

Report on detailed soil survey of Nj2d, Nj2e and Nj2f subwatersheds of Nizamagar catchment in Bhalki taluk, Bidar district, Karnataka.

Combined abstract for all subwatersheds

1. Survey area : Nj2d, Nj2e and Nj2f subwatersheds of Nizamagar catchment, Bhalki taluk, Bidar district Karnataka State.

2. Total area mapped and reported: 10,500 hectares

3. Period of work : January to April 1980

4. Soil series mapped and the area in hectares under each

| <u>Sl.No.</u> | <u>Soil series name</u> | <u>Area in hectare</u> | <u>Percentage</u> |
|---------------|-------------------------|------------------------|-------------------|
| 1. | Basantpur | 1988 | 18.9 |
| 2. | Chinkod | 552 | 5.3 |
| 3. | Gadgi | 746 | 7.1 |
| 4. | Kandgola | 1560 | 14.9 |
| 5. | Ladha | 1349 | 12.8 |
| 6. | Nandgaon | 547 | 5.2 |
| 7. | Sultanpur | 2134 | 20.3 |
| 8. | Wadgaon | 1286 | 12.3 |
| 9. | Miscellaneous | 338 | 3.2 |
| | | <u>10500</u> | <u>100.0</u> |

5. Land capability classification

| <u>Sl.No.</u> | <u>Land capability class</u> | <u>Area in hect.</u> | <u>Percentage</u> | <u>Soil series</u> |
|---------------|------------------------------|----------------------|-------------------|---|
| 1. | Class II | 3041 | 29.0 | 1) Basantpur ii) Chinkod iii) Sultanpur |
| 2. | Class III | 3852 | 36.7 | i) Basantpur ii) Chinkod iii) Gadgi iv) Kandgola v) Sultanpur |
| 3. | Class IV | 1792 | 17.1 | i) Gadgi ii) Kandgola |
| 4. | Class VI | 128 | 1.2 | i) Wadgaon |
| 5. | Class VII | <u>1349</u> | <u>12.8</u> | i) Ladha |
| | | <u>10162</u> | <u>96.8</u> | |

6. Specific problematic area:

| | |
|---|-----------------|
| a) Moderate erosion above 3% slope on moderately deep to deeper soils | - * 3014 hect. |
| b) Severe erosion | - * 161 " |
| c) Moderate to severe stoniness | - * 5389 " |
| d) Shallowness | - * 3454 " |
| e) Rock out crops | - 18 " |
| | <u>12,036 "</u> |

* An area of 5046 hectares is having more than one problem accounted only once in the grand total but more than once in problematic areas.

Report on detailed soil survey of Nj2d, Nj2e and Nj2f subwatersheds
Nizamsagar catchment Bhalki taluk, Bidar district, Karnataka State.

Abstract for Nj2d subwatershed

1. Survey area : Nj2d subwatershed of Nizamsagar catchment,
Bhalki taluk, Bidar district, Karnataka State.
2. Period of survey: January to April 1980
3. Total area mapped and reported: 3185 hectares
4. Soil series mapped and area in hectares under each

| <u>Sl.No.</u> | <u>Soil series name</u> | <u>Area in hectares</u> | <u>Percentage</u> |
|---------------|-------------------------|-------------------------|-------------------|
| 1. | Basantpur | 799 | 25.1 |
| 2. | Chinkod | 69 | 2.2 |
| 3. | Gadgi | 82 | 2.6 |
| 4. | Kandgola | 303 | 9.5 |
| 5. | Ladha | 454 | 14.2 |
| 6. | Nandgaon | 117 | 3.7 |
| 7. | Sultanpur | 908 | 28.5 |
| 8. | Wadgaon | 269 | 8.4 |
| 9. | Miscellaneous | 184 | 5.8 |
| | | <u>3185</u> | <u>100.0</u> |

5. Land capability classification

| <u>Sl.No.</u> | <u>Land capability class</u> | <u>Area in hect</u> | <u>Percent</u> | <u>Soil series</u> |
|---------------|------------------------------|---------------------|----------------|---|
| 1. | Class II | 1005 | 31.6 | i) Basantpur ii) Chinkod iii) Sultanpur |
| 2. | Class III | 1156 | 36.3 | i) Basantpur ii) Chinkod iii) Gadgi iv) Kandgola v) Sultanpur |
| 3. | Class IV | 386 | 12.1 | i) Nandgaon ii) Wadgaon |
| 4. | Class VII | <u>454</u> | <u>14.2</u> | i) Ladha |
| | | <u>3001</u> | <u>94.2</u> | |

6. Specific problematic area

| | | | |
|---|---|-------------|---------|
| a) Moderate erosion above 3% slope on moderately deep and deeper soil | - | * 1150 | hectare |
| b) Severe erosion | - | * 104 | " |
| c) Moderate to severe stoniness | - | * 1181 | " |
| d) Shallowness | - | * 840 | " |
| e) Rock out crop | - | <u>1</u> | " |
| | | <u>3276</u> | " |

*An area of 1341 hectares is having more than one problem accounted only once in the grand total but more than once in problematic area.

Report on detailed soil survey of Nj2d, Nj2e and Nj2f subwatersheds, Nisamsagar catchment, Bhalki taluk, Bidar district, Karnataka State.

Abstract for Nj2e Subwatershed

1. Survey area

: Nj2e subwatershed of Nisamsagar catchment, Bhalki taluk, Bidar district, Karnataka State.

2. Total area mapped and reported

: 2393 hectares

3. Period of work

: January to April 1980

4. Soil series mapped and area in hectares under each

| Sl. No. | Soil series name | Area in hectares | Percentage |
|---------|------------------|------------------|--------------|
| 1. | Basantpur | 12 | 0.5 |
| 2. | Chinkod | 142 | 5.9 |
| 3. | Gadgi | 238 | 9.9 |
| 4. | Kandgola | 489 | 20.5 |
| 5. | Ladha | 398 | 16.7 |
| 6. | Nandgaon | 165 | 6.9 |
| 7. | Sultanpur | 364 | 15.2 |
| 8. | Wadgaon | 544 | 22.7 |
| 9. | Miscellaneous | 41 | 1.7 |
| | | <u>2393</u> | <u>100.0</u> |

5. Land capability classification

| Sl. No. | Land capability class | Area in hect. | Percentage | Soil series |
|---------|-----------------------|---------------|-------------|---|
| 1. | Class II | 416 | 17.4 | i) Basantpur ii) Chinkod iii) Sultanpur |
| 2. | Class III | 742 | 31.0 | i) Chinkod ii) Gadgi iii) Kandgola iv) Sultanpur |
| 3. | Class IV | 717 | 30.0 | i) Nandgaon ii) Wadgaon |
| 4. | Class VI | 79 | 3.3 | i) Wadgaon |
| 5. | Class VII | 398 | 16.6 | i) Ladha |
| | | <u>2352</u> | <u>98.3</u> | |

6. Specific problematic area

| | | |
|--|---|-------------|
| a) Moderate erosion above 3% slope on moderately deep and deeper soils | - | * 580 |
| b) Severe erosion | - | * 57 |
| c) Moderate to severe stoniness | - | * 1680 |
| d) Shallowness | - | * 1107 |
| e) Rock out crop | - | * 10 |
| | | <u>3442</u> |

* An area of 1639 Hectares is having more than one problem accounted only once in the grand total but more than once in problematic area.

Report on detailed soil survey of Nj2d, Nj2e, and Nj2f subwatersheds of Nizamsagar catchment, Bhalki taluk, Bidar district, Karnataka State.

Abstract for Nj2f subwatershed

1. Survey area : Nj2f subwatershed of Nizamsagar catchment, Bhalki taluk, Bidar district, Karnataka State.
2. Total area mapped and reported : 4922 hectares
3. Period of work : January to April 1980
4. Soil series mapped and area in hectares under each

| <u>Sl.No.</u> | <u>Soil series name</u> | <u>Area in hectares</u> | <u>Percentage</u> |
|---------------|-------------------------|-------------------------|-------------------|
| 1. | Basantpur | 1177 | 23.9 |
| 2. | Chimkod | 341 | 6.9 |
| 3. | Gadgi | 426 | 8.7 |
| 4. | Kandgola | 768 | 15.6 |
| 5. | Ladha | 497 | 10.1 |
| 6. | Nandgaon | 265 | 5.4 |
| 7. | Sultanpur | 862 | 17.5 |
| 8. | Wadgaon | 477 | 9.6 |
| 9. | Miscellaneous | 113 | 2.3 |
| | | <u>4922</u> | <u>100.0</u> |

5. Land capability classification

| <u>Sl.No.</u> | <u>Land capability class</u> | <u>Area in hect.</u> | <u>Percentage</u> | <u>Soil series</u> |
|---------------|------------------------------------|----------------------|-------------------|---|
| 1. | Class II | 1820 | 32.9 | i) Basantpur ii) Chimkod iii) Sultanpur |
| 2. | Class III | 1954 | 39.7 | i) Basantpur ii) Chimkod iii) Gadgi iv) Kandgola v) Sultanpur |
| 3. | Class IV | 689 | 14.0 | i) Nandgaon ii) Wadgaon |
| 4. | Class VI | 49 | 1.0 | i) Wadgaon |
| 5. | Class VII | 497 | 10.1 | i) Ladha |
| 6. | <u>Specific problematic areas:</u> | <u>4809</u> | <u>97.7</u> | |

- a) Moderate erosion on above 3% slope on moderately deep and deeper soils - * 1276 hectares
 - b) Severe erosion - 69
 - c) Moderate to severe erosion - * 2528 "
 - d) Shallowness - * 1507 "
 - e) Rock out crop - 7 "
- 5387 " "

* An area of 2066 hectares is having more than one problem accounted only once in the grand total but/once in problematic area.