

Table 48: District - wise distribution of Wastelands

ORISSA

Category	Angul	Baleshwar	Baragarh	Bhadrak	Bolangir	Boudh	Cuttack	Deogarh	Dhenkanal	Gajapati	Ganjam	Jagatsinghpur	Jajpur	Jharsuguda	Kalahandi	Kandhamal
1	123.68	2.04	8.18	0.00	9.79	0.00	3.31	30.57	34.58	21.83	75.67	0.00	0.15	1.05	20.87	2.73
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	98.77	41.94	87.70	0.06	190.12	135.01	117.57	68.72	138.56	159.07	342.59	0.82	49.51	90.52	198.42	525.35
4	84.85	3.31	22.48	6.44	45.59	61.46	36.46	19.88	1.52	334.60	76.28	0.07	52.19	89.44	84.61	9.48
5	2.24	9.26	0.60	27.31	1.32	0.00	41.99	0.22	0.43	0.30	27.16	14.23	39.25	0.28	0.44	0.00
6	0.00	5.78	0.00	0.00	0.00	0.00	2.71	0.00	0.07	1.71	0.00	0.00	14.10	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.47	0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	14.99	0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00	0.00	1.31	0.05	0.00	0.00	318.77	88.05	0.00	0.00	0.00	92.70	167.09
10	0.00	0.00	0.00	0.00	0.00	1.60	0.00	0.00	0.00	130.07	33.77	0.00	0.00	0.00	55.63	48.78
11	326.00	37.67	317.20	0.00	161.00	147.50	121.49	89.41	46.25	62.92	298.27	0.74	65.98	38.41	261.50	199.98
12	26.28	5.75	10.02	0.00	89.85	6.28	12.13	80.21	126.80	26.87	152.89	0.10	20.70	2.70	97.35	118.73
13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
14	0.84	0.00	0.03	0.00	0.00	0.00	0.00	0.06	0.00	0.00	0.00	0.01	0.01	0.00	0.00	0.00
15	0.00	0.32	0.00	0.50	0.00	0.00	0.16	0.00	0.00	0.00	0.00	0.08	0.05	0.00	0.00	0.00
16	0.00	2.92	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	14.15	1.66	0.00	0.00	0.00	0.00
17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.66	1.53	0.00	0.00
21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.85	0.19	0.00	0.00
22	0.82	1.79	8.04	0.00	42.61	6.35	2.11	9.77	8.41	25.94	37.54	0.00	1.87	0.47	76.91	13.22
23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>Total</b>	<b>663.48</b>	<b>110.78</b>	<b>454.25</b>	<b>34.31</b>	<b>540.28</b>	<b>359.51</b>	<b>337.98</b>	<b>298.84</b>	<b>356.62</b>	<b>1082.08</b>	<b>1146.37</b>	<b>41.16</b>	<b>250.32</b>	<b>224.60</b>	<b>888.43</b>	<b>1085.36</b>
TGA	6375	3806	5837	2505	6575	3098	3932	2940	4452	4325	8206	1668	2899	2081	7920	8021
% to TGA	10.41	2.91	7.78	1.37	8.22	11.60	8.60	10.16	8.01	25.02	13.97	2.47	8.63	10.79	11.22	13.53

- |  |  |  |                                  |                                |
|--|--|--|----------------------------------|--------------------------------|
| 1. Gullied and/ or ravinous land (Medium)  | 6. Waterlogged and Marshy land (Seasonal)        | 11. Under-utilised/degraded forest (Scrub domin) | 16. Sands-Coastal                | 21. Industrial wastelands      |
| 2. Gullied and/ or ravinous land (Deep)    | 7. Land affected by salinity/alkalinity (Medium) | 12. Under-utilised/degraded forest (Agriculture) | 17. Sands-Desertic               | 22. Barren Rocky/Stony waste   |
| 3. Land with Dense Scrub                   | 8. Land affected by salinity/alkalinity (Strong) | 13. Degraded pastures/ grazing land              | 18. Sands-Semi Stab.-Stab>40m    | 23. Snow covered /Glacial area |
| 4. Land with Open Scrub                    | 9. Shifting Cultivation - Current Jhum           | 14. Degraded land under plantation crop          | 19. Sands-Semi Stab.-Stab 15-40m | Total - Total Wasteland Area   |
| 5. Waterlogged and Marshy land (Permanent) | 10. Shifting Cultivation - Abandoned Jhum        | 15. Sands-Riverine                               | 20. Mining Wastelands            | TGA - Total Geographical Area  |

ORISSA Contd.....

Category	Kendrapara	Keonjhar	Khordha	Koraput	Malkangiri	Mayurbhanj	Nawarangapur	Nayagarh	Nuapada	Puri	Rayagada	Sambalpur	Sonepur	Sundargarh	Total
1	0.00	66.46	0.02	63.12	1.36	0.42	7.28	40.79	0.34	0.00	102.58	32.95	13.83	7.59	671.19
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	7.25	251.06	167.43	810.69	399.95	117.22	197.92	313.27	203.76	15.67	314.24	143.46	72.68	185.75	5445.08
4	0.00	48.48	114.92	15.46	24.33	5.58	39.68	67.16	19.91	1.81	8.22	88.95	15.90	4.23	1383.29
5	21.67	11.53	37.03	2.70	0.00	0.44	1.09	1.13	0.04	181.86	0.00	1.34	0.00	0.20	424.04
6	1.70	0.00	1.22	0.00	0.00	0.00	0.00	0.00	0.00	8.21	0.00	0.07	0.00	0.00	35.56
7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.47
8	8.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	23.09
9	0.00	6.43	0.11	117.97	179.03	0.00	12.90	0.00	0.00	0.00	39.42	0.00	0.00	0.00	1023.83
10	0.00	3.75	0.00	30.88	107.79	0.00	0.36	0.00	0.00	0.00	8.98	0.00	0.00	0.00	421.61
11	5.52	141.62	144.14	107.70	337.85	102.90	309.65	455.90	217.40	10.49	114.95	289.31	148.35	221.25	4781.34
12	15.62	101.04	2.73	36.50	190.55	145.56	281.26	28.16	61.03	1.27	80.00	19.69	5.11	97.11	1842.28
13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
14	0.02	0.00	0.30	0.00	0.00	0.00	0.00	0.60	0.00	0.00	0.00	0.00	0.00	0.00	1.88
15	1.56	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.00	0.00	0.00	0.00	2.79
16	3.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	12.30	0.00	0.00	0.00	0.00	34.15
17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
20	0.00	0.27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.43	7.90
21	0.00	7.81	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.82	10.67
22	0.00	23.17	4.00	27.83	39.93	91.66	6.23	48.77	15.00	0.00	10.81	1.91	18.07	7.87	531.11
23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>Total</b>	<b>64.55</b>	<b>661.62</b>	<b>471.90</b>	<b>1212.85</b>	<b>1280.79</b>	<b>463.78</b>	<b>856.37</b>	<b>955.78</b>	<b>517.48</b>	<b>231.73</b>	<b>679.20</b>	<b>577.67</b>	<b>273.95</b>	<b>526.24</b>	<b>16648.27</b>
TGA	2644	8303	2813	8807	5791	10418	5291	3890	3852	3479	7073	6657	2337	9712	155707
% to TGA	2.44	7.97	16.78	13.77	22.12	4.45	16.19	24.57	13.43	6.66	9.60	8.68	11.72	5.42	10.69

1. Gullied and/ or ravinous land (Medium)	6. Waterlogged and Marshy land (Seasonal)	11. Under-utilised/degraded forest (Scrub domin)	16. Sands-Coastal	21. Industrial wastelands
2. Gullied and/ or ravinous land (Deep)	7. Land affected by salinity/alkalinity (Medium)	12. Under-utilised/degraded forest (Agriculture)	17. Sands-Desertic	22. Barren Rocky/Stony waste
3. Land with Dense Scrub	8. Land affected by salinity/alkalinity (Strong)	13. Degraded pastures/ grazing land	18. Sands-Semi Stab.-Stab>40m	23. Snow covered /Glacial area
4. Land with Open Scrub	9. Shifting Cultivation - Current Jhum	14. Degraded land under plantation crop	19. Sands-Semi Stab.-Stab 15-40m	Total - Total Wasteland Area
5. Waterlogged and Marshy land (Permanent)	10. Shifting Cultivation - Abandoned Jhum	15. Sands-Riverine	20. Mining Wastelands	TGA - Total Geographical Area

Figure. 38

# WASTELAND MAP

2005-06

ORISSA



## LEGEND

- Gullied/ Ravine land-Medium ravine (1)
- Gullied/Ravine land-Deep/ very deep ravine (2)
- Scrubland - Land with dense scrub (3)
- Scrubland - Land with open scrub (4)
- Waterlogged and marshy land - Permanent (5)
- Waterlogged and marshy land - Seasonal (6)
- Land Affected by Salinity/ Alkalinity - Moderate (7)
- Land Affected by Salinity/ Alkalinity - Strong (8)
- Shifting cultivation - Current jhum (9)
- Shifting cultivation - Abandoned jhum (10)
- Under-utilised Deg Notif Forest - Scrub Dom (11)
- Under- utilised Deg Notif Forest - Agriculture (12)
- Degraded Pastures/ grazing land (13)
- Degraded Land under Plantation Crop (14)
- Sands - Desert sand (15)
- Sands - Coastal sand (16)
- Sands - Riverine (17)
- Sands - Semi-stab to stab (>40m) dune (18)
- Sands-Semi-stab to stab mod high(15-40m) dune (19)
- Mining Wastelands (20)
- Industrial Wastelands (21)
- Barren rocky area (22)
- Snow cover and/ or glacial area (23)
- Non Wasteland Area
- Major Road
- Railway Line



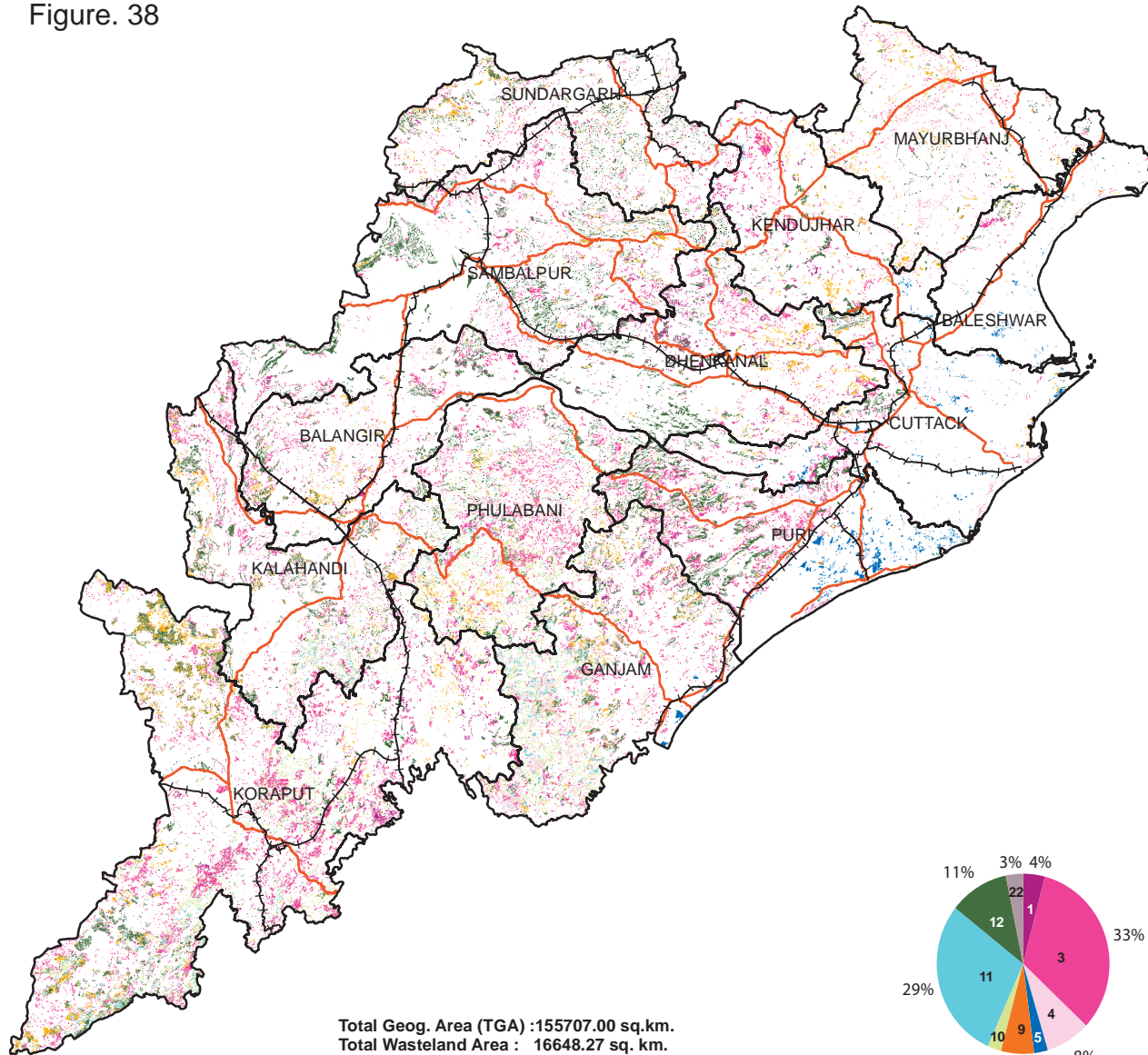
Based on 3 season data of IRS P6  
LISS III (2005-06) & Limited ground checks

### Partner Institution:

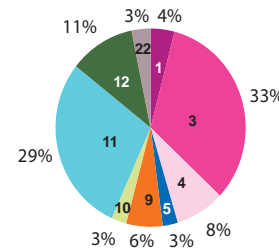
Orissa State Remote Sensing Appln. Centre  
(Dept. of Science & Technology)  
Jayadev Vihar, Mythri Vihar PO  
Bhubaneswar - 751023  
Orissa

### Coordinated by:

Land Use Division, LRG, RS & GIS - AA  
National Remote Sensing Centre  
ISRO, Dept. of Space, Govt of India,  
Balanagar,  
Hyderabad - 500625



**Total Geog. Area (TGA) :155707.00 sq.km.**  
**Total Wasteland Area : 16648.27 sq. km.**  
**Wasteland Area : 10.69%**



**Table 49: Orissa - Category-wise distribution and changes in wastelands**

Area in sq.km.

SI	Wasteland Categories	2005-06	%	2003	%	Change	% diff
1	Gullied and/or ravinous land-Medium	671.19	0.43	601.54	0.39	69.65	0.04
2	Gullied and/or ravinous land-Deep	0.00	0.00	8.01	0.01	-8.01	-0.01
3	Land with Dense Scrub	5445.08	3.50	7537.96	4.84	-2092.88	-1.34
4	Land with Open Scrub	1383.29	0.89	618.05	0.40	765.24	0.49
5	Waterlogged and Marshy land-Permanent	424.04	0.27	218.23	0.14	205.81	0.13
6	Waterlogged and Marshy land-Seasonal	35.56	0.02	171.45	0.11	-135.89	-0.09
7	Land affected by salinity/alkalinity-Moderate	8.47	0.01	32.65	0.02	-24.18	-0.02
8	Land affected by salinity/alkalinity-Strong	23.09	0.01	0.00	0.00	23.09	0.01
9	Shifting cultivation area-Current Jhum	1023.83	0.66	636.26	0.41	387.57	0.25
10	Shifting cultivation area-Abandoned Jhum	421.61	0.27	541.03	0.35	-119.42	-0.08
11	Under utilised/degraded notified forest land-Scrub dominated	4781.34	3.07	5217.25	3.35	-435.91	-0.28
12	Under utilised/degraded notified forest land-Agriculture	1842.28	1.18	2307.29	1.48	-465.01	-0.30
13	Degraded land under plantation Crops	1.88	0.00	135.68	0.09	-133.80	-0.09
14	Sands-Riverine	2.79	0.00	3.10	0.00	-0.31	0.00
15	Sands-Coastal	34.15	0.02	73.90	0.05	-39.75	-0.03
16	Mining wastelands	7.90	0.01	29.23	0.02	-21.33	-0.01
17	Industrial wastelands	10.67	0.01	1.83	0.00	8.84	0.01
18	Barren rocky area	531.11	0.34	819.29	0.53	-288.18	-0.19
	<b>Total</b>	<b>16648.27</b>	<b>10.69</b>	<b>18952.75</b>	<b>12.17</b>	<b>-2304.47</b>	<b>-1.48</b>
	<b>TGA</b>	<b>155707.00</b>					