

REPORT ON PRIORITISATION SUBWATERSHEDS IN
SILERU AND MACHKUND CATCHMENTS, KORAPUT DISTRICT, ORISSA
AND VISAKHAPATNAM DISTRICT, ANDHRA PRADESH

A B S T R A C T

1. Survey area Sileru and Machkund catchments, Koraput district, Orissa and Visakhapatnam district, Andhra Pradesh
2. Location 17°46' to 18°40' N latitude
82°05'27" to 82°58'40" E longitude
3. Total area 4,67,519 ha
Sileru : 2,77,575 ha
Machkund : 1,89,944 ha
4. Period of survey November 1990 to May 1991
5. Type of survey Rapid reconnaissance
6. Base material Toposheet (1:50,000) Survey of India
7. Hydrologic division Catchment Sileru (S)
Subcatchments : Sa, Sb, Sc, Sd, Sf, Sg, Sh, Sj, Sk, Sm, Sn, Sp, Sq
Watersheds : 31
Subwatersheds : 199
Catchment Machkund (M)
Subcatchments : Ma, Mb, Mc, Md, Mf, Mg, Mh, and Mj.
Watersheds : 21
Subwatersheds : 129
8. Priority categorisation

Sr. No.	Priority category	Sediment yields index range	No. of subwater sheds	Area (ha)	Percentage
1.	Very high	Above 1600	35	45,130	16.6
2.	High	1401 - 1600	82	1,14,666	42.2
3.	Medium	1301 - 1400	71	98,891	36.4
4.	Low	Below 1301	11	12,963	4.8
	Total		199	2,71,650	100.0
	Misc. area (Submergance, habitation, stream tank)			5,925	
	Grand total			2,77,575	

(ii)

-- Machkund catchment --

Sr. No.	Priority Category	Sediment yields index range	No. of subwater sheds	Area (ha)	Percentage
1.	Very high	Above 1400	48	67,746	36.6
2.	High	1401-1600	73	1,07,235	57.9
3.	Medium	1301-1400	8	10,152	5.5
4.	Low	Below 1301	-		
	Total		129	1,85,133	100.0
	Misc. area (Submergance, habitation, stream, tank)			4,811	
	Grand Total			1,89,944	

9. Mapping unit and area under each

Sr. No.	Erosion Intensity mapping unit	Area (ha)	Percentage
---------	--------------------------------	-----------	------------

Sileru catchment

1.	A	5,965	2.2
2.	B	1,25,000	46.0
3.	C	29,505	10.9
4.	D	40,875	15.0
5.	F	27,779	10.2
6.	H	42,526	15.7
	Total	2,71,650	100.0

Machkund Catchment

1.	A	4,262	2.3
2.	B	37,941	20.5
3.	C	13,119	7.1
4.	D	45,828	24.8
5.	F	21,760	11.7
6.	H	62,223	33.6
	Total	1,85,133	100.0