

**Report on Detailed Soil Survey and Land Use of Nh5a, Nh5b, Nh5c, Nh5g, Nh6c, Nh6k and Nh6m Subwatersheds, Narmada Catchment, (Sardar Sarovar RVP), Tehsil: Barwah, Distt.: Kargon and Tehsil : Khandwa, Distt.: Khandwa; Madhya Pradesh.**

**ABSTRACT**

- 1. Surveyed Area** : *Nh5a, Nh5b, Nh5c, Nh5g, Nh6c, Nh6k and Nh6m Subwatersheds, Narmada Catchment (Madhya Pradesh)*
- 2. (a) Total Area Mapped and Reported** : *9231 ha*
- (b) Type of Survey** : *Detailed Soil Survey*
- (c) Period of Survey** : *March 1999 to June, 1999.*
- (d) Agro-climatic zone** : *IX, Western Plateau and Hills region.*

**3. Tahsil wise and series wise distribution of area (ha) under different subwatersheds**

Sr. No.	Series Name	Tah.: Barwah, Dist.: Kargon			Sub Total	Tah. : Khandwa Distt.: Khandwa					Sub Total	Grand Total
		Nh5a	Nh5b	Nh5c		Nh5c	Nh5g	Nh6c	Nh6k	Nh6m		
1.	<i>Dukhiya (DK)</i>	-	-	2 0.02	2	41 0.4	-	-	92 1.1	20 0.2	153 -	<b>155</b> <b>1.7</b>
2.	<i>Jharpa (J)</i>	486 5.3	620 6.7	142 1.54	1248 -	154 1.7	170 1.8	122 1.3	173 1.9	164 1.8	783 -	<b>2031</b> <b>22.0</b>
3.	<i>Khardi (KH)</i>	22 0.2	50 0.5	68 0.74	140 1.5	28 0.3	91 1.0	-	180 2.0	259 2.8	558 -	<b>698</b> <b>7.6</b>
4.	<i>Kothi (K)</i>	-	-	-	-	-	121 1.3	-	197 2.1	42 0.5	360 -	<b>360</b> <b>3.9</b>
5.	<i>Narmada (N)</i>	428 4.64	342 3.7	150 1.64	920 -	178 1.92	323 3.5	161 1.7	115 1.2	105 1.1	882 -	<b>1802</b> <b>19.5</b>
6.	<i>Palkha (PK)</i>	21 0.2	10 0.1	68 0.74	99 -	69 0.75	-	-	21 0.2	9 0.1	99 -	<b>198</b> <b>2.1</b>
7.	<i>Pipliya (P)</i>	-	-	37 0.4	37 -	2 0.02	-	-	107 1.2	55 0.6	164 -	<b>201</b> <b>2.2</b>
8.	<i>Pachla (PL)</i>	-	-	-	-	-	1082 11.7	89 1.1	501 5.4	240 2.6	1912 -	<b>1912</b> <b>20.7</b>
9.	<i>Rekla (RK)</i>	6 0.06	63 0.7	37 0.4	106 -	1 0.01	140 1.5	-	291 3.1	83 0.9	515 -	<b>621</b> <b>6.7</b>
10.	<i>Misc.</i>	352 3.8	152 1.7	103 1.12	607 -	120 1.3	403 4.4	22 0.2	48 0.5	53 0.6	646 -	<b>1253</b> <b>13.6</b>
<b>Total</b>		<b>1315</b>	<b>1237</b>	<b>607</b>	<b>3159</b>	<b>593</b>	<b>2330</b>	<b>394</b>	<b>1725</b>	<b>1030</b>	<b>6072</b>	<b>9231</b>
<b>%</b>		<b>14.2</b>	<b>13.4</b>	<b>6.6</b>	<b>-</b>	<b>6.4</b>	<b>25.2</b>	<b>4.3</b>	<b>18.7</b>	<b>11.2</b>	<b>-</b>	<b>100</b>

#### 4. Tehsil/ District and Land Capability wise distribution of Area (ha) under different Subwatersheds

Sr. No.	Land Capab-ility Class	Tah. Barwah, Khargon Subwatersheds			Sub Total	Tah. & District: Khandwa Subwatersheds					Sub Total	Total
		Nh5a	Nh5b	Nh5c		Nh5c	Nh5g	Nh6c	Nh6k	Nh6m		
1.	<i>IIs</i>	374 4.1	516 5.6	121 1.3	1011 -	-	138 1.5	-	-	-	138	1149 12.5
2.	<i>IIs</i>	189 2.1	22 0.2	132 1.4	343	144 1.6	137 1.5	54 0.6	287 3.1	237 2.6	859 -	1202 13.0
3.	<i>IIIs</i>	51 0.6	82 0.9	13 0.1	146	52 0.6	14 0.2	2 0.02	242 2.6	72 0.8	382 -	528 5.7
4.	<i>Ives</i>	310 3.4	412 4.5	149 1.6	871 -	153 1.6	473 5.1	120 1.3	409 4.4	340 3.7	1495 -	2366 25.6
5.	<i>Vies</i>	39 0.4	53 0.6	81 0.8	173 -	132 1.4	166 1.8	8 0.08	367 3.9	292 3.2	965 -	1138 12.3
6.	<i>VIIes</i>	-	-	-	-	-	547 5.9	-	-	-	547	547 5.9
<b>Sub-Total</b>		963	1085	496	2544	481	1475	184	1305	941	4386	6930
<b>Under R.F.</b>		-	-	-	-	-	452 4.9	188 2.0	372 4.0	36 0.4	1048 -	1048 11.4
<b>Misc.</b>		352 3.8	152 1.6	103 1.1	607 -	120 1.3	403 4.4	22 0.2	48 0.5	53 0.6	646 -	1253 13.6
<b>Grand Total</b>		<b>1315</b> <i>14.3</i>	<b>1237</b> <i>13.4</i>	<b>599</b> <i>6.3</i>	<b>3151</b> <i>34.0</i>	<b>601</b> <i>6.5</i>	<b>2330</b> <i>25.3</i>	<b>394</b> <i>4.2</i>	<b>1725</b> <i>18.7</i>	<b>1030</b> <i>11.3</i>	<b>6080</b> -	<b>9231</b> <i>100</i>

#### 5. Salient features:

- The survey area bears 3429 hectares (37.1%) of land under shallow soils.
- An area of 1436 ha (15.6%) has gentle slopes (3-5%)
- An area of 3232 ha (35%) has severe erosion hazards.
- An area of 1391 ha (15%) has moderate slopes (5-10%) with severe to very severe erosion hazards.