1.00	1.03
		1.2: Current Shifting cultivation																	
		1.3: Plantation			6.23	6.23		6.23											
		Farmland (FL) = 1.1+1.2+1.3	582.41		6.23	588.64		588.64		0.31				0.17	0.48		0.03	1.00	1.03
		1.4: Fallow					0.57	0.57											
		Sub Total	582.41		6.23	588.64	0.57	589.21		0.31				0.17	0.48		0.03	1.00	1.03
	2:Barren/unculturable/ Wastelands	2.1: Barren Rocky							794.26						794.26				
		2.2:Gullied / Ravinous Land								0.43					0.43				
		2.3: Rann																	
		2.4: Salt Affected Land																	
		2.5: Sandy Area											3.57	3.57			0.05	0.05	
		2.6: Scrub Land	0.19			0.19		0.19		0.12			0.05	19.37	19.54			0.02	0.02
		Sub Total	0.19			0.19		0.19	794.26	0.55			3.62	19.37	817.81			0.08	0.08
	3: Builtup	3.1: Mining																	
		3.2: Rural															5.37		5.37
		3.3: Urban																17.29	17.29
		Sub Total															5.37	17.29	22.66
	4: Forest	4.1: Deciduous	0.32			0.32		0.32						0.02	0.02				
		4.2: Evergreen/Semi evergreen								5.18					5.18	0.07	0.14	0.37	0.58
		4.3: Forest Plantation														0.02		0.12	0.14
		4.4: Scrub Forest								0.58					0.58				
		4.5: Swamp / Mangroves																	
		Sub Total	0.32			0.32		0.32		5.77				0.02	5.78	0.09	0.14	0.49	0.72
	5: Grass / Grazing	5.1: Grass / Grazing								0.85					0.85				
	6:Snow and Glacier	6.1: Snow and Glacier							16.69						16.69				
	7: Wet lands / Water bodies	7.1: Inland Wetland																	
7.2: Coastal Wetland																			
7.3: River/Stream/Canals																	0.00	0.00	
7.4: Water bodies																			
	Sub Total																0.00	0.00	
	Grand Total																		
														</					

Note: Totals may not match due to rounding off.

## Land Use Land Cover (LULC) Change Matrix

(Area in Sq. Km)

LULC_CLASSES			SIKKIM													
			2011-12													
			4: Forest					5: Grass / Grazing	6: Snow and Glacier	7: Wet lands / Water bodies					Grand Total	
			4.1	4.2	4.3	4.4	4.5	Sub Total	5.1	6.1	7.1	7.2	7.3	7.4	Sub Total	
2005-06	1: Agriculture	1.1: Crop land											0.01		0.01	583.93
		1.2: Current Shifting cultivation														
		1.3: Plantation														6.23
		Farmland (FL) = 1.1+1.2+1.3											0.01		0.01	590.16
		1.4: Fallow														0.57
		Sub Total										0.01		0.01	590.73	
	2: Barren/unculturable/ Wastelands	2.1: Barren Rocky		0.91				0.91		197.44						992.61
		2.2: Gullied / Ravinous Land														0.43
		2.3: Rann														
		2.4: Salt Affected Land														
		2.5: Sandy Area														3.63
		2.6: Scrub Land	0.09					0.09		0.71						20.56
		Sub Total	0.09	0.91				1.00		198.15						1017.23
	3: Builtup	3.1: Mining														
		3.2: Rural														5.37
		3.3: Urban														17.29
		Sub Total														22.66
	4: Forest	4.1: Deciduous	180.89					180.89								181.22
		4.2: Evergreen/Semi evergreen	0.53	2652.24	0.11	10.36		2663.23		9.10						2678.10
		4.3: Forest Plantation			3.74	0.02		3.76								3.90
		4.4: Scrub Forest		10.12		36.40		46.52		0.09						47.19
		4.5: Swamp / Mangroves														
		Sub Total	181.42	2662.36	3.85	46.78		2894.40		9.18						2910.40
	5: Grass / Grazing	5.1: Grass / Grazing							625.30	64.53				0.15	0.15	690.83
	6: Snow and Glacier	6.1: Snow and Glacier		0.11				0.11	2.06	1787.03				3.80	3.80	1809.68
	7: Wet lands / Water bodies	7.1: Inland Wetland														
7.2: Coastal Wetland																
7.3: River/Stream/Canals												40.68		40.68	40.68	
7.4: Water bodies								0.04					13.74	13.74	13.78	
	Sub Total							0.04				40.68	13.74	54.42	54.47	
	Grand Total	181.51	2663.38	3.85	46.78		2895.51	627.40	2058.89			40.69	17.69	58.38	7096.00	

Note: Totals may not match due to rounding off.

## Land Use Land Cover (LULC) Change Matrix

(Area in Sq. Km)

LULC_CLASSES			TAMIL NADU																
			2011-12																
			1: Agriculture					Sub Total	2:Barren/unculturable/ Wastelands						Sub Total	3: Builtup			Sub Total
									1.1	1.2	1.3	FL	1.4	2.1		2.2	2.3	2.4	
2005-06	1: Agriculture	1.1: Crop land	63796.97		50.16	63847.13	482.77	64329.90		1.85				28.25	30.11	32.02	33.63	104.68	170.34
		1.2: Current Shifting cultivation																	
		1.3: Plantation	14.22		9306.63	9320.85	32.87	9353.72					0.34	25.31	25.66	4.28	10.33	14.86	29.47
		Farmland (FL) = 1.1+1.2+1.3	63811.19		9356.79	73167.98	515.64	73683.62		1.85			0.34	53.57	55.76	36.30	43.96	119.55	199.81
		1.4: Fallow	409.02		76.32	485.35	13358.04	13843.39		1.76				7.53	9.29	32.95	16.63	95.71	145.29
		Sub Total	64220.21	9433.11	73653.32	13873.68	87527.01		3.61			0.34	61.09	65.05	69.25	60.59	215.25	345.10	
	2:Barren/unculturable/ Wastelands	2.1: Barren Rocky							268.27						268.27	11.92		0.16	12.07
		2.2:Gullied / Ravinous Land								67.38					67.38			0.09	0.09
		2.3: Rann																	
		2.4: Salt Affected Land			0.11	0.11		0.11		0.10		532.12		3.82	536.03			0.18	0.18
		2.5: Sandy Area			11.84	11.84		11.84					204.46	0.66	205.12	0.05	0.16		0.21
		2.6: Scrub Land	15.50		3.79	19.29	0.58	19.88						4831.18	4831.18	21.52		17.55	39.07
		Sub Total	15.50	15.75	31.25	0.58	31.83	268.27	67.47		532.12	204.46	4835.66	5907.99	33.48	0.16	17.97	51.62	
	3: Builtup	3.1: Mining														231.94			231.94
		3.2: Rural															3715.76		3715.76
		3.3: Urban																2096.69	2096.69
		Sub Total														231.94	3715.76	2096.69	6044.40
	4: Forest	4.1: Deciduous			0.69	0.69	0.53	1.22								0.05		0.67	0.73
		4.2: Evergreen/Semi evergreen																	
		4.3: Forest Plantation																0.78	0.78
		4.4: Scrub Forest																0.09	0.09
		4.5: Swamp / Mangroves																	
		Sub Total		0.69	0.69	0.53	1.22								0.05		1.55	1.60	
	5: Grass / Grazing	5.1: Grass / Grazing										0.20		0.20	1.64			1.64	
	6:Snow and Glacier	6.1: Snow and Glacier																	
	7: Wet lands / Water bodies	7.1: Inland Wetland																	
		7.2: Coastal Wetland			4.22	4.22		4.22						0.81	0.81			4.03	4.03
		7.3: River/Stream/Canals														46.99			46.99
7.4: Water bodies															0.15	0.13	0.10	0.37	
	Sub Total		4.22	4.22		4.22						0.81	0.81	47.13	0.13	4.12	51.39		
	Grand Total	64235.71	9453.77	73689.49	13874.79	87564.28	268.27	71.09		532.31	204.81	4897.57	5974.05	383.50	3776.65	2335.59	6495.74		

Note: Totals may not match due to rounding off.

## Land Use Land Cover (LULC) Change Matrix

(Area in Sq. Km)

LULC_CLASSES			TAMIL NADU													
			2011-12													
			4: Forest					5: Grass / Grazing	6:Snow and Glacier	7: Wet lands / Water bodies					Grand Total	
			4.1	4.2	4.3	4.4	4.5	Sub Total	5.1	6.1	7.1	7.2	7.3	7.4	Sub Total	
2005-06	1: Agriculture	1.1: Crop land	0.10	0.12	0.06			0.28			3.29		0.52	47.74	51.54	64582.16
		1.2: Current Shifting cultivation														
		1.3: Plantation								0.17	6.86			17.23	24.26	9433.10
		Farmland (FL) = 1.1+1.2+1.3	0.10	0.12	0.06			0.28			3.46	6.86	0.52	64.96	75.80	74015.27
		1.4: Fallow									2.02	0.20	0.93	3.15	14001.11	
		Sub Total	0.10	0.12	0.06			0.28			3.46	8.88	0.71	65.89	78.95	88016.38
	2:Barren/unculturable/ Wastelands	2.1: Barren Rocky														280.35
		2.2:Gullied / Ravinous Land														67.46
		2.3: Rann														
		2.4: Salt Affected Land											0.41	0.41	536.74	
		2.5: Sandy Area										0.08	0.90	0.99	218.17	
		2.6: Scrub Land			0.13			0.13			0.17	0.40	1.27	1.83	4892.09	
		Sub Total			0.13			0.13			0.17	0.48	2.59	3.23	5994.81	
	3: Builtup	3.1: Mining														231.94
		3.2: Rural														3715.76
		3.3: Urban														2096.69
		Sub Total														6044.40
	4: Forest	4.1: Deciduous	11175.66					11175.66						1.25	1.25	11178.86
		4.2: Evergreen/Semi evergreen		5031.58				5031.58								5031.58
		4.3: Forest Plantation			1369.58	0.27		1369.85								1370.63
		4.4: Scrub Forest		2.43		2638.77		2641.20					0.08	0.08		2641.37
		4.5: Swamp / Mangroves					111.85	111.85								111.85
		Sub Total	11175.66	5034.01	1369.58	2639.04	111.85	20330.15						1.32	1.32	20334.29
	5: Grass / Grazing	5.1: Grass / Grazing							172.07				0.33	0.12	0.45	174.35
	6:Snow and Glacier	6.1: Snow and Glacier														
	7: Wet lands / Water bodies	7.1: Inland Wetland									44.68				44.68	44.68
		7.2: Coastal Wetland									2.34	974.56		2.96	979.85	988.91
7.3: River/Stream/Canals												1721.96	5.07	1727.02	1774.01	
7.4: Water bodies											0.22	0.42	6685.16	6685.80	6686.17	
Sub Total										47.02	974.77	1722.38	6693.18	9437.36	9493.77	
Grand Total		11175.76	5034.14	1369.76	2639.04	111.85	20330.56	172.07		50.48	983.82	1723.90	6763.11	9521.31	130058.00	

Note: Totals may not match due to rounding off.



## Land Use Land Cover (LULC) Change Matrix

(Area in Sq. Km)

LULC_CLASSES			TELANGANA																	
			2011-12																	
			1: Agriculture						2:Barren/unculturable/ Wastelands							3: Builtup				
			1.1	1.2	1.3	FL	1.4	Sub Total	2.1	2.2	2.3	2.4	2.5	2.6	Sub Total	3.1	3.2	3.3	Sub Total	
2005-06	1: Agriculture	1.1: Crop land	57015.47		156.77	57172.24	1.56	57173.80								26.30	0.64	122.54	149.48	
		1.2: Current Shifting cultivation																		
		1.3: Plantation			865.53	865.53		865.53										0.34	0.34	
		Farmland (FL) = 1.1+1.2+1.3	57015.47		1022.30	58037.77	1.56	58039.34								26.30	0.64	122.88	149.83	
		1.4: Fallow	2905.69		78.24	2983.92	9151.66	12135.58								28.92	3.64	156.78	189.33	
		Sub Total	59921.16		1100.53	61021.70	9153.22	70174.91								55.22	4.28	279.66	339.16	
	2:Barren/unculturable/ Wastelands	2.1: Barren Rocky							759.61							759.61	8.94	0.05	0.44	9.43
		2.2:Gullied / Ravinous Land								121.63						121.63				
		2.3: Rann																		
		2.4: Salt Affected Land			0.12	0.12		0.12				254.06				254.06			0.60	0.60
		2.5: Sandy Area											2.43			2.43				
		2.6: Scrub Land			19.54	19.54		19.54						5002.32	5002.32	53.16	0.47	54.21	107.84	
		Sub Total			19.66	19.66		19.66	759.61	121.63		254.06	2.43	5002.32	6140.05	62.11	0.51	55.26	117.88	
	3: Builtup	3.1: Mining														349.20			5.64	354.83
		3.2: Rural															2011.69		0.41	2012.10
		3.3: Urban																1518.77		1518.77
			Sub Total													349.20	2011.69	1524.81		3885.69
	4: Forest	4.1: Deciduous														5.85			10.10	15.95
		4.2: Evergreen/Semi evergreen																		
		4.3: Forest Plantation														0.69			1.12	1.81
		4.4: Scrub Forest														4.63			3.76	8.39
		4.5: Swamp / Mangroves																		
		Sub Total														11.17			14.99	26.16
5: Grass / Grazing	5.1: Grass / Grazing																	1.23	1.23	
6:Snow and Glacier	6.1: Snow and Glacier																			
7: Wet lands / Water bodies	7.1: Inland Wetland																			
	7.2: Coastal Wetland																			
	7.3: River/Stream/Canals	0.16			0.16		0.16								0.37				0.37	
	7.4: Water bodies	1.75		0.10	1.85		1.85											1.28	1.28	
	Sub Total	1.91		0.10	2.01		2.01								0.37			1.28	1.65	
Grand Total		59923.08		1120.29	61043.37	9153.22	70196.59	759.61	121.63		254.06	2.43	5002.32	6140.05	478.06	2016.48	1877.23		4371.77	

Note: Totals may not match due to rounding off.

## Land Use Land Cover (LULC) Change Matrix

(Area in Sq. Km)

LULC_CLASSES			TELANGANA													
			2011-12													
			4: Forest					5: Grass / Grazing	6: Snow and Glacier	7: Wet lands / Water bodies					Grand Total	
			4.1	4.2	4.3	4.4	4.5	Sub Total	5.1	6.1	7.1	7.2	7.3	7.4	Sub Total	
2005-06	1: Agriculture	1.1: Crop land											32.17	95.06	127.23	57450.52
		1.2: Current Shifting cultivation														
		1.3: Plantation										0.13	0.58	0.71	866.59	
		Farmland (FL) = 1.1+1.2+1.3										32.30	95.64	127.94	58317.11	
		1.4: Fallow						0.50				14.64	31.84	46.48	12371.90	
		Sub Total						0.50				46.94	127.49	174.43	70689.00	
	2: Barren/unculturable/ Wastelands	2.1: Barren Rocky														769.04
		2.2: Gullied / Ravinous Land										0.25	0.09	0.34	121.97	
		2.3: Rann														
		2.4: Salt Affected Land										0.34	1.71	2.04	256.82	
		2.5: Sandy Area													2.43	
		2.6: Scrub Land										4.62	7.26	11.88	5141.59	
		Sub Total										5.21	9.06	14.26	6291.85	
	3: Builtup	3.1: Mining										0.12	0.25	0.37	355.21	
		3.2: Rural										0.08	0.19	0.26	2012.36	
		3.3: Urban													1518.77	
		Sub Total										0.20	0.44	0.64	3886.33	
	4: Forest	4.1: Deciduous	19245.12		29.86	164.54		19439.52				2.88	6.73	9.61	19465.09	
		4.2: Evergreen/Semi evergreen														
		4.3: Forest Plantation			374.47	19.60		394.07								395.88
		4.4: Scrub Forest	0.03		14.47	4544.71		4559.21				0.34	1.13	1.47	4569.07	
		4.5: Swamp / Mangroves														
		Sub Total	19245.16		418.79	4728.85		24392.80				3.22	7.86	11.08	24430.04	
	5: Grass / Grazing	5.1: Grass / Grazing							30.27							31.50
	6: Snow and Glacier	6.1: Snow and Glacier														
	7: Wet lands / Water bodies	7.1: Inland Wetland									15.73				15.73	15.73
7.2: Coastal Wetland																
7.3: River/Stream/Canals											2134.94	4.07	2139.01	2139.54		
7.4: Water bodies											1.15	4590.73	4591.88	4595.01		
	Sub Total									15.73		2136.09	4594.80	6746.62	6750.28	
Grand Total		19245.16		418.79	4728.85		24392.80	30.77		15.73		2191.65	4739.64	6947.03	112079.00	

Note: Totals may not match due to rounding off.

## Land Use Land Cover (LULC) Change Matrix

(Area in Sq. Km)

LULC_CLASSES			TRIPURA																
			2011-12																
			1: Agriculture					Sub Total	2:Barren/unculturable/ Wastelands						Sub Total	3: Builtup			Sub Total
			1.1	1.2	1.3	FL	1.4		2.1	2.2	2.3	2.4	2.5	2.6		3.1	3.2	3.3	
2005-06	1: Agriculture	1.1: Crop land	1375.76		3.44	1379.20	8.97	1388.16											
		1.2: Current Shifting cultivation		6.11		6.11		6.11						15.93	15.93		0.32		0.32
		1.3: Plantation	21.89		727.14	749.04	7.35	756.38											
		Farmland (FL) = 1.1+1.2+1.3	1397.65	6.11	730.58	2134.34	16.31	2150.66						15.93	15.93		0.32		0.32
		1.4: Fallow	1.61		0.13	1.74	15.94	17.68											
		Sub Total	1399.26	6.11	730.71	2136.08	32.26	2168.34						15.93	15.93		0.32		0.32
	2:Barren/unculturable/ Wastelands	2.1: Barren Rocky																	
		2.2:Gullied / Ravinous Land								0.08					0.08				
		2.3: Rann																	
		2.4: Salt Affected Land																	
		2.5: Sandy Area	0.05			0.05		0.05					4.61		4.61				
		2.6: Scrub Land											0.06	532.41	532.47	0.21	23.84	9.83	33.88
		Sub Total	0.05			0.05		0.05		0.08			4.67	532.41	537.16	0.21	23.84	9.83	33.88
	3: Builtup	3.1: Mining														4.95			4.95
		3.2: Rural															468.41		468.41
		3.3: Urban																332.48	332.48
		Sub Total														4.95	468.41	332.48	805.84
	4: Forest	4.1: Deciduous		13.55		13.55		13.55								0.21			0.21
		4.2: Evergreen/Semi evergreen		90.61		90.61		90.61											
		4.3: Forest Plantation		2.39		2.39		2.39											
		4.4: Scrub Forest		12.86		12.86		12.86						68.91	68.91				
		4.5: Swamp / Mangroves																	
		Sub Total		119.40		119.40		119.40						68.91	68.91	0.21			0.21
	5: Grass / Grazing	5.1: Grass / Grazing																	
	6:Snow and Glacier	6.1: Snow and Glacier																	
	7: Wet lands / Water bodies	7.1: Inland Wetland	1.65			1.65		1.65											
		7.2: Coastal Wetland																	
		7.3: River/Stream/Canals	0.92			0.92		0.92											
		7.4: Water bodies	0.84			0.84		0.84											
		Sub Total	3.41			3.41		3.41											
		Grand Total	1402.73	125.52	730.71	2258.95	32.26	2291.21		0.08			4.67	617.25	622.00	5.37	492.57	342.31	840.25

Note: Totals may not match due to rounding off.

## Land Use Land Cover (LULC) Change Matrix

(Area in Sq. Km)

LULC_CLASSES			TRIPURA													
			2011-12													
			4: Forest					Sub Total	5: Grass / Grazing	6: Snow and Glacier	7: Wet lands / Water bodies				Sub Total	Grand Total
			4.1	4.2	4.3	4.4	4.5		5.1	6.1	7.1	7.2	7.3	7.4		
2005-06	1: Agriculture	1.1: Crop land														1388.16
		1.2: Current Shifting cultivation				58.53		58.53								80.89
		1.3: Plantation														756.38
		Farmland (FL) = 1.1+1.2+1.3				58.53		58.53								2225.44
		1.4: Fallow														17.68
		Sub Total				58.53		58.53								2243.12
	2: Barren/unculturable/ Wastelands	2.1: Barren Rocky														
		2.2: Gullied / Ravinous Land														0.08
		2.3: Rann														
		2.4: Salt Affected Land														
		2.5: Sandy Area														4.66
		2.6: Scrub Land												0.01	0.01	566.36
		Sub Total												0.01	0.01	571.10
	3: Builtup	3.1: Mining														4.95
		3.2: Rural														468.41
		3.3: Urban														332.48
		Sub Total														805.84
	4: Forest	4.1: Deciduous	1931.76			13.17		1944.93								1958.69
		4.2: Evergreen/Semi evergreen	4.54	3865.06		20.80		3890.40						0.20	0.20	3981.21
		4.3: Forest Plantation			307.26	1.10		308.35								310.74
		4.4: Scrub Forest	0.74	0.87		417.27		418.88								500.66
		4.5: Swamp / Mangroves														
		Sub Total	1937.04	3865.94	307.26	452.33		6562.57						0.20	0.20	6751.30
	5: Grass / Grazing	5.1: Grass / Grazing														
	6: Snow and Glacier	6.1: Snow and Glacier														
	7: Wet lands / Water bodies	7.1: Inland Wetland									5.52				5.52	7.17
		7.2: Coastal Wetland														
		7.3: River/Stream/Canals											50.57		50.57	51.49
		7.4: Water bodies												55.14	55.14	55.98
		Sub Total									5.52		50.57	55.14	111.23	114.64
	Grand Total		1937.04	3865.94	307.26	510.86		6621.10			5.52		50.57	55.36	111.45	10486.00

Note: Totals may not match due to rounding off.

## Land Use Land Cover (LULC) Change Matrix

(Area in Sq. Km)

LULC_CLASSES			UTTAR PRADESH																	
			2011-12																	
			1: Agriculture					Sub Total	2:Barren/unculturable/ Wastelands						Sub Total	3: Builtup			Sub Total	
			1.1	1.2	1.3	FL	1.4	Sub Total	2.1	2.2	2.3	2.4	2.5	2.6	Sub Total	3.1	3.2	3.3	Sub Total	
2005-06	1: Agriculture	1.1: Crop land	168343.45		202.82	168546.27	1395.40	169941.67		1.54		7.81		2.99	12.35	11.74	13.80	84.08	109.62	
		1.2: Current Shifting cultivation																		
		1.3: Plantation	71.51		4303.37	4374.88	4.29	4379.17									0.05	1.62	1.67	
		Farmland (FL) = 1.1+1.2+1.3	168414.96		4506.19	172921.15	1399.69	174320.84		1.54		7.81		2.99	12.35	11.74	13.84	85.70	111.29	
		1.4: Fallow	8361.82		28.60	8390.42	3856.75	12247.18		0.55		32.45		29.78	62.79	0.31	0.27	24.83	25.40	
		Sub Total	176776.78		4534.79	181311.57	5256.45	186568.02		2.10		40.26		32.77	75.13	12.05	14.11	110.52	136.69	
	2:Barren/unculturable/ Wastelands	2.1: Barren Rocky							675.54							675.54	0.43		0.43	
		2.2:Gullied / Ravinous Land	194.65		1.14	195.79	3.70	199.48		2873.25		5.16		36.02	2914.43			1.31	1.31	
		2.3: Rann																		
		2.4: Salt Affected Land	783.39		1.64	785.04	7.50	792.54		2.09		3602.86	0.24	59.38	3664.57			5.35	5.35	
		2.5: Sandy Area	21.26			21.26		21.26		0.30		0.13	9.07	6.05	15.54					
		2.6: Scrub Land	2913.01		10.03	2923.03	31.74	2954.77		5.00		98.06	0.10	6673.12	6776.27	3.06		14.38	17.44	
		Sub Total	3912.32		12.81	3925.12	42.93	3968.05	675.54	2880.64		3706.20	9.41	6774.56	14046.37	3.49		21.04	24.53	
	3: Builtup	3.1: Mining															95.86		0.07	95.92
		3.2: Rural															0.12	6943.99	51.42	6995.53
		3.3: Urban															1.06		4196.32	4197.38
		Sub Total														97.05	6943.99	4247.80	11288.84	
	4: Forest	4.1: Deciduous	5.00		0.81	5.81	1.49	7.30				0.09			0.09	1.52		0.96	2.48	
		4.2: Evergreen/Semi evergreen																		
		4.3: Forest Plantation																		
		4.4: Scrub Forest																		
		4.5: Swamp / Mangroves																		
		Sub Total	5.00		0.81	5.81	1.49	7.30				0.09			0.09	1.52		0.96	2.48	
	5: Grass / Grazing	5.1: Grass / Grazing	25.60			25.60	5.23	30.83				0.49		6.54	7.02					
	6:Snow and Glacier	6.1: Snow and Glacier																		
	7: Wet lands / Water bodies	7.1: Inland Wetland	455.43		1.05	456.49	0.71	457.20				2.90		15.88	18.78					
		7.2: Coastal Wetland																		
		7.3: River/Stream/Canals	153.27		0.05	153.32	5.43	158.76		0.11		0.26	0.17	171.24	171.79			0.33	0.33	
		7.4: Water bodies	12.56		0.20	12.76	1.21	13.97						0.81	0.81					
		Sub Total	621.27		1.30	622.57	7.35	629.92		0.11		3.16	0.17	187.93	191.37			0.33	0.33	
	Grand Total		181340.97		4549.71	185890.69	5313.44	191204.13	675.54	2882.85		3750.20	9.58	7001.80	14319.99	114.12	6958.10	4380.65	11452.87	

Note: Totals may not match due to rounding off.

## Land Use Land Cover (LULC) Change Matrix

(Area in Sq. Km)

LULC_CLASSES			UTTAR PRADESH													
			2011-12													
			4: Forest					5: Grass / Grazing	6:Snow and Glacier	7: Wet lands / Water bodies				Sub Total	Grand Total	
			4.1	4.2	4.3	4.4	4.5			Sub Total	5.1	6.1	7.1			7.2
2005-06	1: Agriculture	1.1: Crop land									27.24		361.74	1.77	390.76	170454.40
		1.2: Current Shifting cultivation														
		1.3: Plantation									0.50		0.54	0.48	1.52	4382.35
		Farmland (FL) = 1.1+1.2+1.3								27.74		362.29	2.25	392.28	174836.75	
		1.4: Fallow							0.82		4.89		126.24	1.19	132.32	12468.50
		Sub Total						0.82		32.63		488.53	3.44	524.60	187305.25	
	2:Barren/unculturable / Wastelands	2.1: Barren Rocky											0.54	7.71	8.25	684.23
		2.2:Gullied / Ravinous Land	1.33			1.34		2.66					1.41	0.75	2.17	3120.05
		2.3: Rann														
		2.4: Salt Affected Land							0.62		1.42		1.58	0.76	3.76	4466.83
		2.5: Sandy Area									0.24		55.84	1.42	57.50	94.31
		2.6: Scrub Land	0.36					0.36			11.25		110.18	40.60	162.03	9910.88
		Sub Total	1.69			1.34		3.03	0.62		12.90		169.55	51.25	233.70	18276.30
	3: Builtup	3.1: Mining														95.92
		3.2: Rural														6995.53
		3.3: Urban												0.02	0.02	4197.40
		Sub Total												0.02	0.02	11288.86
	4: Forest	4.1: Deciduous	8803.38		4.97	39.72		8848.06			0.12		14.31	3.11	17.54	8875.48
		4.2: Evergreen/Semi evergreen														
		4.3: Forest Plantation	0.91		69.92	1.40		72.23						0.04	0.04	72.27
		4.4: Scrub Forest	95.39		1.98	3345.95		3443.32					1.44		1.44	3444.76
		4.5: Swamp / Mangroves					188.29	188.29	1.00				1.81		1.81	191.10
		Sub Total	8899.68		76.87	3387.07	188.29	12551.90	1.00		0.12		17.57	3.14	20.83	12583.61
	5: Grass / Grazing	5.1: Grass / Grazing							293.37		0.55		31.08		31.63	362.85
	6:Snow and Glacier	6.1: Snow and Glacier														
	7: Wet lands / Water bodies	7.1: Inland Wetland	0.31					0.31			2255.35		12.71	10.20	2278.26	2754.56
		7.2: Coastal Wetland														
7.3: River/Stream/Canals		0.08					0.08	1.40		0.54		6285.52	1.50	6287.57	6619.93	
7.4: Water bodies										3.67			1718.20	1721.88	1736.65	
	Sub Total	0.40					0.40	1.40		2259.57		6298.24	1729.91	10287.71	11111.14	
Grand Total			8901.77		76.87	3388.41	188.29	12555.33	297.20		2305.77	7004.96	1787.76	11098.49	240928.00	

Note: Totals may not match due to rounding off.

## Land Use Land Cover (LULC) Change Matrix

(Area in Sq. Km)

LULC_CLASSES			UTTARAKHAND																
			2011-12																
			1: Agriculture					2:Barren/unculturable/ Wastelands							3: Builtup				
			1.1	1.2	1.3	FL	1.4	Sub Total	2.1	2.2	2.3	2.4	2.5	2.6	Sub Total	3.1	3.2	3.3	Sub Total
2005-06	1: Agriculture	1.1: Crop land	9526.19			9526.19	8.76	9534.96						0.27	0.27	0.31	0.15	2.48	2.94
		1.2: Current Shifting cultivation																	
		1.3: Plantation	3.18		170.67	173.85	0.21	174.06						0.10	0.10				
		Farmland (FL) = 1.1+1.2+1.3	9529.38		170.67	9700.04	8.97	9709.01						0.37	0.37	0.31	0.15	2.48	2.94
		1.4: Fallow	41.49			41.49	967.07	1008.55									0.13	0.13	0.26
		Sub Total	9570.86		170.67	9741.53	976.04	10717.56						0.37	0.37	0.31	0.29	2.62	3.21
	2:Barren/unculturable/ Wastelands	2.1: Barren Rocky							3086.20						3086.20				
		2.2:Gullied / Ravinous Land								4.27					4.27				
		2.3: Rann																	
		2.4: Salt Affected Land																	
		2.5: Sandy Area											7.09		7.09				
		2.6: Scrub Land	0.77			0.77	0.05	0.82						677.65	677.65				
		Sub Total	0.77			0.77	0.05	0.82	3086.20	4.27			7.09	677.65	3775.20				
	3: Builtup	3.1: Mining														19.61			19.61
		3.2: Rural															210.31		210.31
		3.3: Urban																382.59	382.59
		Sub Total														19.61	210.31	382.59	612.50
	4: Forest	4.1: Deciduous																0.38	0.38
		4.2: Evergreen/Semi evergreen												0.06	0.06	0.00			0.00
		4.3: Forest Plantation																	
		4.4: Scrub Forest																	
		4.5: Swamp / Mangroves																	
		Sub Total												0.06	0.06	0.00		0.38	0.38
	5: Grass / Grazing	5.1: Grass / Grazing	0.11			0.11		0.11											
	6:Snow and Glacier	6.1: Snow and Glacier							2951.97						19.21	2971.18			
	7: Wet lands / Water bodies	7.1: Inland Wetland																	
		7.2: Coastal Wetland																	
7.3: River/Stream/Canals		7.04			7.04	1.00	8.04						0.65	0.65					
7.4: Water bodies		0.02			0.02		0.02												
	Sub Total	7.07			7.07	1.00	8.06						0.65	0.65					
Grand Total		9578.81		170.67	9749.47	977.09	10726.56	6038.17	4.27			7.09	697.93	6747.46	19.91	210.59	385.58	616.09	

Note: Totals may not match due to rounding off.

## Land Use Land Cover (LULC) Change Matrix

(Area in Sq. Km)

LULC_CLASSES			UTTARAKHAND														
			2011-12														
			4: Forest					5: Grass / Grazing	6:Snow and Glacier	7: Wet lands / Water bodies				Sub Total	Grand Total		
			4.1	4.2	4.3	4.4	4.5			Sub Total	5.1	6.1	7.1			7.2	7.3
2005-06	1: Agriculture	1.1: Crop land											18.88	7.91	26.80	9564.97	
		1.2: Current Shifting cultivation															
		1.3: Plantation											0.27		0.27	174.42	
		Farmland (FL) = 1.1+1.2+1.3											19.15	7.91	27.06	9739.39	
		1.4: Fallow											4.73	1.05	5.78	1014.59	
		Sub Total											23.88	8.96	32.84	10753.99	
	2:Barren/unculturable/ Wastelands	2.1: Barren Rocky							16.17	20.67				0.09		0.09	3123.14
		2.2:Gullied / Ravinous Land															4.27
		2.3: Rann															
		2.4: Salt Affected Land															
		2.5: Sandy Area															7.09
		2.6: Scrub Land												2.25	0.42	2.68	681.15
		Sub Total							16.17	20.67				2.35	0.42	2.77	3815.64
	3: Builtup	3.1: Mining															19.61
		3.2: Rural															210.31
		3.3: Urban															382.59
		Sub Total															612.50
	4: Forest	4.1: Deciduous	6564.19	0.55		0.08		6564.81						2.74	2.96	5.69	6570.88
		4.2: Evergreen/Semi evergreen		16130.40				16130.40		0.26				0.43	1.71	2.14	16132.86
		4.3: Forest Plantation			803.13	1.39		804.52						0.39		0.39	804.91
		4.4: Scrub Forest	0.01			2327.08		2327.09						2.74	0.37	3.11	2330.20
		4.5: Swamp / Mangroves					8.83	8.83									8.83
		Sub Total	6564.20	16130.95	803.13	2328.55	8.83	25835.66		0.26				6.30	5.03	11.34	25847.69
	5: Grass / Grazing	5.1: Grass / Grazing							4146.72	3.76							4150.58
	6:Snow and Glacier	6.1: Snow and Glacier							248.86	3846.22							7066.26
	7: Wet lands / Water bodies	7.1: Inland Wetland									0.05					0.05	0.05
7.2: Coastal Wetland																	
7.3: River/Stream/Canals												1040.26	5.22	1045.48	1054.16		
7.4: Water bodies													182.10	182.10	182.13		
	Sub Total									0.05		1040.26	187.32	1227.64	1236.35		
Grand Total		6564.20	16130.95	803.13	2328.55	8.83	25835.66	4411.75	3870.91	0.05		1072.80	201.73	1274.58	53483.00		

Note: Totals may not match due to rounding off.



## Land Use Land Cover (LULC) Change Matrix

(Area in Sq. Km)

LULC_CLASSES			WEST BENGAL																
			2011-12																
			1: Agriculture					2:Barren/unculturable/ Wastelands						3: Builtup					
			1.1	1.2	1.3	FL	1.4	Sub Total	2.1	2.2	2.3	2.4	2.5	2.6	Sub Total	3.1	3.2	3.3	Sub Total
2005-06	1: Agriculture	1.1: Crop land	51448.49		100.14	51548.63	0.33	51548.96				0.52	2.38	2.27	5.17	44.70	4.76	116.84	166.29
		1.2: Current Shifting cultivation																	
		1.3: Plantation	0.18		2392.50	2392.68		2392.68								0.04	2.69	3.32	6.05
		Farmland (FL) = 1.1+1.2+1.3	51448.66		2492.64	53941.31	0.33	53941.64				0.52	2.38	2.27	5.17	44.73	7.45	120.16	172.34
		1.4: Fallow	78.60		0.25	78.86	41.46	120.32					2.28	1.52	3.80	1.96	0.18	1.80	3.93
		Sub Total	51527.26		2492.90	54020.16	41.79	54061.96				0.52	4.66	3.79	8.97	46.69	7.63	121.96	176.27
	2:Barren/unculturable / Wastelands	2.1: Barren Rocky							57.79						57.79	1.92		0.09	2.00
		2.2:Gullied / Ravinous Land	0.04			0.04		0.04		18.47					18.47			0.42	0.42
		2.3: Rann																	
		2.4: Salt Affected Land										0.18			0.18				
		2.5: Sandy Area	10.54		0.35	10.89		10.89					17.45	4.22	21.67	0.37	0.30		0.67
		2.6: Scrub Land	6.68		1.08	7.76		7.76						1411.95	1411.95	11.82	0.21	9.94	21.97
		Sub Total	17.26		1.43	18.69		18.69	57.79	18.47		0.18	17.45	1416.18	1510.05	14.11	0.51	10.45	25.07
	3: Builtup	3.1: Mining														182.19			182.19
		3.2: Rural														0.07	13227.82	2.86	13230.75
		3.3: Urban														0.18		2224.69	2224.87
		Sub Total														182.44	13227.82	2227.54	15637.81
	4: Forest	4.1: Deciduous	1.54			1.54		1.54	0.13				0.16		0.28	1.94	0.29	2.29	4.52
		4.2: Evergreen/Semi evergreen																	
		4.3: Forest Plantation																0.10	0.10
		4.4: Scrub Forest														0.85		0.64	1.49
		4.5: Swamp / Mangroves											1.63		1.63	0.01			0.01
		Sub Total	1.54			1.54		1.54	0.13				1.78		1.91	2.80	0.29	3.03	6.11
	5: Grass / Grazing	5.1: Grass / Grazing	22.99		2.55	25.55		25.55					0.27	12.14	12.41	0.47			0.47
	6:Snow and Glacier	6.1: Snow and Glacier																	
	7: Wet lands / Water bodies	7.1: Inland Wetland														0.06		3.35	3.41
		7.2: Coastal Wetland	0.04			0.04		0.04				0.15	0.30		0.45	0.09		0.11	0.20
		7.3: River/Stream/Canals	114.78		2.90	117.67	1.18	118.85					7.19	99.80	106.99	0.34	0.42	0.15	0.91
		7.4: Water bodies	0.70			0.70		0.70						0.70	0.70	4.01		0.38	4.39
		Sub Total	115.52		2.90	118.41	1.18	119.59				0.15	7.49	100.50	108.13	4.50	0.42	3.99	8.91
		Grand Total	51684.57		2499.78	54184.35	42.97	54227.32	57.92	18.47		0.84	31.65	1532.60	1641.47	251.00	13236.66	2366.97	15854.63

Note: Totals may not match due to rounding off.

## Land Use Land Cover (LULC) Change Matrix

(Area in Sq. Km)

LULC_CLASSES			WEST BENGAL													
			2011-12													
			4: Forest					5: Grass / Grazing	6: Snow and Glacier	7: Wet lands / Water bodies				Sub Total	Grand Total	
			4.1	4.2	4.3	4.4	4.5			Sub Total	5.1	6.1	7.1			7.2
2005-06	1: Agriculture	1.1: Crop land	13.38					13.38	0.52		0.19	0.52	100.09	157.45	258.26	51992.58
		1.2: Current Shifting cultivation														
		1.3: Plantation							0.28				4.82		4.82	2403.82
		Farmland (FL) = 1.1+1.2+1.3	13.38					13.38	0.80		0.19	0.52	104.91	157.45	263.08	54396.40
		1.4: Fallow	1.45					1.45	1.31				23.12	0.20	23.32	154.13
		Sub Total	14.83					14.83	2.11		0.19	0.52	128.03	157.65	286.40	54550.53
	2: Barren/unculturable / Wastelands	2.1: Barren Rocky	1.79					1.79					0.04		0.04	61.63
		2.2: Gullied / Ravinous Land	0.15					0.15								19.07
		2.3: Rann														
		2.4: Salt Affected Land														0.18
		2.5: Sandy Area	0.53		0.01		0.14	0.67	0.37			0.68	5.92	0.02	6.62	40.89
		2.6: Scrub Land	71.81					71.81					2.25		2.25	1515.74
		Sub Total	74.28		0.01		0.14	74.42	0.37			0.68	8.21	0.02	8.91	1637.51
	3: Builtup	3.1: Mining											0.28		0.28	182.47
		3.2: Rural											4.20		4.20	13234.94
		3.3: Urban	0.03					0.03					0.11		0.11	2225.01
		Sub Total	0.03					0.03					4.59		4.59	15642.42
	4: Forest	4.1: Deciduous	6224.59	0.32	18.60	40.97		6284.48				0.09	17.95	0.17	18.20	6309.03
		4.2: Evergreen/Semi evergreen		197.50				197.50					0.01		0.01	197.51
		4.3: Forest Plantation			647.05	5.22		652.27								652.37
		4.4: Scrub Forest	3.40		88.97	486.26		578.64					1.29	0.03	1.32	581.45
		4.5: Swamp / Mangroves					2470.75	2470.75			0.25	2.26	18.18	0.28	20.97	2493.35
		Sub Total	6228.00	197.82	754.62	532.45	2470.75	10183.65			0.25	2.36	37.43	0.47	40.50	10233.71
	5: Grass / Grazing	5.1: Grass / Grazing	1.07					1.07	71.49				32.58	1.62	34.20	145.19
	6: Snow and Glacier	6.1: Snow and Glacier														
	7: Wet lands / Water bodies	7.1: Inland Wetland									363.71		0.13		363.85	367.26
		7.2: Coastal Wetland					12.05	12.05				497.25	1.26	0.86	499.37	512.11
7.3: River/Stream/Canals		6.76		0.57	5.23	4.53	17.09	35.55		1.58	5.89	4298.75	0.22	4306.44	4585.83	
7.4: Water bodies						0.37	0.37					0.34	1070.83	1071.17	1077.33	
	Sub Total	6.76		0.57	5.23	16.95	29.52	35.55		365.29	503.14	4300.49	1071.91	6240.83	6542.53	
Grand Total										365.74	506.70	4511.33	1231.67	6615.43	88751.89	

Note: Totals may not match due to rounding off.

## Land Use Land Cover (LULC) Change Matrix

(Area in Sq. Km)

LULC_CLASSES			ANDAMAN & NICOBAR ISLANDS																	
			2011-12																	
			1: Agriculture							2:Barren/unculturable/ Wastelands							3: Builtup			
			1.1	1.2	1.3	FL	1.4	Sub Total	2.1	2.2	2.3	2.4	2.5	2.6	Sub Total	3.1	3.2	3.3	Sub Total	
2005-06	1: Agriculture	1.1: Crop land	317.25			317.25		317.25												
		1.2: Current Shifting cultivation																		
		1.3: Plantation			73.75	73.75		73.75												
		Farmland (FL) = 1.1+1.2+1.3	317.25		73.75	391.00		391.00												
		1.4: Fallow																		
		Sub Total	317.25		73.75	391.00		391.00												
	2:Barren/unculturable/ Wastelands	2.1: Barren Rocky																		
		2.2:Gullied / Ravinous Land																		
		2.3: Rann																		
		2.4: Salt Affected Land																		
		2.5: Sandy Area										7.50		7.50						
		2.6: Scrub Land											1.09	1.09						
		Sub Total										7.50	1.09	8.59						
	3: Builtup	3.1: Mining																		
		3.2: Rural															1.44		1.44	
		3.3: Urban																63.92	63.92	
		Sub Total															1.44	63.92	65.36	
	4: Forest	4.1: Deciduous																		
		4.2: Evergreen/Semi evergreen	0.08			0.08		0.08												
		4.3: Forest Plantation																		
		4.4: Scrub Forest																		
		4.5: Swamp / Mangroves	1.17			1.17		1.17												
		Sub Total	1.25			1.25		1.25												
	5: Grass / Grazing	5.1: Grass / Grazing																		
	6:Snow and Glacier	6.1: Snow and Glacier																		
	7: Wet lands / Water bodies	7.1: Inland Wetland																		
		7.2: Coastal Wetland																		
7.3: River/Stream/Canals																				
7.4: Water bodies																				
	Sub Total																			
Grand Total		318.50		73.75	392.25		392.25					7.50	1.09	8.59		1.44	63.92	65.36		

Note: Totals may not match due to rounding off.

## Land Use Land Cover (LULC) Change Matrix

(Area in Sq. Km)

LULC_CLASSES			ANDAMAN & NICOBAR ISLANDS													
			2011-12													
			4: Forest					Sub Total	5: Grass / Grazing	6:Snow and Glacier	7: Wet lands / Water bodies				Sub Total	Grand Total
			4.1	4.2	4.3	4.4	4.5				7.1	7.2	7.3	7.4		
2005-06	1: Agriculture	1.1: Crop land														317.25
		1.2: Current Shifting cultivation														
		1.3: Plantation														73.75
		Farmland (FL) = 1.1+1.2+1.3														391.00
		1.4: Fallow														
		Sub Total														391.00
	2:Barren/unculturable/ Wastelands	2.1: Barren Rocky														
		2.2:Gullied / Ravinous Land														
		2.3: Rann														
		2.4: Salt Affected Land														
		2.5: Sandy Area														7.50
		2.6: Scrub Land														1.09
		Sub Total														8.59
	3: Builtup	3.1: Mining														
		3.2: Rural														1.44
		3.3: Urban														63.92
		Sub Total														65.36
	4: Forest	4.1: Deciduous	1391.84	3.63		0.15		1395.62								1395.62
		4.2: Evergreen/Semi evergreen		5096.83				5096.83								5096.91
		4.3: Forest Plantation														
		4.4: Scrub Forest				272.80		272.80				0.65			0.65	273.45
		4.5: Swamp / Mangroves					820.88	820.88				0.06			0.06	822.10
		Sub Total	1391.84	5100.46		272.94	820.88	7586.12				0.71			0.71	7588.09
	5: Grass / Grazing	5.1: Grass / Grazing														
	6:Snow and Glacier	6.1: Snow and Glacier														
	7: Wet lands / Water bodies	7.1: Inland Wetland									18.86				18.86	18.86
7.2: Coastal Wetland											114.10			114.10	114.10	
7.3: River/Stream/Canals												55.96		55.96	55.96	
7.4: Water bodies											0.25		6.80	7.05	7.05	
	Sub Total									18.86	114.34	55.96	6.80	195.96	195.96	
	Grand Total	1391.84	5100.46		272.94	820.88	7586.12			18.86	115.05	55.96	6.80	196.68	8249.00	

Note: Totals may not match due to rounding off.

## Land Use Land Cover (LULC) Change Matrix

(Area in Sq. Km)

LULC_CLASSES			CHANDIGARH																
			2011-12																
			1: Agriculture				Sub Total	2:Barren/unculturable/ Wastelands						Sub Total	3: Builtup			Sub Total	
			1.1	1.2	1.3	FL		1.4	2.1	2.2	2.3	2.4	2.5		2.6	3.1	3.2		3.3
2005-06	1: Agriculture	1.1: Crop land	12.85		0.09	12.95	0.18	13.12						0.10	0.10		0.11	0.57	0.68
		1.2: Current Shifting cultivation																	
		1.3: Plantation			0.93	0.93		0.93											
		Farmland (FL) = 1.1+1.2+1.3	12.85		1.02	13.87	0.18	14.05					0.10	0.10		0.11	0.57	0.68	
		1.4: Fallow					0.90	0.90					0.11	0.11			2.81	2.81	
		Sub Total	12.85		1.02	13.87	1.08	14.96						0.21	0.21		0.11	3.38	3.49
	2:Barren/unculturable/ Wastelands	2.1: Barren Rocky																	
		2.2:Gullied / Ravinous Land								0.07					0.07				
		2.3: Rann																	
		2.4: Salt Affected Land																	
		2.5: Sandy Area																	
		2.6: Scrub Land											1.02	1.02			0.07	0.07	
		Sub Total								0.07				1.02	1.09			0.07	0.07
	3: Builtup	3.1: Mining											0.12	0.12					
		3.2: Rural															2.79		2.79
		3.3: Urban																80.23	80.23
		Sub Total											0.12	0.12		2.79	80.23	83.02	
	4: Forest	4.1: Deciduous																0.16	0.16
		4.2: Evergreen/Semi evergreen																	
		4.3: Forest Plantation																	
		4.4: Scrub Forest																	
		4.5: Swamp / Mangroves																	
		Sub Total															0.16	0.16	
	5: Grass / Grazing	5.1: Grass / Grazing																	
	6:Snow and Glacier	6.1: Snow and Glacier																	
7: Wet lands / Water bodies	7.1: Inland Wetland																		
	7.2: Coastal Wetland																		
	7.3: River/Stream/Canals																		
	7.4: Water bodies																		
	Sub Total																		
Grand Total			12.85		1.02	13.87	1.08	14.96		0.07				1.35	1.42		2.90	83.85	86.75

Note: Totals may not match due to rounding off.

## Land Use Land Cover (LULC) Change Matrix

(Area in Sq. Km)

LULC_CLASSES			CHANDIGARH													
			2011-12													
			4: Forest					5: Grass / Grazing	6:Snow and Glacier	7: Wet lands / Water bodies				Sub Total	Grand Total	
			4.1	4.2	4.3	4.4	4.5			Sub Total	5.1	6.1	7.1			7.2
2005-06	1: Agriculture	1.1: Crop land														13.91
		1.2: Current Shifting cultivation														
		1.3: Plantation														0.93
		Farmland (FL) = 1.1+1.2+1.3														14.84
		1.4: Fallow														3.82
		Sub Total														18.65
	2:Barren/unculturable/ Wastelands	2.1: Barren Rocky														
		2.2:Gullied / Ravinous Land														0.07
		2.3: Rann														
		2.4: Salt Affected Land														
		2.5: Sandy Area														
		2.6: Scrub Land												0.09	0.09	1.18
		Sub Total												0.09	0.09	1.25
	3: Builtup	3.1: Mining														0.12
		3.2: Rural														2.79
		3.3: Urban														80.23
		Sub Total														83.15
	4: Forest	4.1: Deciduous	8.59					8.59								8.75
		4.2: Evergreen/Semi evergreen														
		4.3: Forest Plantation														
		4.4: Scrub Forest														
		4.5: Swamp / Mangroves														
		Sub Total	8.59					8.59								8.75
	5: Grass / Grazing	5.1: Grass / Grazing														
	6:Snow and Glacier	6.1: Snow and Glacier														
	7: Wet lands / Water bodies	7.1: Inland Wetland									0.02				0.02	0.02
7.2: Coastal Wetland																
7.3: River/Stream/Canals												0.75		0.75	0.75	
7.4: Water bodies													1.43	1.43	1.43	
	Sub Total									0.02		0.75	1.43	2.19	2.19	
	Grand Total		8.59				8.59			0.02		0.75	1.52	2.28	114.00	

Note: Totals may not match due to rounding off.

## Land Use Land Cover (LULC) Change Matrix

(Area in Sq. Km)

LULC_CLASSES			DADRA & NAGAR HAVELI																	
			2011-12																	
			1: Agriculture					Sub Total	2:Barren/unculturable/ Wastelands						Sub Total	3: Builtup			Sub Total	
									1.1	1.2	1.3	FL	1.4	2.1		2.2	2.3	2.4		2.5
2005-06	1: Agriculture	1.1: Crop land	112.51			112.51		112.51										1.21	7.03	8.24
		1.2: Current Shifting cultivation																		
		1.3: Plantation			15.31	15.31		15.31									0.11		0.74	0.84
		Farmland (FL) = 1.1+1.2+1.3	112.51		15.31	127.82		127.82								0.11	1.21	7.76	9.08	
		1.4: Fallow					89.93	89.93											1.52	1.52
		Sub Total	112.51		15.31	127.82	89.93	217.75								0.11	1.21	9.29	10.61	
	2:Barren/unculturable/ Wastelands	2.1: Barren Rocky																		
		2.2:Gullied / Ravinous Land																		
		2.3: Rann																		
		2.4: Salt Affected Land																		
		2.5: Sandy Area																		
		2.6: Scrub Land												42.36	42.36			0.86	0.86	
		Sub Total												42.36	42.36			0.86	0.86	
	3: Builtup	3.1: Mining														0.86				0.86
		3.2: Rural															0.52			0.52
		3.3: Urban																20.67	20.67	
		Sub Total														0.86	0.52	20.67	22.06	
	4: Forest	4.1: Deciduous																	0.03	0.03
		4.2: Evergreen/Semi evergreen																		
		4.3: Forest Plantation																		
		4.4: Scrub Forest																		
		4.5: Swamp / Mangroves																		
		Sub Total																0.03	0.03	
	5: Grass / Grazing	5.1: Grass / Grazing																		
	6:Snow and Glacier	6.1: Snow and Glacier																		
	7: Wet lands / Water bodies	7.1: Inland Wetland																		
7.2: Coastal Wetland																				
7.3: River/Stream/Canals																				
7.4: Water bodies															0.06			0.06		
	Sub Total														0.06			0.06		
	Grand Total		112.51	15.31	127.82	89.93	217.75						42.36	42.36	1.03	1.74	30.86	33.63		

Note: Totals may not match due to rounding off.

## Land Use Land Cover (LULC) Change Matrix

(Area in Sq. Km)

LULC_CLASSES			DADRA & NAGAR HAVELI													
			2011-12													
			4: Forest					5: Grass / Grazing	6:Snow and Glacier	7: Wet lands / Water bodies					Grand Total	
			4.1	4.2	4.3	4.4	4.5	Sub Total	5.1	6.1	7.1	7.2	7.3	7.4	Sub Total	
2005-06	1: Agriculture	1.1: Crop land														120.75
		1.2: Current Shifting cultivation														
		1.3: Plantation														16.15
		Farmland (FL) = 1.1+1.2+1.3														136.90
		1.4: Fallow				0.05	0.05									91.51
		Sub Total				0.05	0.05								228.40	
	2:Barren/unculturable/ Wastelands	2.1: Barren Rocky														
		2.2:Gullied / Ravinous Land														
		2.3: Rann														
		2.4: Salt Affected Land														
		2.5: Sandy Area														
		2.6: Scrub Land														43.22
		Sub Total														43.22
	3: Builtup	3.1: Mining														0.86
		3.2: Rural														0.52
		3.3: Urban														20.67
		Sub Total														22.06
	4: Forest	4.1: Deciduous	118.51	0.52				119.03								119.07
		4.2: Evergreen/Semi evergreen		6.33		0.54		6.87								6.87
		4.3: Forest Plantation														
		4.4: Scrub Forest				50.44		50.44								50.44
		4.5: Swamp / Mangroves														
		Sub Total	118.51	6.85		50.98		176.34								176.38
	5: Grass / Grazing	5.1: Grass / Grazing														
	6:Snow and Glacier	6.1: Snow and Glacier														
7: Wet lands / Water bodies	7.1: Inland Wetland															
	7.2: Coastal Wetland															
	7.3: River/Stream/Canals										8.05		8.05	8.05		
	7.4: Water bodies											12.82	12.82	12.88		
	Sub Total										8.05	12.82	20.87	20.94		
	Grand Total	118.51	6.85		51.03		176.39				8.05	12.82	20.87	491.00		

Note: Totals may not match due to rounding off.



## Land Use Land Cover (LULC) Change Matrix

(Area in Sq. Km)

LULC_CLASSES			DAMAN & DIU																
			2011-12																
			1: Agriculture					Sub Total	2:Barren/unculturable/ Wastelands						Sub Total	3: Builtup			Sub Total
									1.1	1.2	1.3	FL	1.4	2.1		2.2	2.3	2.4	
2005-06	1: Agriculture	1.1: Crop land	37.67			37.67		37.67										0.04	0.04
		1.2: Current Shifting cultivation																	
		1.3: Plantation			9.03	9.03		9.03											
		Farmland (FL) = 1.1+1.2+1.3	37.67		9.03	46.70		46.70										0.04	0.04
		1.4: Fallow					10.62	10.62											
		Sub Total	37.67		9.03	46.70	10.62	57.32										0.04	0.04
	2:Barren/unculturable/ Wastelands	2.1: Barren Rocky																	
		2.2:Gullied / Ravinous Land								0.40						0.40			
		2.3: Rann																	
		2.4: Salt Affected Land										0.92			0.92				
		2.5: Sandy Area																	
		2.6: Scrub Land												7.37	7.37				
		Sub Total								0.40		0.92		7.37	8.69				
	3: Builtup	3.1: Mining															1.01		1.01
		3.2: Rural																0.78	0.78
		3.3: Urban																20.61	20.61
		Sub Total														1.01	0.78	20.61	22.39
	4: Forest	4.1: Deciduous																	
		4.2: Evergreen/Semi evergreen																	
		4.3: Forest Plantation																	
		4.4: Scrub Forest																	
		4.5: Swamp / Mangroves																	
		Sub Total																	
	5: Grass / Grazing	5.1: Grass / Grazing																	
	6:Snow and Glacier	6.1: Snow and Glacier																	
	7: Wet lands / Water bodies	7.1: Inland Wetland																	
		7.2: Coastal Wetland																	
7.3: River/Stream/Canals																			
7.4: Water bodies																			
	Sub Total																		
	Grand Total	37.67		9.03	46.70	10.62	57.32		0.40		0.92		7.37	8.69	1.01	0.78	20.65	22.43	

Note: Totals may not match due to rounding off.

## Land Use Land Cover (LULC) Change Matrix

(Area in Sq. Km)

LULC_CLASSES			DAMAN & DIU													
			2011-12													
			4: Forest					5: Grass / Grazing	6:Snow and Glacier	7: Wet lands / Water bodies					Grand Total	
			4.1	4.2	4.3	4.4	4.5	Sub Total	5.1	6.1	7.1	7.2	7.3	7.4	Sub Total	
2005-06	1: Agriculture	1.1: Crop land														37.71
		1.2: Current Shifting cultivation														
		1.3: Plantation														9.03
		Farmland (FL) = 1.1+1.2+1.3														46.74
		1.4: Fallow														10.62
		Sub Total														57.36
	2:Barren/unculturable/ Wastelands	2.1: Barren Rocky														
		2.2:Gullied / Ravinous Land														0.40
		2.3: Rann														
		2.4: Salt Affected Land														0.92
		2.5: Sandy Area														
		2.6: Scrub Land														7.37
		Sub Total														8.69
	3: Builtup	3.1: Mining														1.01
		3.2: Rural														0.78
		3.3: Urban														20.61
		Sub Total														22.39
	4: Forest	4.1: Deciduous	1.07					1.07								1.07
		4.2: Evergreen/Semi evergreen														
		4.3: Forest Plantation														
		4.4: Scrub Forest														
		4.5: Swamp / Mangroves					0.89	0.89								0.89
		Sub Total	1.07				0.89	1.96								1.96
	5: Grass / Grazing	5.1: Grass / Grazing														
	6:Snow and Glacier	6.1: Snow and Glacier														
	7: Wet lands / Water bodies	7.1: Inland Wetland									8.25				8.25	8.25
		7.2: Coastal Wetland										8.29			8.29	8.29
7.3: River/Stream/Canals												4.51		4.51	4.51	
7.4: Water bodies													0.55	0.55	0.55	
	Sub Total									8.25	8.29	4.51	0.55	21.59	21.59	
	Grand Total	1.07				0.89	1.96			8.25	8.29	4.51	0.55	21.59	112.00	

Note: Totals may not match due to rounding off.

## Land Use Land Cover (LULC) Change Matrix

(Area in Sq. Km)

LULC_CLASSES			DELHI															
			2011-12															
			1: Agriculture				Sub Total	2:Barren/unculturable/ Wastelands						Sub Total	3: Builtup			Sub Total
			1.1	1.2	1.3	FL		2.1	2.2	2.3	2.4	2.5	2.6		3.1	3.2	3.3	
2005-06	1: Agriculture	1.1: Crop land	451.62		12.45	464.08	0.70	464.78								0.79	2.03	2.83
		1.2: Current Shifting cultivation																
		1.3: Plantation			2.43	2.43		2.43										
		Farmland (FL) = 1.1+1.2+1.3	451.62		14.89	466.51	0.70	467.21								0.79	2.03	2.83
		1.4: Fallow	0.71		0.84	1.56	75.98	77.53									12.28	12.28
		Sub Total	452.34		15.73	468.07	76.68	544.75								0.79	14.31	15.11
	2:Barren/unculturable/ Wastelands	2.1: Barren Rocky						0.10						0.10				
		2.2:Gullied / Ravinous Land							6.06					6.06			0.69	0.69
		2.3: Rann																
		2.4: Salt Affected Land									0.15			0.15				
		2.5: Sandy Area																
		2.6: Scrub Land											62.24	62.24			3.27	3.27
		Sub Total						0.10	6.06		0.15		62.24	68.55			3.96	3.96
	3: Builtup	3.1: Mining			0.22	0.22		0.22							0.67			0.67
		3.2: Rural														49.90		49.90
		3.3: Urban															735.97	735.97
		Sub Total			0.22	0.22		0.22							0.67	49.90	735.97	786.55
	4: Forest	4.1: Deciduous																
		4.2: Evergreen/Semi evergreen																
		4.3: Forest Plantation																
		4.4: Scrub Forest																
		4.5: Swamp / Mangroves																
		Sub Total																
	5: Grass / Grazing	5.1: Grass / Grazing																
	6:Snow and Glacier	6.1: Snow and Glacier																
	7: Wet lands / Water bodies	7.1: Inland Wetland	0.11			0.11		0.11										
		7.2: Coastal Wetland																
		7.3: River/Stream/Canals																
		7.4: Water bodies																
		Sub Total	0.11			0.11		0.11										
	Grand Total		452.45		15.95	468.39	76.68	545.07	0.10	6.06		0.15	62.24	68.55	0.67	50.70	754.25	805.62

Note: Totals may not match due to rounding off.

## Land Use Land Cover (LULC) Change Matrix

(Area in Sq. Km)

LULC_CLASSES			DELHI													
			2011-12													
			4: Forest					5: Grass / Grazing	6: Snow and Glacier	7: Wet lands / Water bodies					Grand Total	
			4.1	4.2	4.3	4.4	4.5	Sub Total	5.1	6.1	7.1	7.2	7.3	7.4	Sub Total	
2005-06	1: Agriculture	1.1: Crop land											1.79		1.79	469.40
		1.2: Current Shifting cultivation														
		1.3: Plantation														2.43
		Farmland (FL) = 1.1+1.2+1.3										1.79		1.79		471.83
		1.4: Fallow	1.50					1.50				0.23		0.23		91.54
		Sub Total	1.50					1.50				2.02		2.02		563.37
	2: Barren/unculturable/ Wastelands	2.1: Barren Rocky														0.10
		2.2: Gullied / Ravinous Land														6.75
		2.3: Rann														
		2.4: Salt Affected Land														0.15
		2.5: Sandy Area														
		2.6: Scrub Land														65.51
		Sub Total														72.52
	3: Builtup	3.1: Mining														0.89
		3.2: Rural														49.90
		3.3: Urban														735.97
		Sub Total														786.76
	4: Forest	4.1: Deciduous	9.09					9.09								9.09
		4.2: Evergreen/Semi evergreen														
		4.3: Forest Plantation			0.38			0.38								0.38
		4.4: Scrub Forest				12.06		12.06								12.06
		4.5: Swamp / Mangroves														
		Sub Total	9.09		0.38	12.06		21.53								21.53
	5: Grass / Grazing	5.1: Grass / Grazing							5.70		0.11		0.42		0.53	6.23
	6: Snow and Glacier	6.1: Snow and Glacier														
	7: Wet lands / Water bodies	7.1: Inland Wetland									3.99				3.99	4.10
		7.2: Coastal Wetland														
7.3: River/Stream/Canals											24.70		24.70		24.70	
7.4: Water bodies												3.78	3.78			
	Sub Total									3.99		24.70	3.78	32.48	32.59	
	Grand Total	10.59		0.38	12.06		23.03	5.70		4.10		27.14	3.78	35.03	1483.00	

Note: Totals may not match due to rounding off.

## Land Use Land Cover (LULC) Change Matrix

(Area in Sq. Km)

LULC_CLASSES			LAKSHADWEEP																
			2011-12																
			1: Agriculture					Sub Total	2:Barren/unculturable/ Wastelands						Sub Total	3: Builtup			Sub Total
									2.1	2.2	2.3	2.4	2.5	2.6		3.1	3.2	3.3	
1.1	1.2	1.3	FL	1.4	Sub Total	2.1	2.2	2.3	2.4	2.5	2.6	Sub Total	3.1	3.2	3.3	Sub Total			
2005-06	1: Agriculture	1.1: Crop land																	
		1.2: Current Shifting cultivation																	
		1.3: Plantation																	
		Farmland (FL) = 1.1+1.2+1.3																	
		1.4: Fallow																	
		Sub Total																	
	2:Barren/unculturable/ Wastelands	2.1: Barren Rocky																	
		2.2:Gullied / Ravinous Land																	
		2.3: Rann																	
		2.4: Salt Affected Land																	
		2.5: Sandy Area																	
		2.6: Scrub Land																	
		Sub Total																	
	3: Builtup	3.1: Mining																	
		3.2: Rural														0.00		0.00	
		3.3: Urban															0.46	0.46	
		Sub Total														0.00	0.46	0.46	
	4: Forest	4.1: Deciduous																	
		4.2: Evergreen/Semi evergreen																	
		4.3: Forest Plantation																	
		4.4: Scrub Forest																	
		4.5: Swamp / Mangroves																	
		Sub Total																	
	5: Grass / Grazing	5.1: Grass / Grazing																	
	6:Snow and Glacier	6.1: Snow and Glacier																	
7: Wet lands / Water bodies	7.1: Inland Wetland																		
	7.2: Coastal Wetland																		
	7.3: River/Stream/Canals																		
	7.4: Water bodies																		
	Sub Total																		
	Grand Total															0.00	0.46	0.46	

Note: Totals may not match due to rounding off.

## Land Use Land Cover (LULC) Change Matrix

(Area in Sq. Km)

LULC_CLASSES			LAKSHADWEEP													
			2011-12													
			4: Forest					5: Grass / Grazing	6:Snow and Glacier	7: Wet lands / Water bodies					Grand Total	
			4.1	4.2	4.3	4.4	4.5	Sub Total	5.1	6.1	7.1	7.2	7.3	7.4	Sub Total	
2005-06	1: Agriculture	1.1: Crop land														
		1.2: Current Shifting cultivation														
		1.3: Plantation														
		Farmland (FL) = 1.1+1.2+1.3														
		1.4: Fallow														
		Sub Total														
	2:Barren/unculturable/ Wastelands	2.1: Barren Rocky														
		2.2:Gullied / Ravinous Land														
		2.3: Rann														
		2.4: Salt Affected Land														
		2.5: Sandy Area														
		2.6: Scrub Land														
		Sub Total														
	3: Builtup	3.1: Mining														
		3.2: Rural														0.00
		3.3: Urban														0.46
		Sub Total														0.46
	4: Forest	4.1: Deciduous														
		4.2: Evergreen/Semi evergreen														
		4.3: Forest Plantation														
		4.4: Scrub Forest														
		4.5: Swamp / Mangroves														
		Sub Total														
	5: Grass / Grazing	5.1: Grass / Grazing														
	6:Snow and Glacier	6.1: Snow and Glacier														
	7: Wet lands / Water bodies	7.1: Inland Wetland														
		7.2: Coastal Wetland										31.54			31.54	31.54
7.3: River/Stream/Canals																
7.4: Water bodies													0.00	0.00	0.00	
	Sub Total										31.54		0.00	31.54	31.54	
Grand Total											31.54		0.00	31.54	32.00	

Note: Totals may not match due to rounding off.

## Land Use Land Cover (LULC) Change Matrix

(Area in Sq. Km)

LULC_CLASSES			PUDUCHERRY																
			2011-12																
			1: Agriculture					Sub Total	2:Barren/unculturable/ Wastelands						Sub Total	3: Builtup			Sub Total
									1.1	1.2	1.3	FL	1.4	2.1		2.2	2.3	2.4	
2005-06	1: Agriculture	1.1: Crop land	234.99			234.99	0.61	235.60									0.05	0.41	0.46
		1.2: Current Shifting cultivation																	
		1.3: Plantation			21.41	21.41		21.41										0.24	0.24
		Farmland (FL) = 1.1+1.2+1.3	234.99		21.41	256.39	0.61	257.01									0.05	0.65	0.70
		1.4: Fallow					65.83	65.83						0.05	0.05			1.76	1.76
		Sub Total	234.99		21.41	256.39	66.45	322.84						0.05	0.05		0.05	2.41	2.46
	2:Barren/unculturable/ Wastelands	2.1: Barren Rocky																	
		2.2:Gullied / Ravinous Land								0.04						0.04			
		2.3: Rann																	
		2.4: Salt Affected Land										0.10			0.10				
		2.5: Sandy Area											2.43		2.43				
		2.6: Scrub Land												8.19	8.19			0.09	0.09
		Sub Total								0.04		0.10	2.43	8.19	10.75			0.09	0.09
	3: Builtup	3.1: Mining															0.08		0.08
		3.2: Rural																34.70	34.70
		3.3: Urban																	67.44
		Sub Total														0.08	34.70	67.44	102.22
	4: Forest	4.1: Deciduous																	
		4.2: Evergreen/Semi evergreen																	
		4.3: Forest Plantation																	
		4.4: Scrub Forest																	
		4.5: Swamp / Mangroves																	
		Sub Total																	
	5: Grass / Grazing	5.1: Grass / Grazing																	
	6:Snow and Glacier	6.1: Snow and Glacier																	
	Wet lands / Water bodies	7.1: Inland Wetland																	
		7.2: Coastal Wetland																1.21	1.21
7.3: River/Stream/Canals																			
7.4: Water bodies		0.03			0.03		0.03											2.52	
	Sub Total	0.03			0.03		0.03										3.74	3.74	
	Grand Total		235.02		21.41	256.42	66.45	322.87		0.04		0.10	2.43	8.24	10.80	0.08	34.75	73.68	108.51

Note: Totals may not match due to rounding off.

## Land Use Land Cover (LULC) Change Matrix

(Area in Sq. Km)

LULC_CLASSES			PUDUCHERRY													
			2011-12													
			4: Forest					5: Grass / Grazing	6:Snow and Glacier	7: Wet lands / Water bodies					Grand Total	
			4.1	4.2	4.3	4.4	4.5	Sub Total	5.1	6.1	7.1	7.2	7.3	7.4	Sub Total	
2005-06	1: Agriculture	1.1: Crop land										0.21		0.15	0.37	236.43
		1.2: Current Shifting cultivation														
		1.3: Plantation														21.65
		Farmland (FL) = 1.1+1.2+1.3										0.21		0.15	0.37	258.08
		1.4: Fallow										0.18			0.18	67.82
		Sub Total										0.39		0.15	0.55	325.90
	2:Barren/unculturable/ Wastelands	2.1: Barren Rocky														
		2.2:Gullied / Ravinous Land														0.04
		2.3: Rann														
		2.4: Salt Affected Land														0.10
		2.5: Sandy Area														2.43
		2.6: Scrub Land									0.86				0.86	9.14
		Sub Total									0.86				0.86	11.70
	3: Builtup	3.1: Mining														0.08
		3.2: Rural														34.70
		3.3: Urban														67.44
		Sub Total														102.22
	4: Forest	4.1: Deciduous	0.17					0.17								0.17
		4.2: Evergreen/Semi evergreen														
		4.3: Forest Plantation			0.03			0.03								0.03
		4.4: Scrub Forest														
		4.5: Swamp / Mangroves					1.70	1.70								1.70
		Sub Total	0.17		0.03		1.70	1.90								1.90
	5: Grass / Grazing	5.1: Grass / Grazing														
	6:Snow and Glacier	6.1: Snow and Glacier														
	7: Wet lands / Water bodies	7.1: Inland Wetland									0.04				0.04	0.04
7.2: Coastal Wetland											7.06			7.06	8.28	
7.3: River/Stream/Canals												16.21		16.21	16.21	
7.4: Water bodies													23.19	23.19	25.75	
	Sub Total									0.04	7.06	16.21	23.19	46.51	50.28	
	Grand Total		0.17	0.03		1.70	1.90			0.90	7.46	16.21	23.34	47.92	492.00	

Note: Totals may not match due to rounding off.