

ABSTRACT

1. Survey area : Ma3c, Ma3e, Mc1a, Mc1b, Mc1c, Mc2a, Mc2b, Md1a and Md1b
Sub-watersheds of Machkund R.V.P. Catchment,
District ~~W. Khammam~~, ~~Andhra Pradesh~~.
2. Type of survey : Detailed soil survey
3. Period of survey : November, 1980 to 30th June, 1981
4. Specific problems of sub-watershed of the surveyed area (in ha.)

S.N.	Nature of problems.	Total	%	Name of the soil series.
1	2	3	4	5
1.	Moderate erosion.	6300	25.7	Araku, Bilaput, Godiput, Halangapada, Javaguda, Kangrapada, Kolarsing, Muchingput & Muliaput.
2.	Severe erosion	15829	64.7	Kalupada, Godiput, Muliaput, Nawaput, Pipluputtu, Tatiput.
3.	Very severe erosion	665	2.7	Bilaput, Halangapada, Javaguda & Kolarsing.
4.	Seasonal over flow	863	3.5	Kona.
5.	Slightly stony	4154	17.0	Gudiput, Halangapada, Javaguda, Kangrapada & Muliaput.
6.	Slightly stony & rocky	1891	7.7	Kalupada, Muliaput, Nawaput and Tatiput.
7.	Severely stony & Rocky	13800	56.4	Nawaput, Pipluputtu & Tatiput.
8.	Podu affected area (shifting cultivation)	5122	20.9	Kalupada, Nawaput, Pipluputtu & Tatiput.

SUB-WATERSHEDS

Ma3c	Ma3e	Mc1a	Mc1b	Mc1c	Mc2a	Mc2b	Md1a	Md1b	Remarks
Area %	Area %	Area %	Area %	Area %	Area %	Area %	Area %	Area %	
235	14.7	1735	31.1	991	29.2	1486	53.1	325	250 16.9 229 12.8 518 21.5
					30.1				17.0
1289	80.6	3286	58.8	1915	56.5	2869	58.1	738	53.3 1444 1105 74.5 1478 1705 70.9
					58.1				75.7 82.6
3	0.2	269	4.8	142	4.2	115	2.3	23	1.7 77 - - 27 9 0.4
					2.3				4.0 1.5
54	3.4	202	3.6	149	4.4	152	3.1	32	2.3 40 105 7.1 46 2.6 83 3.5
					3.1				2.1
213	13.3	1188	21.3	452	13.3	886	17.9	359	26.6 235 12.3 204 13.8 183 10.2 434 18.1
					17.9				2.3
304	19.0	590	10.6	500	14.7	114	2.3	149	10.8 9 0.5 168 11.3 33 1.8 24 1.0
					2.3				
985	61.5	2593	46.4	1378	40.6	2755	55.8	589	42.6 1435 75.2 937 63.2 1445 80.8 1681 69.9
					55.8				
385	24.1	901	16.1	492	14.5	1111	22.5	198	14.3 529 27.7 550 37.1 357 20.8 599 24.9
					22.5				

5. Soil irrigability classes.

<u>Class</u>	<u>Area in ha.</u>	<u>Percentage</u>
A. None to slight soil limitations.	Nil	Nil
B. Moderate soil limitations.	4008	16.4
C. Severe soil limitations	4121	16.8
D. Very severe soil limitations.	Nil	Nil
E. Not suitable.	16355	66.8
Total:-		24485
		100

6. Land irrigability classes.

<u>Class</u>	<u>Area in ha.</u>	<u>Percentage</u>
2s - Moderate soil limitation.	828	3.4
2dt- Moderate drainage and topographic limitation.	863	3.5
3st- Severe soil and topographic limitation.	2317	9.5
4st- Marginal soil and topographic limitation.	4121	16.8
6st- Not suitable due to soil and topography.	16356	66.8
Total:-		24485
		100

7. Paddy soil groups.

<u>Group</u>	<u>Area in ha.</u>	<u>Percentage</u>
Very good	863	3.5
Good	828	3.4
Fair	2317	9.5
Poor to un suitable	20477	83.6
Total:-		24485
		100

8. Hydrologic soil groups.

<u>Group</u>	<u>Area in ha.</u>	<u>Percentage</u>
A. Low run off potential.	16,088	65.7
B. Moderately low run off potential.	6282	25.7
C. Moderately high run off potential.	1499	6.1
D. High run off potential.	616	2.5
Total:-		24,485
		100

