

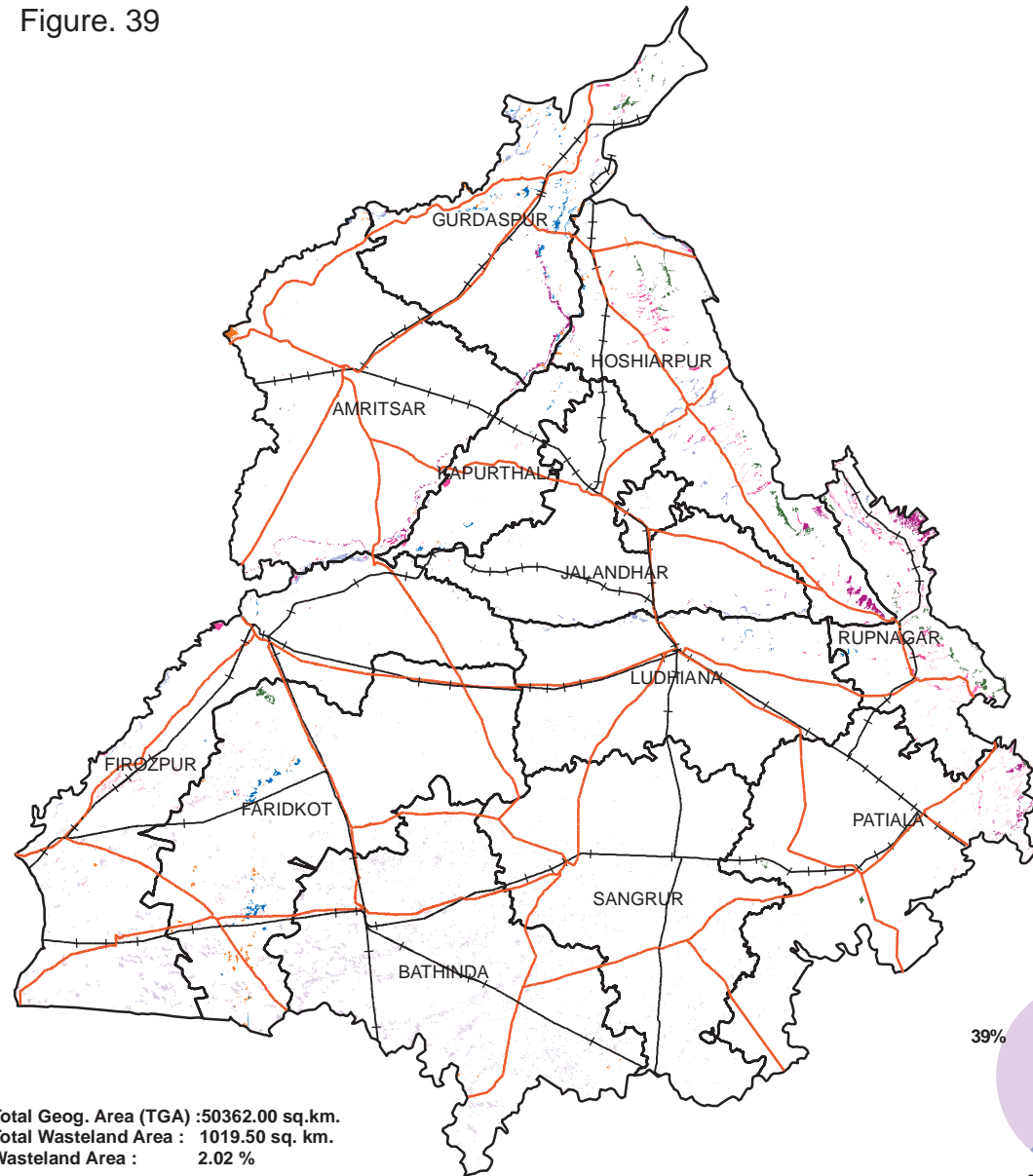
Table 50: District - wise distribution of Wastelands

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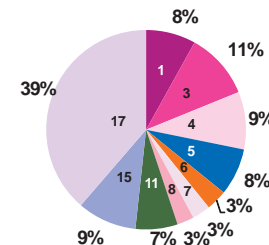
Category	Amritsar	Barnala	Bathinda	Faridkot	Fatehgarh Sahib	Firozpur	Gur-daspur	Hoshiarpur	Jalandhar	Kapurthala	Ludhiana	Mansa	Moga	Muksar	Nawanshahr	Patiala	Rupnagar	Sangrur	SAS Nagar	Tarn taran	Total
1	1.27	0.00	0.00	0.00	0.00	0.00	18.72	4.44	0.00	0.00	0.00	0.00	0.00	0.00	22.49	0.00	12.99	0.00	11.17	11.04	82.12
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	0.00	0.00	0.00	0.00	0.00
3	9.76	0.00	0.00	0.00	0.00	7.09	6.19	34.80	0.46	5.87	0.35	0.00	0.00	0.00	2.16	2.62	24.16	0.00	9.90	6.58	109.94
4	0.53	0.00	0.17	1.52	0.43	5.38	0.37	9.59	1.04	1.63	0.91	0.00	0.92	4.68	4.66	4.50	33.77	0.00	24.28	0.91	95.29
5	0.84	0.00	0.04	3.22	0.00	1.28	31.86	4.30	0.08	5.26	0.77	0.00	0.00	27.98	0.02	0.00	2.02	0.00	0.00	0.34	78.01
6	2.02	0.00	0.00	0.00	0.00	0.59	13.74	6.58	0.00	0.81	0.49	1.14	0.00	8.83	0.00	0.08	0.00	0.11	0.00	0.00	34.39
7	0.97	0.00	1.85	0.82	0.00	5.41	0.11	0.00	0.01	0.30	0.00	0.00	0.14	7.34	0.00	3.83	0.00	0.00	9.07	0.29	30.14
8	0.24	0.00	0.21	0.19	0.00	17.17	0.00	0.00	0.11	1.02	0.00	0.00	0.00	8.44	0.00	0.01	0.00	0.00	0.01	0.47	27.87
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
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
11	0.00	0.00	0.00	7.47	0.00	0.00	8.93	28.98	0.00	0.00	0.00	0.00	0.00	0.00	3.97	1.05	14.47	0.00	4.41	0.19	69.47
12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
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	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
15	6.25	0.00	0.00	0.00	0.00	15.31	12.22	25.77	2.78	0.99	8.88	0.39	0.25	0.00	3.87	0.05	10.06	0.00	0.25	10.85	97.92
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
17	0.01	16.81	133.50	7.16	0.00	73.02	0.00	0.00	1.11	0.58	3.91	71.15	2.25	52.50	0.00	6.34	0.00	25.88	0.00	0.13	394.35
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
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
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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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>21.89</b>	<b>16.81</b>	<b>135.77</b>	<b>20.38</b>	<b>0.43</b>	<b>125.25</b>	<b>92.14</b>	<b>114.46</b>	<b>5.59</b>	<b>16.46</b>	<b>15.31</b>	<b>72.68</b>	<b>3.56</b>	<b>109.77</b>	<b>37.17</b>	<b>18.48</b>	<b>97.47</b>	<b>25.99</b>	<b>59.09</b>	<b>30.80</b>	<b>1019.50</b>
TGA	2671	1410	3375	1472	1142	5853	3566	3310	2643	1633	3762	2150	1672	2635	1260	3318	1376	3603	1093	2418	50362
% to TGA	0.82	1.19	4.02	1.38	0.04	2.14	2.58	3.46	0.21	1.01	0.41	3.38	0.21	4.17	2.95	0.56	7.08	0.72	5.41	1.27	2.02

- |  |  |  |                                  |                                |
|--|--|--|----------------------------------|--------------------------------|
| 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. 39



Total Geog. Area (TGA) :50362.00 sq.km.  
 Total Wasteland Area : 1019.50 sq. km.  
 Wasteland Area : 2.02 %



### WASTELAND MAP

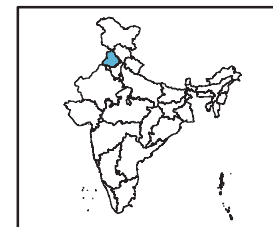
2005-06

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#### LEGEND

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



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

#### Partner Institution:

Punjab Remote Sensing Center  
 PAU Campus  
 Ludhiana- 141004  
 Punjab

#### Coordinated by:

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

**Table 51: Punjab - 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	82.12	0.16	33.41	0.07	48.71	0.10
2	Gullied and/or ravinous land-Deep	0.00	0.00	0.00	0.00	0.00	0.00
3	Land with Dense Scrub	109.94	0.22	165.71	0.33	-55.77	-0.11
4	Land with Open Scrub	95.29	0.19	72.21	0.14	23.08	0.05
5	Waterlogged and Marshy land-Permanent	78.01	0.15	371.30	0.74	-293.29	-0.58
6	Waterlogged and Marshy land-Seasonal	34.39	0.07	28.53	0.06	5.86	0.01
7	Land affected by salinity/alkalinity-Moderate	30.14	0.06	17.23	0.03	12.91	0.03
8	Land affected by salinity/alkalinity-Strong	27.87	0.06	0.00	0.00	27.87	0.06
9	Under utilised/degraded notified forest land-Scrub dominated	69.47	0.14	4.62	0.01	64.85	0.13
10	Degraded land under plantation Crops	0.00	0.00	338.58	0.67	-338.58	-0.67
11	Sands-Riverine	97.92	0.19	118.57	0.24	-20.65	-0.04
12	Sands-Desertic	394.35	0.78	8.12	0.02	386.23	0.77
13	Mining wastelands	0.00	0.00	14.48	0.03	-14.48	-0.03
14	Industrial wastelands	0.00	0.00	0.08	0.00	-0.08	0.00
	<b>Total</b>	<b>1019.50</b>	<b>2.02</b>	<b>1172.84</b>	<b>2.33</b>	<b>-153.34</b>	<b>-0.30</b>
	<b>TGA</b>	<b>50362.00</b>					