

Table 24: District - wise distribution of Wastelands

HARYANA

| Category     | Ambala       | Panch-kula    | Bhiwani       | Farida-bad    | Gurgaon       | Hissar        | Fateha-bad   | Jind         | Karnal       | Panipat      | Kuruk-shetra | Kaithal      | Mahen-dragarh | Rewari        | Rothak       | Jhajjar       | Sirsa        | Sonepat       | Yamuna nagar | Mewat         | Palwal       | Total          |
|--------------|--------------|---------------|---------------|---------------|---------------|---------------|--------------|--------------|--------------|--------------|--------------|--------------|---------------|---------------|--------------|---------------|--------------|---------------|--------------|---------------|--------------|----------------|
| 1            | 0.00         | 0.00          | 0.00          | 0.00          | 0.00          | 0.00          | 0.00         | 0.00         | 0.00         | 0.00         | 0.00         | 0.00         | 0.00          | 0.00          | 0.00         | 0.00          | 0.00         | 0.00          | 0.00         | 0.00          | 0.00         | 0.00           |
| 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         | 0.96          | 0.00         | 0.96           |
| 3            | 0.00         | 0.00          | 0.00          | 0.00          | 0.00          | 0.00          | 0.00         | 0.00         | 0.09         | 0.00         | 0.00         | 0.00         | 0.00          | 0.00          | 0.00         | 0.00          | 0.00         | 0.00          | 0.38         | 2.38          | 0.13         | 2.98           |
| 4            | 32.02        | 27.76         | 76.92         | 105.78        | 106.03        | 16.38         | 7.14         | 2.32         | 23.25        | 17.28        | 10.51        | 8.06         | 108.96        | 37.62         | 5.56         | 19.89         | 12.02        | 16.14         | 34.21        | 139.18        | 30.92        | 837.95         |
| 5            | 0.16         | 0.00          | 0.81          | 0.00          | 0.23          | 0.61          | 0.06         | 0.00         | 0.13         | 0.44         | 0.47         | 0.16         | 0.00          | 0.00          | 0.90         | 4.36          | 0.12         | 0.81          | 0.75         | 8.57          | 2.28         | 20.86          |
| 6            | 0.12         | 0.00          | 9.22          | 0.00          | 0.10          | 3.80          | 0.53         | 0.26         | 0.02         | 2.68         | 0.01         | 0.09         | 0.00          | 0.00          | 4.14         | 11.22         | 2.76         | 8.66          | 0.47         | 6.79          | 0.35         | 51.22          |
| 7            | 0.00         | 0.00          | 0.48          | 1.77          | 0.34          | 0.37          | 0.26         | 2.03         | 0.22         | 14.53        | 0.00         | 1.19         | 0.00          | 0.00          | 3.90         | 1.29          | 2.23         | 17.70         | 0.00         | 16.07         | 7.23         | 69.61          |
| 8            | 0.00         | 0.00          | 0.17          | 0.00          | 0.04          | 0.00          | 0.00         | 0.11         | 0.00         | 2.48         | 0.00         | 0.00         | 0.00          | 0.00          | 3.14         | 1.92          | 0.28         | 11.58         | 0.00         | 2.99          | 0.55         | 23.26          |
| 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           |
| 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           |
| 11           | 0.12         | 109.85        | 0.36          | 0.00          | 6.98          | 0.00          | 0.00         | 0.00         | 0.00         | 0.00         | 0.00         | 0.00         | 6.98          | 0.00          | 0.00         | 0.00          | 0.00         | 0.00          | 16.86        | 29.87         | 0.00         | 171.02         |
| 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         | 0.00           |
| 13           | 19.70        | 0.88          | 100.09        | 9.72          | 21.56         | 110.51        | 59.30        | 87.81        | 22.38        | 19.06        | 10.10        | 33.97        | 41.97         | 35.73         | 62.96        | 55.98         | 71.90        | 72.20         | 10.78        | 34.49         | 33.49        | 914.58         |
| 14           | 0.98         | 0.00          | 2.21          | 1.65          | 6.08          | 1.81          | 0.05         | 0.61         | 2.94         | 0.00         | 0.00         | 0.00         | 32.12         | 15.60         | 2.66         | 3.67          | 1.16         | 0.00          | 0.00         | 2.13          | 1.96         | 75.63          |
| 15           | 0.00         | 0.00          | 0.00          | 0.34          | 0.00          | 0.00          | 0.00         | 0.00         | 0.42         | 0.25         | 0.00         | 0.00         | 0.00          | 0.00          | 0.00         | 0.00          | 0.00         | 0.26          | 0.10         | 0.00          | 0.42         | 1.79           |
| 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           |
| 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           |
| 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           |
| 19           | 0.00         | 0.00          | 5.78          | 0.00          | 0.00          | 4.89          | 0.34         | 3.30         | 0.00         | 0.00         | 0.00         | 0.00         | 7.39          | 0.40          | 11.04        | 6.53          | 1.52         | 0.00          | 0.00         | 0.00          | 0.00         | 41.19          |
| 20           | 1.21         | 1.66          | 0.56          | 8.37          | 0.43          | 0.54          | 1.96         | 0.29         | 2.61         | 1.48         | 0.54         | 0.36         | 0.09          | 0.40          | 0.62         | 4.52          | 0.69         | 6.88          | 0.47         | 0.76          | 0.92         | 35.36          |
| 21           | 0.00         | 0.00          | 0.00          | 0.00          | 0.01          | 0.00          | 0.00         | 0.46         | 0.00         | 0.89         | 0.00         | 0.00         | 0.00          | 1.12          | 0.00         | 0.00          | 0.00         | 0.00          | 0.03         | 0.00          | 0.00         | 2.51           |
| 22           | 0.00         | 0.00          | 16.38         | 0.00          | 0.00          | 0.00          | 0.00         | 0.00         | 0.00         | 0.00         | 0.00         | 0.00         | 52.15         | 16.40         | 0.00         | 0.00          | 0.00         | 0.00          | 0.00         | 13.20         | 0.00         | 98.13          |
| 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           |
| <b>Total</b> | <b>54.31</b> | <b>140.15</b> | <b>212.98</b> | <b>127.63</b> | <b>141.80</b> | <b>138.91</b> | <b>69.64</b> | <b>97.19</b> | <b>52.06</b> | <b>59.09</b> | <b>21.63</b> | <b>43.83</b> | <b>249.66</b> | <b>107.27</b> | <b>94.92</b> | <b>109.38</b> | <b>92.68</b> | <b>134.23</b> | <b>64.05</b> | <b>257.39</b> | <b>78.25</b> | <b>2347.05</b> |
| TGA          | 1574.00      | 898.00        | 4778.00       | 2151.00       | 2766.00       | 3983.00       | 2538.00      | 2702.00      | 2538.00      | 1268.00      | 1530.00      | 2317.00      | 1859.00       | 1582.00       | 1745.00      | 1834.00       | 4277.00      | 2122.00       | 1768.00      | 1628.00       | 1219.00      | 44212.00       |
| % to TGA     | 3.45         | 15.61         | 4.46          | 5.93          | 5.13          | 3.49          | 2.74         | 3.60         | 2.05         | 4.66         | 1.41         | 1.89         | 13.43         | 6.78          | 5.44         | 5.96          | 2.17         | 6.33          | 3.62         | 15.81         | 6.42         | 5.31           |

- |  |  |  |                                  |                                |
|--|--|--|----------------------------------|--------------------------------|
| 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. 26



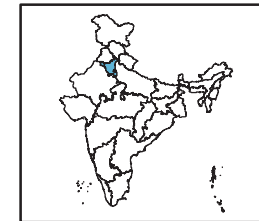
Total Geog. Area (TGA) : 44212.00 sq.km.  
 Total Wasteland Area : 2347.05 sq. km.  
 Wasteland Area : 5.31 %

## WASTELAND MAP 2005-06 HARYANA



### 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:

Haryana State Remote Sensing  
Application Centre  
CCS HAU Campus  
Hissar- 125004  
Haryana

#### Coordinated by:

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

**Table 25: Haryana - 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                          | 0.00            | 0.00        | 25.14          | 0.06        | -25.14         | -0.06        |
| 2  | Gullied and/or ravinous land-Deep                            | 0.96            | 0.00        | 0.00           | 0.00        | 0.96           | 0.00         |
| 3  | Land with Dense Scrub  | 2.98            | 0.01        | 1100.09        | 2.49        | -1097.11       | -2.48        |
| 4  | Land with Open Scrub   | 837.95          | 1.90        | 61.94          | 0.14        | 776.01         | 1.76         |
| 5  | Waterlogged and Marshy land-Permanent                        | 20.86           | 0.05        | 19.64          | 0.04        | 1.22           | 0.00         |
| 6  | Waterlogged and Marshy land-Seasonal                         | 51.22           | 0.12        | 23.95          | 0.05        | 27.27          | 0.06         |
| 7  | Land affected by salinity/alkalinity-Moderate                | 69.61           | 0.16        | 69.91          | 0.16        | -0.30          | 0.00         |
| 8  | Land affected by salinity/alkalinity-Strong                  | 23.26           | 0.05        | 11.12          | 0.03        | 12.14          | 0.03         |
| 9  | Under utilised/degraded notified forest land-Scrub dominated | 171.02          | 0.39        | 500.78         | 1.13        | -329.76        | -0.75        |
| 10 | Under utilised/degraded notified forest land-Agriculture     | 0.00            | 0.00        | 8.38           | 0.02        | -8.38          | -0.02        |
| 11 | Degraded pastures/grazing land                               | 914.58          | 2.07        | 899.39         | 2.03        | 15.19          | 0.03         |
| 12 | Degraded land under plantation Crops                         | 75.63           | 0.17        | 251.31         | 0.57        | -175.68        | -0.40        |
| 13 | Sands-Riverine   | 1.79            | 0.00        | 4.16           | 0.01        | -2.37          | -0.01        |
| 14 | Sands-Desertic   | 0.00            | 0.00        | 142.28         | 0.32        | -142.28        | -0.32        |
| 15 | Sands-Semi stabilised- Stabilised Moderate High 15-40m       | 41.19           | 0.09        | 0.00           | 0.00        | 41.19          | 0.09         |
| 16 | Mining wastelands  | 35.36           | 0.08        | 53.65          | 0.12        | -18.29         | -0.04        |
| 17 | Industrial wastelands  | 2.51            | 0.01        | 3.23           | 0.01        | -0.72          | 0.00         |
| 18 | Barren rocky area  | 98.13           | 0.22        | 91.41          | 0.21        | 6.72           | 0.02         |
|    | <b>Total</b>   | <b>2347.05</b>  | <b>5.31</b> | <b>3266.39</b> | <b>7.39</b> | <b>-919.33</b> | <b>-2.08</b> |
|    | <b>TGA</b>   | <b>44212.00</b> |             |                |             |                |              |