

### Land-Use Total Area (Ha)

Land Use Type/Year	1989	1994	2001	2005	2012	2015	2020
Agricultural	76.616	81.8686	98.5404	119.6155	161.295	186.607	179.915
Bare Land	2.05796	2.15316	3.18075	2.67205	2.45343	3.63341	6.04719
Built Up	2.16517	2.8855	3.04070	3.06287	4.77002	5.96196	7.5536
Mangrove	161.702	138.3808	109.9866	94.991	82.5449	79.4564	73.0791
Sea Sand	12.0804	24.4145	19.3173	14.3433	17.7247	19.3532	19.4975
Terrestrial	195.384	197.90	211.936	211.151	179.618	150.559	159.739
Water Body	100.2082	102.612	104.212	104.378	101.808	104.643	104.382
Land-Use Total Area (Ha)	550.214	550.214	550.214	550.214	550.214	550.214	550.214

### Overall Accuracy Computations

#### A. 1989

Predict	Agricultural	Bare Land	Built Up	Mangrove	Sea Sand	Terrestrial	Water Body	Row Total	% Accuracy
Agricultural	27	2	1	3	2	1	0	36	75
Bare Land	0	9	3	0	0	0	0	12	75
Built Up	0	1	12	0	0	0	0	13	92.3
Mangrove	5	2	0	40	1	0	7	55	72.7
Sea Sand	0	1	0	0	17	0	0	18	94.4
Terrestrial	3	3	3	3	1	26	1	40	65
Water Body	0	0	0	0	2	0	26	28	92.9
Column Total	35	18	19	46	23	27	34	202	77.7

#### B. 1994

Predict	Agricultural	Bare Land	Built Up	Mangrove	Sea Sand	Terrestrial	Water Body	Row Total	% Accuracy
Agricultural	30	2	1	2	2	1	0	38	78.9
Bare Land	0	17	3	2	3	0	1	26	65.4
Built Up	0	1	19	0	0	5	0	25	76
Mangrove	5	2	0	46	1	0	5	59	78
Sea Sand	0	3	0	0	23	0	0	26	88.5
Terrestrial	3	3	2	3	1	31	1	44	70.6
Water Body	0	0	0	1	2	0	34	37	91.9
Column Total	38	28	25	54	32	37	41	255	78.4

**C. 2001**

Predict	Agricultural	Bare Land	Built Up	Mangrove	Sea Sand	Terrestrial	Water Body	Row Total	% Accuracy
Agricultural	24	0	1	2	2	1	1	31	77.4
Bare Land	1	15	1	1	2	1	1	22	68.2
Built Up	0	1	20	0	0	4	3	28	71.4
Mangrove	2	2	0	53	1	1	0	59	89.8
Sea Sand	0	1	1	0	19	0	0	21	90.5
Terrestrial	3	5	2	3	1	30	1	45	66.7
Water Body	0	0	0	1	2	0	35	38	92.1
Column Total	30	24	25	60	27	37	41	244	80.3

**D. 2005**

Predict	Agricultural	Bare Land	Built Up	Mangrove	Sea Sand	Terrestrial	Water Body	Row Total	% Accuracy
Agricultural	26	0	1	2	0	1	1	31	83.9
Bare Land	1	13	1	1	2	1	0	19	68.4
Built Up	0	1	23	0	0	2	3	29	79.3
Mangrove	2	2	0	36	1	1	2	44	81.8
Sea Sand	1	1	3	0	21	0	0	26	80.8
Terrestrial	3	2	1	3	1	25	1	36	69.4
Water Body	1	0	0	1	2	0	31	35	88.6
Column Total	34	19	29	43	27	30	38	220	79.5

**E. 2012**

Predict	Agricultural	Bare Land	Built Up	Mangrove	Sea Sand	Terrestrial	Water Body	Row Total	% Accuracy
Agricultural	19	0	4	2	0	0	1	26	73.1
Bare Land	1	9	1	1	2	1	0	15	60
Built Up	0	1	17	0	1	2	2	23	73.9
Mangrove	2	2	0	23	1	1	2	31	74.2
Sea Sand	5	1	1	0	28	0	0	35	80
Terrestrial	0	2	0	3	1	25	1	32	78.1
Water Body	1	1	0	1	2	0	22	27	81.5
Column Total	28	16	23	30	35	29	28	189	75.7

**F. 2015**

Predict	Agricultural	Bare Land	Built Up	Mangrove	Sea Sand	Terrestrial	Water Body	Row Total	% Accuracy
Agricultural	21	0	2	2	3	1	0	29	72.4
Bare Land	1	29	1	1	2	3	4	41	70.7
Built Up	2	1	37	4	1	3	1	49	75.5
Mangrove	1	2	0	42	1	1	2	49	85.7
Sea Sand	1	1	1	0	33	0	1	37	89.2
Terrestrial	0	2	1	2	1	23	1	30	76.7
Water Body	1	1	0	1	2	0	36	41	87.8
Column Total	27	36	42	52	43	31	45	276	80.1

#### G. 2020

Predict	Agricultural	Bare Land	Built Up	Mangrove	Sea Sand	Terrestrial	Water Body	Row Total	% Accuracy
Agricultural	41	2	2	2	3	1	3	54	75.9
Bare Land	1	33	1	6	2	3	1	47	70.2
Built Up	2	1	38	4	6	3	1	55	69.1
Mangrove	1	6	0	67	0	1	2	77	87.0
Sea Sand	6	1	2	0	51	1	1	62	82.2
Terrestrial	0	5	1	2	1	40	1	50	80
Water Body	1	2	0	1	2	0	30	36	83.3
Column Total	52	50	44	82	65	49	39	381	78.7