

Report on Detailed Soil and Land Use Survey of Ah2m, Ah3c, Ah3f, Ah3h, Aj1j, Aj1m, Aj1n, Aj3g Subwatershed of Ajoy F.P.R Catchment P.S. Bengabad and Deori of Giridih District, Deogarh and Madhupur of Deogarh District, Jharkhand and P.S. Chakai, Chandramandi and Jamui of Jamui District, Bihar.

Abstract

- 1. Survey** : Ah2m, Ah3c, Ah3f, Ah3h, Aj1j, Aj1m, Aj1n, Aj3g, sub-watersheds of AJOY Catchment (RVP), District Deogarh Giridih of Jharkhand and Jamui of Bihar.
- 2. Type of Survey** : Detailed Soil Survey
- 3. Total Area Mapped** : 20106 ha
- 4. Agro Climatic Zone** : Eastern Plateau and hills (Zone no-7) as per National Planning Commission
- 5. Period of Survey** : November 1997 to May 1998 & June 1999 to Jan – 2000

6. Soil Series and their Extent (Subwatershed wise)

Sl. No.	Name of Soil Series	No of Units	Area (ha) & (%)	Subwatersheds							
				Ah2m	Ah3c	Ah3f	Ah3h	Aj1j	Aj1m	Aj1n	Aj3g
1	Amra (AR)	1	59 (0.3)	-	59 (2.1)	-	-	-	-	-	-
2	Balia (B)	4	3499 (17.4)	610 (23.8)	709 (25.7)	313 (16.2)	894 (19.2)	303 (16.1)	433 (30.3)	235 (8.2)	2 (0.1)
3	Bathantoli (BT)	3	5220 (26.0)	799 (31.1)	124 (4.5)	888 (45.8)	301 (6.4)	610 (32.4)	242 (16.9)	1126 (39.3)	1130 (56.0)
4	Dumka (D)	5	2656 (13.2)	119 (4.6)	674 (24.4)	172 (8.9)	920 (19.8)	91 (4.8)	172 (12.0)	404 (14.1)	104 (5.2)
5	Karaya (K)	3	2181 (10.9)	282 (11.0)	182 (6.6)	136 (7.0)	396 (8.5)	185 (9.8)	132 (9.2)	555 (19.4)	313 (15.5)
6	Lachimpur (L)	6	3020 (15.0)	311 (12.1)	502 (18.2)	145 (7.4)	1211 (26.0)	178 (9.4)	289 (20.2)	221 (7.7)	163 (8.1)
7	Munhari (M)	2	121 (0.6)	44 (1.7)	63 (2.3)	-	-	-	-	14 (0.5)	-
8	Pusaro (P)	5	2057 (10.2)	127 (4.9)	364 (13.2)	171 (8.8)	702 (15.1)	431 (22.9)	-	199 (7.0)	63 (3.1)
9	Sarua (S)	3	749 (3.7)	197 (7.7)	40 (1.5)	90 (4.6)	52 (1.1)	45 (2.4)	91 (6.4)	34 (1.2)	200 (10.0)
Total			19562 (97.3)	2489 (96.9)	2717 (98.4)	1915 (98.7)	4476 (96.3)	1843 (97.8)	1359 (95.0)	2788 (97.4)	1975 (98.0)
Misc			544 (2.7)	79 (3.1)	43 (1.6)	25 (1.3)	171 (3.7)	41 (2.2)	71 (5.0)	75 (2.6)	39 (2.0)
Grand Total			20106	2568	2760	1940	4647	1884	1430	2863	2014

7. Subwatershed wise Distribution of Area under Various Land Capability Classes

Sl. No.	Land Cap Unit	Area (ha)	(%)	Subwatershed wise Area in ha							
				Ah2m	Ah3c	Ah3f	Ah3h	Aj1j	Aj1m	Aj1n	Aj3g
1	II	8901	44.3	1451 (56.5)	1048 (38.9)	862 (44.4)	1865 (40.1)	729 (38.7)	507 (35.5)	1357 (57.4)	1082 (53.7)
2	III	1499	7.5	76 (2.9)	502 (18.2)	54 (2.8)	478 (10.3)	68 (3.6)	169 (11.8)	86 (3.0)	66 (3.3)
3	IV	2838	14.1	282 (11.0)	189 (6.8)	223 (11.5)	835 (18.0)	415 (22.0)	216 (15.1)	498 (17.4)	180 (8.9)
4	VI	6265	31.1	680 (26.5)	919 (32.3)	676 (34.8)	1298 (27.9)	631 (33.5)	467 (32.6)	84 (29.6)	647 (32.1)
5	VII	59	0.3	-	59 (2.1)	-	-	-	-	-	-
6	Misc.	544	2.7	79 (3.1)	43 (1.6)	25 (1.3)	171 (3.7)	41 (2.2)	71 (5.0)	75 (2.6)	39 (2.0)
Total		20106	100	2568	2760	1940	4647	1884	1430	2863	2014

8. Subwatershed wise Area (ha) under Different Erosion Classes and their Percentage

Sl. No	Erosion Class	Ah2m	Ah3c	Ah3f	Ah3h	Aj1j	Aj1m	Aj1n	Aj3g	Total
1	Slight (e1)	762 (29.7)	511 (18.5)	320 (16.5)	1310 (28.2)	325 (17.2)	320 (22.4)	750 (26.2)	639 (31.7)	4937 (24.6)
2	Moderate (e2)	790 (30.7)	1228 (44.5)	667 (34.4)	1062 (22.8)	527 (28.0)	452 (31.6)	925 (32.3)	571 (28.4)	6222 (30.9)
3	Severe (e3)	351 (13.7)	346 (12.5)	253 (13.0)	1178 (25.3)	396 (21.0)	196 (13.7)	433 (15.2)	160 (7.9)	3313 (16.5)
4	Very Severe (e4)	586 (22.8)	632 (22.9)	675 (34.8)	926 (20.0)	595 (31.6)	391 (27.3)	680 (23.7)	605 (30.0)	5090 (25.3)
Total		2489	2717	1915	4476	1843	1359	2788	1975	19562
(%)		(96.9)	(98.4)	(98.7)	(96.3)	(97.8)	(95.0)	(97.4)	(98.0)	(97.3)
Misc.		79 (3.1)	43 (1.6)	25 (1.3)	171 (3.7)	41 2.2	71 5.0	75 (2.6)	39 (2.0)	544 (2.7)
Grand Total		2568 (100)	2760 (100)	1940 (100)	4647 (100)	1884 (100)	1430 (100)	2863 (100)	2014 (100)	20106 (100)

