

Report on detailed soil survey and land use of Tb8g, Tb9c, Tb9d, Tb9f, Tb9g and Tb9j subwatersheds of Tungabhadra catchment, Mundargi taluk, Dharwad district and Koppal and Yelburga taluks, Raichur district, Karnataka State.

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ABSTRACT

1. Surveyed area : Tb8g, Tb9c, Tb9d, Tb9f, Tb9g & Tb9j subwatersheds of Tungabhadra catchment, Mundargi taluk, Dharwad district and Koppal and Yelburga taluks, Raichur district, Karnataka State.
2. Type of survey : Detailed soil survey
3. Total area mapped and reported : 17,008 hectares
4. Period of work : November 1987 to July 1988
5. The area in hectares of each series mapped.

| Sl. No. | Soil series name | Tb8g | Tb9c | Tb9d | Tb9f | Tb9g | Tb9j | Total area in hectare | Percentage |
|---------|------------------|------|------|------|------|------|------|-----------------------|------------|
| 1. | Devalapur | 121 | 98 | - | - | - | - | 219 | 1.3 |
| 2. | Dyampur | 297 | 63 | 298 | 137 | 97 | 190 | 1082 | 6.4 |
| 3. | Kallur | 39 | 58 | 85 | 33 | 121 | 148 | 484 | 2.8 |
| 4. | Lakshmapur | 503 | 246 | 903 | 709 | 632 | 1121 | 4114 | 24.2 |
| 5. | Mainahalli | 263 | 200 | 133 | 111 | 79 | 108 | 894 | 5.2 |
| 6. | Manglapur | 16 | - | - | - | - | - | 16 | 0.1 |
| 7. | Sompur | 82 | 274 | 108 | 34 | 32 | 24 | 554 | 3.3 |
| 8. | Thimmapur | 830 | 340 | 1446 | 809 | 2628 | 2330 | 8383 | 49.3 |
| 9. | Varadapur | 141 | 12 | - | - | - | - | 153 | 0.9 |
| 10. | Wadagenahalli | 348 | 82 | 175 | - | - | - | 605 | 3.5 |
| 11. | Misc. | 125 | 73 | 75 | 56 | 71 | 104 | 504 | 3.0 |
| Total | | 2765 | 1446 | 3223 | 1889 | 3660 | 4025 | 17008 | 100.0 |

6. Area under different land capability classes

| Sl. No. | Land capability class | Area | Percentage | Soil series |
|---------|-----------------------|-------|------------|---|
| 1. | II | 11651 | 68.5 | Devalapur, Dyampur, Kallur, Lakshmapur, Mangalapur, Thimmapur |
| 2. | III | 902 | 5.3 | Mainahalli, Wadagenahalli |
| 3. | IV | 3521 | 20.7 | Dyampur, Kallur, Lakshmapur, Mainahalli |
| 4. | VI | 430 | 2.5 | Sompur |
| | Misc. land | 504 | 3.0 | |
| | | 17008 | 100.0 | |

7. Problematic area

| | | |
|---|-------------|----------|
| Moderate erosion on slopes above 3% on moderately deep to very deep soils | 31 | hectares |
| Severe erosion on slope above 3% on moderately deep to very deep soils | 3635 | " |
| Shallow rooting depth | 707 | " |
| Total problematic area | 4373 | " |

8. List of villages surveyed in Mundargi taluk, Dharwad district and Koppal and Yelburga taluks, Raichur district, Karnataka State.

| Sl. No. | Name of the Village | Total area surveyed in the village (hectare) | Area falling within subwatersheds in hectares | | | | | |
|---------|---------------------|--|---|------|------|------|------|------|
| | | | Tb9g | Tb9c | Tb9d | Tb9f | Tb9g | Tb9j |
| 1. | Alwandi | 1061 | 680 | 381 | - | - | - | - |
| 2. | Alur | 1054 | - | - | 63 | - | 991 | - |
| 3. | Allipur | 477 | - | 114 | 320 | 43 | - | - |
| 4. | Bardhur | 472 | - | - | 472 | - | - | - |
| 5. | Bhairapur | 40 | 35 | 5 | - | - | - | - |
| 6. | Eklaspur | 1067 | - | - | 355 | 148 | 564 | - |
| 7. | Gatareddihal | 752 | 217 | 464 | 71 | - | - | - |
| 8. | Haitapura | 1090 | - | - | 1090 | - | - | - |
| 9. | Halliguddi | 1640 | - | - | - | - | 243 | 1397 |
| 10. | Hallikele | 1893 | - | - | - | - | - | 1893 |
| 11. | Kavalur | 3545 | 1833 | 269 | - | 1443 | - | - |
| 12. | Malekoppa | 177 | - | - | - | - | - | 177 |
| 13. | Mevundi | 378 | - | - | 378 | - | - | - |
| 14. | Mundargi | 71 | - | - | 71 | - | - | - |
| 15. | Mur lapur | 658 | - | - | 403 | 255 | - | - |
| 16. | Raghunathanahalli | 213 | - | 213 | - | - | - | - |
| 17. | Sompur | 358 | - | - | - | - | - | 358 |
| 18. | Venkatapura | 2062 | - | - | - | - | 1862 | 200 |
| Total | | 17008 | 2765 | 1446 | 3223 | 1889 | 3660 | 4025 |