

REPORT ON DETAILED SOIL SURVEY AND LAND USE
OF Aa2p, Aa2q, Aa3c, Aa3d, Ab3j, Ac1b & Ac1c
SUBWATERSHEDS OF AJOY F.P.R. CATCHMENT,
DISTRICT BURDWAN AND BIRBHUM, WEST BENGAL

A B S T R A C T

1. Survey area: Subwatersheds No. Aa2p, Aa2q, Aa3c, Aa3d, Ab3j, Ac1b and Ac1c in Ajoy F.P.R. Catchment under Ausgram, Jarruria, Mongolkot and Bolpur, district Burdwan and Birbhum, West Bengal.
2. Agro-climatic region: Lower gangetic plains (No.3)
3. Total area: Reported 19,606 ha.
4. Type of survey: Detailed soil survey of medium intensity.
5. Period of survey: November, 1987 to June, 1988.

6. Soil series mapped and area distribution (ha. & %) under each subwatersheds.

| Sl No. | Soil series | No. of mapping units. | Subwatersheds in ha. & % | | | | | | | Total & % |
|--------|-----------------|-----------------------|--------------------------|-------------|------------|-------------|------------|------------|------------|-------------|
| | | | Aa2p | Aa2q | Ac3c | Aa3d | Ab3j | Ac1b | Ac1c | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 |
| 1. | Ajoy (AJ) | 5 | - | - | 793 (44.3) | 964 (22.7) | 342 (21.6) | 246 (7.1) | 52 (1.8) | 2397 (12.2) |
| 2. | Chakai (C) | 4 | 140 (5.6) | 22 (0.7) | - | 506 (11.9) | 186 (11.7) | - | - | 854 (4.4) |
| 3. | Dumka (D) | 6 | - | - | - | - | - | 474 (13.8) | 577 (19.4) | 1051 (5.4) |
| 4. | Dubrajpur (DB) | 4 | 277 (11.1) | 687 (22.4) | - | - | - | - | 25 (0.8) | 989 (5.0) |
| 5. | Ghoradanga (GD) | 2 | - | - | 8 (0.4) | - | 336 (21.2) | 136 (4.0) | 18 (0.6) | 498 (2.5) |
| 6. | Kadampur (K) | 4 | 1470 (59.0) | 1667 (54.3) | - | - | - | - | - | 3137 (16.0) |
| 7. | Kanchanpur (KC) | 6 | - | - | - | - | - | 667 (19.4) | 665 (22.4) | 1332 (6.8) |
| 8. | Karaya (K) | 7 | 342 (13.7) | 21 (0.7) | - | 103 (2.4) | - | 41 (1.2) | 201 (6.8) | 708 (3.6) |
| 9. | Kochdih (KD) | 4 | - | - | 617 (34.4) | 455 (10.7) | 66 (4.2) | - | - | 1138 (5.8) |
| 10. | Kultar (KL) | 8 | 155 (6.2) | 285 (9.3) | - | - | - | 79 (3.3) | 206 (6.9) | 725 (3.7) |
| 11. | Lachimpur (L) | 3 | - | - | - | - | - | 250 (7.3) | 4 (0.1) | 254 (1.3) |
| 12. | Pusaro (P) | 5 | 30 (1.2) | 175 (8.7) | - | - | - | - | - | 205 (1.0) |
| 13. | Sarua (S) | 7 | - | 108 (3.5) | - | - | - | 384 (11.1) | 322 (10.9) | 814 (4.2) |
| 14. | Tentuldip (TD) | 4 | - | - | 66 (3.7) | 1763 (41.5) | 502 (31.6) | - | - | 2331 (11.9) |
| 15. | Teyasi (T) | 5 | - | - | - | - | - | 454 (13.2) | 345 (11.6) | 799 (4.1) |

7. Specific problems:

| Sl No. | Particulars | Total area of 7 Sub-watersheds in ha. & % | Subwatersheds in ha. & % | | | | | | |
|--------|---|---|--------------------------|---------------|---------------|--------------|---------------|---------------|---------------|
| | | | Aa2p | Aa2q | Aa3c | Ac3d | Ab3j | Ac1b | Ac1c |
| 1. | Moderate erosion | 3343 (17.1) | 243 (9.7) | 618 (20.1) | 510 (28.5) | 141 (3.3) | 678 (42.7) | 879 (25.5) | 274 (9.2) |
| 2. | Severe erosion | 2289 (11.7) | 914 (36.7) | 861 (28.0) | - | - | - | 174 (5.1) | 340 (11.4) |
| 3. | Very severe erosion and gullied lands | 706 (3.5) | 343 (13.8) | 363 (11.8) | - | - | - | - | - |
| 4. | Seasonal water logging and draughtiness | 1522 (7.8) | 342 (13.6) | 129 (4.2) | - | 103 (2.4) | - | 425 (12.4) | 523 (17.6) |
| Total: | | 7866 | 1842 | 2071 | 510 | 144 | 678 | 1478 | 1137 |
| % | | (40.1) | (9.4) | (10.6) | (2.6) | (0.7) | (3.5) | (7.5) | (5.8) |