

Table 36: District - wise distribution of Wastelands

MADHYA PRADESH

Category	Balaghat	Barwani	Betul	Bhind	Bhopal	Chhatar-pur	Chhind-wara	Damoh	Datia	Dewas	Dhar	Dindori	East Nimar	Guna	Gwalior	Harda	Ho-shang-abad	Indore	Jabalpur	Jhabua	Katni	Mandla	Mand-saur
1	0.23	47.67	0.71	399.12	3.14	34.87	0.44	6.14	19.75	11.53	30.72	0.00	4.68	12.53	38.91	1.87	3.82	2.18	45.31	0.00	2.49	2.05	16.83
2	0.00	0.00	0.00	0.21	0.00	0.00	0.00	0.00	0.00	0.00	3.86	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.46	0.00	0.00	0.00	0.00
3	277.22	5.16	139.14	2.71	113.32	147.77	126.93	172.86	18.81	66.34	144.99	168.38	102.92	26.30	33.14	51.37	53.08	103.07	203.62	46.11	499.65	363.54	74.08
4	296.29	355.78	194.86	68.07	144.45	688.95	156.05	559.07	80.66	291.25	535.63	215.09	381.92	556.65	352.15	79.42	112.67	206.38	303.33	339.94	576.11	404.05	505.66
5	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6	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	0.00	0.00	0.00	0.00	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	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	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00
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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11	236.34	897.15	176.94	19.20	69.57	153.29	307.19	127.25	73.03	470.95	278.06	231.68	509.08	197.79	458.82	38.08	39.30	121.99	39.22	571.98	59.65	376.65	123.57
12	247.69	0.00	0.00	10.01	0.02	155.12	0.00	90.42	19.05	0.00	0.00	283.19	0.00	427.43	67.94	0.00	0.00	0.00	41.73	0.00	35.40	275.20	0.00
13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.12	0.00	0.46	0.00	0.00	0.00	0.00	1.48	0.00	0.00	0.00	0.00	0.00
14	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00
16	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	0.00	0.00	0.00	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	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	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00
20	9.78	0.00	0.60	0.00	0.59	0.00	9.55	0.00	0.00	0.00	0.00	0.00	0.00	0.38	0.15	0.16	0.00	1.29	1.51	0.56	12.23	0.79	3.09
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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22	0.27	2.50	0.24	4.84	0.63	4.89	1.05	2.01	0.40	3.50	20.91	0.00	11.43	0.00	2.17	0.00	0.83	13.79	1.28	19.97	4.98	3.61	67.52
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	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	1067.82	1308.26	512.48	504.16	331.71	1184.89	601.21	957.75	211.70	843.57	1020.29	898.34	1010.50	1221.08	953.28	170.90	209.70	450.17	639.46	978.56	1190.51	1425.89	790.75
TGA	9229	5422	10043	4459	2772	8687	11815	7306	2038	7020	8153	4068	10779	11065	5214	3330	6707	3898	4026	6782	6134	9201	5535
% to TGA	11.57	24.13	5.10	11.31	11.97	13.64	5.09	13.11	10.39	12.02	12.51	22.08	9.37	11.04	18.28	5.13	3.13	11.55	15.88	14.43	19.41	15.50	14.29

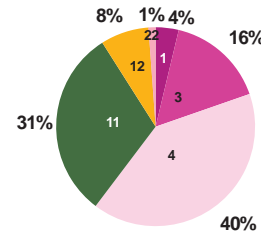
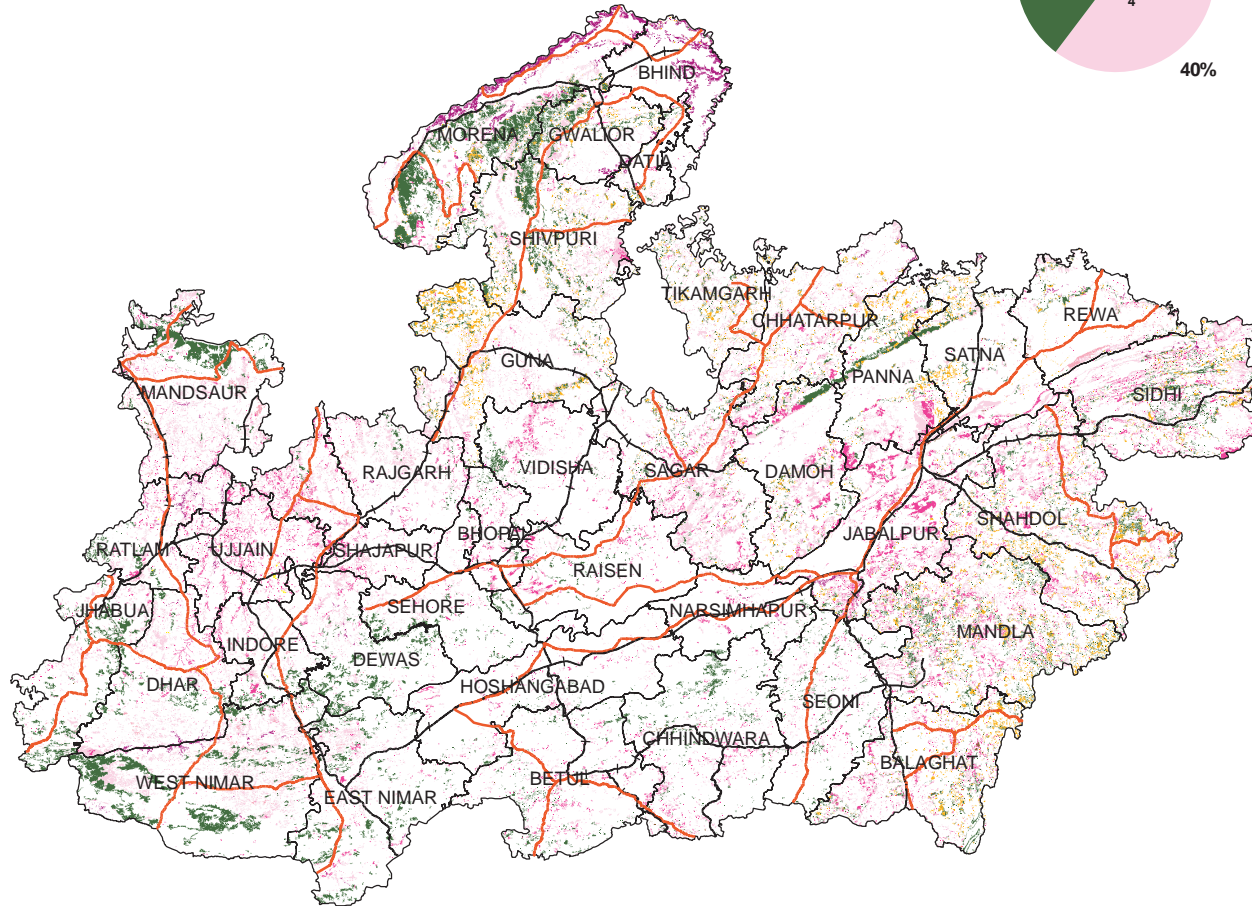
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|--|--|--|----------------------------------|--------------------------------|
| 1. Gullied and/ or ravinous land (Medium) | 6. Waterlogged and Marshy land (Seasonal) | 11. Under-utilised/degraded forest (Scrub domin) | 16. Sands-Coastal | 21. Industrial 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 |

MADHYA PRADESH Contd.....

Category	Morena	Nar-simhapur	Nee-much	Panna	Raisen	Rajgarh	Ratlam	Rewa	Sagar	Satna	Sehore	Seoni	Shahdol	Shajapur	Shivpuri	Shyampur & Kalan	Sidhi	Tikam-garh	Ujjain	Umaria	Vidisha	West Nimar	Total
1	495.82	11.12	4.34	4.31	0.00	9.88	65.85	9.36	7.73	5.51	2.82	0.26	2.06	3.02	9.46	99.74	17.13	2.72	17.89	9.08	4.06	26.55	1493.69
2	0.35	0.49	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	0.00	0.00	0.00	0.00	8.37
3	28.28	56.36	65.64	296.25	175.54	98.68	183.12	38.74	322.68	108.51	68.22	62.28	248.86	314.04	62.53	83.54	446.91	18.28	372.98	180.46	157.02	31.65	6361.08
4	305.88	86.87	375.75	466.51	135.86	451.77	281.31	286.23	977.98	405.50	159.75	99.57	533.45	477.27	955.23	461.04	746.03	338.26	188.21	288.14	108.22	698.21	16231.47
5	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6	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	0.00	0.00	0.00	0.00	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	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	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00
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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11	549.46	63.00	662.20	335.42	143.79	77.80	154.24	129.26	204.07	219.39	188.18	162.91	229.13	38.37	887.50	1155.69	437.25	155.27	4.50	86.43	126.91	668.68	12256.23
12	22.53	0.14	0.00	215.51	0.02	0.00	0.00	48.80	41.87	178.13	0.00	0.00	257.12	0.00	185.90	78.06	227.77	126.94	0.00	94.52	6.04	0.00	3136.55
13	0.00	0.00	0.00	0.00	0.00	0.00	1.88	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.33	0.00	0.00	0.00	8.91	0.00	0.00	0.00	20.19
14	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00
16	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	0.00	0.00	0.00	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	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	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00
20	0.28	0.00	5.42	0.31	1.67	0.29	0.26	3.44	0.00	10.38	0.17	0.18	0.00	0.09	0.02	0.02	11.27	0.12	0.35	0.47	0.32	0.00	75.72
21	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.48
22	2.78	1.36	11.06	0.39	11.00	18.10	10.51	96.81	5.01	16.43	0.43	0.99	33.66	9.96	8.86	0.37	9.91	1.03	1.38	0.00	3.88	47.44	458.19
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	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total	1405.38	219.34	1124.41	1318.70	467.88	656.52	697.17	612.64	1559.34	945.33	419.57	326.19	1304.28	842.74	2110.84	1878.46	1896.27	642.62	594.22	659.10	406.45	1472.53	40042.98
TGA	4988	5133	4256	7135	8466	6154	4861	6314	10252	7502	6578	8758	10349	6196	10278	6606	10526	5048	6091	3679	7371	8028	308252
% to TGA	28.18	4.27	26.42	18.48	5.53	10.67	14.34	9.70	15.21	12.60	6.38	3.72	12.60	13.60	20.54	28.44	18.02	12.73	9.76	17.92	5.51	18.34	12.99

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|--|--|--|----------------------------------|--------------------------------|
| 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. 32



WASTELAND MAP

2005-06

MADHYA PRADESH



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

Total Geog. Area (TGA) :308252.00 sq.km.
Total Wasteland Area : 40042.98 sq. km.
Wasteland Area : 12.99 %

Partner Institution:

Remote Sensing Application Centre,
M.P. Council of Science & Technology
Vignana Bhavan, Science Hill
Nehru Nagar, Bhopal-462003
Madhya Pradesh

Coordinated by:

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

Table 37: Madhya Pradesh - 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	1493.69	0.48	3159.66	1.03	-1665.97	-0.54
2	Gullied and/or ravinous land-Deep	8.37	0.00	2114.66	0.69	-2106.29	-0.68
3	Land with Dense Scrub	6361.08	2.06	27079.57	8.78	-20718.49	-6.72
4	Land with Open Scrub	16231.47	5.27	1974.31	0.64	14257.16	4.63
5	Waterlogged and Marshy land-Seasonal	0.00	0.00	50.55	0.02	-50.55	-0.02
6	Under utilised/degraded notified forest land-Scrub dominated	12256.23	3.98	17549.17	5.69	-5292.94	-1.72
7	Under utilised/degraded notified forest land-Agriculture	3136.55	1.02	4188.35	1.36	-1051.80	-0.34
8	Degraded pastures/grazing land	20.19	0.01	29.64	0.01	-9.45	0.00
9	Degraded land under plantation Crops	0.00	0.00	6.94	0.00	-6.94	0.00
10	Mining wastelands	75.72	0.02	121.48	0.04	-45.76	-0.01
11	Industrial wastelands	1.48	0.00	0.00	0.00	1.48	0.00
12	Barren rocky area	458.19	0.15	859.70	0.28	-401.51	-0.13
	Total	40042.97	12.99	57134.03	18.53	-17091.06	-5.54
	TGA	308252.00					