

REPORT ON DETAILED SOIL SURVEY AND LAND
USE OF Ba1a, Ba2b, Ba2f, Ba2g, Ba2h, Ba3a,
Ba3g, Ba3j AND Bb2h SUBWATERSHEDS OF BANAS
CATCHMENT SONE (F.P.R), DIST. SIDHI AND
SHADOL, MADHYA PRADESH

A B S T R A C T

1. Survey area:
Ba1a, Ba2b, Ba2f, Ba2g, Ba2h,
Ba3a, Ba3g, Ba3j and Bb2h
Sub-watersheds of Banas Catchment,
Sidhi and Shadol districts,
Madhya Pradesh.
2. a) Location:
23^o 50' - 24^o 3' N latitude
and 81^o 29' - 81^o 50' E longitude.
b) Agroclimatic zone:
Central plateau and Hills
(Zone No. 8) as per Indian
Planning Commission Report.
3. Type of survey:
Detailed soil survey.
4. Total area:
30,599 ha.
5. Period of survey:
December, 1991 to June, 1992.
6. Soil series and their distribution
in subwatersheds.

6. Soil series and their distribution in sub-watersheds:

Sl. No.	Name of soil series	Sub-watershedwise area in ha.								Total area in ha.	%	
		Ba1a	Ba2b	Ba2f	Ba2g	Ba2h	Ba3a	Ba3g	Ba3j			Bb2h
1.	Amwatikar(AT)	581.0	-	112.6	286.0	568.0	-	474.3	336.2	31.6	2389.7	7.8
2.	Banpur(BP)	788.0	41.0	159.0	40.0	1055.0	-	135.4	7.0	-	2226.2	7.3
3.	Dehwa(DH)	-	218.0	27.6	118.8	-	-	907.1	205.0	-	1476.5	4.7
4.	Kharwar(KH)	686.0	190.8	365.2	262.4	420.0	356.4	492.8	236.0	260.0	3269.6	10.7
5.	Kinamar(KM)	466.0	-	375.0	260.4	211.0	-	24.0	-	126.8	1463.2	4.8
6.	Latehar(LH)	1409.0	1589.0	917.2	1245.6	987.0	365.4	954.0	459.8	306.4	8233.4	26.9
7.	Pouri(P)	854.0	740.8	314.6	423.6	1289.0	149.0	771.0	177.0	345.6	5064.6	16.5
8.	S-lodeeh(SD)	109.0	-	128.8	188.4	28.0	197.0	99.4	94.2	34.2	879.0	2.8
9.	Tansar(T)	63.0	1113.0	696.0	862.6	320.0	469.2	496.0	332.4	90.1	4442.3	14.5
10.	Misc.	324.0	179.4	64.2	130.2	7.0	145.0	194.0	61.4	49.3	1154.5	4.0
Total:		5280.0	4072.0	3161.0	3818.0	4885.0	1682.0	4548.0	1909.0	1244.0	30599.0	100.0
%		17.2	13.3	10.4	12.6	15.0	5.5	14.8	6.2	4.1		

7. Area under different land capability classes in the surveyed area (Subwatershed-wise)

Sl No.	Land capability class	Total area in ha.	%	Ba1a	Ba2b	Ba2f	Ba2g	Ba2h	Ba3a	Ba3g	Ba3j	Bb2h
1.	II	15430.0	50.3	2387	2531.8	1419.2	1828	2699	4624	2623.9	848.8	630.8
2.	III	2342.0	7.6	257	210.2	471.4	379	421	191	80.4	29.4	302.6
3.	IV	8069.1	26.4	1265	1150.6	910.8	954.4	979	883.6	1151.4	633.2	141.1
4.	Vi	1212.8	3.9	466	-	182.8	240.4	211	-	24	-	88.6
5.	VII	2389.7	7.8	581	-	112.6	286	568	-	474.3	336.2	31.6

8. Specific problems and other salient features:

1. Shallow soils occupy 12.5% of the total area,
2. About 80% area is covered by deep to very deep soils.
3. 54145 ha. (80.6%) soils are deep to very deep.
4. Around 6.3% area have manifestation of gully erosion.
5. About 39.3% area are susceptible to severe erosion.
6. About 48.3% area are susceptible to moderate erosion.
7. Unfavourable soil texture occupies 40.9% of the total surveyed area.
8. About 16.8% area have stony and rocky phases.