

Detailed soil survey and land use of Yc3a, Yc3b, Yc3c, Yc3d, Yc3f, Yc3g, Yc3h, Yc3j, Yc3k and Yc3m subwatersheds, Upper Yamuna catchment, Tehsil Paonta Sahib and Renuka (Sangrah) District Sirmour, Himachal Pradesh.

ABSTRACT

1. Survey area : Upper Yamuna catchment Yc3a, 3b, 3c,3d 3f, 3g, 3h 3j. 3k and Yc3m subwatersheds.
2. Total area : 10,816 hectares
3. Kind of survey : Detailed soil survey
4. Period of survey : May to July 1987 and July 1989
5. Soil series mapped and area covered by each series

Sl. No.	Soil series	Yc3a	Yc3b	Yc3c	Yc3d	Yc3f	Yc3g	Yc3h	Yc3j	Yc3k	Yc3m	Total area	%
1.	Bhagwanpur	9 0.1	-	-	-	17 0.2	11 0.1	-	-	-	9 0.1	46	0.45
2.	Bharari	-	-	-	13 0.1	-	-	-	-	-	-	13	0.1
3.	Debarghat	249 2.3	237 2.2	1114 10.3	271 2.5	426 3.9	445 4.1	633 5.9	553 5.1	216 2.0	511 4.7	4655	43.2
4.	Khajiar	-	-	26 0.2	81 0.7	-	5 0.05	3	8 0.1	77 0.7	205 1.9	405	3.75
5.	Polar	18 0.2	6 0.05	-	-	22 0.2	-	-	-	11 0.1	67 0.6	124	1.1
6.	Punnar	-	94 0.87	67 0.6	153 1.5	139 1.3	-	-	-	61 0.6	-	514	4.7
7.	Satayi	96 0.9	106 0.98	154 1.5	326 3.0	56 0.5	208 1.95	231 2.1	160 1.5	73 0.6	37 3.0	1447	13.3
8.	Taran	-	-	172 1.6	725 6.7	22 0.2	262 2.4	573 5.3	376 3.5	464 4.3	604 5.6	3198	29.6
Total		372 3.5	443 4.1	1533 14.2	1569 14.5	682 6.3	931 8.6	1440 13.3	1097 10.2	902 8.3	1433 13.2	10402	96.2
Misc.		85 0.8	14 0.1	-	-	116 1.1	8 0.1	-	-	50 0.4	141 1.3	414	3.8
GRAND TOTAL		457 4.3	457 4.2	1533 14.2	1569 14.5	798 7.4	939 8.7	1440 13.3	1097 10.2	952 8.7	1574 14.5	10816	100%

6. Area under different land capability classes.
Subwatershedwise with percentage (area in hectares)

Sl. No.	Capability class	Total area in hectare	Yc3a	Yc3b	Yc3c	Yc3d	Yc3f	Yc3g	Yc3h	Yc3j	Yc3k	Yc3m
1.	II	1753 16.2	114 24.9	74 16.2	180 11.7	369 23.5	78 9.8	208 22.2	231 16.0	160 14.6	64 6.7	275 17.5
2.	III	170 1.6	-	-	-	51 3.3	-	5 0.5	3 0.2	8 0.7	69 7.3	34 2.2
3.	IV	106 1.0	9 2.0	38 8.3	-	-	11 1.4	11 1.2	-	-	28 2.9	9 0.6
	Total	2029 18.8	123 26.9	112 24.5	180 11.7	420 26.8	89 11.2	224	234 16.2	168 15.3	161 16.9	318 20.3
4.	VII	6423 59.4	89 19.5	81 17.7	1067 69.6	258 16.4	456 57.1	648 69.0	1206 83.8	851 77.6	713 74.9	1054 67.0
5.	VIII	1944 17.95	160 35.0	250 54.7	286 18.7	891 56.8	131 16.4	59 6.3	-	78 7.1	28 2.9	61 3.8
6.	F	6 0.05	-	-	-	-	6 0.08	-	-	-	-	-
	Total	8373 77.4	249 54.4	331 72.4	1353 88.3	1149 73.2	593 73.2	707	1206 83.8	929 84.7	741 77.8	1115 70.8
7.	M.L	414 3.8	85 18.6	14 3.1	-	-	116 14.5	8 0.8	-	-	50 5.3	141 8.9
	GRAND TOTAL	10816 100%	456 100%	457 100%	1533 100%	1569 100%	798 100%	939 100%	1440 100%	1097 100%	952 100%	1574 100%

Land capability classes

Land capability unit	Soil series	Area in ha.	Percentage
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a. ARABLE LAND

IIs-1	Polar	67	0.6
IIs-1	Polar	28	0.2
IIs-2	Polar, Satayi	181	1.7
IIs-3	Khajiar, Satayi	1477	13.7
IIIs-1	Bharari, Khajiar	170	1.6
IVs-1	Satayi, Bhagwanpur	106	1.0
	Sub-total	2029	18.8

