

" Report on detailed Soil Survey and land use of Ka4p, Ka4q and Ka4s subwatersheds of Kabini catchment in Manantavadi and Vayithiri taluks, Wynad district, Kerala State.

ABSTRACT

1. Surveyed area : Ka4p, Ka4q and Ka4s subwatersheds, Kabini catchment in Manantavadi and Vayithiri taluks, Wynad district, Kerala State.
2. Total area mapped and reported : 13,139 hectares
3. Kind of survey : Detailed Soil survey
4. Period of work : November 1991 to May 92
5. Agro climatic zone : 12
6. Soil series mapped and total subwatershedwise area under each series.

Sl. No.	Name of the soil series	Subwatersheds			Total in hect.	Area %
		Ka4p	Ka4q	Ka4s		
1.	Edachana	124	17	37	178	1.3
2.	Kabini	142	17	10	169	1.3
3.	Ladysmith	416	1236	27	1679	12.8
4.	Mundankutty	2256	1734	1432	5422	41.3
5.	Pinnongod	406	1229	251	1886	14.3
6.	Tariod	156	375	8	539	4.1
7.	Vanniyottu	1309	306	719	2334	17.8
8.	Miscellaneous	193	660	79	932	7.1
Total		5002	5574	2563	13139	100%
Percent		38.1	42.4	19.5	100%	

7. Area under different land capability classes

Sl. No.	Land capability unit	Area	Percentage	Soil series
1	II	2925	22.3	Edachana, Kabini, Mundankutty, Vanniyottu
2	III	3434	26.1	Mundankutty, Tariod
3	IV	2978	22.7	Mundankutty, Pinnongod
4	VI	561	4.2	Mundankutty, pinnongod
5	VII	387	3.0	Pinnongod, Tariod
	Mis.	932	7.1	
Total		11217	85.4	

Miscellaneous lands included in the area under rockout crops, stream, river, road tank and inhabitation.

8. Area under afforestation and pasture development classification

Sl. No.	Afforestation & pasture classification	Area	Percentage	Soil series
1	II	437	3.3	Ladysmith, Tariod
2	III	783	6.0	Ladysmith
3	IV	702	5.3	Ladysmith, Tariod
	Total	<u>1922</u>	<u>14.6</u>	

9. Specific problematic areas:

-	Moderate erosion on slope above 3% on very deep soils	-	9177 hectare
-	Moderate erosion on slope above 3% on moderately deep to deep soils	-	521 ..
-	Severe erosion on slopes above 1% on very deep soils	-	472 ..
-	Severe erosion on slope above 1% on moderately deep to deep soils	-	161 ..
	Total		<u>10331 hectare</u>