



SOIL ATLAS

VIRUDHUNAGAR

DISTRICT



SOIL SURVEY & LAND USE ORGANISATION
(Department of Agriculture, Tamil Nadu)

Coimbatore - 641 013

2005



SOIL ATLAS VIRUDHUNAGAR DISTRICT

SOIL SURVEY & LAND USE ORGANISATION
(DEPARTMENT OF AGRICULTURE, TAMIL NADU)
COIMBATORE - 641 013

2005

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FOREWORD



Soil Survey and Land Use Organization of this Department have completed the reconnaissance soil survey of Tamilnadu using small scale maps at taluk level. These maps are useful in land use planning at regional level and to identify the soil borne potentials and constraints.

With a view to translate the soil survey data for better understanding and practical use, attempts were made to prepare and document the District Soil Atlas. Information generated by the Soil Testing and Mobile Soil Testing Laboratories have also been included in respect of soil fertility status. In a phased manner these atlases were got printed for 7 districts in 1997-98 and 16 districts in the year 1998 - 99.

In 2004 - 05, printing of Soil Atlas for 5 districts namely Thoothukudi, Virudhunagar, Cuddalore, Villupuram and Thiruvannamalai has been taken up at a cost of Rs. 4.8 lakhs. With this, the Department has complied Soil Atlas for all the districts in Tamil Nadu except Chennai.

In the Atlas, information has been arranged in 3 tiers. In the first tier vital information has been provided at the District level. In the second tier soil and their vital interpretation are provided at Taluk level. Lastly, fertility status is provided at Village level.

I am proud to state that this Department was the first to develop such Atlas in the whole of Country and therefore congratulate all those who have contributed for the preparation of Atlas. I am sure that the Atlas will be of immense use for all those who are concerned with land use planning.


(Jagmohan Singh Raju)

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CONTRIBUTORS

ABOUT THE DISTRICT SOIL ATLAS

Agriculture plays a vital role in the Indian economy and provides occupation to about 75% of the population which in turn depends on several inputs applied on soil. As such soil forms the basic non-renewable natural resource, its health and productivity on a sustained basis have to be maintained for sound production systems. All inputs in the production system can be functional only when there is soil/land, which is qualitatively suitable for such purpose.

In this context, Soil Survey forms the basic tool for agricultural development programmes and provides information on characteristics and location of the different kinds of soils and their management potentials as well as their limitations for different purposes. Keeping this in view a data base on soils of the district have been developed through Reconnaissance Soil Survey and this could be found useful for planning at regional level.

In this Atlas, all the information pertinent to the socio economic condition of the district is provided briefly. Soil characteristics and their interpretations are subsequently presented at district level in small scale. For better understanding, soil information and their interpretations are given separately at taluk level also. Further, dominant kind of soil at village level and fertility status have been provided for developing optimum fertility management programmes.

As soil is highly heterogeneous in nature, differences in soil can occur within short distance and therefore, it is needless to say that Detailed Soil Surveys at higher intensity are necessary for micro level development programmes.

“The wealth of a nation lies in her soils and their intelligent use and management”.

- Richard Gordon Moores (1970)

LOCATION

- Virudhunagar district is bounded on the North by Theni and Madurai districts, East by Sivagangai and Ramanathapuram Districts, South by Thoothukudi and Tirunelveli districts and West by Kerala State.
- The total geographical area of the district is 4243.23 sq km and divided into eight taluks namely Aruppukottai, Kariapatti, Rajapalayam, Sattur, Sivakasi, Srivilliputhur, Tiruchuli and Virudunagar.
- Virudhunagar is the district headquarters.

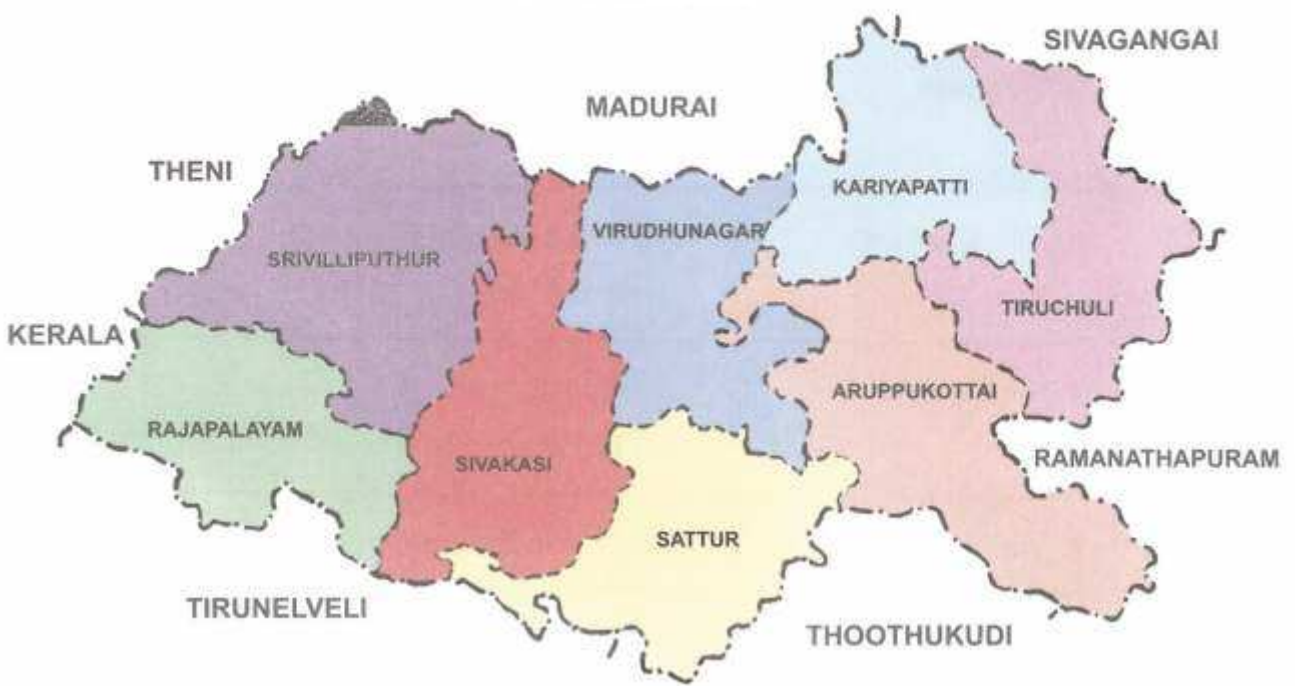
Geocode

- North Latitude - $9^{\circ} 12'$ and $9^{\circ} 47'$,
- East Longitude - $77^{\circ} 20'$ and $78^{\circ} 24'$

VIRUDHUNAGAR DISTRICT LOCATION



VIRUDHUNAGAR DISTRICT

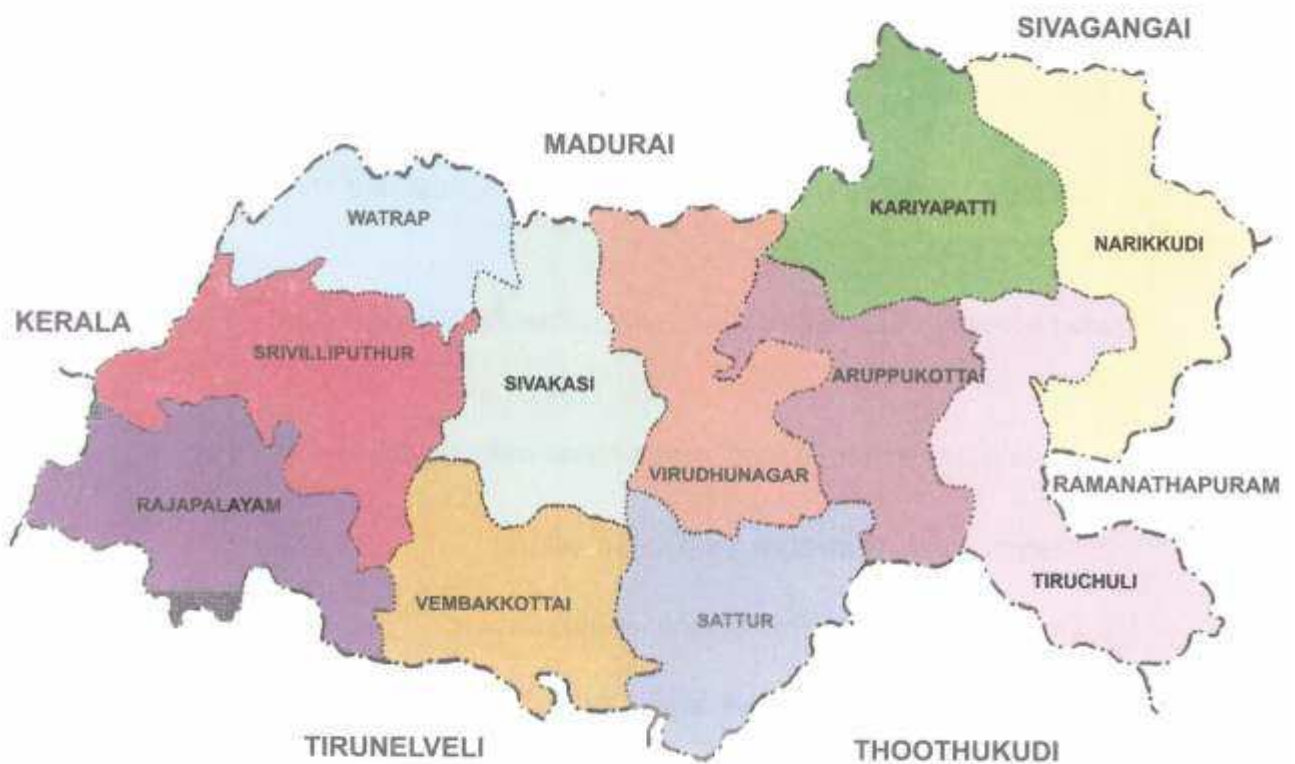


TALUKS AND PANCHAYAT UNIONS

The district comprises of eight taluks and eleven panchayat unions as indicated below:

Taluk	Panchayat Union
1. Aruppukottai	1. Aruppukottai
2. Kariapatti	2. Kariapatti
3. Rajapalayam	3. Rajapalayam
4. Sattur	4. Sattur
5. Sivakasi	5. Sivakasi 6. Vembakottai
6. Srivilliputhur	7. Srivilliputhur 8. Watrap
7. Tiruchuli	9. Narikkudi 10. Tiruchuli
8. Virudhunagar	11. Virudhunagar

TALUKS & PANCHAYAT UNIONS VIRUDHUNAGAR DISTRICT



REFERENCE

- · · · — STATE BOUNDARY
- · · — DISTRICT BOUNDARY
- — — COASTAL BOUNDARY

LEGEND

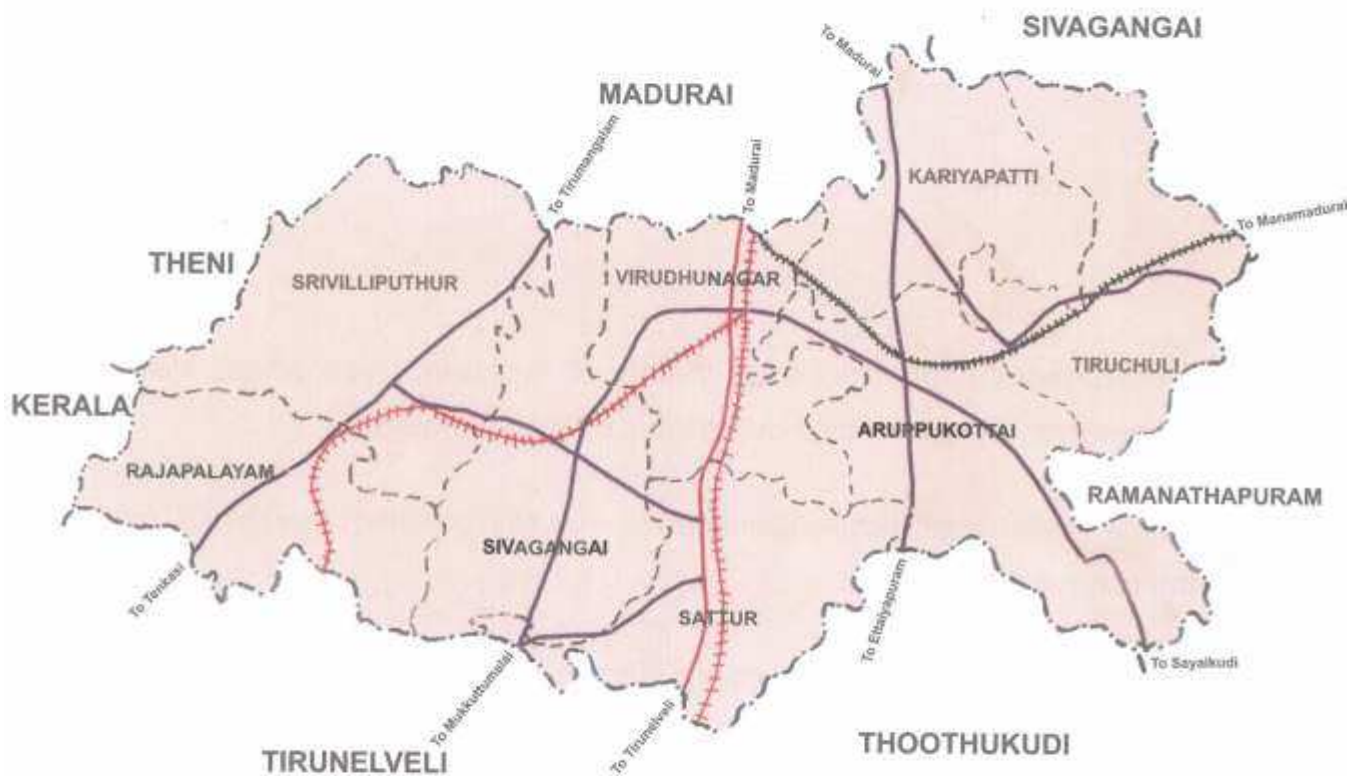
- · — TALUK BOUNDARY
- — — PANCHAYAT UNION BOUNDARY

ROADS AND RAILWAYS

All towns and important villages are connected through surface traffic.

- The National Highway (NH7) passes through Sattur and Virudhunagar to a distance of 52.5 km.
- A State Highway passes through Srivilliputhur and Rajapalayam to a distance of 41 km.
- The following three main district roads cover main portions of the district.
 1. District road - Virudhunagar to Sayalkudi
 2. District road - Virudhunagar to Rajapalayam
 3. District road - Virudhunagar to Ramanathapuram
- Virudhunagar district is connected with adjacent districts through broad-gauge railways passing through Virudhunagar and Sattur.
- A new broad-gauge railway is recently formed linking Virudhunagar and Shencottai via Rajapalayam.
- A meter gauge passes through Virudhunagar and Manamadurai via Aruppukottai.

ROADS AND RAILWAYS VIRUDHUNAGAR DISTRICT



REFERENCE

- · · · — STATE BOUNDARY
- · · — DISTRICT BOUNDARY
- · — TALUK BOUNDARY
- COASTAL BOUNDARY

LEGEND

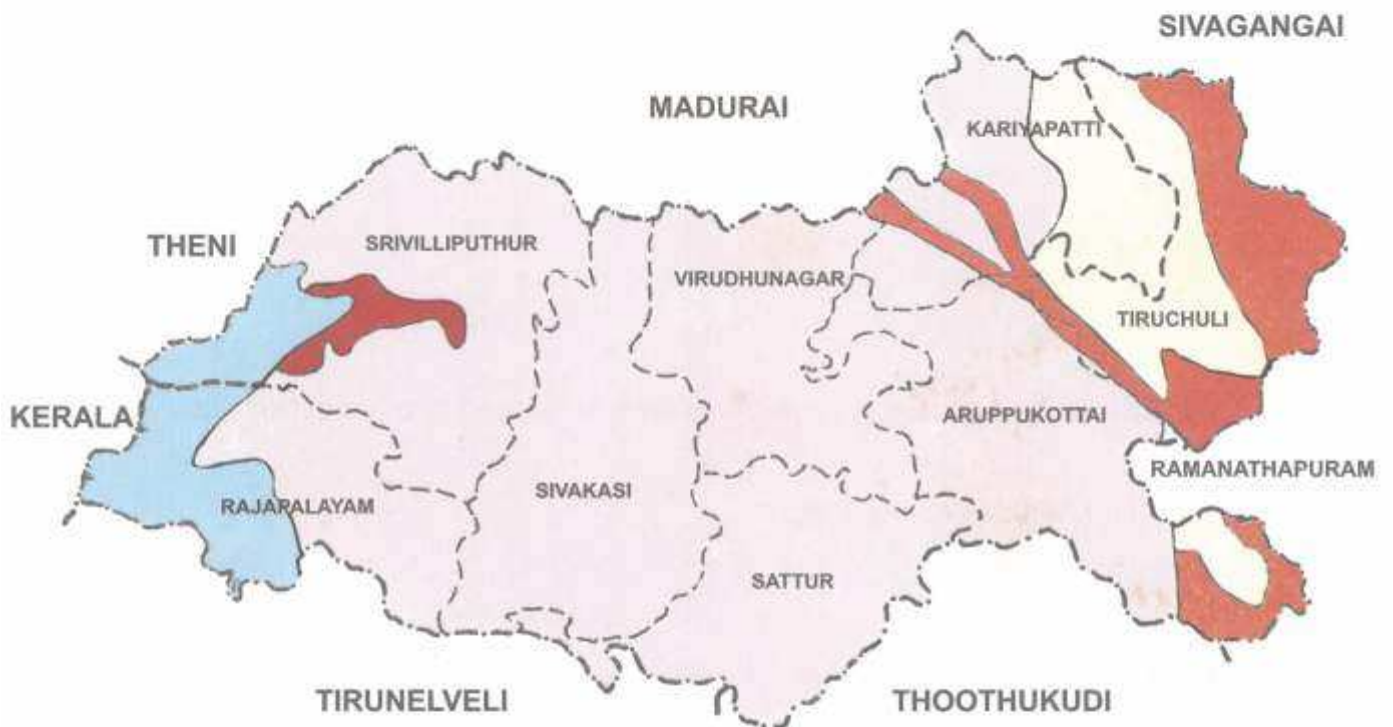
- NATIONAL HIGHWAY
- ++++ RAILWAY LINE (B.G.)
- ##### RAILWAY LINE (M.G.)
- DISTRICT ROAD

GEOLOGY

- Virudhunagar district consists mainly of Archaean type which includes charnockite, granite and various groups of gneissic rocks.
- The gneissic rocks include granitoid mica gneiss, garnetic mica gneiss, mixed and composite gneisses.
- In black soil areas calc gneisses are noticed in many places.
- Tertiaries include limestone, hard calcareous tuffa and kankar.
- Gneissic group of rocks are noticed in all taluks.
- Charnockites are noticed mainly in Rajapalayam and Srivilliputhur taluks.
- Alluvium and tertiaries are noticed in the eastern part of the district.

GEOLOGY

VIRUDHUNAGAR DISTRICT



REFERENCE

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LEGEND

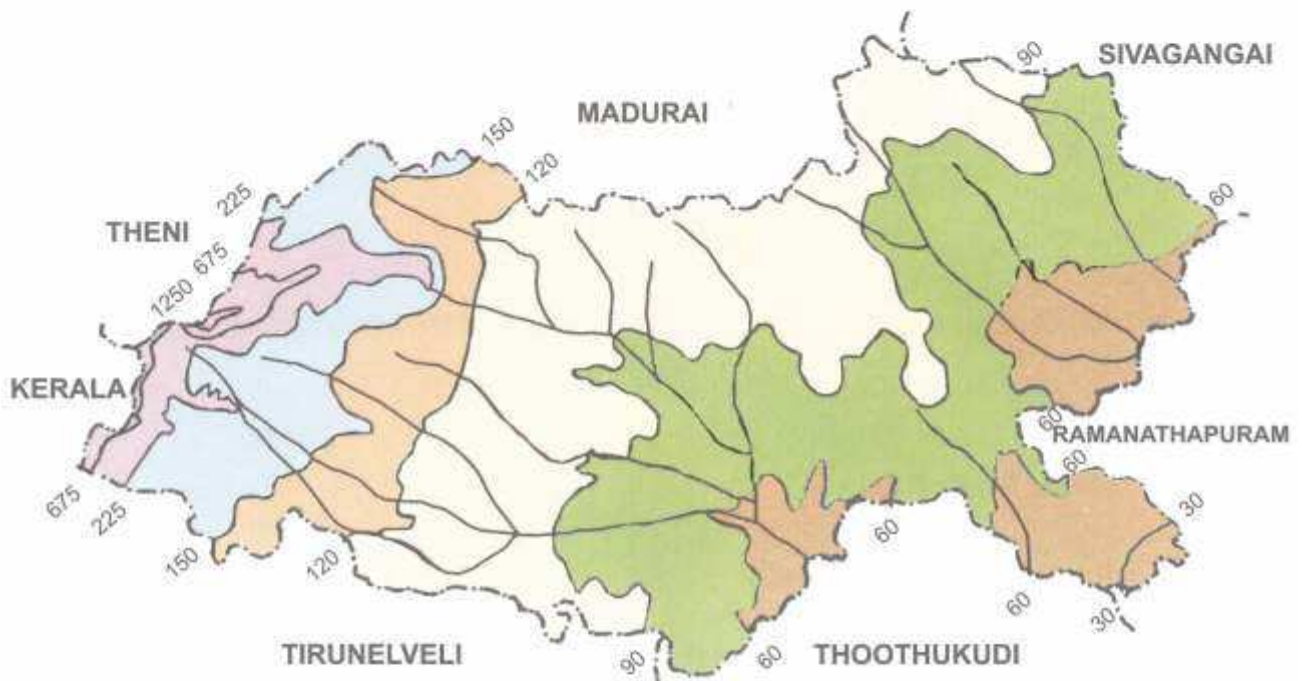
- CHARNOCKITE
- GNEISS
- GRANITE
- ALLUVIUM
- TERTIARIES

PHYSIOGRAPHY

- The Virudhunagar district is physiographically divided into two types viz.
 1. The higher elevated lands
 2. Flat plains.
- Major portion of the district is covered by plain topography.
- Parts of Rajapalayam and Srivilliputhur taluks are covered by high hills in the west. These hills form part of the Western Ghats. There are number of waterfalls in the hill ranges.
- Other taluks can be described as a very vast stretch of flat plains with a slope gradient of 0 - 3%. The relief in these taluks is normal. Streams and rivers run towards the southeast direction.

PHYSIOGRAPHY

VIRUDHUNAGAR DISTRICT



REFERENCE

- · · · — STATE BOUNDARY
- · · — DISTRICT BOUNDARY
- · — TALUK BOUNDARY
- COASTAL BOUNDARY

LEGEND

- upto 60m
- 60 - 90 m
- 90 - 120 m
- 120 - 150 m
- 150 - 225 m
- above 225 m

RIVER BASINS

The district comprises of two major river basins and three minor river basins.

- **Major River Basins**

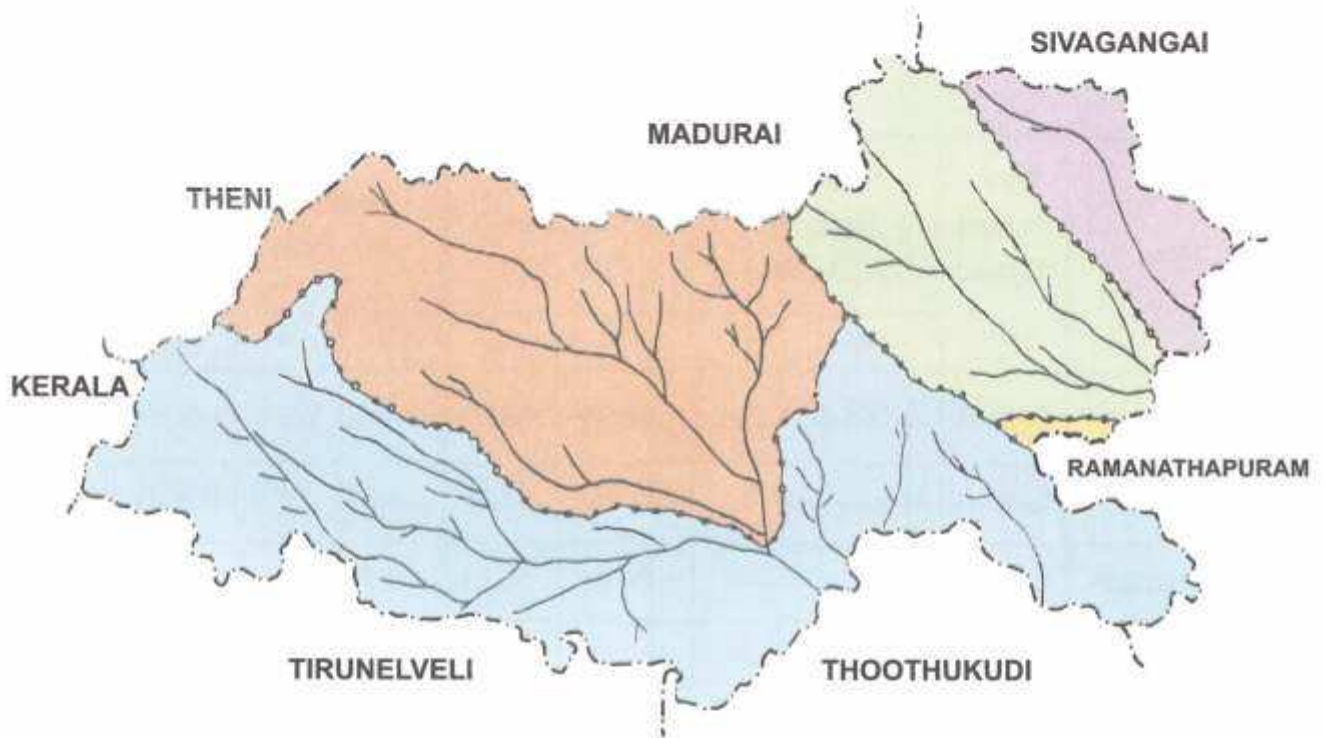
1. Vaippar River Basin
2. Paralai Kridamal River Basin

- **Minor River Basins**

1. Arjuna Nathi Minor Basin
2. Gundanathi and Kanal Odai Minor Basin
3. Gundar Minor Basin

RIVER BASINS

VIRUDHUNAGAR DISTRICT



REFERENCE

- · · · — STATE BOUNDARY
- · · · — DISTRICT BOUNDARY
- · — TALUK BOUNDARY
- COASTAL BOUNDARY

LEGEND

- VAIPPAR BASIN
- ARJUNA NATHI MINOR BASIN
- GUNDA NATHI & KANALODAI MINOR BASIN
- PARALAI KRIDAMAL RIVER BASIN
- GUNDAR MINOR BASIN
- RIVER BASIN BOUNDARY

RAIN FALL

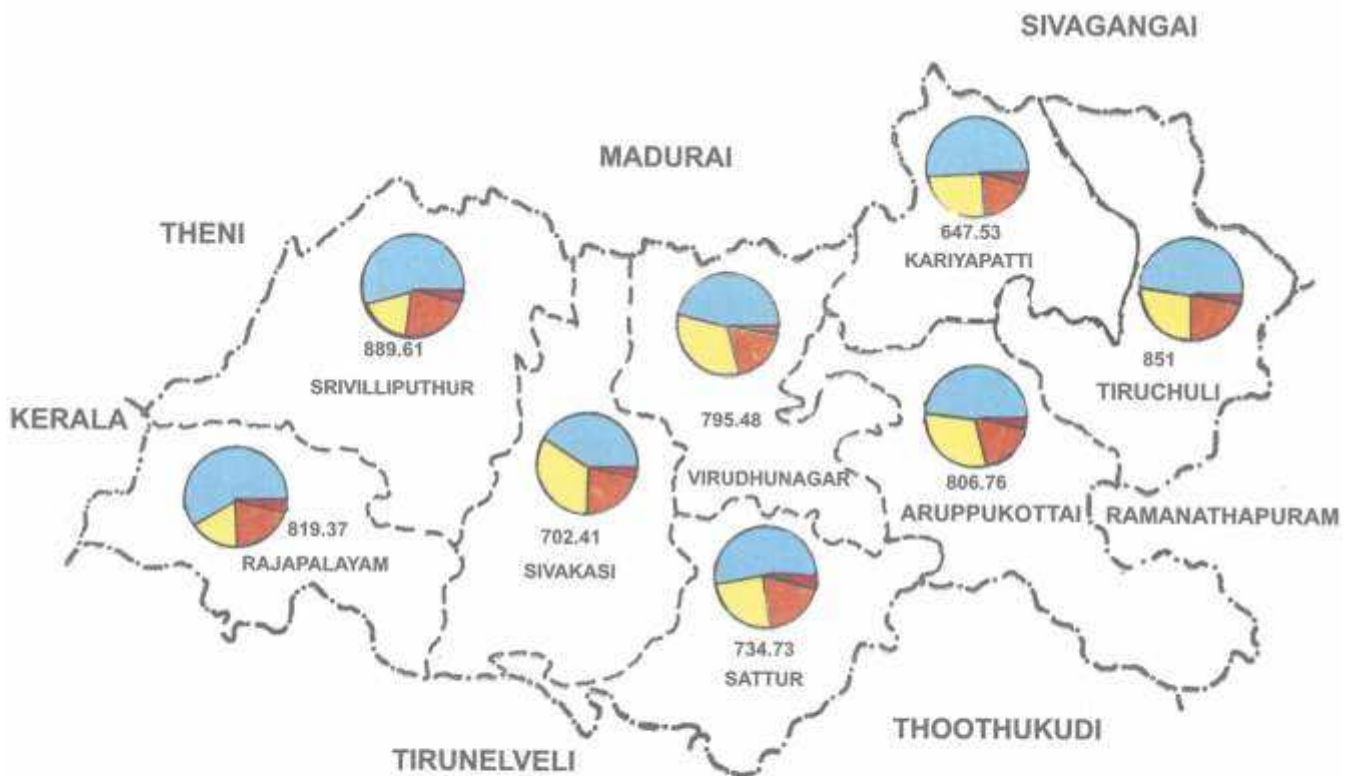
(Mean of 10 years)

Taluk	Mean Annual Rainfall mm	Southwest Monsoon (Jun - Sep)		Northeast Monsoon (Oct - Dec)		Winter (Jan - Feb)		Summer (Mar - May)	
		mm	%	mm	%	mm	%	mm	%
Aruppukottai	806.76	252.45	31.29	389.35	48.26	20.42	2.53	144.54	17.92
Kariapatti	647.53	160.72	24.82	332.60	51.36	24.60	3.80	129.61	20.02
Rajapalayam	819.37	143.81	17.55	476.92	58.21	25.35	3.09	173.29	21.15
Sattur	734.73	181.09	24.65	387.42	52.73	29.79	4.05	136.43	18.57
Sivakasi	702.41	233.00	33.17	287.00	40.86	21.30	3.03	161.11	22.94
Srivilliputhur	889.61	167.47	18.83	482.68	54.25	33.96	3.82	205.5	23.10
Tiruchuli	851.00	239.17	28.10	407.84	47.93	17.44	2.05	186.55	21.92
Virudhunagar	795.48	258.51	32.50	368.42	46.32	18.96	2.38	149.59	18.80
Mean for the district	780.86	204.53	26.19	391.52	50.14	23.98	3.07	160.83	20.60

Taluks of Kariapatti, Sattur and Sivakasi record lower than the district mean.

RAINFALL

VIRUDHUNAGAR DISTRICT



REFERENCE

- STATE BOUNDARY
- DISTRICT BOUNDARY
- . - . - TALUK BOUNDARY
- COASTAL BOUNDARY

LEGEND



795.48 mm ANNUAL RAINFALL

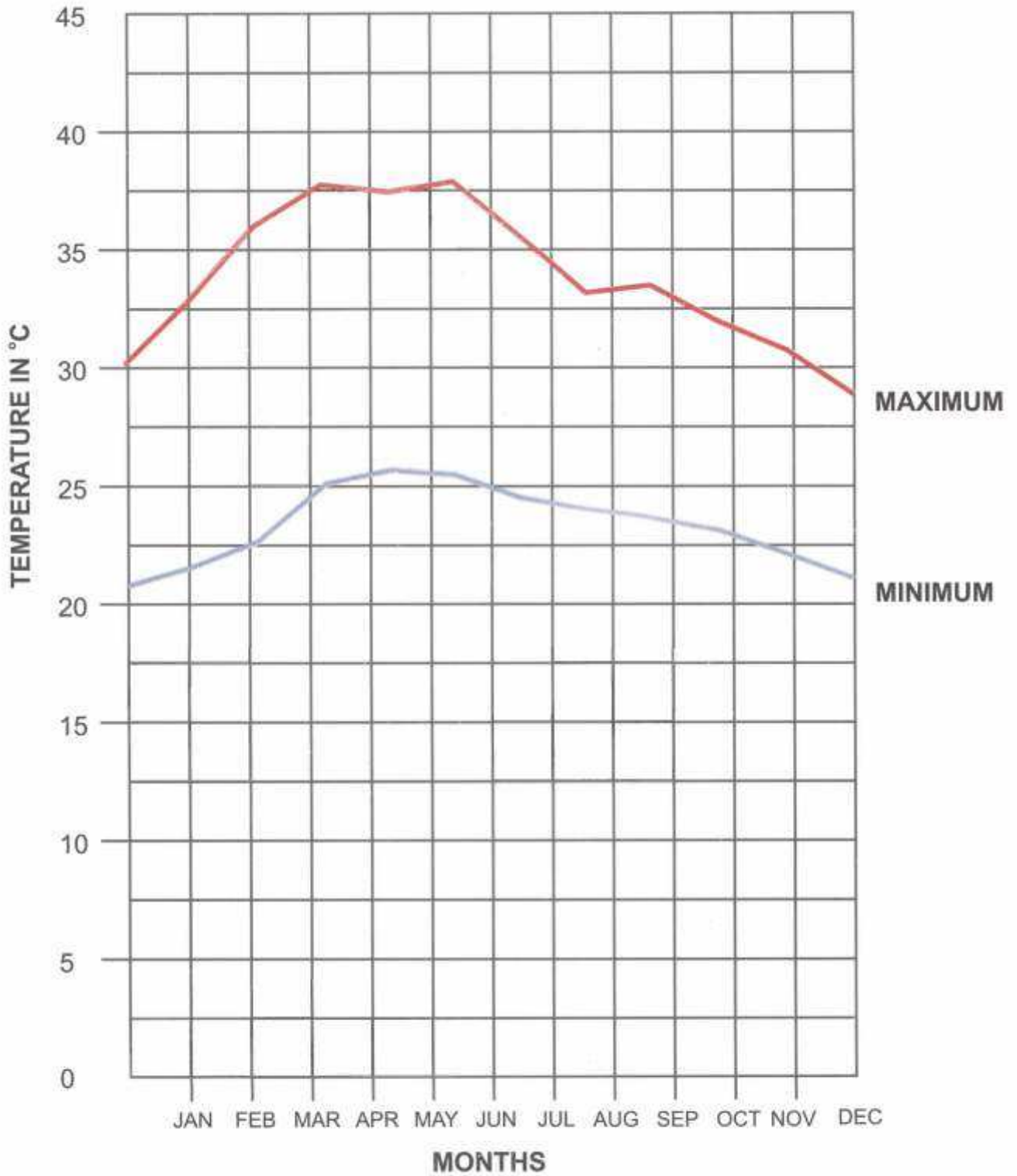
TEMPERATURE

The mean annual temperature of Virudhunagar district is 28.9^oC. Data on atmospheric temperature (^oC) is given below :

Month	Maximum Temperature ^o C	Minimum Temperature ^o C	Mean Temperature ^o C
January	30.4	20.9	25.65
February	33.1	21.7	27.40
March	36.7	22.8	29.75
April	38.4	25.7	32.05
May	38.1	26.2	32.15
June	38.4	25.9	32.15
July	36.3	24.8	30.55
August	33.6	24.3	28.95
September	33.8	23.7	28.75
October	32.3	23.4	27.85
November	30.9	22.4	26.65
December	28.7	21.0	24.85
Mean	34.23	23.57	28.90

TEMPERATURE

VIRUDHUNAGAR DISTRICT

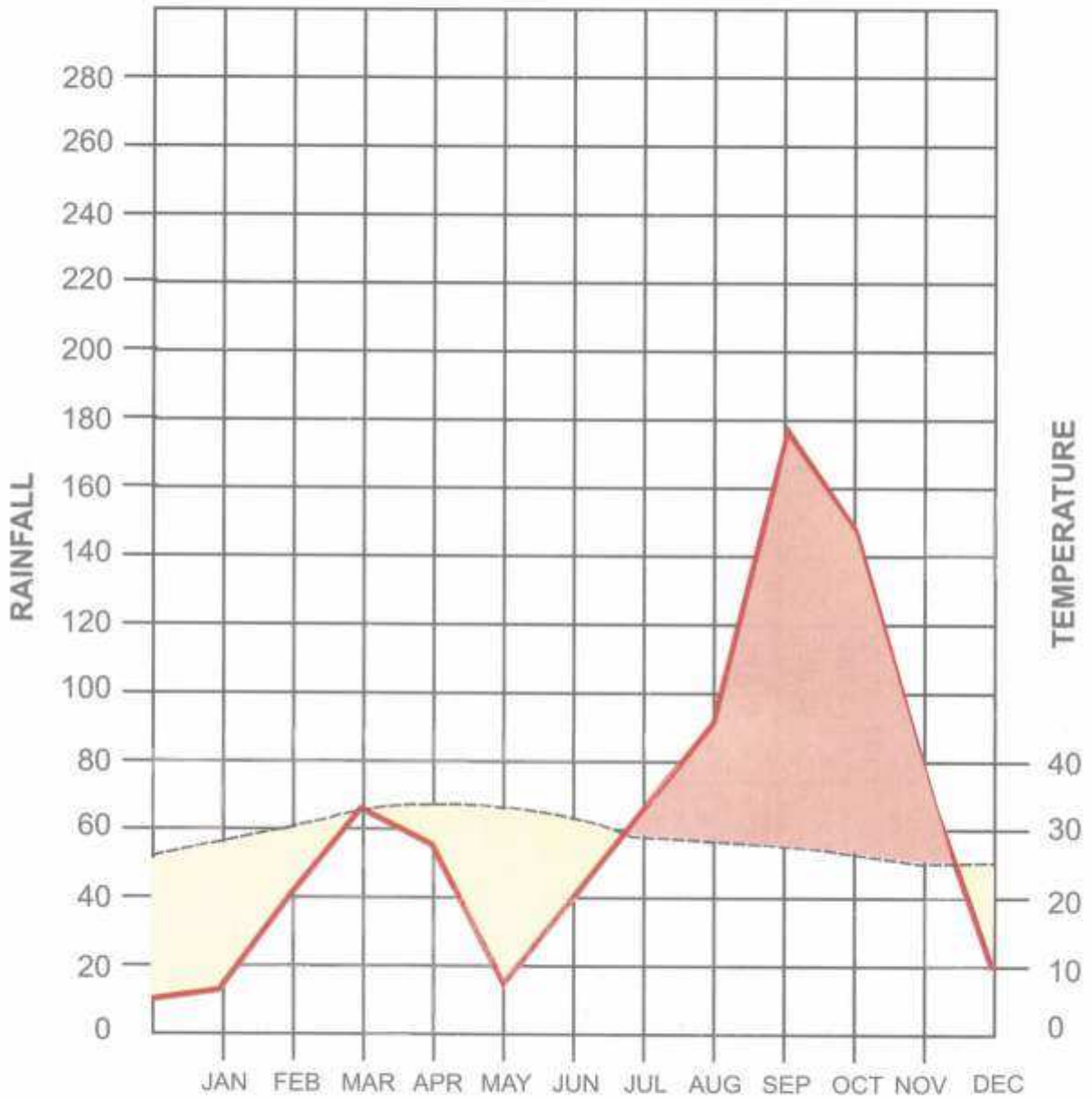


OMBROTHERMIC DATA

Four months, starting from August, appear to be moist under the influence of monsoonic rains followed by a fairly long dry spell.

Month	Mean Rainfall (mm)	Mean Temperature (°C)
January	10.23	25.65
February	13.75	27.40
March	41.12	29.75
April	64.04	32.05
May	55.70	32.15
June	15.11	32.15
July	36.47	30.55
August	61.30	28.95
September	91.64	28.75
October	171.04	27.85
November	144.69	26.65
December	75.77	24.85
Total	780.84	28.90

OMBROTHERMIC DIAGRAM VIRUDHUNAGAR DISTRICT



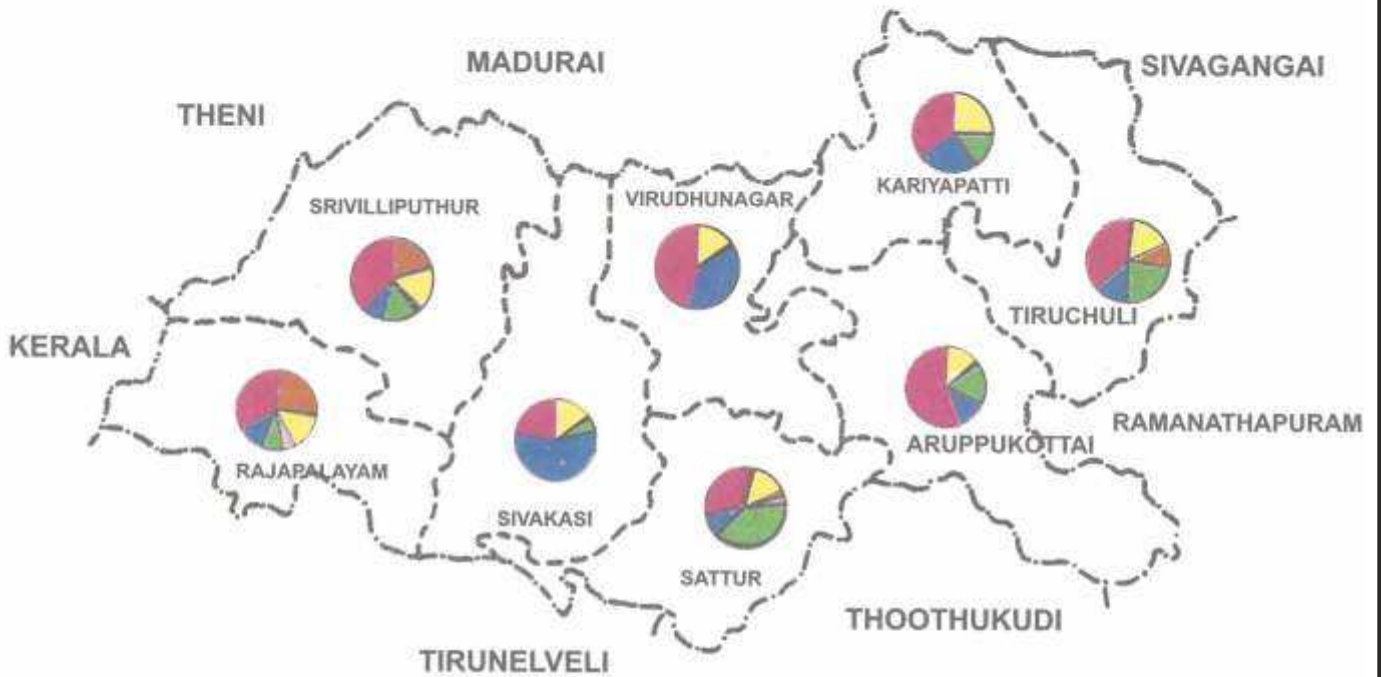
— RAIN FALL (mm) - - - - - TEMPERATURE (°C)
 DRY MONTHS WET MONTHS

LAND USE PATTERN

(Area in hectares)

Land Use	Aruppukottai	Kariapatti	Rajapalayam	Sattur	Sivakasai	Srivilliputhur	Tiruchuli	Virudhunagar	Total
Total Geographical Area	63,205	55,584	53,251	49,324	57,670	61,781	39,895	43,613	4,24,323
1. Forests	—	—	14,184 26.6%	—	—	12,282 19.9%	139 0.3%	—	26,605 6.3%
2. Barren and Uncultivable Lands	487 0.8%	182 0.3%	522 0.9%	1,922 3.9%	65 0.1%	436 0.7%	676 1.7%	20 0.1%	4,310 1.0%
3. Land put to Non-Agricultural Use	7,683 12.2%	13,763 24.8%	7,790 14.6%	6,929 14.0%	8,251 14.3%	10,385 16.8%	6,310 15.8%	6,462 14.8%	67,573 15.9%
4. Cultivable Waste	850 1.3%	285 0.5%	192 0.4%	1,065 2.2%	384 0.7%	1,044 1.7%	3,598 9.0%	196 0.5%	7,614 1.8%
5. Permanent Pastures and Grazing Lands	28	50 0.1%	5	270 0.5%	180 0.3%	242 0.4%	29 0.1%	—	804 0.2%
6. Miscellaneous Tree Crops and Groves	372 0.6%	32 0.1%	2,387 4.5%	1,272 2.6%	116 0.2%	58 0.1%	121 0.3%	119 0.3%	4,481 1.1%
7. Current Fallows	10,655 16.8%	8,112 14.6%	4,632 8.7%	19,525 39.6%	3,276 5.7%	8,730 14.1%	9,262 23.2%	437 1.0%	64,629 15.2%
8. Other Fallow Lands	7,542 1.2%	13,528 24.3%	6,000 11.2%	4,528 9.2%	32,572 56.5%	5,323 8.6%	5,347 13.4%	16,246 37.3%	91,086 21.57%
9. Net Area Sown	35,588 56.3%	19,632 35.3%	17,539 32.9%	13,809 30.0%	12,826 22.2%	23,281 37.7%	14,413 36.1%	20,133 46.2%	1,57,221 37.1%

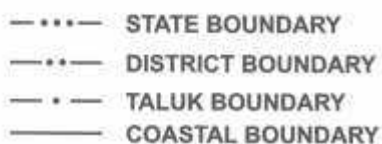
LAND USE PATTERN VIRUDHUNAGAR DISTRICT



LEGEND



REFERENCE



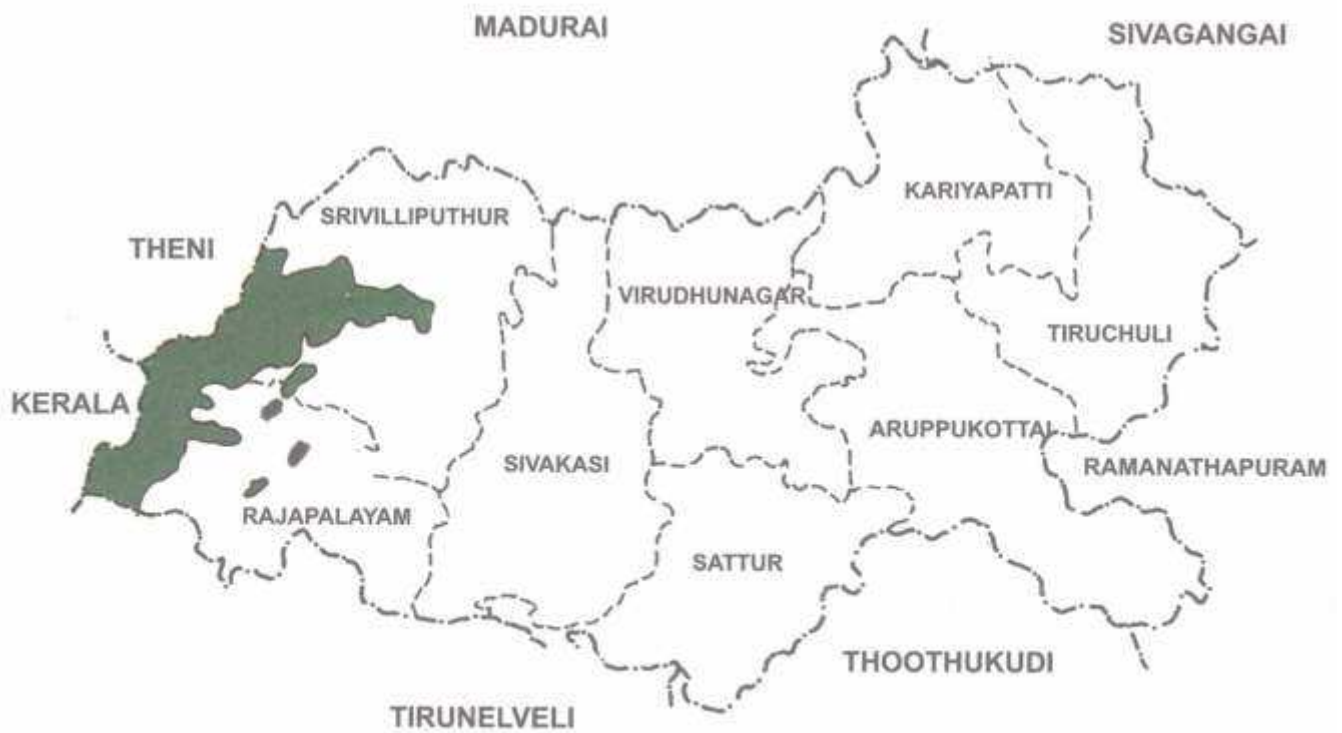
FORESTS

The forest wealth is low in the district constituting 6.3% only and the distribution pattern at taluk level is given below

Taluk	Area	
	ha	%
1. Aruppukottai	-	-
2. Kariapatti	-	-
3. Rajapalayam	14184	53.32
4. Sattur	-	-
5. Sivakasi	-	-
6. Srivilliputhur	12282	46.16
7. Tiruchuli	136	0.52
8. Virudhunagar	-	-
Total	26605	100.00

FORESTS

VIRUDHUNAGAR DISTRICT



REFERENCE

- STATE BOUNDARY
- DISTRICT BOUNDARY
- . - . TALUK BOUNDARY
- COASTAL BOUNDARY

LEGEND

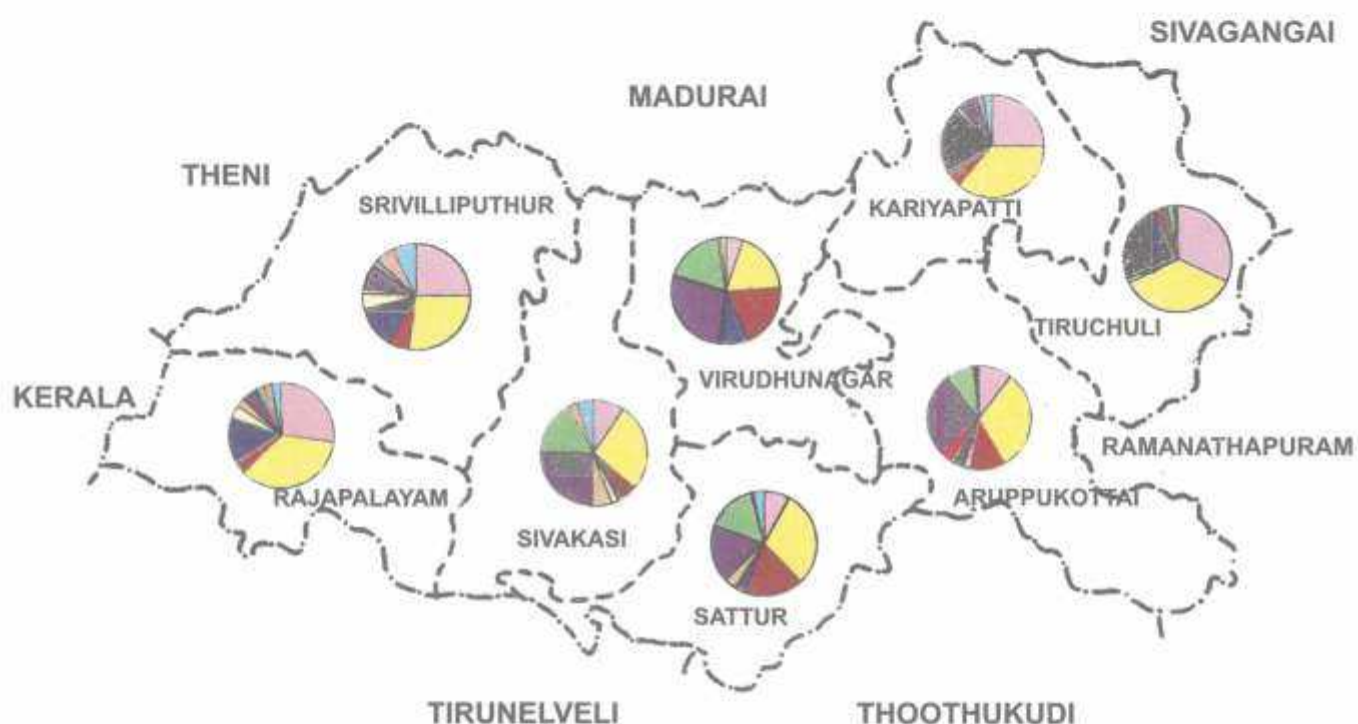
-  FOREST BOUNDARY

CROP AREA

(Area in hectares)

Taluk	Paddy	Millets	Pulses	Oil Seeds	Sugar-cane	Chillies	Cotton	Fodder Crops	Fruit Trees	Vegetables
Aruppukottai	3698	10832	3914	1765	240	1248	9486	3011	178	413
Kariapatti	4765	6891	943	4042	91	259	1183	318	83	525
Rajapalayam	7036	8975	987	3720	1044	738	1247	685	567	762
Sattur	1132	4171	2620	393	22	527	2588	2113	158	427
Sivakasi	1353	3753	596	324	217	881	3506	2417	380	701
Srivilliputhur	8621	9647	2294	4394	1619	522	2707	773	1819	2632
Tiruchuli	9362	10215	397	6986	45	528	609	648	74	128
Virudhunagar	1100	3878	4073	1650	134	79	5790	3763	171	316
Total	37067	58362	15824	23274	3412	4782	27116	13728	3430	5904

CROP AREA VIRUDHUNAGAR DISTRICT



REFERENCE

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- COASTAL BOUNDARY

LEGEND

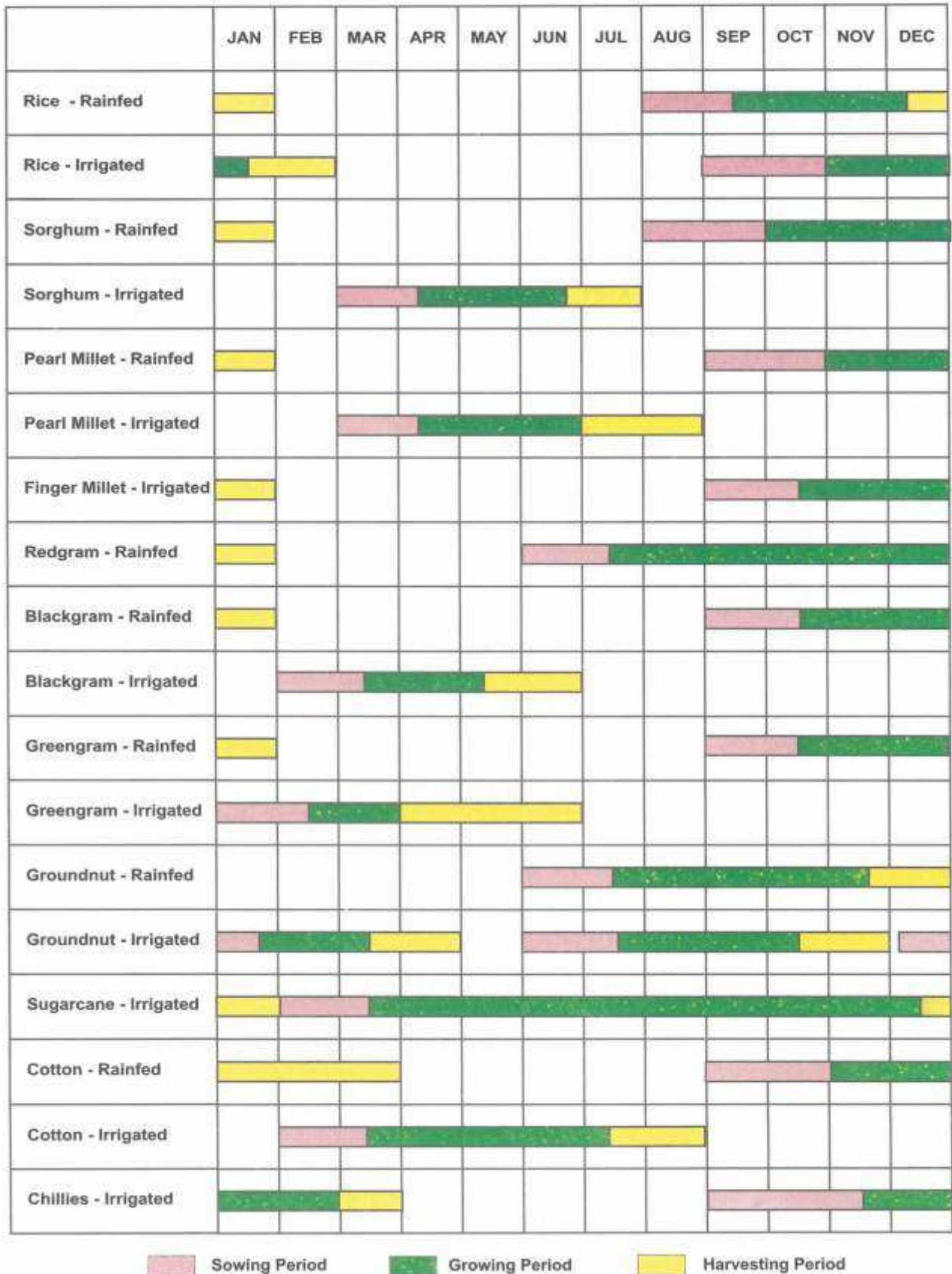
- | | |
|------------|--------------|
| PADDY | SUGARCANE |
| OIL SEEDS | FODDER CROPS |
| COTTON | PULSES |
| VEGETABLES | CHILLIES |
| MILLETS | FRUIT TREES |

CROPPING CALENDAR

- The major crops grown in the district are paddy, sorghum, pearl millet, finger millet, groundnut, red gram, black gram, green gram, cotton, chillies, sugarcane etc.
- The phenologic seasons of these crops are shown in the chart indicating the various stages of crops during different months.
- These crops are raised under rainfed as well as irrigated conditions excepting chillies and finger millet, which are grown under irrigated situation.

CROPPING CALENDAR

VIRUDHUNAGAR DISTRICT



SOURCES OF IRRIGATION

Most of the area falls under rainfed agriculture. In Virudhunagar district the distribution of wells and tanks among the taluks is presented below.

Taluk	Wells	Tanks
Aruppukottai	2520	103
Kariapatti	1798	329
Rajapalayam	8931	114
Sattur	3106	49
Sivakasi	5980	57
Srivilliputhur	9274	155
Tiruchuli	2057	151
Virudhunagar	2636	39
Total	34302	997

SOURCES OF IRRIGATION

Most of the area falls under rainfed agriculture. In Virudhunagar district the distribution of wells and tanks among the taluks is presented below.

Taluk	Wells	Tanks
Aruppukottai	2520	103
Kariapatti	1798	329
Rajapalayam	8931	114
Sattur	3106	49
Sivakasi	5980	57
Srivilliputhur	9274	155
Tiruchuli	2057	151
Virudhunagar	2636	39
Total	34302	997

AGRICULTURAL INSTITUTIONS

Institution	Map Symbol	Number
State Seed Farm	A	1
Horticultural Farm	B	2
Cocount Nursery	C	1
Coconut Breeding Station	D	1
Agricultural Extension Centre	E	16
Regional Research Station	F	1
Cotton Research Station	G	1
Uzhavar Santhai	H	4
Regulated Market	I	4
AGMARK Centre	J	1
Mobile Soil Testing Laboratory	K	1
Office of the Joint Director of Agriculture	L	1

AGRICULTURAL INSTITUTIONS

VIRUDHUNAGAR DISTRICT



LEGEND

- A-STATE SEED FARM
- B-HORTICULTURAL FARM
- C-COCONUT NURSERY
- D-COCONUT BREEDING STATION
- E-AGRICULTURAL EXTENSION CENTRES
- F-REGIONAL RESEARCH STATIONS
- G-COTTON RESEARCH STATION
- H-UZHAVAR SANTHAI
- I- REGULATED MARKETS
- J- AGMARK CENTRES
- K - MOBILE SOIL TESTING LABORTORY
- L - OFFICE OF THE JOINT DIRECTOR OF AGRICULTURE

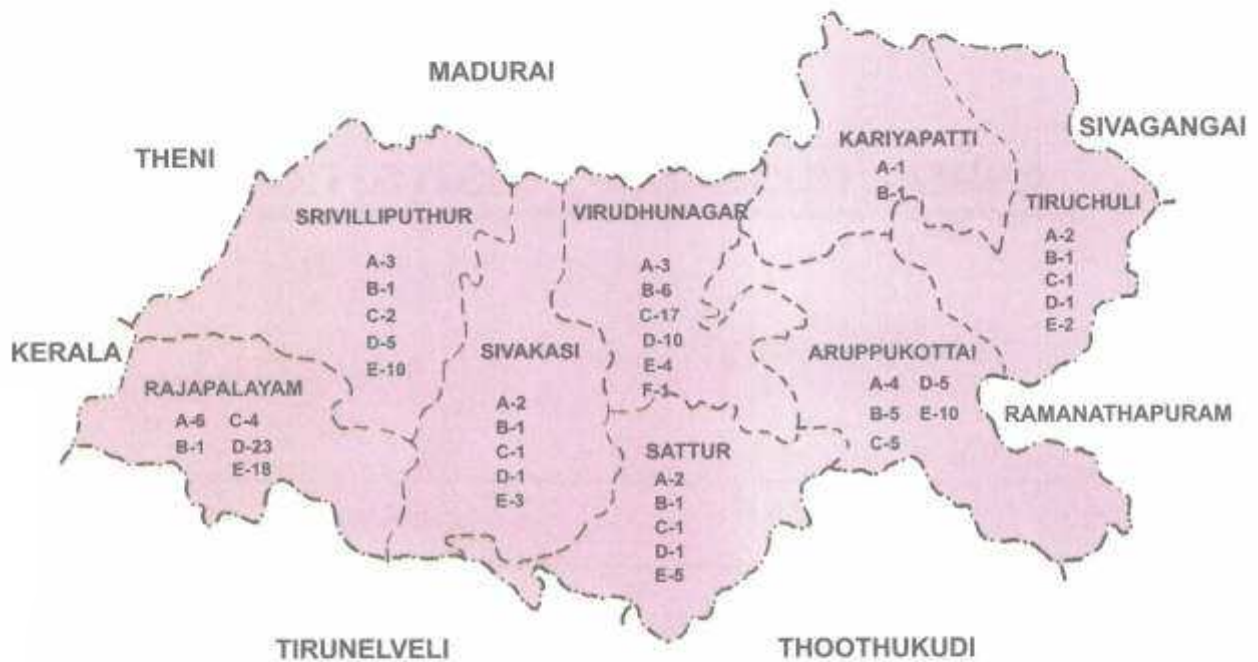
REFERENCE

- STATE BOUNDARY
- DISTRICT BOUNDARY
- . - TALUK BOUNDARY
- COASTAL BOUNDARY

AGRO INDUSTRIES

Industry	Map Symbol	Aruppu-kottai	Kariapatti	Rajapalayam	Sattur	Sivakasi	Srivilliputhur	Tiruchuli	Virudhunagar	Total
Rice Milling (Power Machine)	A	4	1	6	2	2	3	2	3	23
Dhal Milling	B	5	1	1	1	1	1	1	6	17
Edible Oils	C	5	-	4	1	1	2	1	17	31
Cotton Ginning	D	5	-	23	1	1	5	1	10	46
Cotton Spinning	E	10	-	18	5	3	10	2	4	52
Vegetable Oil	F	-	-	-	-	-	-	-	1	1

AGRO INDUSTRIES VIRUDHUNAGAR DISTRICT



REFERENCE

- · · · — STATE BOUNDARY
- · · — DISTRICT BOUNDARY
- · — TALUK BOUNDARY
- COASTAL BOUNDARY

LEGEND

- A- RICE MILLING
- B- DHAL MILLING
- C- MANUFACTURE OF EDIBLE OILS
- D- COTTON GINNING
- E- COTTON SPINNING
- F- MANUFACTURE OF VEGETABLE OIL

ANIMAL HUSBANDRY INSTITUTIONS

Institution	Map Symbol	Number
Veterinary Hospital	A	5
Veterinary Dispensary	B	23
Animal Husbandry Subcentre	C	70
Live Stock Farm	D	1

ANIMAL HUSBANDRY INSTITUTIONS VIRUDHUNAGAR DISTRICT



REFERENCE

- · · · — STATE BOUNDARY
- · · — DISTRICT BOUNDARY
- · — TALUK BOUNDARY
- COASTAL BOUNDARY

LEGEND

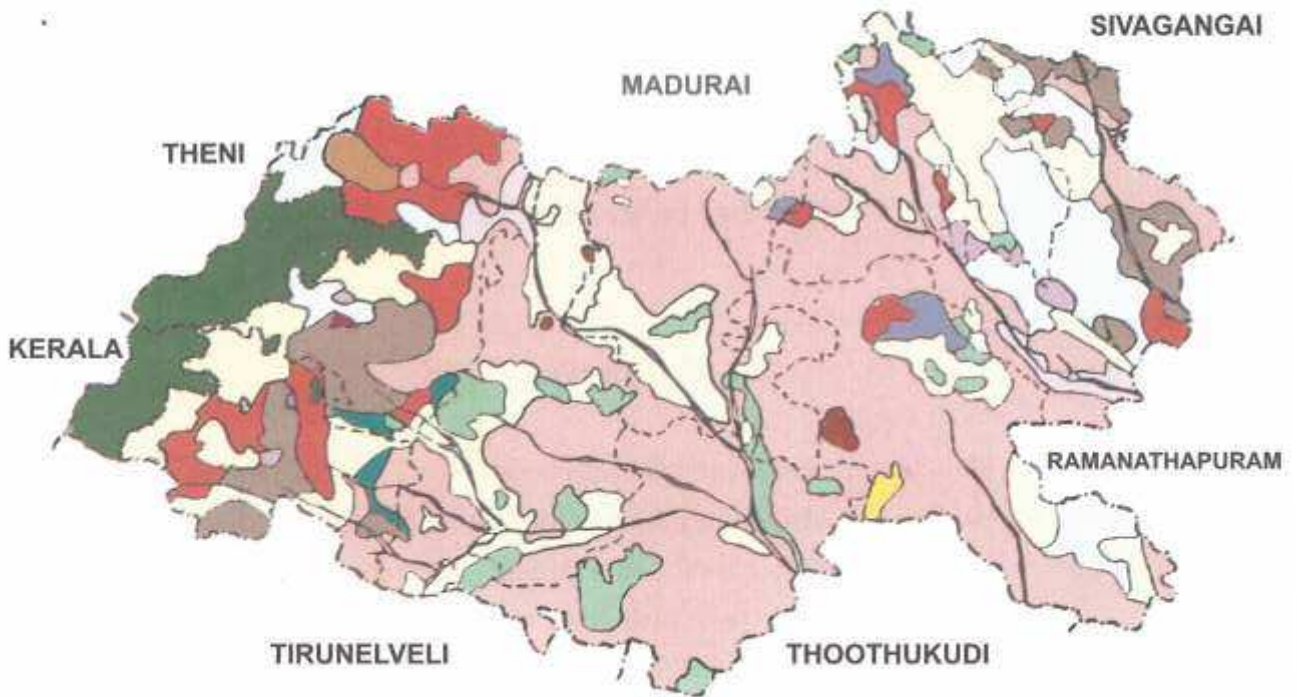
- A - VETERINARY HOSPITAL
- B - VETERINARY DISPENSARY
- C - ANIMAL HUSBANDRY SUBCENTRE
- D - LIVE STOCK FARM

SOILS

Soil Series	Symbol	Extent	
		ha	%
1. Padarnthapuli	Ppl	1,95,854	46.20
2. Agarakkattu	Agk	64,526	15.20
3. Mekkarai	Mkr	32,053	7.55
4. Mandarai	Mnd	29,585	6.97
5. Tiruchuli	Tcl	24,301	5.72
6. Idayankulam	lkm	17,718	4.17
7. Poigai	Pgi	3,468	0.81
8. Ambasamudram	Asd	3,030	0.71
9. Sivalaperi	Svp	2,784	0.66
10. Ayaneri	Anr	2,658	0.62
11. Chokkanpatti	CKp	1,805	0.43
12. Kallurani	Kln	1,250	0.29
13. Pudupatti	Ppt	835	0.20
14. Chokkanathapudur	Cnp	416	0.10
15. Thattaparai	Ttp	275	0.06
16. Nagalapuram	Ngp	194	0.05
<i>Forests</i>		26,605	6.27
<i>Others</i>		16,966	3.99
Total		4,24,323	100.00

SOILS

VIRUDHUNAGAR DISTRICT



LEGEND

REFERENCE

-----	STATE BOUNDARY
-.-.-.-	DISTRICT BOUNDARY
- . - . -	TALUK BOUNDARY
————	COASTAL BOUNDARY
▨▨▨▨	FOREST BOUNDARY

	PADARNTHAPULI		AMBASAMUDRAM
	AGARAKATTU		AYANERI
	MANDARAI		CHOKKANPATTI
	MEKKARAI		KALLURANI
	TIRUCHULI		PUDUPATTI
	IDAYANKULAM		CHOKKANATHAPUDUR
	SIVALAPERI		THATTAPARAI
	POIGAI		NAGALAPURAM

PADARNTHAPULI SERIES (Ppl)

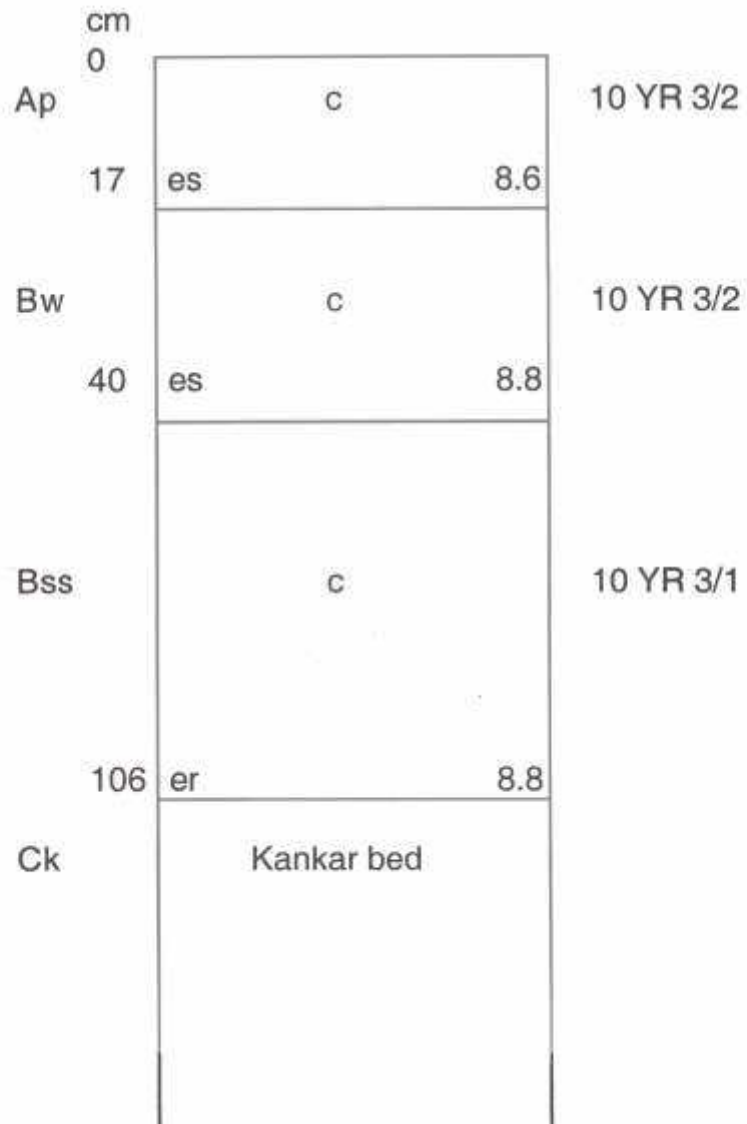
Physiography : Almost plain lands to very gently sloping lands

Drainage : Imperfectly drained

Parent material : Kankar bed below which calc gneiss

Horizon	Description
Ap	: 0 - 17 cm; very dark grayish brown (10 YR 3/2) moist; clay; weak medium subangular blocky; dry slightly hard, moist friable, wet sticky and plastic; few round to irregular conca; strong effervescence; few fine fine roots; very fine pores; slow permeability; gradual wavy boundary; pH 8.6.
Bw	: 17 - 40 cm; very dark grayish brown (10 YR 3 /2) moist; clay; moderate medium angular blocky; dry hard, moist firm, wet sticky and plastic; few round to irregular conca; strong effervescence few fine roots; micropores; slow permeability; diffused wavy boundary; pH 8.8.
Bss	: 40 - 106 cm; very dark gray (10 YR 3/1 moist; clay; strong coarse angular blocky; moist firm, wet very sticky and plastic; prominent slickensides close enough to intersect; many round to irregular conca; violent effervescence; micropores; very slow permeability; pH 8.8.
Ck	: 106+ cm; kankar bed (Petro calcic horizon)

PADARNTHAPULI SERIES (Ppl)



Soil Taxonomy : *Fine smectitic calcareous isomegathemic Typic Haplustert*

AGARAKATTU SERIES (Agk)

- Physiography : Almost plain lands
Drainage : Moderately well drained
Parent material : Kankar bed

Horizon	Description
Ap	: 0 - 25 cm; grayish brown (10 YR 5/2) moist; sandy clay; moderate medium subangular blocky; moist slightly firm, wet sticky and plastic; strong effervescence; common medium roots; common fine to medium few coarse pores; moderately slow permeability; clear smooth boundary; pH 8.9.
Bw ₁	: 25 - 110 cm; dark grayish brown (10 YR 4 /2 moist; clay; strong coarse subangular blocky; moist very firm, wet sticky and plastic; strong effervescence; very few very fine roots; few medium, common fine pores; slow permeability; clear smooth boundary; pH 8.9.
Bw ₂	: 110 - 151 cm; light brownish gray (10 YR 6/2) moist; clay; weak fine subangular blocky; moist slightly firm, wet very sticky and plastic; many conca; strong effervescence; medium interstitial pores; slow permeability; clear smooth boundary; pH 9.0.
Ck	: 151+ cm; kankar bed (Petro calcic horizon)

AGARAKATTU SERIES (Agk)

	cm		
Ap	0	s c	10 YR 5/2
	25	es	8.9
Bw1		c	10 YR 4/2
	110	es	8.9
Bw2		c	10 YR 6/2
	151	es	9.0
Ck		Kankar bed	

Soil Taxonomy : Fine mixed isohyperthermic *Typic Haplustept*

MEKKARAI SERIES (Mkr)

- Physiography : Very gently sloping lands
Drainage : Moderately well drained
Parent material : Gneiss

Horizon	Description
Ap	: 0 - 18 cm; brown to dark brown (10 YR 4/3) moist; sandy clay loam; moderate medium subangular blocky; dry hard, moist firm, wet slightly sticky and slightly plastic; common fine to medium roots; common medium to coarse spherical pores; moderately slow permeability; clear smooth boundary; pH 7.2.
Bw	: 18 - 44 cm; dark grayish brown (10 YR 4/6) moist; sandy clay; moderate medium subangular blocky; dry hard, moist firm, wet sticky and slightly plastic; common medium very dark gray manganese segregations; few fine roots; many fine to medium pores; moderately slow permeability; clear smooth boundary; pH 7.2.
Bt ₁	: 44 - 68 cm; dark yellowish brown (10 YR 4/6) moist; sandy clay; moderate medium subangular blocky; moist friable, wet sticky and plastic; thick continuous clay cutans; many coarse very dark gray manganese segregations; many fine pores; slow permeability; clear smooth boundary; pH 7.5.
Bt ₂	: 68 - 155 cm; yellowish brown to dark yellowish brown (10 YR 4.5/6) moist; sandy clay; moderate medium subangular blocky; moist friable, wet sticky and plastic; thick patchy clay cutans; very fine pores; moderate slow permeability; pH 7.7.
Cr	: 155+ cm; weathered gneiss.

MEKKARAI SERIES (Mkr)

	cm				
Ap	0		sc		10 YR 4/3
	18	7.2			
Bw	44		sc		10 YR 4/6
	68	7.5			
Bt1	68		sc		10 YR 4/6
	155	7.7			
Bt2	155		sc		10 YR 4.5/6
	155	7.7			
Cr			Weathered gneiss		

Soil Taxonomy : *Fine mixed isohyperthermic* **Typic Haplustalf**

MANDARAI SERIES (Mnd)

- Physiography : Very gently sloping lands
Drainage : Moderately well drained
Parent material : Gneiss

Horizon	Description
Ap	: 0 - 13 cm; dark brown (10 YR 4/3) moist; sandy clay loam; moderate medium subangular blocky; dry slightly hard, moist friable, wet slightly and slightly plastic; common fine roots; common fine to medium pores; moderately slow permeability; clear smooth boundary; pH 7.5.
Bw ₁	: 13 - 36 cm; dark brown (10 YR 4 /3) moist; sandy clay; strong coarse subangular blocky; dry hard, moist firm, wet sticky and plastic; few fine roots; common fine pores; slow permeability; clear smooth boundary; pH 7.8.
Bt ₂	: 36 - 56 cm; dark brown (10 YR 3/3) moist; sandy clay; moderate medium subangular blocky; moist friable, wet sticky and plastic; common fine pores; slow permeability; clear smooth boundary; pH 8.0.
Bt	: 56 - 101 cm; dark yellowish brown (10 YR 4/6) moist; sandy clay; moderate medium subangular blocky; moist friable, wet sticky and plastic; thin patchy clay films; very fine pores; slow permeability; abrupt wavy boundary; pH 8.2.
Cr	: 101+ cm; weathered gneiss.

MANDARAI SERIES (Mnd)

cm	0		
Ap	13	scl	10 YR 4/3
		7.5	
Bw ₁	36	sc	10 YR 4/3
		7.8	
Bw ₂	56	sc	10 YR 3/3
		8.0	
Bt	101	sc	10 YR 4/6
		8.2	
Cr		Weathered gneiss	

Soil Taxonomy : Fine mixed isohyperthermic Typic Haplustalf

TIRUCHULI SERIES (Tcl)

- Physiography : Almost plain lands
 Drainage : Imperfectly drained
 Parent material : Kankar bed below which calc gneiss

Horizon	Description
Ap	: 0 - 22 cm; grayish brown to dark brown (10 YR 4.5/2) moist; sandy clay; moderate to strong medium subangular blocky; dry hard, moist firm, wet sticky and plastic; mild effervescence; many medium pores; common coarse roots; slow permeability; clear smooth boundary; pH 8.0.
Bw	: 22 - 64 cm; grayish brown (10 YR 5/2) moist; clay; strong coarse angular blocky; dry hard, moist firm, wet sticky and plastic; mild effervescence; few fine conca; common coarse roots; many fine pores; slow permeability; gradual smooth boundary; pH 9.0.
Bt ₁	: 64 - 83 cm; dark grayish brown to very dark grayish brown (10 YR 3.5/2) moist; clay; strong coarse subangular blocky; dry very hard, moist firm, wet sticky and plastic; mild effervescence; common medium irregular conca; thin patchy clay films; common medium to coarse roots; few fine pores; slow permeability; gradual smooth boundary; pH 9.1.
Bt ₂	: 83 - 145 cm; very dark gray (10 YR 3/1) moist; clay; strong coarse angular blocky; dry very hard, moist very firm, sticky and plastic; thin patchy clay films; violent effervescence; common medium conca; very few very fine pores; slow permeability; pH 8.8.
Ck	: 145+ cm; kankar bed.

TIRUCHULI SERIES (Tcl)

	cm		
Ap	0	sc	10 YR 4.5/2
	22	e	8.0
Bw ₁		c	10 YR 5/2
	64	e	9.0
Bt ₁		c	
	83	e	10 YR 3.5/2 9.1
Bt ₂		c	
	145	ev	10 YR 3/1 9.1
Ck		Kankar bed	

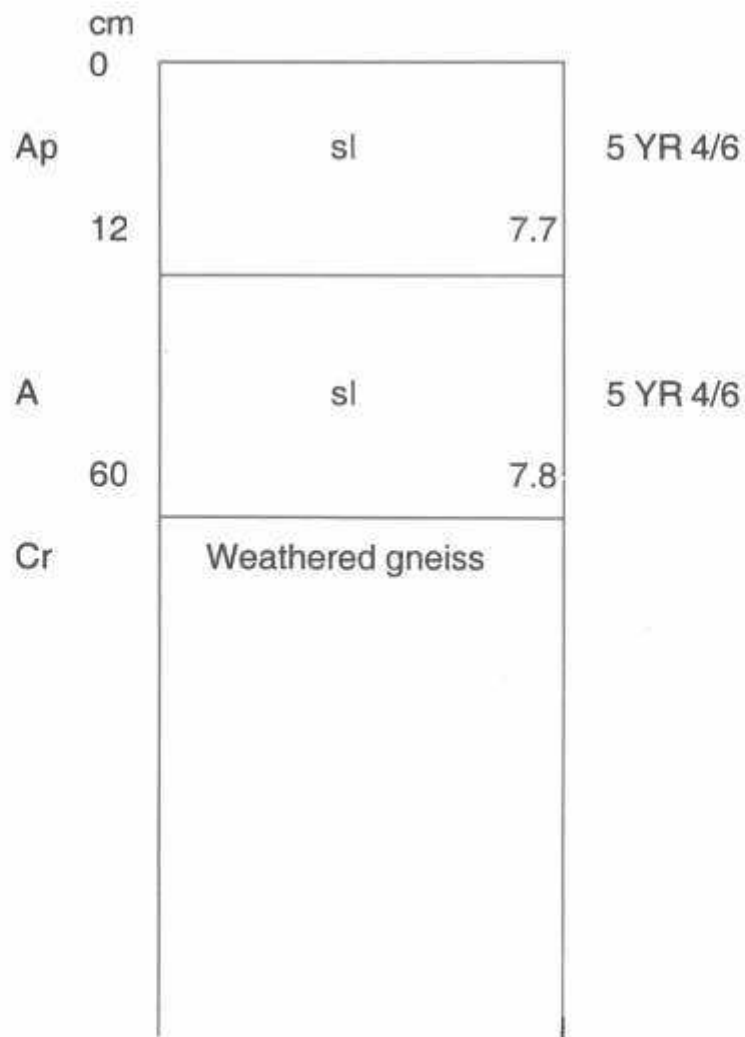
Soil Taxonomy : Fine mixed isohyperthermic Vertic Haplustalf

IDAYANKULAM SERIES (lkm)

Physiography : Very gently sloping lands
Drainage : Well drained
Parent material : Weathered gneiss

Horizon	Description
Ap	: 0 - 12 cm; yellowish red (5 YR 4/6) moist; sandy loam; massive; wet slightly sticky and slightly plastic; few fine roots; rapid permeability; clear smooth boundary; pH 7.7.
A	: 12 - 60 cm; yellowish red (5 YR 4/6) moist; sandy loam; massive; wet slightly sticky and slightly plastic; rapid permeability; abrupt wavy boundary; pH 7.8.
Cr	: 60+ cm; weathered gneiss.

IDAYANKULAM SERIES (lkm)



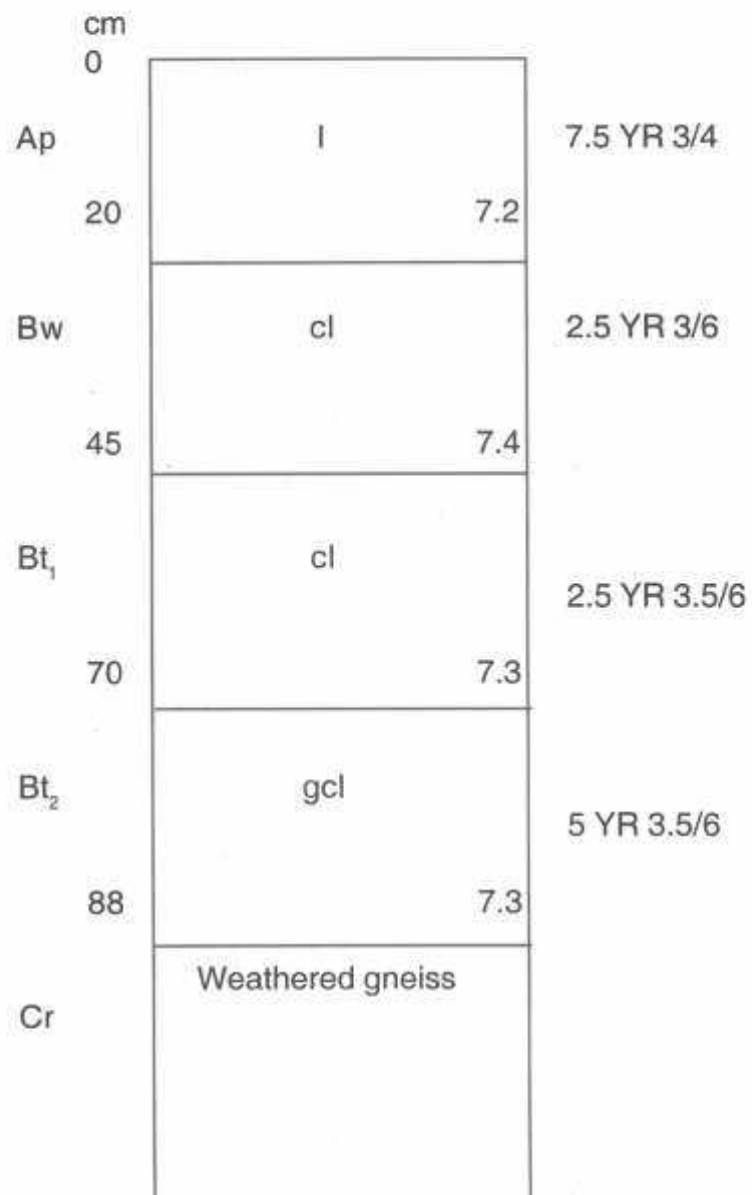
Soil Taxonomy : Fine loamy mixed isohyperthermic **Typic Ustorthent**

POIGAI SERIES (Pgi)

Physiography : Very gently sloping lands
Drainage : Well drained
Parent material : Gneiss

Horizon	Description
Ap	: 0 - 20 cm; dark brown (7.5 YR 3/4) moist; sandy loam; weak medium subangular blocky; moist very friable, wet slightly sticky and slightly plastic; common medium interstitial pores; many coarse roots; rapid permeability; clear smooth boundary; pH 7.2.
Bw	: 20 - 45 cm; dark red (2.5 YR 3/6) moist; sandy clay loam; weak medium subangular blocky; moist friable, wet slightly sticky and slightly plastic; common fine to medium pores; many medium roots; moderately rapid permeability; clear smooth boundary; pH 7.4.
Bt ₁	: 45 - 70 cm; dark red to red (2.5 YR 3.5/6) moist; sandy clay loam; moderate medium subangular blocky; moist firm, wet slightly sticky and slightly plastic; thin patchy clay films; common fine to medium pores; moderately slow permeability; clear smooth boundary; pH 7.3.
Bt ₂	: 70 - 88 cm; reddish brown to dark reddish brown (5 YR 3.5/6) moist; gravelly clay loam; moderate medium subangular blocky; moist friable, wet sticky and slightly plastic; common medium interstitial pores; moderately rapid permeability; abrupt wavy boundary; pH 7.3.
Cr	: 88+ cm; weathered gneiss.

POIGAI SERIES (Pgi)



Soil Taxonomy : Fine loamy mixed isohyperthermic Typic Rhodustalf

AMBASAMUDRAM SERIES (Asd)

- Physiography : Almost plain lands
Drainage : Poorly drained
Parent material : Gneiss

Horizon	Description
Ap	: 0 - 19 cm; dark grayish brown to very dark grayish brown (10 YR 3.5/2) moist; sandy clay; moderate medium subangular blocky; dry hard, moist firm, wet sticky and plastic; many fine to medium roots; many fine to medium irregular pores; slow permeability; clear smooth boundary; pH 6.9.
Bw	: 19 - 35 cm; dark yellowish brown (10 YR 4/4) moist; sandy clay; moderate medium subangular blocky; dry hard, moist firm, wet sticky and plastic; common medium very dark gray manganese mottlings of 10 YR colour; common fine roots; common fine pores; slow permeability; clear smooth boundary; pH 6.9.
Bt	: 35 - 90 cm; brown to dark brown (7.5 YR 4/4) moist; clay; moderate to strong medium to coarse subangular blocky; dry hard, moist firm, sticky and plastic; thin patchy clay films; many fine to medium distinct manganese mottlings; few fine roots; common fine pores; slow permeability; clear wavy boundary; pH 7.0.
B	: 90 - 129 cm; brown to dark brown (7.5 YR 4/4) moist; sandy clay loam; moderate medium subangular blocky; dry hard, moist firm, wet slightly sticky and slightly plastic; common fine to medium pores; moderately slow permeability; pH 7.0.
Cr	: 129* cm; weathered gneiss.

AMBASAMUDRAM SERIES (Asd)

	cm		
Ap	0	sc	10 YR 3.5/2
	19	6.9	
Bw		sc	10 YR 4/4
	35	6.9	
Bt		c	7.5 YR 4/4
	90	7.0	
B		scl	7.5 YR 4/4
	129	7.0	
Cr		Weathered gneiss	

Soil Taxonomy : Fine mixed isohyperthermic Aquic Haplustalf

SIVALAPERI SERIES (Svp)

Physiography : Almost plain lands
 Drainage : Imperfectly drained
 Parent material : Calc gneiss

Horizon	Description
Ap	: 0 - 19 cm; grayish brown (10 YR 5/2) moist; clay; moderate medium angular blocky; dry hard, moist firm, wet sticky and plastic; strong effervescence; many fine to medium roots; very fine pores; slow permeability; gradual wavy boundary; pH 8.6.
Bw ₁	: 19 - 45 cm; very dark grayish brown (10 YR 3/2) moist; clay; strong coarse angular blocky; dry very hard, moist firm, wet sticky and plastic; strong effervescence; few fine to coarse roots; micropores; slow permeability; gradual wavy boundary; pH 8.8.
Bw ₂	: 45 - 77 cm; very dark grayish brown (10 YR 3/2) moist; clay; strong coarse angular blocky; dry very hard, moist very firm, wet sticky and plastic; strong effervescence; pressure faces; few coarse roots; micropores; very slow permeability; diffuse wavy boundary; pH 9.0.
Bss	: 77 - 121 cm; very grayish brown (10 YR 3/2) moist; clay; strong coarse angular blocky; dry very hard, moist very firm, wet very sticky and very plastic; common fine to medium conca; violent effervescence; slickensides close enough to intersect; micropores; very slow permeability; pH 9.1.
Cr	: 121 ⁺ cm; calc gneiss.

SIVALAPERI SERIES (Svp)

	cm		
	0		
Ap		c	10 YR 5/2
	19	es	8.6
Bw ₁		c	10 YR 3/2
	45	es	8.8
Bw ₂		c	10 YR 3/2
	77	es	9.0
Bss		cl	10 YR 3/2
	121	ev	9.1
Cr		Calc gneiss	

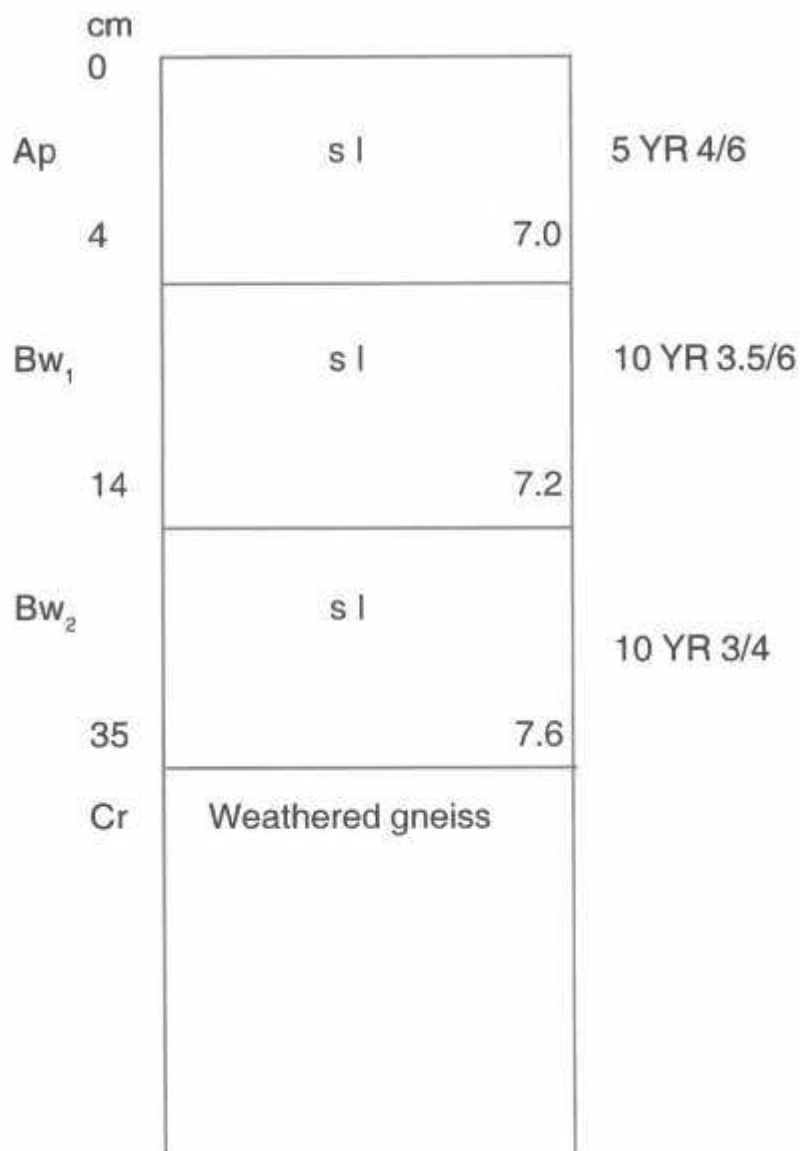
Soil Taxonomy : Fine smectitic isohyperthermic **Sodic Haplustert**

AYANERI SERIES (Anr)

Physiography : Very gently sloping lands
Drainage : Well drained
Parent material : Gneiss

Horizon	Description
Ap	: 0 - 4 cm; yellowish red (5 YR 4/6) moist; sandy loam; weak fine subangular blocky; moist friable, wet slightly sticky and slightly plastic; rapid permeability; clear wavy boundary; pH 7.0.
Bw1	: 4 - 14 cm; dark yellowish brown (10 YR 3.5/6) moist; sandy loam; weak fine subangular blocky; moist friable, wet slightly sticky and slightly plastic; common medium to coarse roots; many medium round and interstitial pores; moderately rapid permeability; pH 7.2.
Bw2	: 14 - 35 dark yellowish brown (10 YR 3/4) moist; sandy loam; few 1 to 2 cm size coarse fragments; weak fine subangular blocky; moist friable, wet slightly sticky and slightly plastic; common medium interstitial pores; moderately rapid permeability; pH 7.6.
Cr	: 35+ cm; weathered gneiss.

AYANERI SERIES (Anr)



Soil Taxonomy : *Fine mixed isohyperthermic Paralithic Haplustept*

CHOKKANPATTI SERIES (Ckp)

Physiography : Very gently sloping lands
Drainage : Well drained
Parent material : Gneiss

Horizon	Description
Ap	: 0 - 11 cm; dark reddish brown (5 YR 3/4) moist; loamy sand; weak medium subangular blocky; dry slightly hard, moist friable, many medium roots; common medium round pores; rapid permeability; clear wavy boundary; pH 7.1.
Bw ₁	: 11 - 26 cm; reddish brown (2.5 YR 4/4) moist; sandy loam; weak medium subangular blocky; dry slightly hard, moist friable, wet slightly sticky and slightly plastic; common fine to medium roots; common medium round to irregular pores; rapid permeability; clear smooth boundary; pH 6.8.
Bw ₂	: 26 - 49 cm; dark red (2.5 YR 3/6) moist; sandy loam; moderate medium subangular blocky; moist slightly firm, wet slightly sticky and slightly plastic; few fine roots; few medium round and irregular pores; moderately rapid permeability; clear smooth boundary; pH 6.8.
Bt ₁	: 49 - 85 cm; dark red (2.5 YR 3/6) moist; sandy clay loam; moderate medium subangular blocky; dry hard, moist firm, wet slightly sticky and slightly plastic; thin patchy clay films; few fine roots; few fine to medium pores; moderately slow permeability; clear smooth boundary; pH 7.0.
Bt ₂	: 85 - 115 cm; dark red (2.5 YR 3/6) moist; sandy clay loam; moderate medium subangular blocky; moist firm, wet slightly sticky and slightly plastic; thin patchy clay films; common fine to medium irregular pores; moderately slow permeability; pH 7.0.
Cr	: 115* cm; weathered gneiss.

CHOKKANPATTI SERIES (Ckp)

	cm		
Ap	0	I s	5 YR 3/4
	11	7.1	
Bw ₁		s l	2.5 YR 4/4
	26	6.8	
Bw ₂		s l	2.5 YR 3/6
	49	6.8	
Bt ₁		sc l	2.5 YR 3/6
	85	7.0	
Bt ₂		sc l	2.5 YR 3/6
	115	7.0	
Cr		Weathered gneiss	

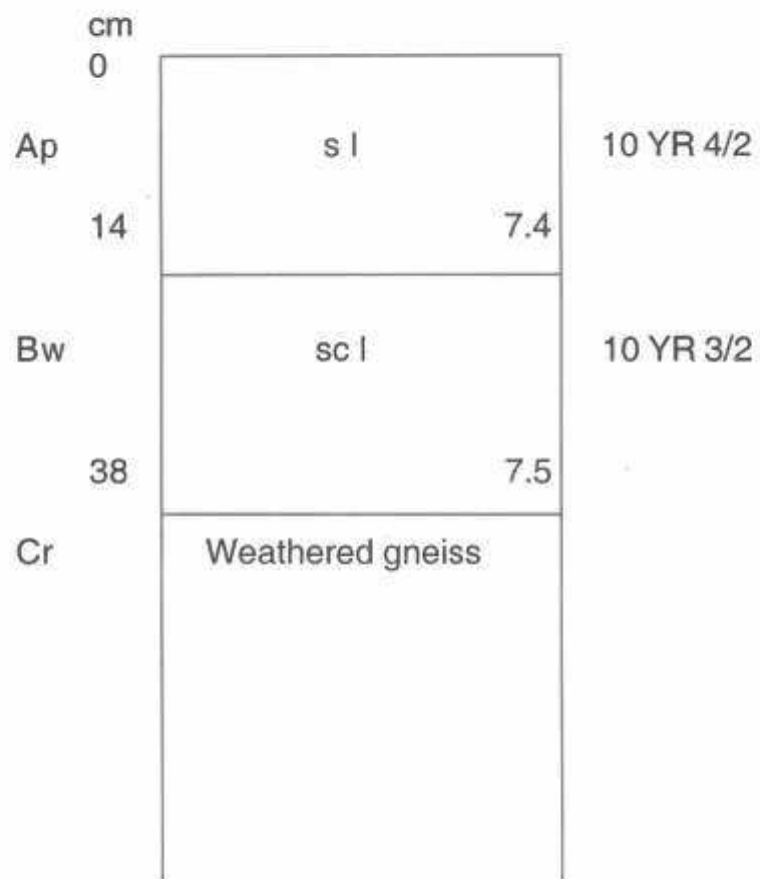
Soil Taxonomy : Fine mixed isohyperthermic *Typic Rhodustalf*

KALLURANI SERIES (KIn)

Physiography : Very gently sloping lands
Drainage : Well drained
Parent material : Gneiss

Horizon	Description
Ap	: 0 - 14 cm; brown (10 YR 5/3) dry, dark grayish brown (10 YR 4/2) moist; sandy loam; weak fine subangular blocky; dry slightly hard, moist friable, wet slightly sticky and slight plastic; many medium to coarse roots; many fine to medium pores; rapid permeability; clear smooth boundary; pH 7.4.
Bw	: 14 - 38 cm; dark grayish brown (10 YR 4/2) dry; very dark grayish brown (10 YR 3/2) moist; sandy clay loam; moderate medium subangular blocky; dry slightly hard, moist slightly firm, wet slightly sticky and slightly plastic; few medium and common fine pores; few fine roots; mederately slow permeability; abrupt wavy boundary; pH 7.5.
R	: 38* cm; granite gneiss.

KALLURANI SERIES (KIn)



Soil Taxonomy : Fine mixed isohyperthermic Lithic Haplustept

PUDUPATTI SERIES (Ppt)

- Physiography : Almost plain lands to very gently sloping lands
- Drainage : Imperfectly drained
- Parent material : Kankar bed below which calc gneiss

Horizon	Description
Ap	: 0 - 21 cm; dark grayish brown (10 YR 4/2) moist; sandy clay; moderate medium angular blocky; dry hard, moist firm, wet sticky and plastic; few fine to medium conca; strong effervescence; common fine roots; very fine pores; slow permeability; gradual wavy boundary; pH 8.2.
Bw ₁	: 21 - 50 cm; very dark grayish brown (10 YR 3/2) moist; clay; strong coarse angular blocky; dry very hard, moist firm, wet sticky and plastic; common fine to medium conca; strong effervescence; few fine roots; micropores; slow permeability; diffuse wavy boundary; pH 8.2.
Bw ₂	: 50 - 84 cm; very dark grayish brown (10 YR 3/2) moist; clay; strong coarse angular blocky; dry very hard, moist very firm, wet sticky and plastic; common fine to medium conca; strong effervescence; pressure faces; micropores; very slow permeability; gradual wavy boundary; pH 8.5.
Bw ₃	: 84 - 119 cm; dark grayish brown (10 YR 4/2) moist; clay; moderate to strong medium to coarse angular blocky; dry hard, moist firm, wet sticky and plastic; many fine to coarse conca; violent effervescence; micropores; slow permeability; pH 8.8.
Ck	: 119+ cm; kankar bed.

PUDUPATTI SERIES (Ppt)

	cm			
Ap	0	s c		10 YR 4/2
	21	es	8.2	
Bw ₁		c		10 YR 3/2
	50	es	8.2	
Bw ₂		c		10 YR 3/2
	84	es	8.5	
Bw ₃		c		10 YR 4/2
	119	ev	8.8	
Ck		Kankar bed		

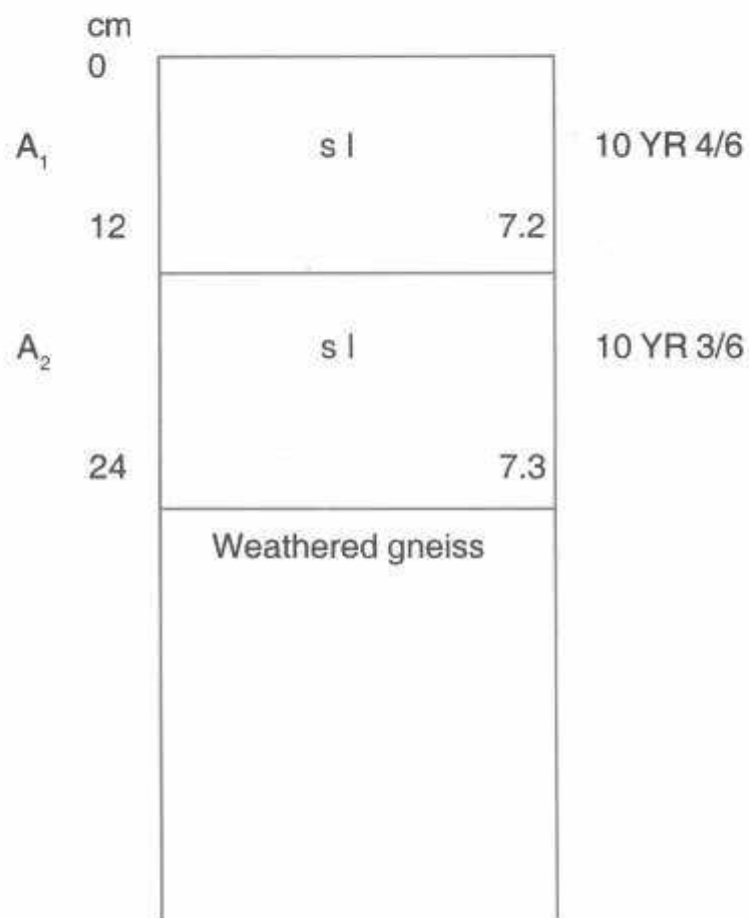
Soil Taxonomy : *Fine mixed isohyperthermic* **Vertic Haplustept**

CHOKKANATHA PUDUR SERIES (Cnp)

Physiography : Very gently sloping lands
Drainage : Well drained
Parent material : Gneiss

Horizon	Description
A ₁	: 0 - 12 cm; dark yellowish brown (10 YR 4/6) moist; sandy loam; weak fine subangular blocky; wet slightly sticky and slightly plastic; many fine to medium roots; rapid permeability; clear smooth boundary; pH 7.2.
A ₂	: 12 - 24 cm; dark yellowish brown (10 YR 3/6) moist; sandy loam; weak fine subangular blocky; wet slightly sticky and slightly plastic; rapid permeability; clear smooth boundary; pH 7.3.
Cr	: 24+ cm; weathered gneiss.

CHOKKANATHA PUDUR SERIES (Cnp)



Soil Taxonomy : *Fine loamy mixed isohyperthermic Paralithic Ustorthent*

CHOKKANATHA PUDUR SERIES (Cnp)

Physiography : Very gently sloping lands

Drainage : Well drained

Parent material : Gneiss

Horizon	Description
A ₁	: 0 - 12 cm; dark yellowish brown (10 YR 4/6) moist; sandy loam; weak fine subangular blocky; wet slightly sticky and slightly plastic; many fine to medium roots; rapid permeability; clear smooth boundary; pH 7.2.
A ₂	: 12 - 24 cm; dark yellowish brown (10 YR 3/6) moist; sandy loam; weak fine subangular blocky; wet slightly sticky and slightly plastic; rapid permeability; clear smooth boundary; pH 7.3.
Cr	: 24+ cm; weathered gneiss.

THATTAPARAI SERIES (Ttp)

cm 0	l s	10 YR 4.5/6
Ap 21	7.3	
Bw 43	s l	7.5 YR 4.5/6
Bt ₁ 61	s cl	7.5 YR 3/4
Bt ₂ 85	s cl	7.5 YR 4/6
Bt ₃ 117	s cl	5 YR 3/3
Bt ₄ 152	s cl	7.5 YR 3/4
Cr	Weathered gneiss	7.2

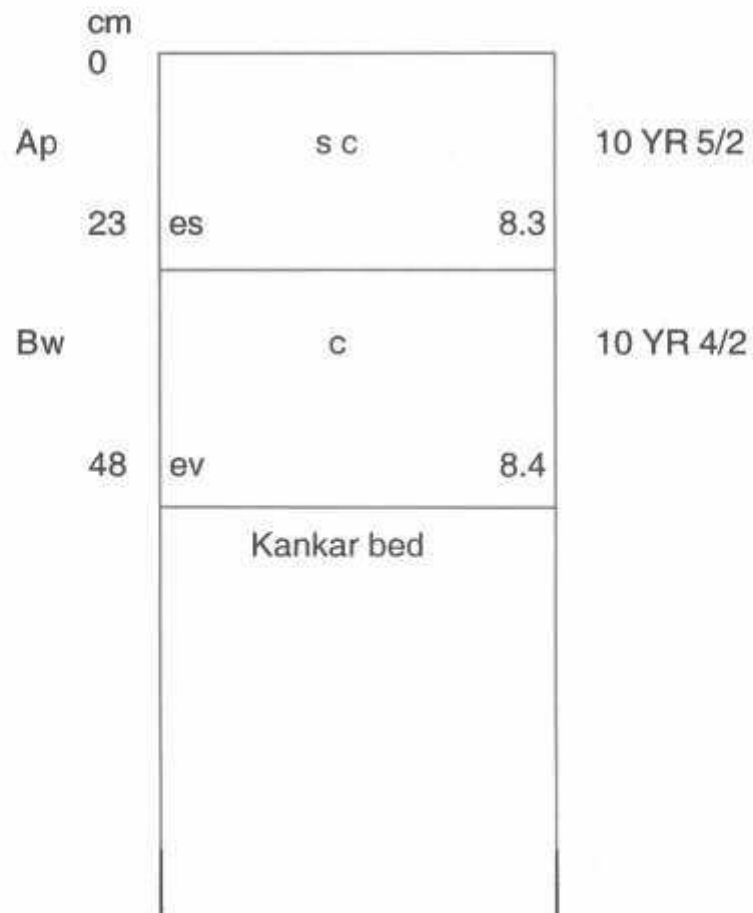
Fine loamy mixed isohyperthermic Psammentic Haplustalf

NAGALAPURAM SERIES (Ngp)

- Physiography : Almost plain to very gently sloping lands
- Drainage : Moderately well drained
- Parent material : Kankar bed below which calc gneiss

Horizon	Description
Ap	: 0 - 23 cm; grayish brown (10 YR 5/2) moist; sandy clay; moderate medium angular blocky; dry hard, moist firm, wet sticky and plastic; common fine to medium conca; strong effervescence common fine roots; very fine pores; slow permeability; clear wavy boundary; pH 8.3.
Bw	: 23 - 48 cm; dark grayish brown (10 YR 4/2) moist; clay; strong coarse angular blocky; dry very hard, moist very firm, wet sticky and plastic; many fine to medium conca; violent effervescence few pressure faces; few fine roots; micropores; slow permeability; pH 8.4.
Ck	: 48 ⁺ cm; kankar bed.

NAGALAPURAM SERIES (Ngp)



Soil Taxonomy : Fine mixed isohyperthermic Paralithic Vertic Haplustept

LAND CAPABILITY

Area (ha)	Land Capability Classification	Soil series	Limitation	Needs
94111	lls	Agarakkattu Mandarai	Moderate alkalinity, crusting	Addition of organic manures
32053	lle	Mekkarai	Erosion	Erosion control
23266	llse	Idayankulam Thattaparai Chokkanpatti Poigai	Surface coarse texture, erosion	Addition of tank silt and organic manures, erosion control.
226804	llsw	Pudupati Ambasamudram Tiruchuli Padarnthapuli Sivalaperi	Alkalinity heavy texture calcareousness wetness	Selection of crops, application of Iron pyrite, drainage improvement
4518	IVse	Chokkanathapudur Kallurani Ayaneri Nagalapuram	Shallow depth erosion	Selection of crops, erosion control

Class

III - Moderately good cultivable lands that have severe limitations for sustained use under agriculture.

IV - Lands that have very severe limitations for sustained use under agriculture

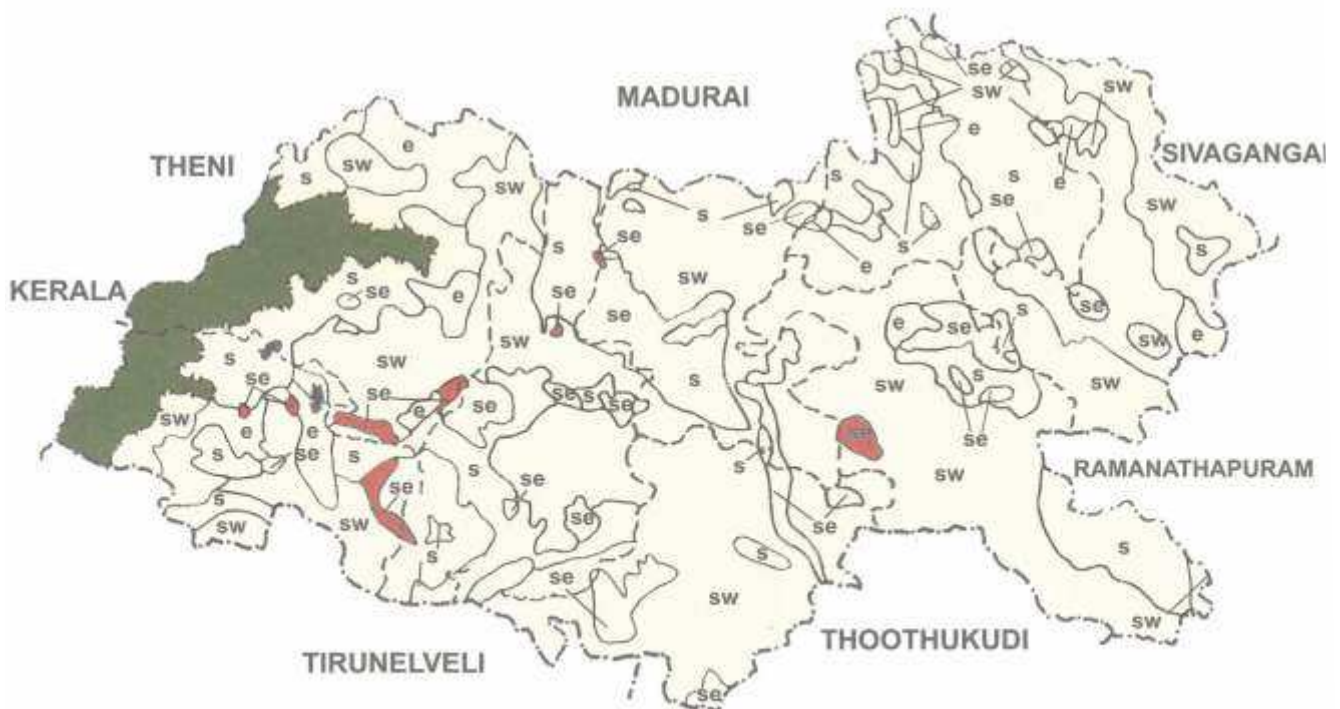
Sub Class

s - Root zone limitations

e - Erosion and runoff

w - Wetness

LAND CAPABILITY VIRUDHUNAGAR DISTRICT



REFERENCE

- STATE BOUNDARY
- - - DISTRICT BOUNDARY
- . - TALUK BOUNDARY
- COASTAL BOUNDARY
- ▨ FOREST BOUNDARY

LEGEND

CLASS

- Severe Limitation
- Very Severe Limitation

SUB CLASS

- s Root Zone Limitation
- e Erosion and Runoff
- w Wetness

LAND IRRIGABILITY

Area (ha)	Land irrigability classification	Soil series	Limitation
94111	3s	Agarakkattu Mandarai	Moderate alkalinity Crusting
32053	3t	Mekkarai	Topography
23266	3st	Idayankulam, Thattaparai Chokkanpatti Poigai	Coarse texture topography
226804	3sd	Pudupatti Ambasamudram Tiruchuli Padarnthapuli Sivalaperi	Alkalinity heavy texture calcareousness drainage hazard
4518	4st	Chokkanathapudur Kallurani Ayaneri Nagalapuram	Shallow depth topography

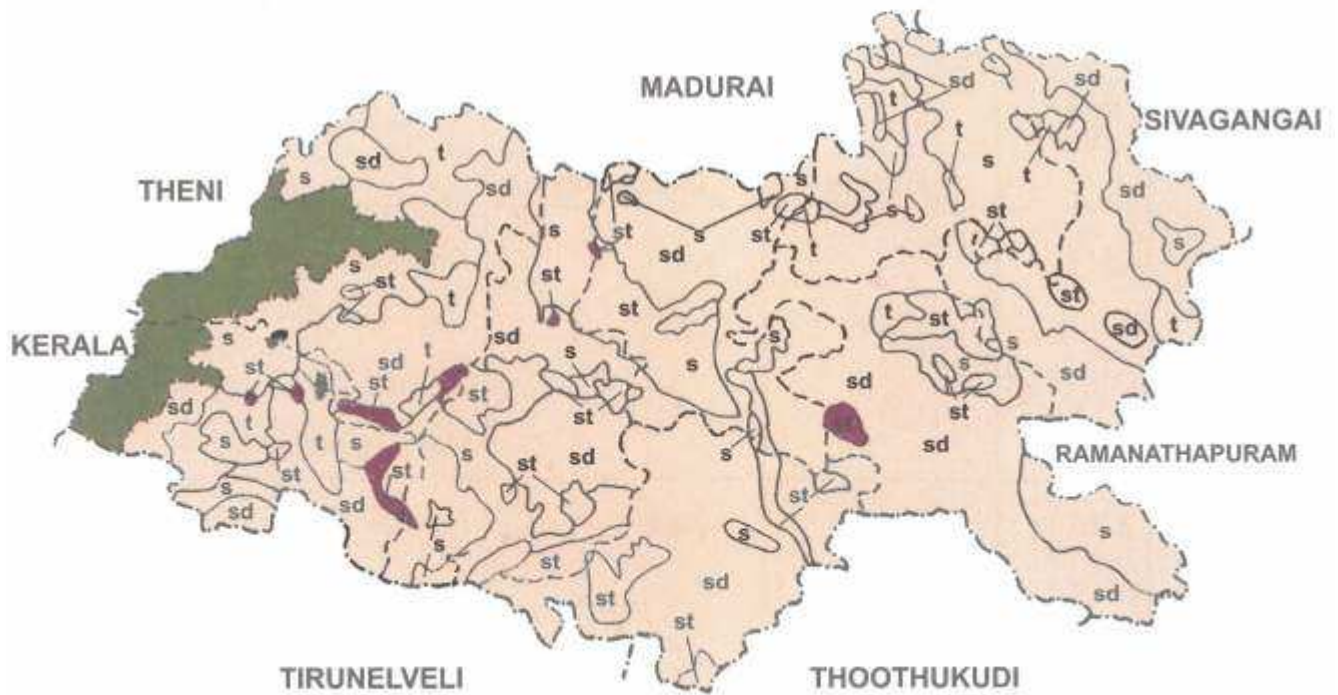
Class

- 3 - Lands that have severe limitations for sustained use under irrigation.
- 4 - Lands that have very severe limitations for sustained use under irrigation.

Sub Class

- s - Soil limitation
- t - Topographical limitations
- d - Drainage hazard

LAND IRRIGABILITY VIRUDHUNAGAR DISTRICT





REFERENCE

- · · · — STATE BOUNDARY
- · · — DISTRICT BOUNDARY
- · — TALUK BOUNDARY
- — COASTAL BOUNDARY
-  FOREST BOUNDARY

LEGEND

CLASS

-  Severe Limitation
-  Very Severe Limitation

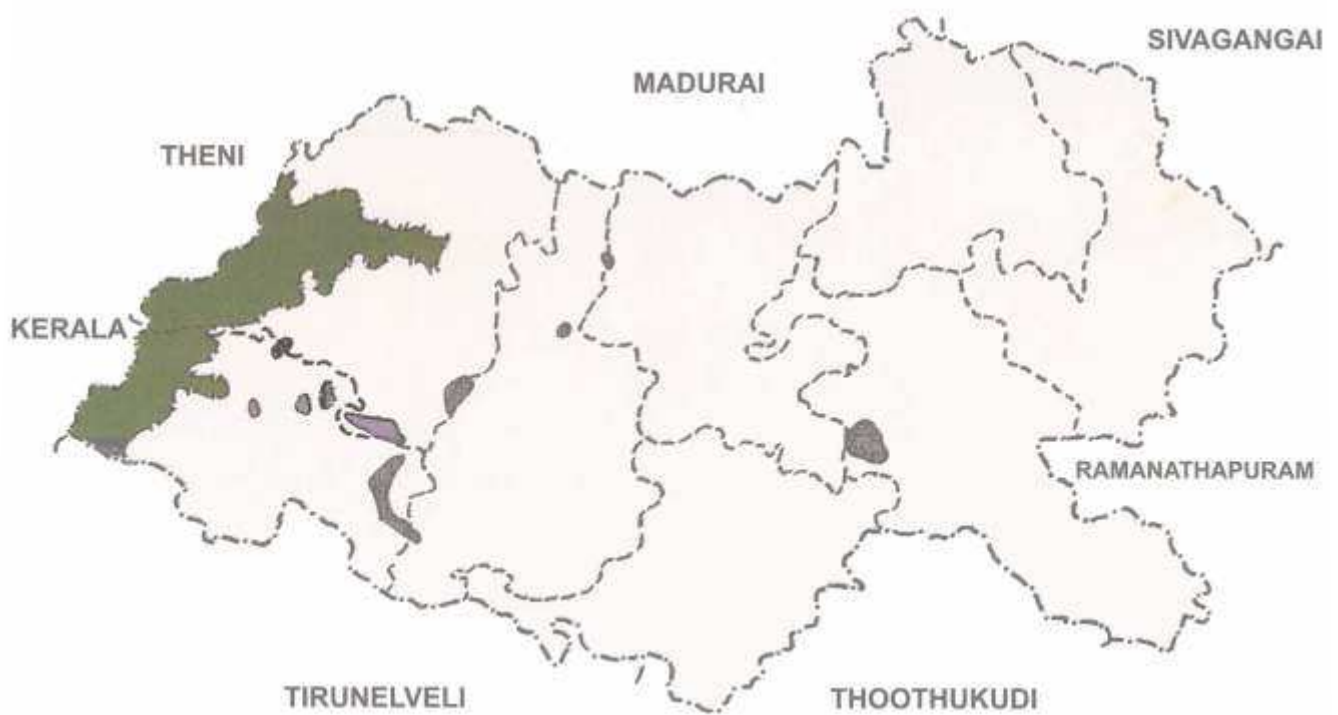
SUB CLASS

- s Soil Limitation
- t Topographic Limitation
- d Drainage Hazard

SOIL PRODUCTIVITY

Area (ha)	Productivity		Soil Series
	Rating	Grouping	
4518	8 - 9	poor	Chokkanathapudur Kallurani Ayaneri Nagalapuram
376234	20 - 34	Average	Idayankulam Agarakkattu Pudupatti Mandarai Mekkarai Ambasamudram Tiruchuli Thattaparai Poigai Chokkanpatti Padarnthapuli Sivalaperi

SOIL PRODUCTIVITY VIRUDHUNAGAR DISTRICT



REFERENCE

- · · · — STATE BOUNDARY
- · · — DISTRICT BOUNDARY
- · — TALUK BOUNDARY
- — COASTAL BOUNDARY
- ▨ FOREST BOUNDARY

LEGEND

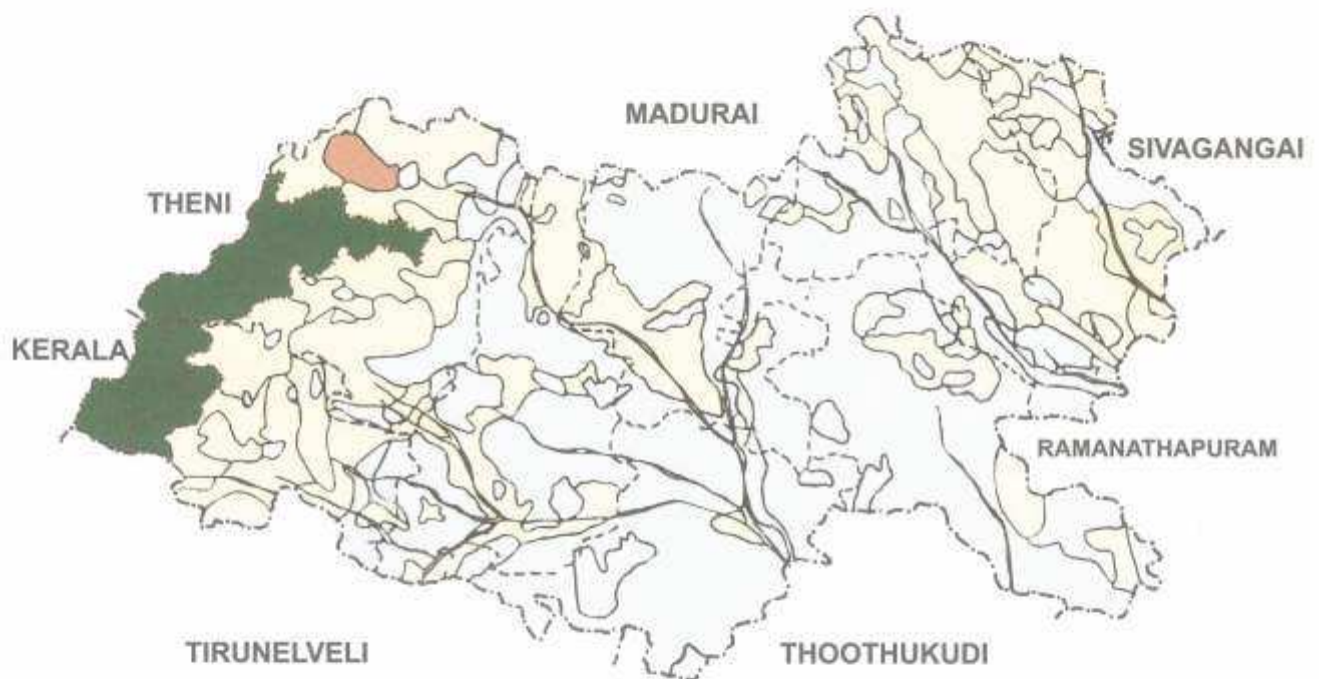
- ▨ POOR
- AVERAGE

SUITABILITY FOR RICE

S.No.	Suitability Class	Area (ha)
1.	Highly Suited	3030
2.	Moderately Suited	150740
3.	Marginally Suited	226982

SUITABILITY FOR RICE




VIRUDHUNAGAR DISTRICT



REFERENCE

- · · · — STATE BOUNDARY
- · · — DISTRICT BOUNDARY
- · — TALUK BOUNDARY
- COASTAL BOUNDARY
- ■ ■ ■ ■ FOREST BOUNDARY

LEGEND

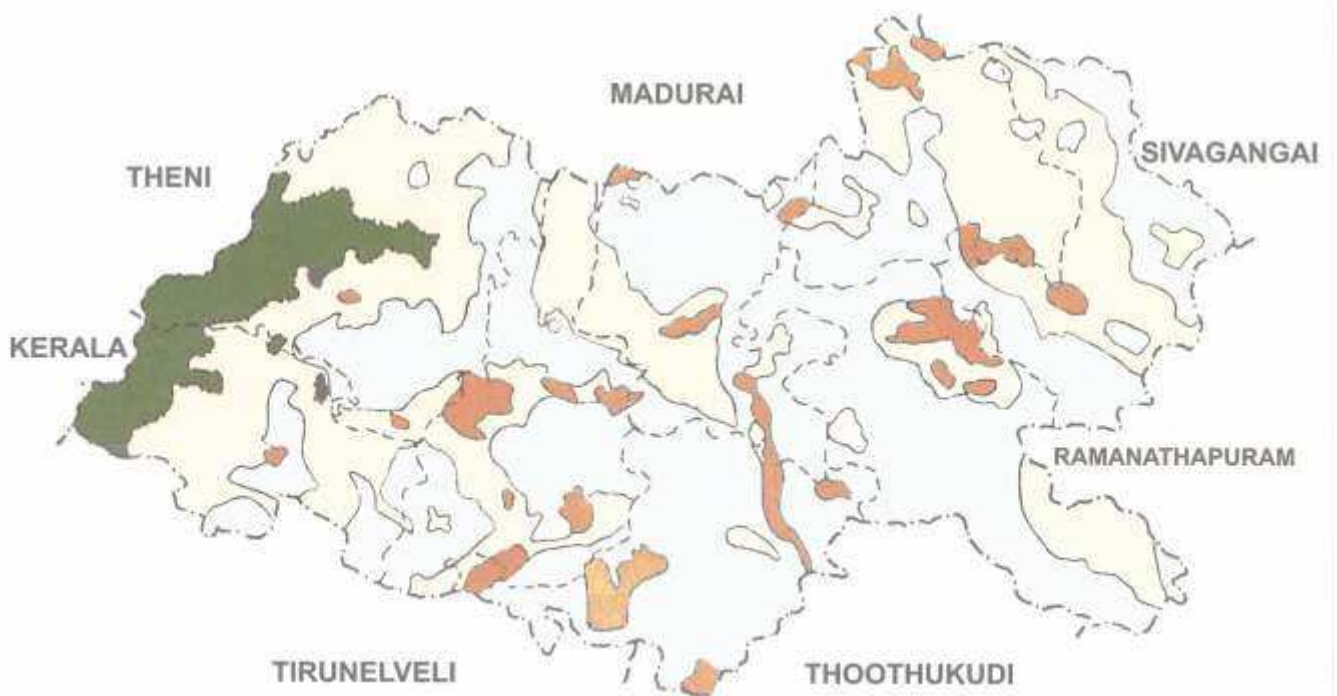
-  HIGHLY SUITABLE
-  MODERATELY SUITABLE
-  MARGINALLY SUITABLE

SOIL COLOUR

Red Soil	Brown Soil	Black Soil
Chokkanpatti Poigai Idayankulam	Ambasamudram Mekkarai Mandarai Thattaparai Agarakkattu Kallurani Ayaneri Chokkanathapudur Nagalapuram	Padarnthapuli Tiruchuli Sivalaperi Pudupatti
22,991 ha	133987 ha	223774 ha

SOIL COLOUR

VIRUDHUNAGAR DISTRICT



REFERENCE

- · · — STATE BOUNDARY
- · · — DISTRICT BOUNDARY
- · — TALUK BOUNDARY
- COASTAL BOUNDARY
- ▨ FOREST BOUNDARY

LEGEND

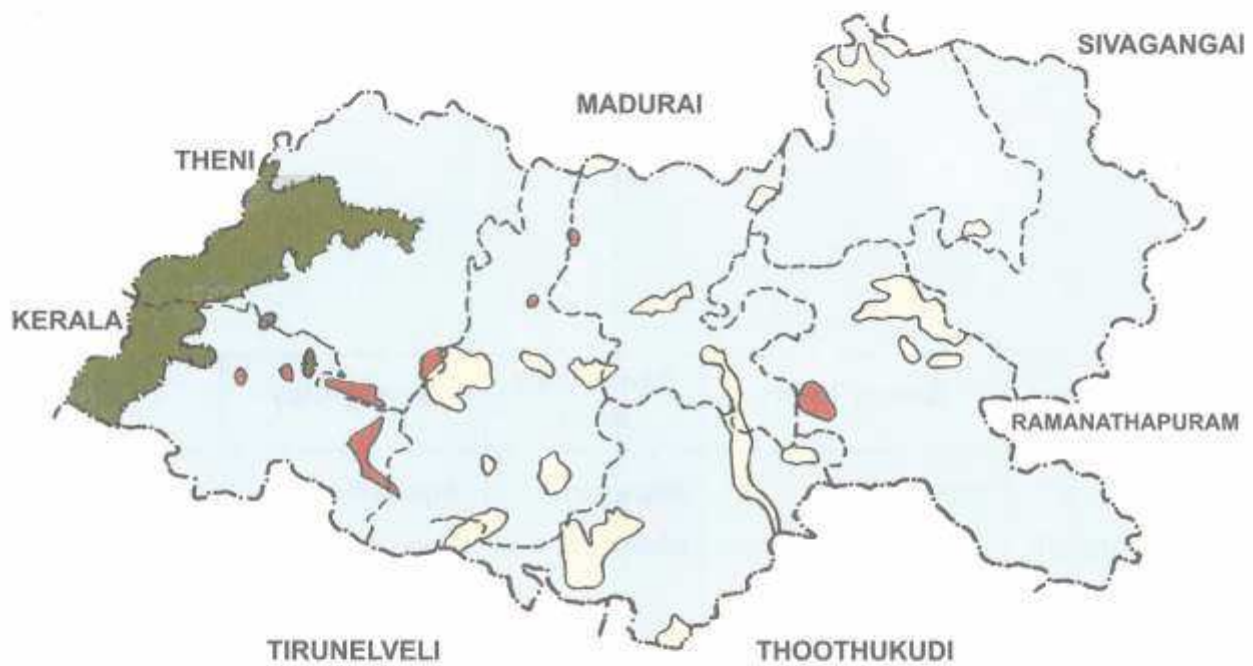
- BLACK SOIL
- BROWN SOIL
- RED SOIL

DEPTH

Moderately deep (26 - 50 cm)	Deep (51-100 cm)	Very Deep (Above 100 cm)
Chokkanathapuram Kallurani Ayaneri Nagalapuram	Idayankulam Poigai	Agarakkattu Pudupatti Mekkarai Mandarai Ambasamudram Tiruchuli Thattaparai Chokkanpatti Padarnthapuli Sivalaperi
4,518 ha	21,186 ha	3,55,048 ha

DEPTH

VIRUDHUNAGAR DISTRICT



REFERENCE

- · · · — STATE BOUNDARY
- · · — DISTRICT BOUNDARY
- · - TALUK BOUNDARY
- COASTAL BOUNDARY
- FOREST BOUNDARY

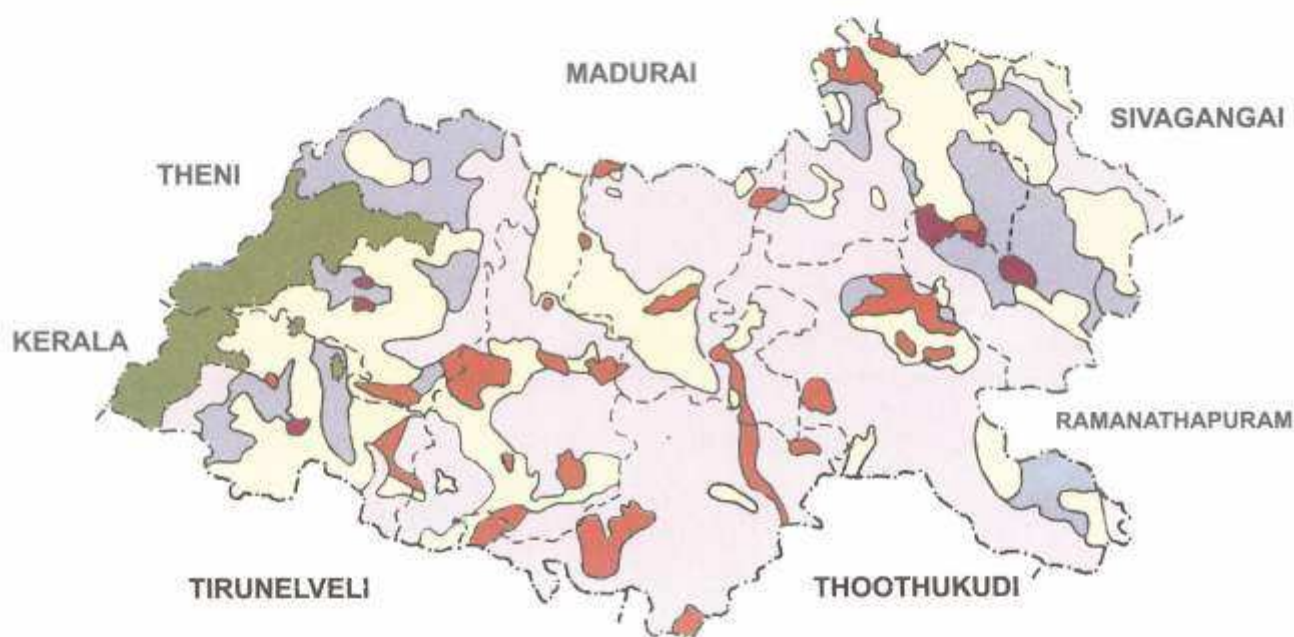
LEGEND

- MODERATELY DEEP
- DEEP
- VERY DEEP

SOIL TEXTURE

Loamy sand	Sandy loam	Sandy clay loam	Sandy clay	Clay
Thattaparai Chokkanpatti	Idayankulam Chokkanathapudur Kallurani Ayaneri Poigai	Mandarai Mekkarai	Agarakkattu Pudupatti Nagalapuram Ambasamudram Tiruchuli	Padarnthapuli Sivalaperi
2,080 ha	25,510 ha	61,638 ha	92,886 ha	1,98,638 ha

SOIL TEXTURE VIRUDHUNAGAR DISTRICT



REFERENCE

- · · · — STATE BOUNDARY
- · · — DISTRICT BOUNDARY
- · — TALUK BOUNDARY
- COASTAL BOUNDARY
- ▨ FOREST BOUNDARY

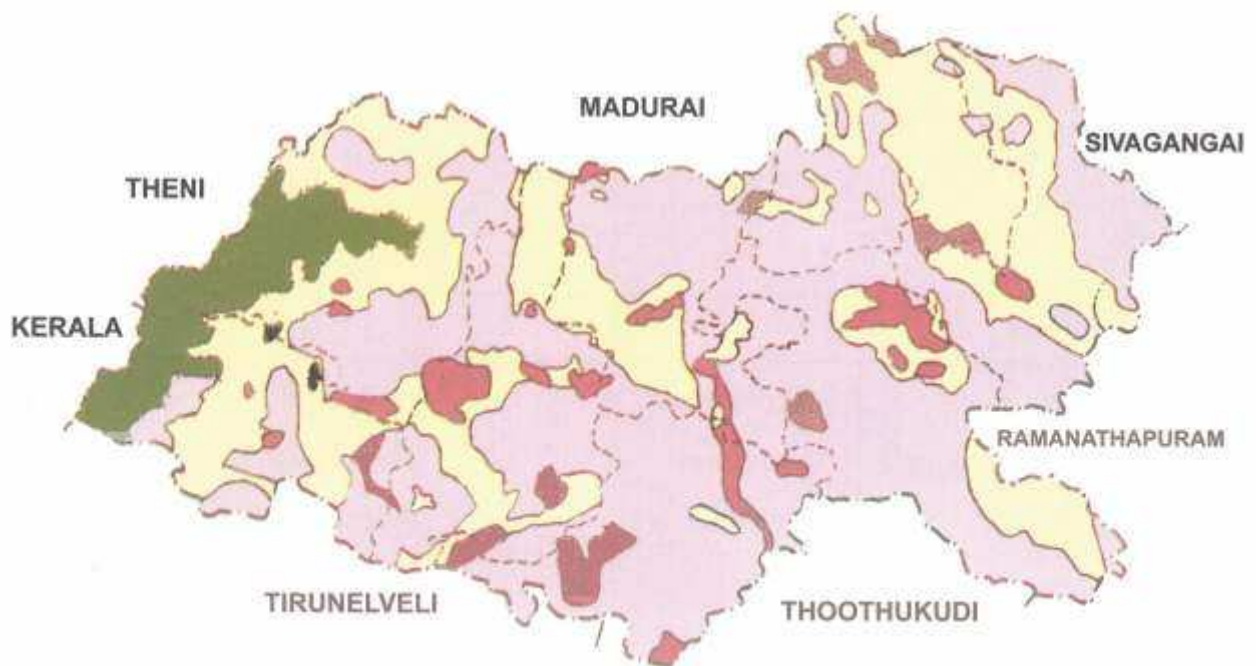
LEGEND

- LOAMY SAND
- SANDY LOAM
- SANDY CLAY LOAM
- SANDY CLAY
- CLAY

PERMEABILITY

Slow	Moderately Slow	Rapid
Pudupatti Nagalapuram Ambasamudram Tiruchuli Padarnthapuli Sivalaperi	Agarakkattu Mandarai Mekkarai	Idayankulam Chokkanathapuram Kallurani Ayaneri Thattaparai Poigai Chokkanpatti
2,26,998 ha	1,26,164 ha	27,590 ha




PERMEABILITY VIRUDHUNAGAR DISTRICT



REFERENCE

- · · · — STATE BOUNDARY
- · · — DISTRICT BOUNDARY
- · — TALUK BOUNDARY
- COASTAL BOUNDARY
- · · · · · FOREST BOUNDARY

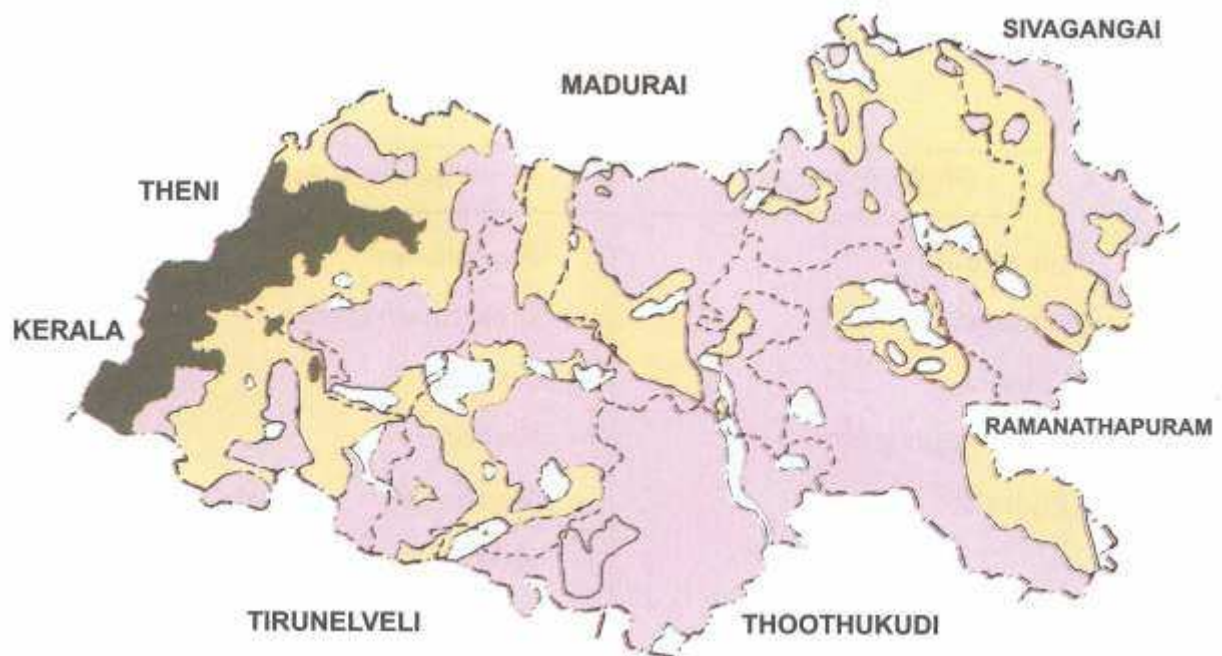
LEGEND

-  SLOW
-  MODERATELY SLOW
-  RAPID

WATER HOLDING CAPACITY

Low	Medium	High
Idayankulam Chokkanathapudur Kallurani Ayaneri Thattaparai Poigai Chokkanpatti	Agarakkattu Mandarai Mekkarai	Pudupatti Nagalapuram Ambasamudram Tiruchuli Padarnthapuli Sivalaperi
27,590 ha	1,26,164 ha	2,26,998 ha

WATER HOLDING CAPACITY VIRUDHUNAGAR DISTRICT



REFERENCE

- · · · — STATE BOUNDARY
- · · — DISTRICT BOUNDARY
- · — TALUK BOUNDARY
- COASTAL BOUNDARY
- ▨ FOREST BOUNDARY

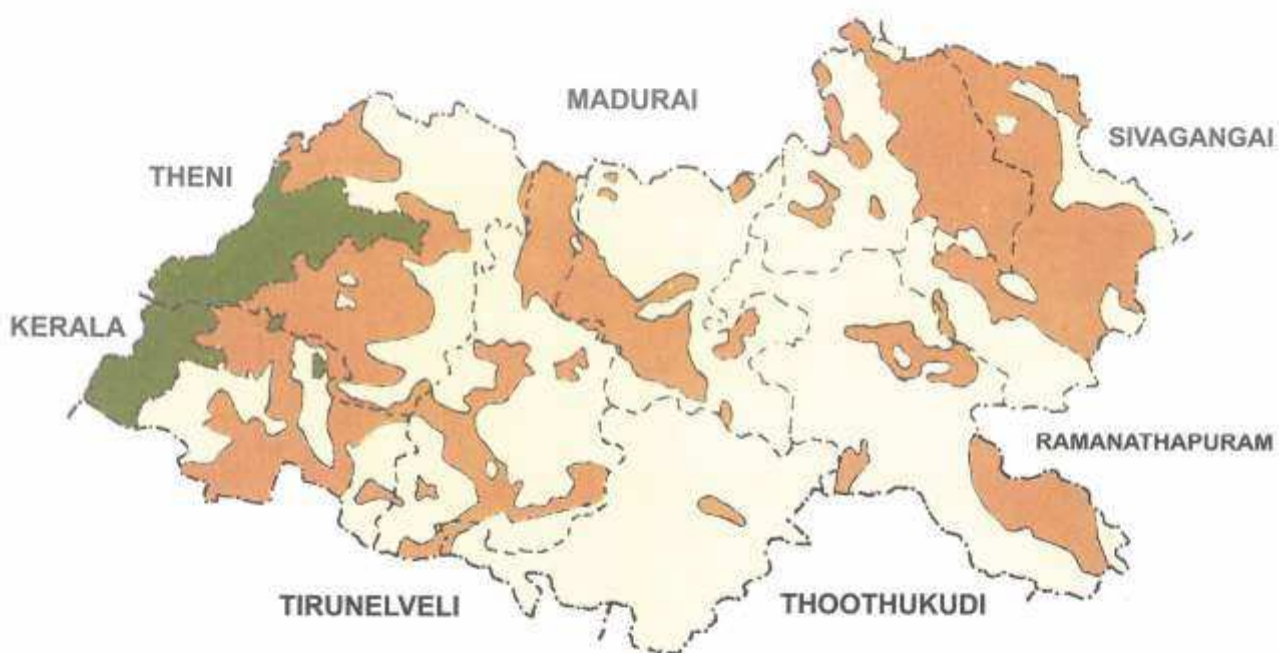
LEGEND

- HIGH
- MEDIUM
- LOW

SOIL EROSION

Slight Erosion	Moderate Erosion
Agarakkattu	Idayankulam
Pudupatti	Chokkanathapuram
Mandarai	Kallurani
Ambasamudram	Ayaneri
Tiruchuli	Nagalapuram
	Mekkarai
	Thattaparai
	Poigai
	Chokkanpatti
	Padarnthapuli
	Sivalaperi
1,22,277 ha	2,58,475 ha

EROSION VIRUDHUNAGAR DISTRICT



REFERENCE

- · · · — STATE BOUNDARY
- · · — DISTRICT BOUNDARY
- · — TALUK BOUNDARY
- COASTAL BOUNDARY
- ■ ■ ■ ■ FOREST BOUNDARY

LEGEND

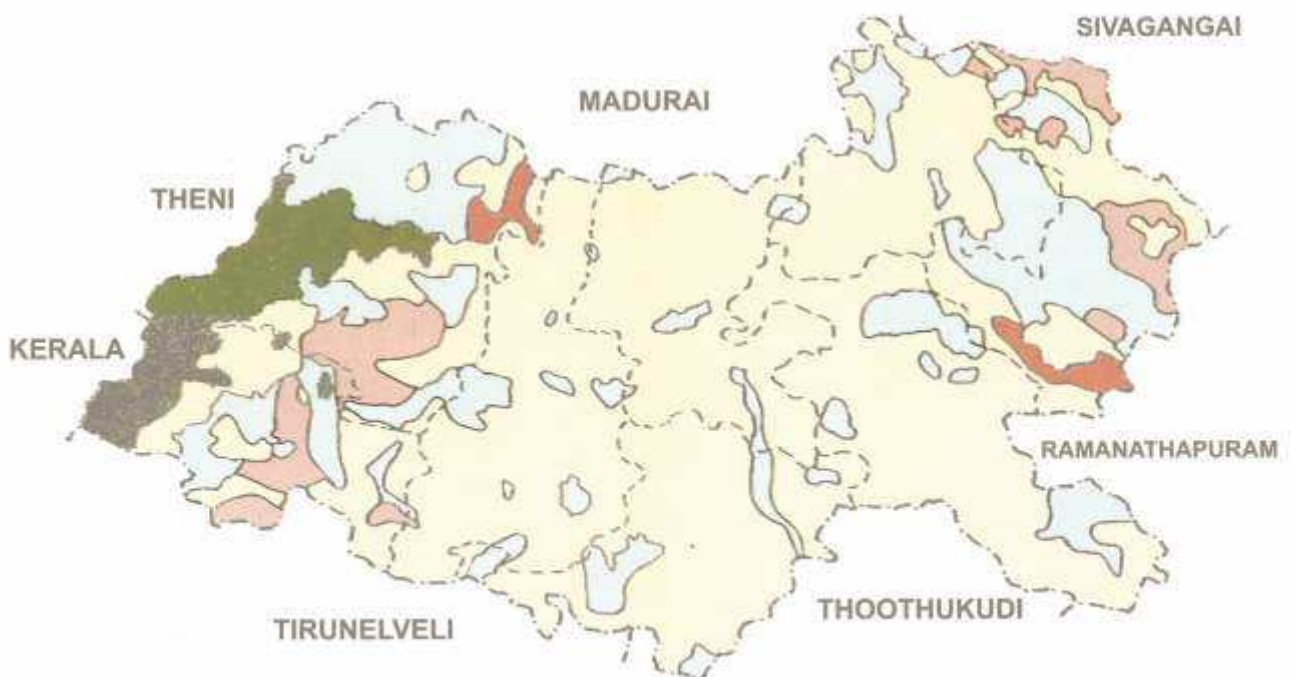
-  SLIGHT
-  MODERATE

CALCAREOUSNESS

Nil	Mild	Strong	Violent
Idayankulam	Tiruchuli	Agarakkattu	Sivalaperi
Chokkanathapuram		Pudupatti	
Kallurani		Nagalapuram	
Ayaneri		Padarnthapuli	
Mandarai			
Mekkarai			
Ambasamudram			
Thattaparai			
Poigai			
Chokkanpatti			
92,258 ha		24,301 ha	

CALCAREOUSNESS





VIRUDHUNAGAR DISTRICT



REFERENCE

- · · · — STATE BOUNDARY
- · · — DISTRICT BOUNDARY
- · — TALUK BOUNDARY
- COASTAL BOUNDARY
-  FOREST BOUNDARY

LEGEND

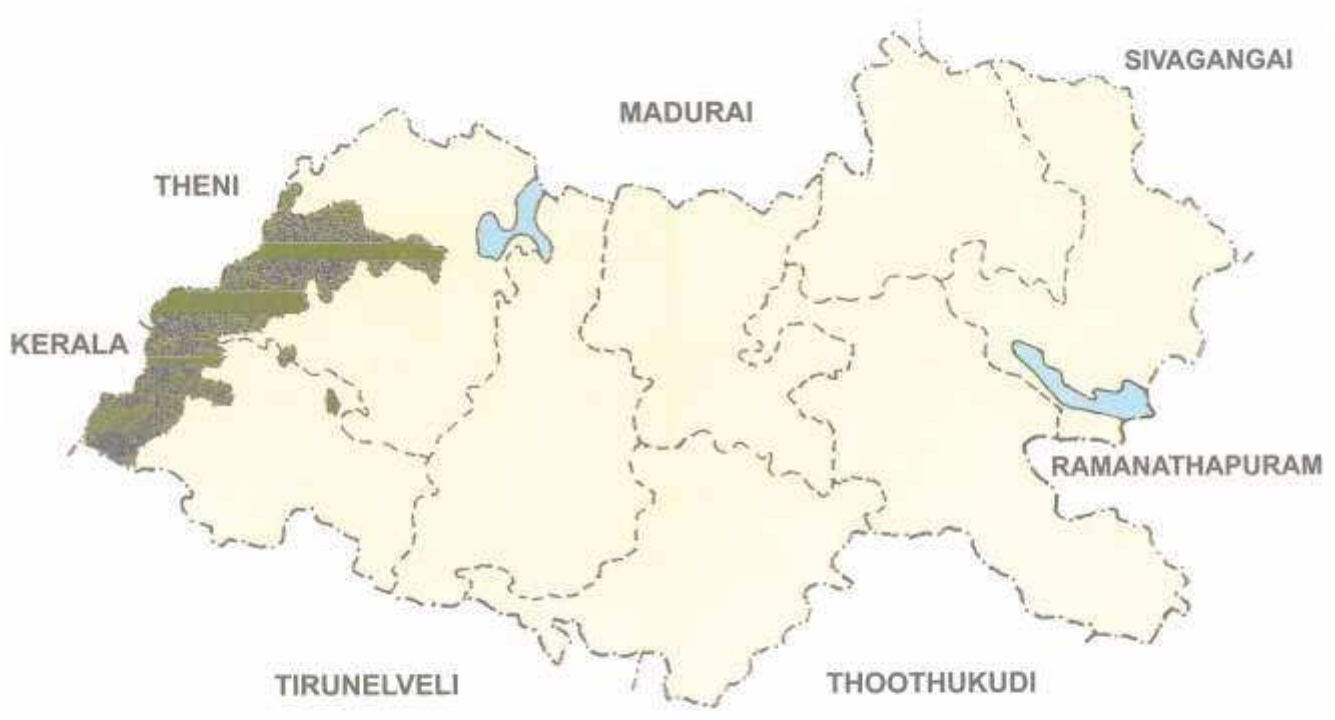
-  NIL
-  MILD
-  STRONG
-  VIOLENT

SALINITY

Category	Soil Series	Area (ha)
Saline	Sivalaperi	2,784
Non saline	Padarnthapuli Agarakkattu Mekkarai Mandarai Tiruchuli Idayankulam Poigai Ambasamudram Ayaneri Chokkanpatti Kallurani Pudupatti Chokkanathapudur Thattaparai Nagalapuram	3,77,968

SALINITY

VIRUDHUNAGAR DISTRICT



REFERENCE

- · · · — STATE BOUNDARY
- · · — DISTRICT BOUNDARY
- · — TALUK BOUNDARY
- — COASTAL BOUNDARY
- ▨▨▨▨▨ FOREST BOUNDARY

LEGEND

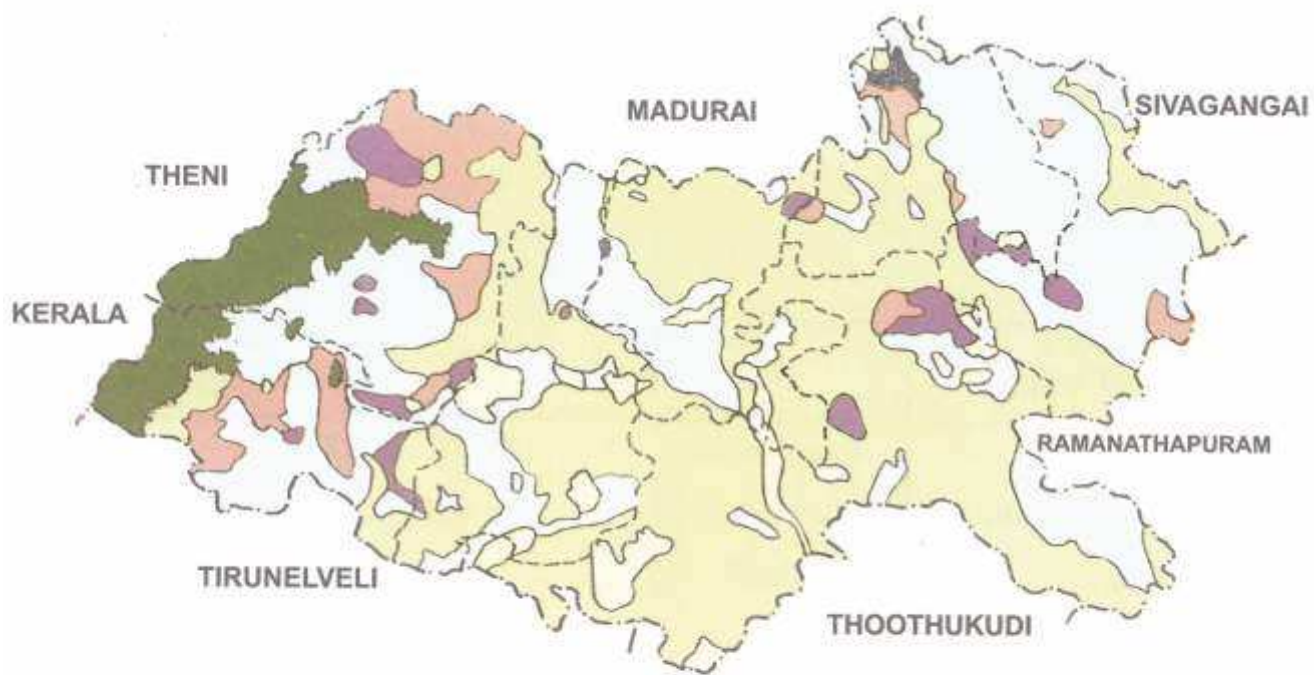
-  SALINE
-  NON SALINE

SOIL REACTION

Slightly Acid (6.1 - 6.5)	Neutral (6.6 - 7.3)	Midly Alkaline (7.4 - 7.8)	Moderately Alkaline (7.9 - 8.4)	Stongly Alkaline (8.5 - 9.0)
Mekkarai	Kallurani Ayaneri Ambasamudram Thattaparai Poigai Chokkanpatti	Idayankulam Chokkanathapudur	Agarakkattu Pudupatti Nagalapuram Mandarai Tiruchuli	Padarnthapuli Sivalaperi
32,053 ha	12,486 ha	18,134 ha	1,19,144 ha	1,98,638 ha

SOIL REACTION

VIRUDHUNAGAR DISTRICT



REFERENCE

- · · · — STATE BOUNDARY
- · · — DISTRICT BOUNDARY
- · — TALUK BOUNDARY
- COASTAL BOUNDARY
-  FOREST BOUNDARY

LEGEND

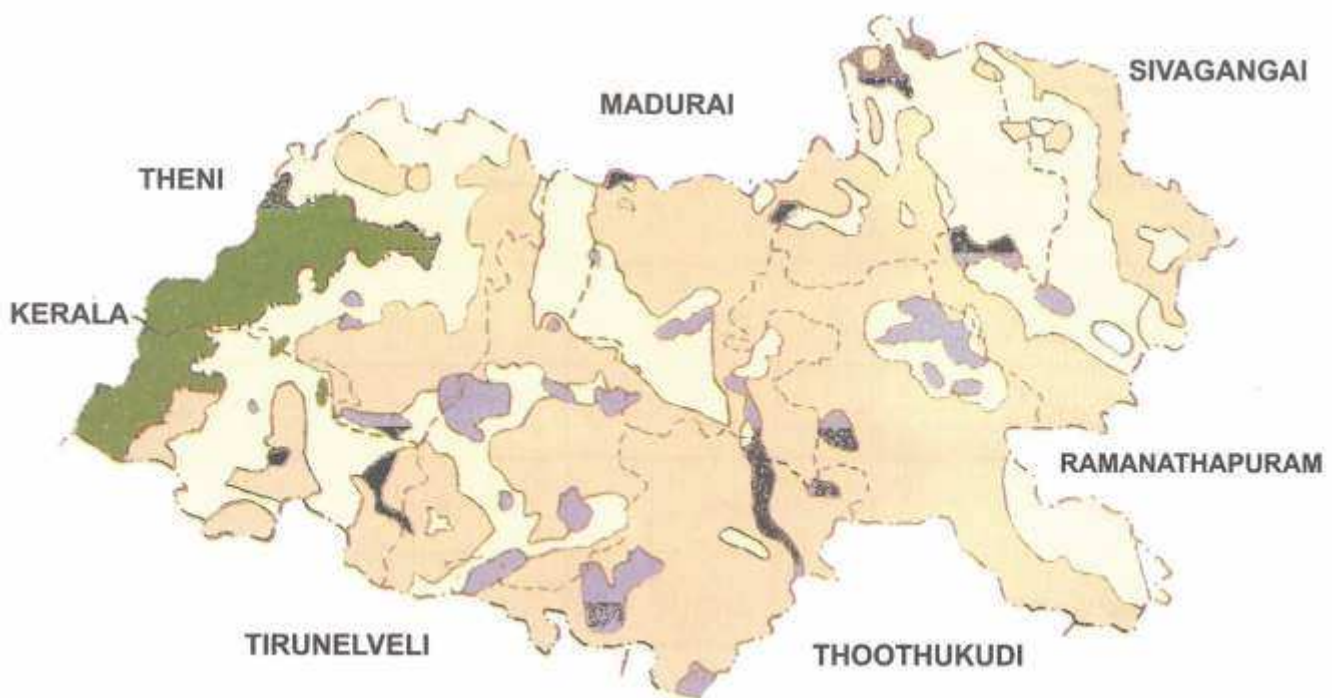
-  SLIGHTLY ACID
-  NEUTRAL
-  MILDLY ALKALINE
-  MODERATELY ALKALINE
-  STRONGLY ALKALINE

CATION EXCHANGE CAPACITY

Low (< 10 meg)	Medium (11 - 25 meg)	High (> 25 meg)
Idayankulam	Agarakkattu	Pudupatti
Chokkanathapudur	Mandarai	Nagalapuram
Kallurani	Mekkarai	Ambasamudram
Ayaneri		Tiruchuli
Thattaparai		Padarnthapuli
Poigai		Sivalaperi
Chokkanpatti		
27,590 ha	1,26,164 ha	2,26,998 ha

CATION EXCHANGE CAPACITY

VIRUDHUNAGAR DISTRICT



REFERENCE

- STATE BOUNDARY
- .-.-.- DISTRICT BOUNDARY
- . - TALUK BOUNDARY
- COASTAL BOUNDARY
-  FOREST BOUNDARY

LEGEND

-  HIGH
-  MEDIUM
-  LOW

SOILS

ARUPPUKOTTAI TALUK

Soil Series	Symbol	Extent	
		ha	%
1. Padarnthapuli	Ppl	48915	81.25
2. Agarakkattu	Agk	3000	4.98
3. Mandarai	Mnd	2500	4.15
4. Idayankulam	lkm	1585	2.64
5. Poigai	Pgi	1580	2.62
6. Mekkarai	Mkr	900	1.49
7. Kallurani	Kln	890	1.48
8. Pudupatti	Ppt	835	1.39
	Total	60205	100.00

VILLAGE-WISE FERTILITY STATUS AND DOMINANT SOIL SERIES

ARUPPUKOTTAI TALUK

Village	Fertility Status (kg/ac)			Dominant Soil Series
	N	P	K	
1. Villipaththari	77	5.0	280	Ppl
2. Kullurchanthai	66	5.8	226	Ppl
3. Kovilangulam	70	5.7	243	Ppl
4. Kallumarpatti	86	3.5	469	Ppl
5. Poyyankulam	43	6.9	175	Mnd Pgi
6. Kurinjakkulam	63	6.3	185	Mnd Pgi
7. Meathodiyankulam	45	6.9	64	Mnd Pgi
8. Gopalapuram	71	4.8	293	Ppl
9. Aathipatti	69	6.2	310	Ppl
10. Kanjanayakanpatti	62	5.6	232	Ppl
11. Palayampatti	74	6.4	324	Ppl
12. Kattakanjampatti	71	11.0	331	Ppl
13. T. Meenashipuram	68	6.7	330	Ppl
14. Ramapuram	64	6.0	364	Ppl
15. Aamanakkunatham	60	4.3	319	Ppl Kln
16. Chettikurichi	66	5.6	333	Ppl Kln
17. Koothiparai	63	6.0	470	Ppl
18. Thiruvirunthalpuram	85	4.2	488	Ppl
19. Velayuthapuram	76	5.2	403	Ppl Ppt
20. Kurunthamadam	63	5.5	318	Ppl Kln
21. Chettipatti	68	6.3	302	Ppl
22. Thummakundu	61	5.1	255	Ppl

VILLAGE-WISE FERTILITY STATUS AND DOMINANT SOIL SERIES

ARUPPUKOTTAI TALUK

Village	Fertility Status (kg/ac)			Dominant Soil Series
	N	P	K	
1. Villipaththari	77	5.0	280	Ppl
2. Kullurchanthal	66	5.8	226	Ppl
3. Kovilangulam	70	5.7	243	Ppl
4. Kallumarpatti	86	3.5	469	Ppl
5. Poyyankulam	43	6.9	175	Mnd Pgi
6. Kurinjakkulam	63	6.3	185	Mnd Pgi
7. Meathodiyankulam	45	6.9	64	Mnd Pgi
8. Gopalapuram	71	4.8	293	Ppl
9. Aathipatti	69	6.2	310	Ppl
10. Kanjanayakanpatti	62	5.6	232	Ppl
11. Palayampatti	74	6.4	324	Ppl
12. Kattakanjampatti	71	11.0	331	Ppl
13. T. Meenashipuram	68	6.7	330	Ppl
14. Ramapuram	64	6.0	364	Ppl
15. Aamanakkunatham	60	4.3	319	Ppl Kln
16. Chettikurichi	66	5.6	333	Ppl Kln
17. Koothiparai	63	6.0	470	Ppl
18. Thiruvirunthalpuram	85	4.2	488	Ppl
19. Velayuthapuram	76	5.2	403	Ppl Ppt
20. Kurunthamadam	63	5.5	318	Ppl Kln
21. Chettipatti	68	6.3	302	Ppl
22. Thummakundu	61	5.1	255	Ppl

Village	Fertility Status (kg/ac)			Dominant Soil Series
	N	P	K	
23. P. Aandipatti	72	6.6	670	Ppl Ppt
24. T. Koppuchithampatti	66	7.0	272	Ppl Ppt
25. V. Koppuchithampatti	62	6.2	322	Ppl
26. Vedanatham	64	5.6	124	Ppl Ppt
27. Errachinnampatti	62	4.3	401	Ppl Ppt
28. R. Kallumadam	64	6.4	218	Ppl Ppt
29. Kalayarkarisalkulam	63	5.2	240	Ppl
30. Pommaikottai	64	6.0	281	Ppl
31. Muthuramalingapuram	82	5.5	394	Ppl
32. Kalloorani	65	6.8	412	Ppl Agk
33. Aladipatti	58	2.4	148	Agk
34. Thammanayakanpatti	61	4.2	425	Ppl
35. Pullanayakanpatti	66	6.4	356	Mkr Agk
36. Thoppalakkarai	72	17.5	189	Ppl Agk
37. Paralachi	66	17.0	282	Mkr
38. Sengulam	66	4.2	270	Mkr
39. Therkunatham	63.5	15.0	243	Ppl
40. Purasaloor	62.5	15.0	455	Ppl Agk
41. Kallakkari	62	3.5	469	Ppl Agk
42. Keezhakudi	62	5.0	500	Mkr Agk

LAND CAPABILITY

ARUPPUKOTTAI TALUK

Area (ha)	Land Capability Classification	Soil series	Limitation	Needs
5500	lls	Agarakkattu Mandarai	Moderate alkalinity crusting	Addition of organic manures
900	lle	Mekkarai	Erosion	Erosion control
3165	llse	Idayankulam Poigai	Surface coarse texture erosion	Addition of tank silt and organic manures erosion control
49750	llsw	Padarnthapuli Pudupatti	Alkalinity heavy texture calcareousness wetness	Selection of crops application of iron pyrite drainage
890	IVse	Kallurani	Shallow depth erosion	Selection of suitable crops erosion control.

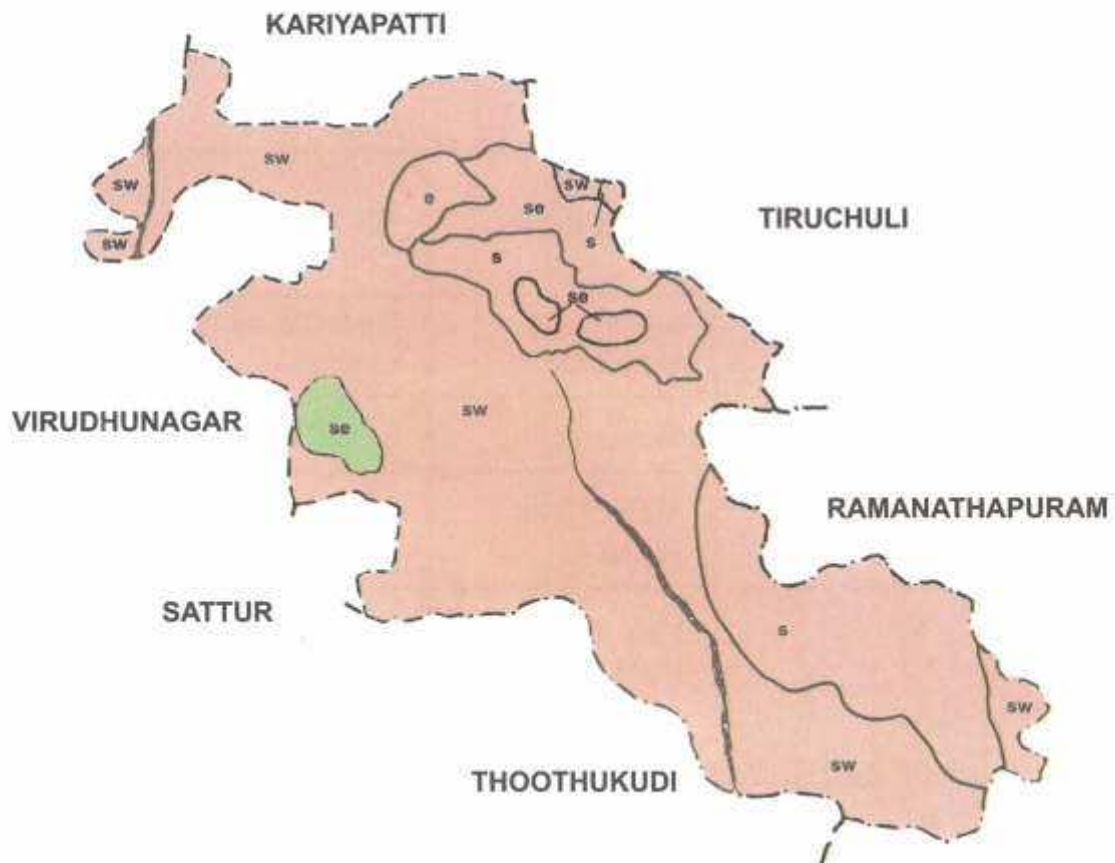
Class

- III Moderately good cultivable lands that have severe limitations for sustained use under agriculture.
- IV Lands that have very severe limitations for sustained use under agriculture

Sub class

- s - Root zone limitations
- e - Erosion and runoff
- w - Wetness

LAND CAPABILITY ARUPPUKKOTTAI TALUK



REFERENCE
 - . - DISTRICT BOUNDARY
 - - - - - TALUK BOUNDARY

LEGEND

CLASS

 Severe Limitation

 Very Severe Limitation

SUB CLASS

s Root Zone Limitation

e Erosion and Runoff

w Wetness

LAND IRRIGABILITY

ARUPPUKOTTAI TALUK

Area (ha)	Land Irrigability Classification	Soil series	Limitation
5500	3 s	Agarakkattu Mandarai	Moderate alkalinity crusting
900	3t	Mekkarai	Topography
3165	3st	Idayankulam Poigai	Coarse texture topography
49750	3sd	Padarnthapuli Pudupatti	Alkalinity heavy texture calcareousness drainage hazard
890	4st	Kallurani	Shallow depth topography

Class

3. Lands that have severe limitations for sustained use under irrigation.
4. Lands that have severe limitations limitation for sustained use under irrigation.

Sub class

- s - Soil limitation
- t - Topography
- d - Drainage hazard

LAND IRRIGABILITY ARUPPUKOTTAI TALUK



REFERENCE
 - · - DISTRICT BOUNDARY
 - · - · - · - TALUK BOUNDARY

LEGEND

CLASS

□ Severe Limitation
 ■ Very Severe Limitation

SUB CLASS

s Soil Limitation
 t Topographic Limitation
 d Drainage Hazard

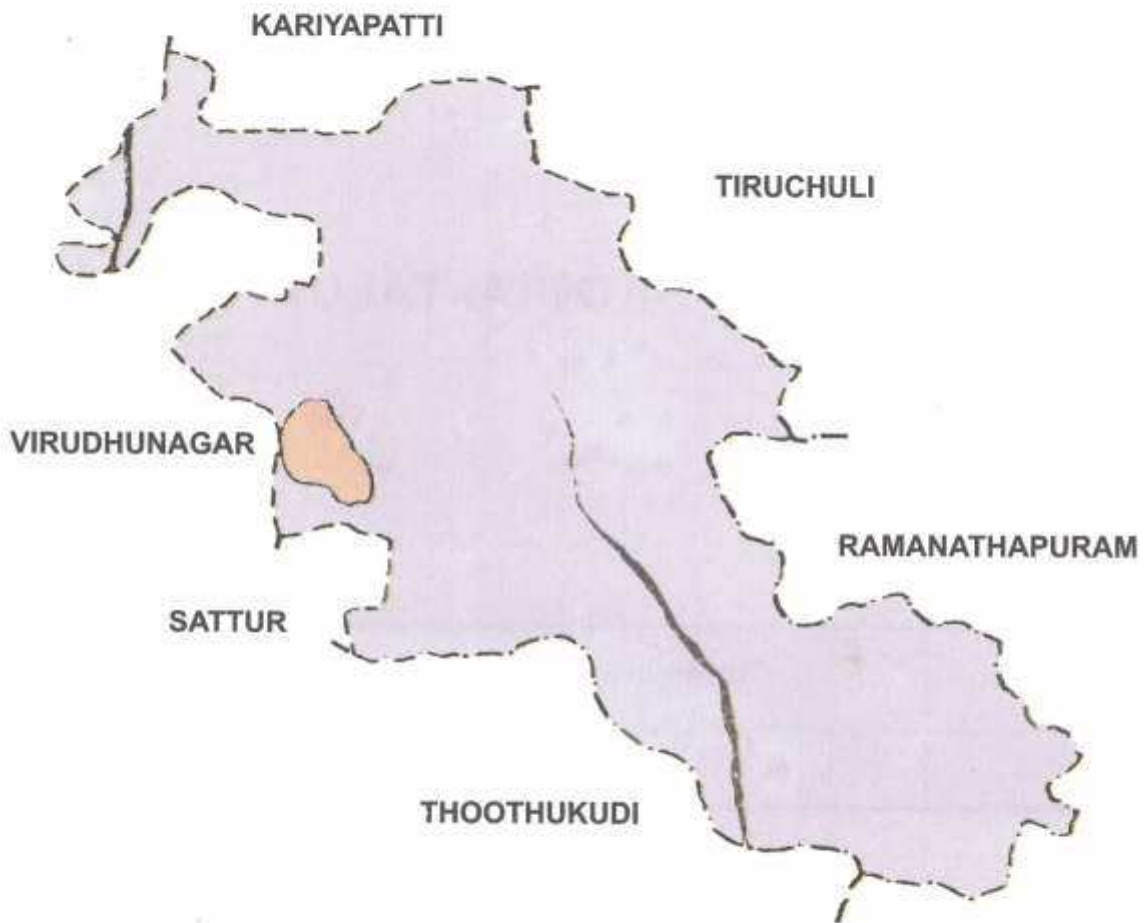
SOIL PRODUCTIVITY

ARUPPUKOTTAI TALUK

Area (ha)	Productivity		Soil series
	Rating	Grouping	
890	8 - 19	Poor	Kallurani
59315	20 - 34	Average	Padarnthapuli Agarakkattu Mandarai Idayankulam Poigai Pudupatti Mekkarai

SOIL PRODUCTIVITY

ARUPPUKKOTTAI TALUK



REFERENCE

- • — DISTRICT BOUNDARY
- TALUK BOUNDARY

LEGEND

-  Average
-  Poor

SUITABILITY FOR COTTON

ARUPPUKOTTAI TALUK

S.No.	Suitability Class	Area (ha)
1.	Highly Suitable	49750
2.	Moderately Suitable	7980
3.	Marginally Suitable	2475

SUITABILITY FOR COTTON

ARUPPUKKOTTAI TALUK



REFERENCE

- • — DISTRICT BOUNDARY
- TALUK BOUNDARY

LEGEND

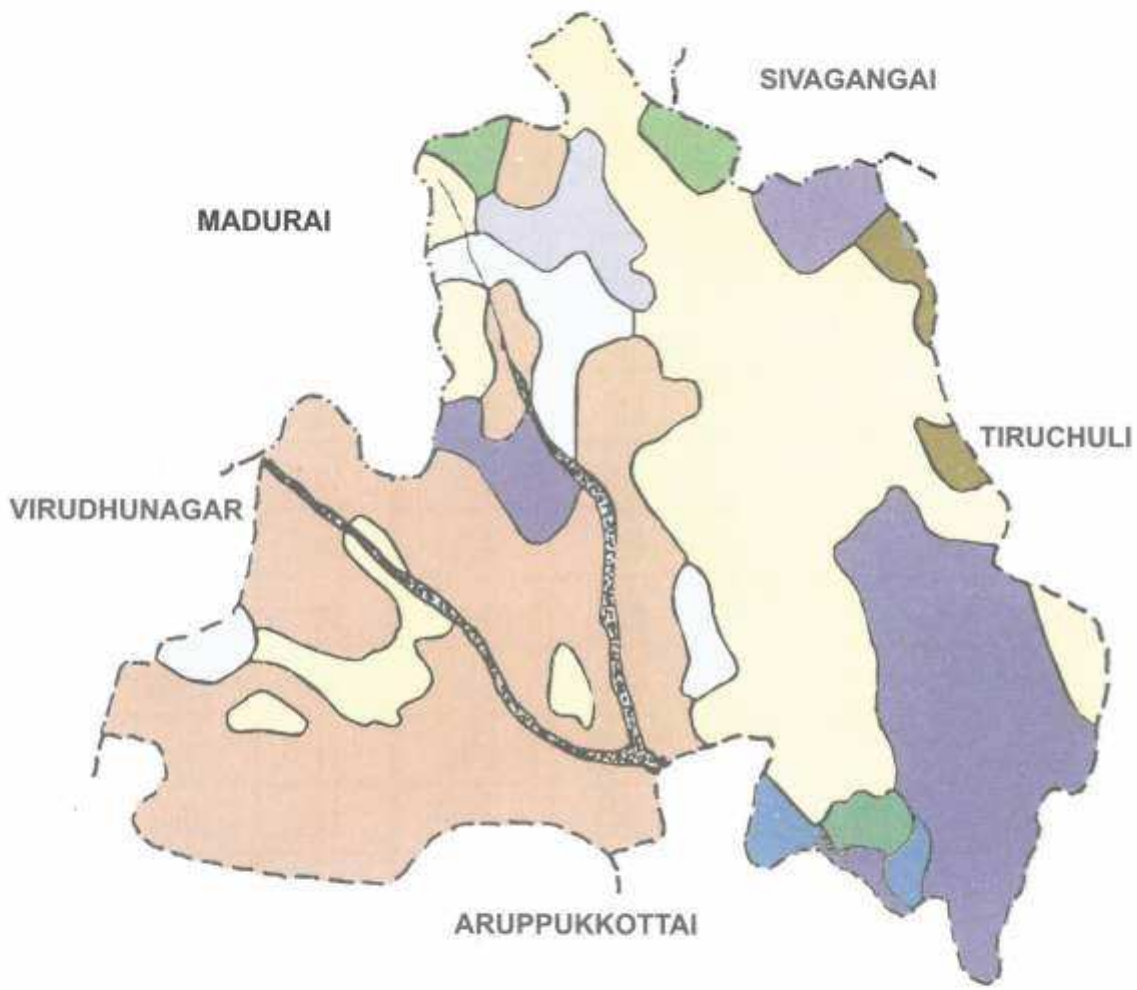
-  Highly Suited
-  Moderately Suited
-  Marginally Suited

SOILS

KARIYAPATTI TALUK

Soil Series	Symbol	Extent	
		ha	%
1. Agarakkattu	Agk	20155	36.66
2. Padarnthapuli	Ppl	17703	32.30
3. Mekkarai	Mkr	7863	14.30
4. Mandarai	Mnd	5500	10.00
5. Poigai	Pgi	1558	2.83
6. Idayankulam	lkm	1200	2.18
7. Tiruchulii	Tcl	600	1.09
8. Chokkanpatti	Ckp	405	0.74
Total		54984	100.00

SOILS KARIAPATTI TALUK



REFERENCE
- . - DISTRICT BOUNDARY
- - - - - TALUK BOUNDARY

LEGEND

-  AGARAKATTU
-  PADARNTHAPULI
-  MANDARAI
-  MEKKARAI
-  POIGAI
-  IDAYANKULAM
-  TIRUCHULI
-  CHOKKAMPATTI

VILLAGEWISE FERTILITY STATUS AND DOMINANT SOIL SERIES

KARIYAPATTI TALUK

Village	Fertility Status (kg/ac)			Dominant Soil Series
	N	P	K	
1. Karisalkulam	67	6.2	270	Ppl
2. Thonugal	69	7.1	329	Ppl, Agk
3. Vadakku Puliampatti	62	6.2	300	Ppl, Agk
4. Thoopur	70	6.2	232	Ppl, Mkr
5. Kalkurichi	62	5.2	115	Ppl
6. Pampaatti	62	6.5	191	Ppl
7. Vakkanangundu	82	6.0	249	Ppl
8. Panthanenthal	62	20.4	201	Ppl
9. Jogilpatti	61	5.8	169	Ppl
10. Kariappatti	61	5.8	113	Ppl
11. Kurandi	66	5.6	345	Mkr, lkm
12. Aaviyoor	74	5.5	316	Ppl, Pgi
13. T. Kadambangulam	67	5.8	221	Agk, Mnd
14. Mustakkurichi	61	26.0	291	Mkr, Agk
15. Pappanam	71	12.8	298	Ppl, Agk
16. Thimmapuram	63	4.4	181	Mkr, Agk
17. V. Nangoor	69	4.0	134	Mkr
18. Arasakulam	63	6.5	197	Pgi
19. Mangulam	76	6.37	149.2	Agk
20. Kambikudi	94	7.4	360	Mnd, Ppl

Village	Fertility Status (kg/ac)			Dominant Soil Series
	N	P	K	
21. S. Kallupatti	66	5.2	266	Agk, Ppl
22. Melakallangulam	83	6.0	252	Agk, Mkr
23. Ariyanenthal	67	4.2	200	Ppl, Mnd
24. A. Nedungulam	62	4.9	128	Mnd
25. Aathikulam	67	4.8	144	Ppl, Agk
26. Pulavanakkundu	60	4.7	215	Mnd, Ppl
27. Paanchar	65	6.8	287	Ppl
28. Achchampatti	62	4.8	87	Mnd
29. T. Veppankulam	69	26.0	163	Mkr
30. M. Illuppaikulam	66	30.0	210	Mkr
31. Marakkulam	62	5.5	98	Mkr
32. Mudukkankulam	86	3.7	336	Mkr
33. Sirukulam	66	4.3	357	Mkr
34. Panaikkulam	62	24.0	224	Mkr
35. Kurinchakulam	66	5.6	272	Mkr, Agk
36. Nedungulam	66	4.5	101	Mkr
37. Sooranur	66	6.3	410	Mkr
38. Koovakulam	63	8.3	200	Mkr
39. Thulukkankulam	78	4.2	345	Mkr, lkm
40. Panikkurippu	64	3.4	70	Ppl, Pgi
41. Kodumbangulam	62	9.2	270	Ppl
42. Chokkanenthal	70	6.8	320	Mkr
43. Gundukulam	64	8.1	177	lkm

Village	Fertility Status (kg/ac)			Dominant Soil Series
	N	P	K	
44. Siruveppangulam	62	5.7	368	Mkr
45. T. Chettikulam	70	6.4	277	Agk
46. Anupanenthal	65	20.1	235	Mkr
47. Parayankuththi	67	7.6	255	Mkr
48. Thenur	123	32.0	500	Mkr
49. Kovilangulam	72	6.9	277	Mkr
50. Kampani	82	5.8	258	lkm
51. Keezh Idayankulam	71	11.0	331	Cpt
52. Karakkulam	62	4.9	145	lkm
53. Melakkannikulam	79	6.0	277	lkm
54. Ayyanarkulam	65	5.7	187	lkm, Mkr
55. Vinakkulam	17	4.7	190	Mkr
56. Ambaikulam	66	6.4	149	Agk, Pgi
57. Pottalkulam	62	6.2	150	Agk, Mkr
58. Chinna Alangulam	70	6.7	321	Mkr
59. Periya Alangulam	62	4.7	272	Mkr
60. Keezh Puduppatti	77	6.2	240	Mkr
61. Thamaraikkulam	35	2.2	78	Agk
62. Manaviyenthal	63	4.7	149	Mkr, Agk
63. Pudukkulam	62	2.5	204	Mkr
64. Singanathapuram	65	6.9	294	Mkr
65. Keezh Idaikkulam	71	11.0	331	lkm
66. Aathikulam	72	7.7	310	Pgi, Agk

Village	Fertility Status (kg/ac)			Dominant Soil Series
	N	P	K	
67. Keezha, Kanchirangulam	62	4.9	258	Agk, Pgi
68. Mela Kanchirangulam	62	5.1	222	Mnd, Agk
69. Isalimadai	72	11.6	81	Agk, Mkr
70. Pisindi	64	6.6	244	Ppl
71. Manthoppu	71	7.3	322	Ppl
72. Azhagianallur	56	5.1	136	Ppl, Pgi
73. Nandhikundu	63	6.0	275	Ppl
74. Mallankinaru	66	6.6	339	Ppl, Agk
75. Varalotti	65	6.2	306	Ppl, Mnd
76. Valukkalotti	62	6.1	207	Ppl
77. A. Reddiyapatti	73	6.3	393	Ppl, Agk

LAND CAPABILITY

KARIYAPATTI TALUK

Area (ha)	Land Capability Classification	Soil series	Limitation	Needs
25655	lls	Agarakattu Mandarai	Moderate alkalinity Crusting	Addition of organic manures
7863	llle	Mekkarai	Erosion	Erosion control
3163	llse	Idayankulam Chokkanpatti Poigai	Surface coarse texture erosion	Addition of tank silt and organic manures, erosion control
18303	llsw	Padanthapuli Tiruchuli	Alkalinityheavy heavy texture calcareousness wetness	Selection of crops, application of iron pyrite, drainage

Class

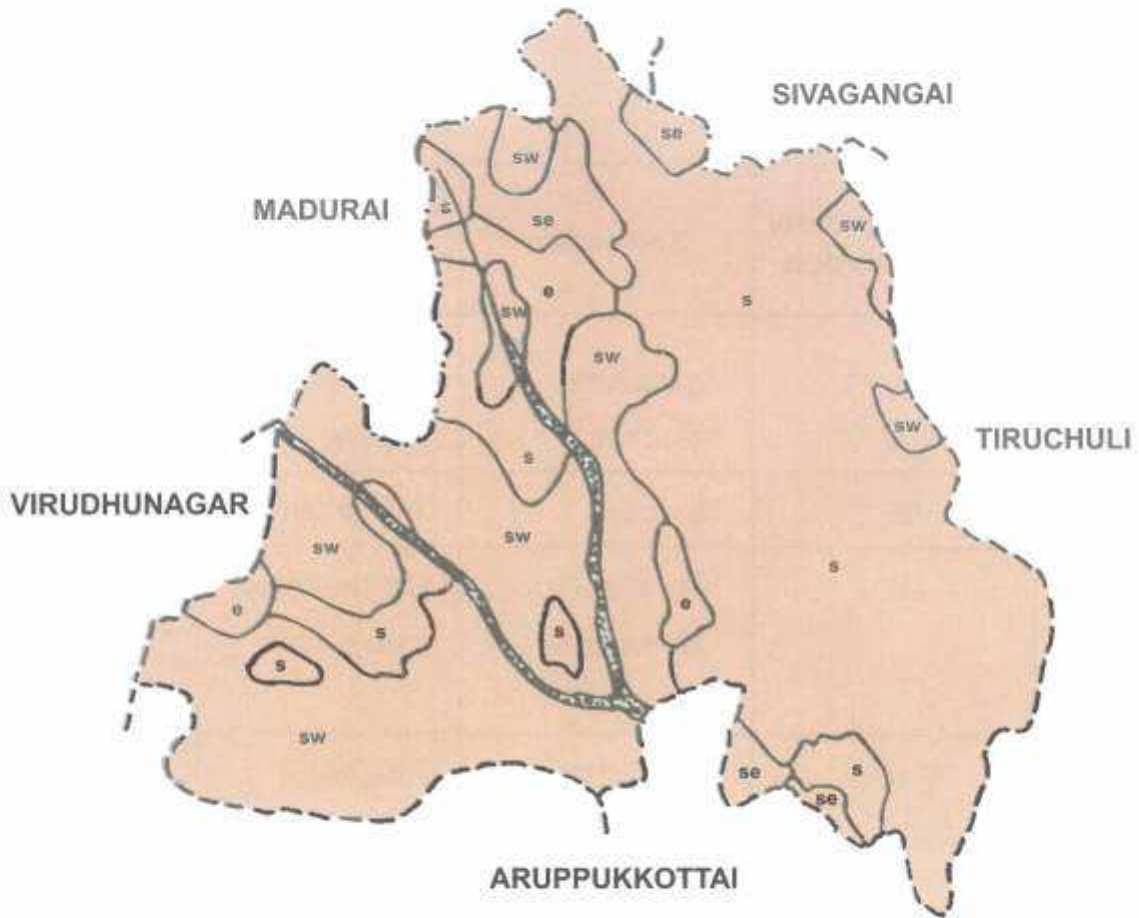
- III. Moderately good cultivable lands that have severe limitations for sustained use under agriculture.

Sub class

- s - Root zone limitations
e - Erosion and runoff
w - Wetness

LAND CAPABILITY

KARIAPATTI TALUK



REFERENCE

- • — DISTRICT BOUNDARY
- TALUK BOUNDARY

LEGEND

CLASS

- Severe Limitation

SUB CLASS

- s Root Zone Limitation
- e Erosion and Runoff
- w Wetness

LAND IRRIGABILITY

KARIYAPATTI TALUK

Area (ha)	Land Irrigability Classification	Soil series	Limitation
25655	3s	Agarakkattu Mandarai	Moderate alkalinity crusting
7863	3t	Mekkarai	Topography
3163	3st	Idayankulam Chokkanpatti Poigai	Coarse texture topography
18303	3 sd	Padarnthapuli Tiruchuli	Alkalinity heavy texture calcareousness drainage

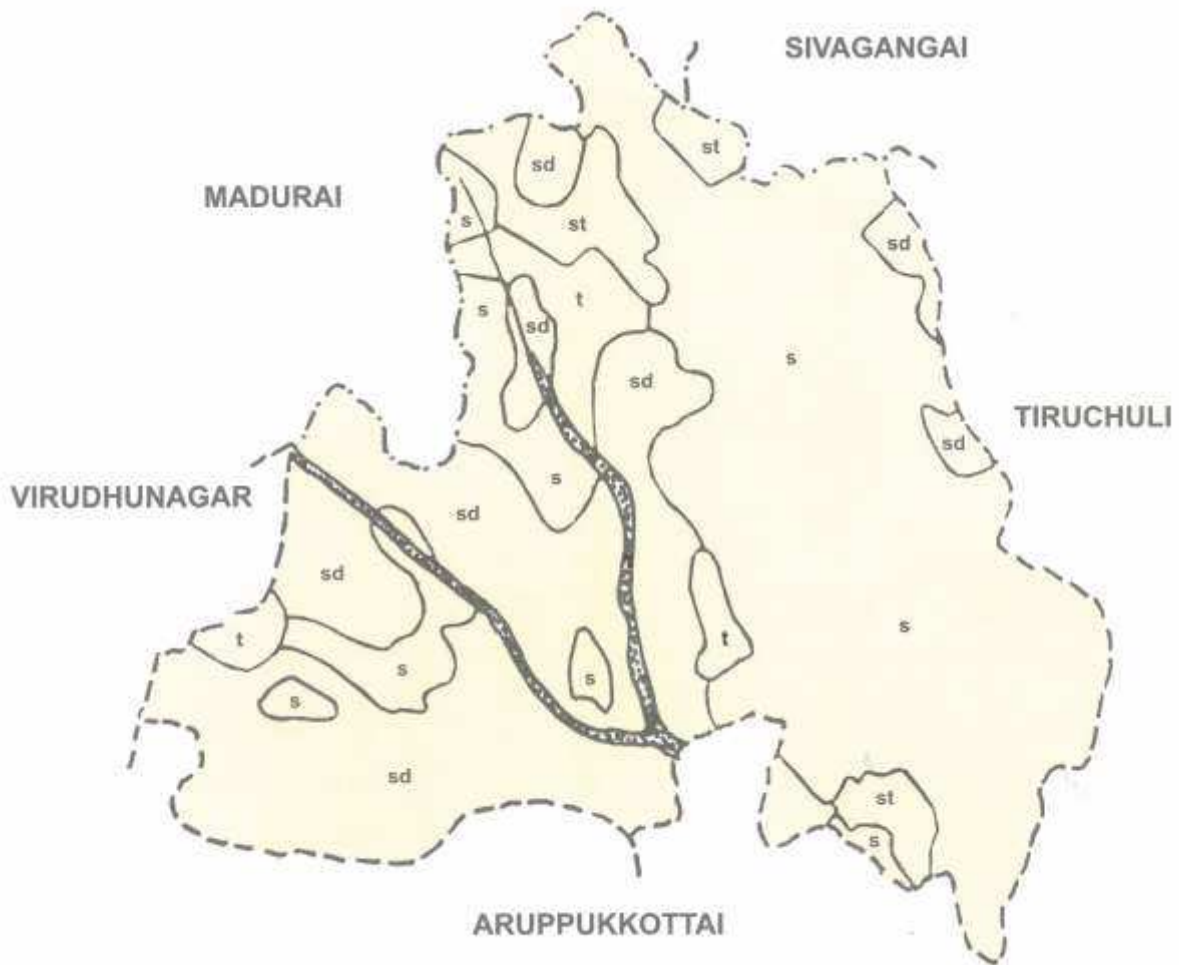
Class

3. Lands that have severe limitations for sustained use under irrigation.

Sub class

- s - Soil limitation
t - Topographical limitation
d - Drainage hazard

LAND IRRIGABILITY KARIAPATTI TALUK



REFERENCE
 - · - DISTRICT BOUNDARY
 - - - - - TALUK BOUNDARY

LEGEND

CLASS
 Severe Limitation

SUB CLASS

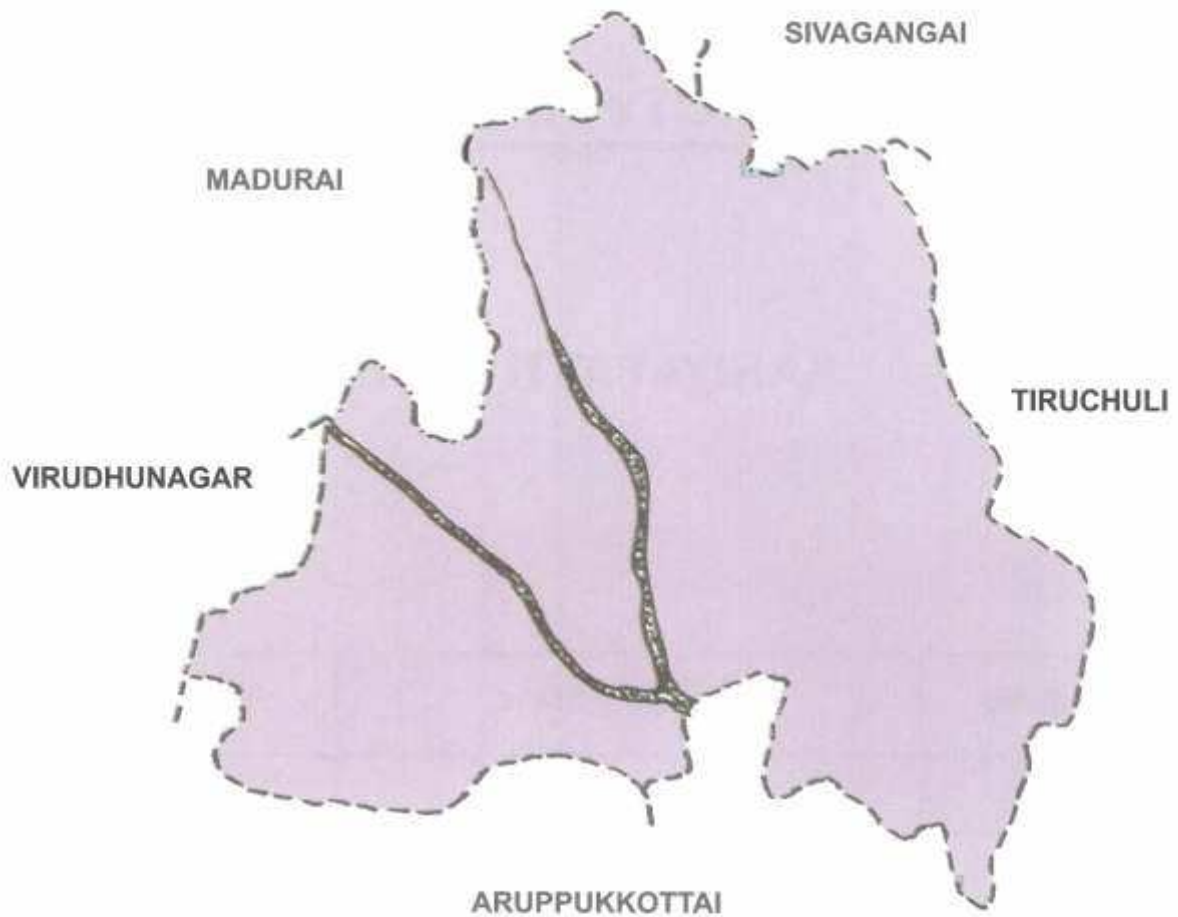
s Soil Limitation
 t Topographic Limitation
 d Drainage Hazard

SOIL PRODUCTIVITY

KARIYAPATTI TALUK

Area (ha)	Productivity		Soil series
	Rating	Grouping	
54984	20 - 34	Average	Agarakkattu Padarnthapuli Mekkarai Mandarai Poigai Idayankulam Tiruchuli Chokkanpatti


SOIL PRODUCTIVITY KARIAPATTI TALUK



REFERENCE

- • — DISTRICT BOUNDARY
- TALUK BOUNDARY

LEGEND

-  Average

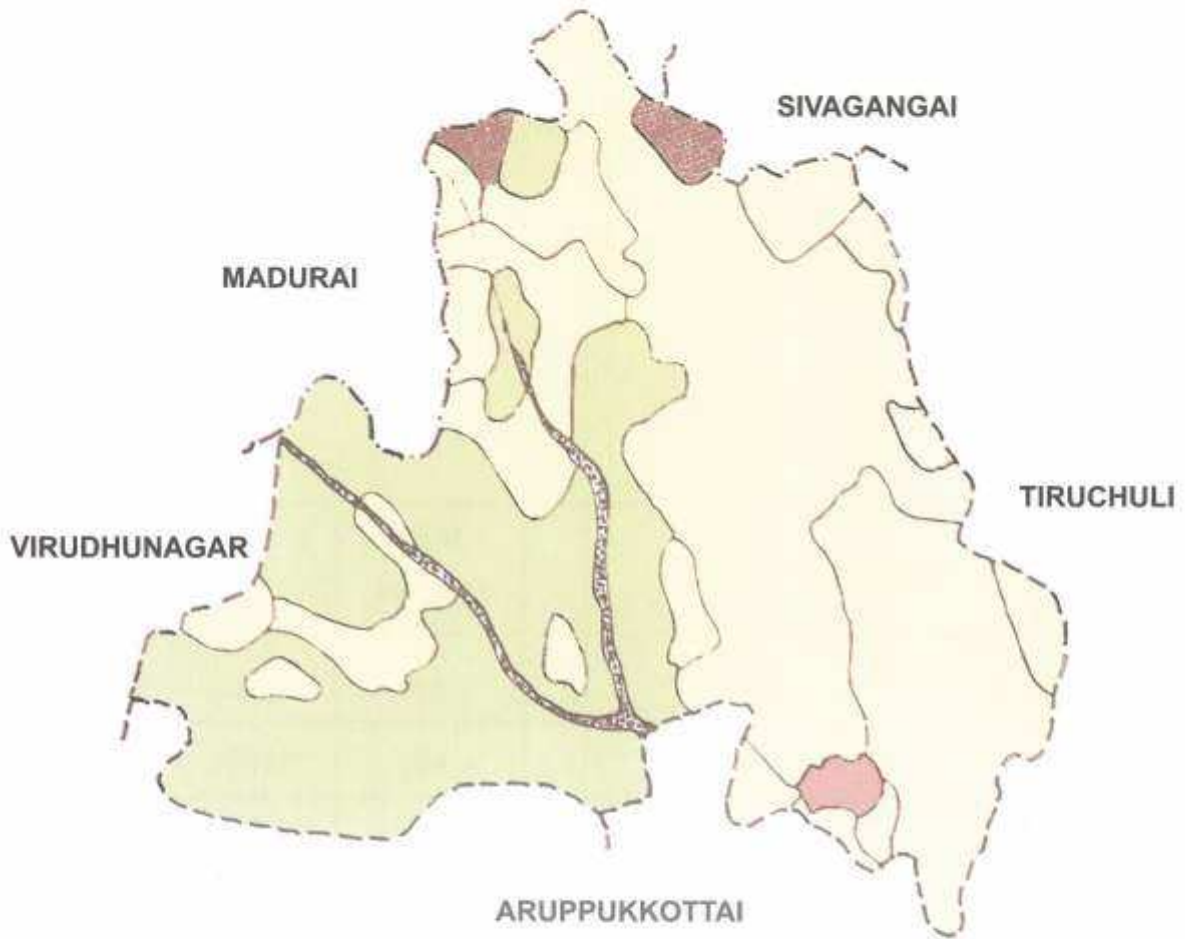
SUITABILITY FOR CHILLIES

KARIYAPATTI TALUK




S.No.	Suitability Class	Area (ha)
1.	Highly Suitable	17703
2.	Moderately Suitable	36081
3.	Marginally Suitable	1200

SUITABILITY FOR CHILLES

KARIAPATTI TALUK



REFERENCE
- . - DISTRICT BOUNDARY
- - - - - TALUK BOUNDARY

LEGEND
 Highly Suited
 Moderately Suited
 Marginally Suited

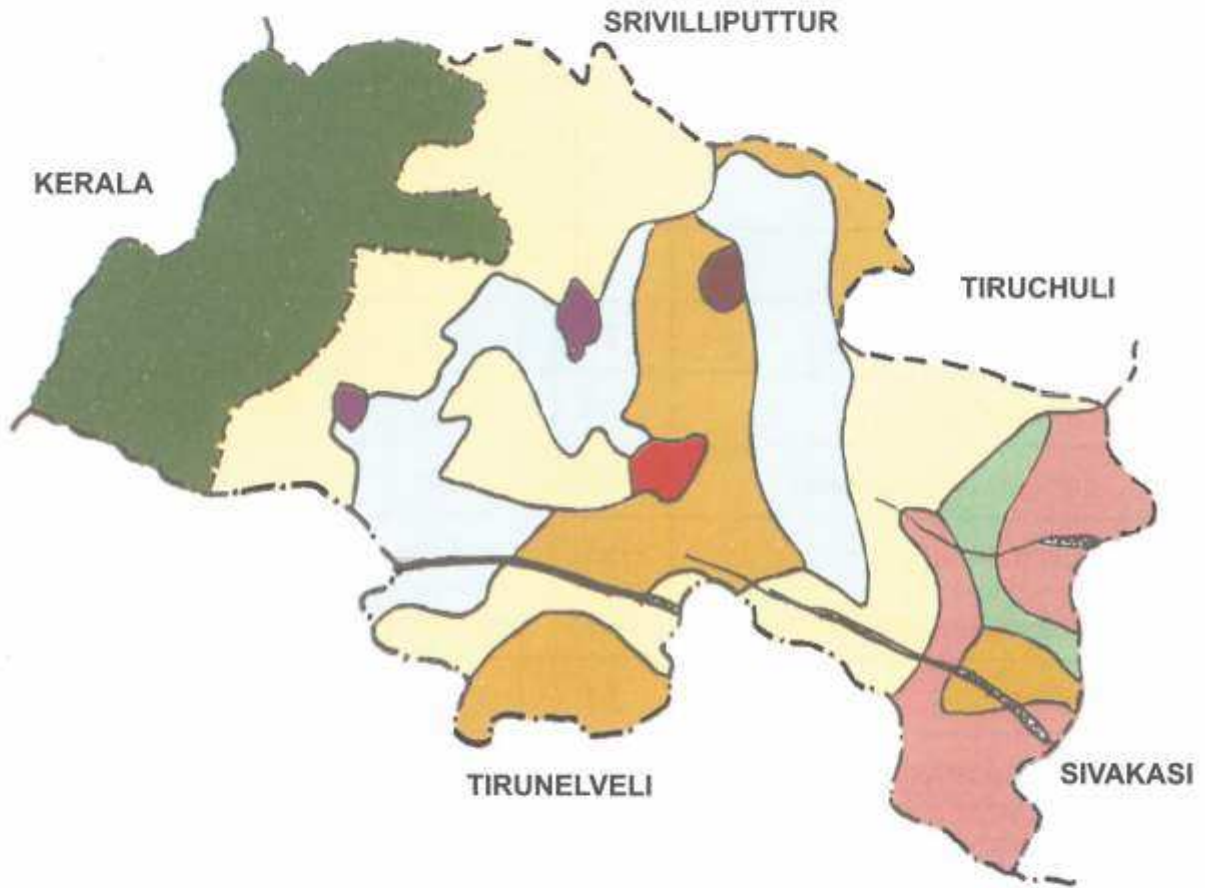
SOILS

RAJAPALAYAM TALUK


Soil Series	Map Symbol	Extent	
		ha	%
1) Agarakkattu	Agk	12500	34.66
2) Mekkarai	Mkr	12000	33.27
3) Padarnthapuli	Ppl	5397	14.96
4) Tiruchuli	Tcl	4000	11.09
5) Ayaneri	Anr	1260	3.50
6) Chokkanathapudur	Cnp	416	1.15
7) Chokkanpatti	Ckp	300	0.83
8) Nagalapuram	Ngp	194	0.54
Total		36067	100.00

SOILS

RAJAPALAYAM TALUK



REFERENCE

- STATE BOUNDARY
- . - DISTRICT BOUNDARY
- - - TALUK BOUNDARY
-  FOREST BOUNDARY

LEGEND

-  AGARAKATTU
-  MEKKARAI
-  TIRUCHULI
-  PADARNTHAPULI
-  AYNERI
-  CHOKKANATHAPURAM
-  CHOKKAMPATTI
-  NAGALAPURAM

VILLAGEWISE FERTILITY STATUS AND DOMINANT SOIL SERIES**RAJAPALAYAM TALUK**

Village	Fertility Status (kg/ac)			Dominant Soil Series
	N	P	K	
1. Rajapalayam	68	6.0	385	Mnd
2. Puduppalayam	61	5.8	288	Mnd, Tcl
3. Kadambankulam	64	10.0	333	Tcl
4. Samusikapuram	63	10.0	320	Mnd, Agk
5. Vadakku Venkanallur	67	5.2	190	Agk
6. Thiruchalur	63	8.0	200	Agk
7. Zameen Kollangandon	68	6.4	299	Cpt, Tcl
8. Sammanthapuram	65	6.6	285	Agk, Mnd
9. Melapattam Karisalkulam	67	7.0	208	Mnd
10. Puthur	61	6.0	401	Tcl, Agk
11. Nallamanagalam	64	7.7	472	Agk
12. Chettiyarpatti	63	7.0	221	Tcl, Mnd
13. Ilanthiraikondan	67	5.2	198	Tcl, Agk
14. Therku Venkanallur	71	6.0	206	Tcl
15. Appaneri	73	7.3	174	Mnd, Tcl
16. S. Ramalingapuram	65	5.59	271	Agk, Mnd
17. Chozhapuram	71	5.97	470	Mnd, Agk
18. Naththampatti	66	7.1	268	Agk, Mnd
19. Sundararajapuram	71	6.8	241	Agk

Village	Fertility Status (kg/ac)			Dominant Soil Series
	N	P	K	
20. Cholaicheri	62	6.3	344	Mnd
21. Mettupatti	73	8.6	300	Agk, Mnd
22. Sethur	62	6.18	424	Mnd, Agk
23. Muthusampuram	62	10.6	195	Mnd, Agk
24. Therkudevathanam	67	7.0	159	Mnd, Agk
25. Vadakkudevathanam	68	7.0	300	Mnd, Agk
26. Chokkanathanpudur	66	6.8	500	Mnd
27. Kurinjiyarpatti	67	6.01	330	Ppl, Agk
28. Varagunaramapuram	61	10.0	185	Ppl, Aya
29. Melarajakularaman	63	5.42	281	Agk, Ppl
30. Gopalapuram	60	6.32	180	Ppl, Aya
31. Vadakarai	61	7.0	260	Tcl, Aya
32. Thenkarai	69	7.9	279	Ppl, Tcl
33. Kurukkampatti	64	16.0	387	Ppl

LAND CAPABILITY

RAJAPALAYAM TALUK

Area (ha)	Land Capability Classification	Soil series	Limitation	Needs
12500	lls	Agarakkattu	Moderate alkalinity crusting	Addition of organic manures
12000	lle	Mekkarai	Erosion	Erosion control
300	llse	Chokkanpatti	Surface coarse texture erosion	Addition of tank silt and organic manures, erosion control.
9397	ll sw	Padarnthapuli Tiruchuli	Alkalinity heavy texture calcareousness wetness	Selection of crops, application of iron pyrite, drainage improvement
1870	IV se	Ayaneri Nagalapuram Chokkanathapurur	Shallow depth erosion	Selection of suitable crops, erosion control

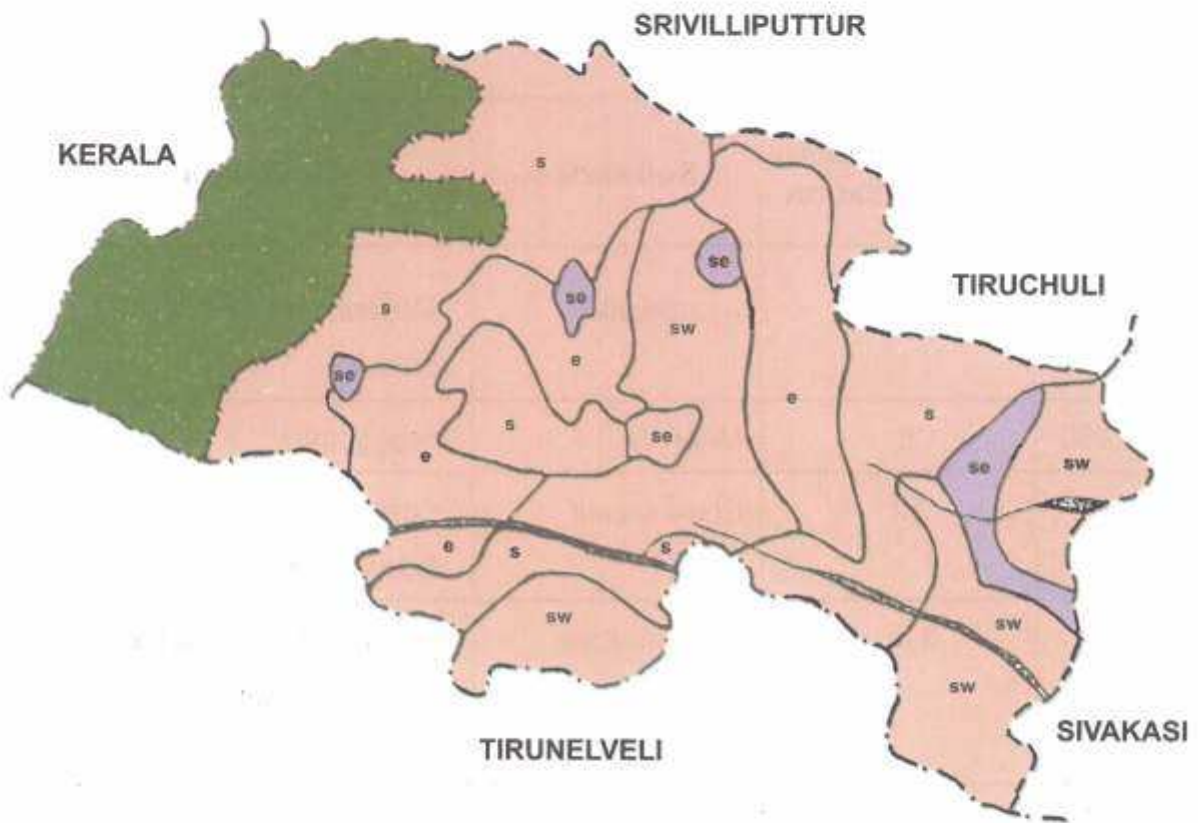
Class

- III. Moderately good cultivable lands that have severe limitations for sustained use under agriculture.
- IV Lands that have very severe limitations for sustained use under agriculture.

Sub class

- s - Root zone limitations
- e - Erosion and runoff
- w - Wetness

LAND CAPABILITY RAJAPALAYAM TALUK



REFERENCE

- · · — STATE BOUNDARY
- · — DISTRICT BOUNDARY
- TALUK BOUNDARY
- FOREST BOUNDARY

LEGEND

CLASS

- Severe Limitation
- Very Severe Limitation

SUB CLASS

- s Root Zone Limitation
- e Erosion and Runoff
- w Wetness

LAND IRRIGABILITY

RAJAPALAYAM TALUK

Area (ha)	Land Irrigability Classification	Soil series	Limitation
12500	3s	Agarakkattu	Moderate alkalinity crusting
12000	3t	Mekkarai	Topography
300	3st	Chokkanpatti	Coarse texture topography
9397	3sd	Padarnthapuli Tiruchuli	Alkalinity, heavy texture, calcareousness, drainage hazard
1870	4st	Nagalapuram Ayyaneri Chokkanathapurur	Shallow depth topography

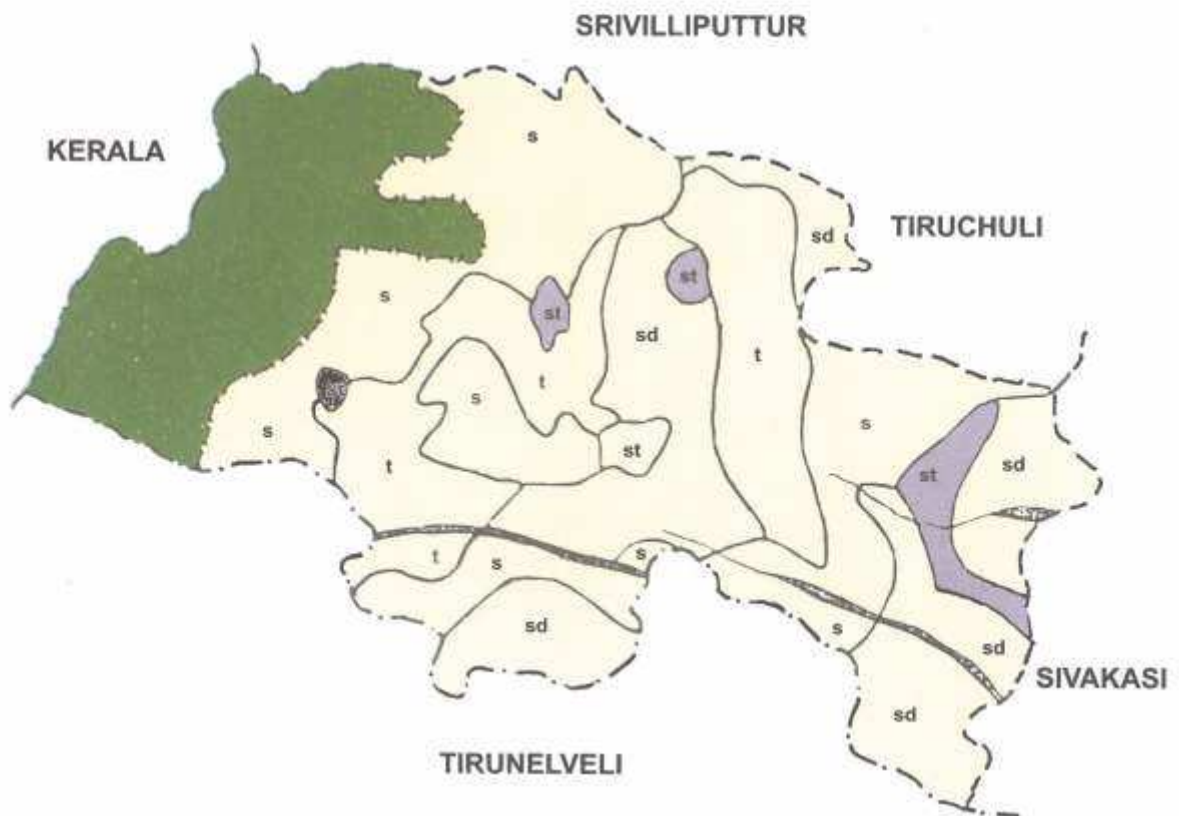
Class

3. Lands that have severe limitations for sustained use under irrigation.
- 4 - Lands that have very severe soil limitations for sustained use under irrigation limitation

Sub class

- s - Soil limitation
t - Topography
d - Drainage hazard

LAND IRRIGABILITY RAJAPALAYAM TALUK



REFERENCE

- STATE BOUNDARY
- . - DISTRICT BOUNDARY
- - - TALUK BOUNDARY
- FOREST BOUNDARY

LEGEND

CLASS

- Severe Limitation
- Very Severe Limitation

SUB CLASS

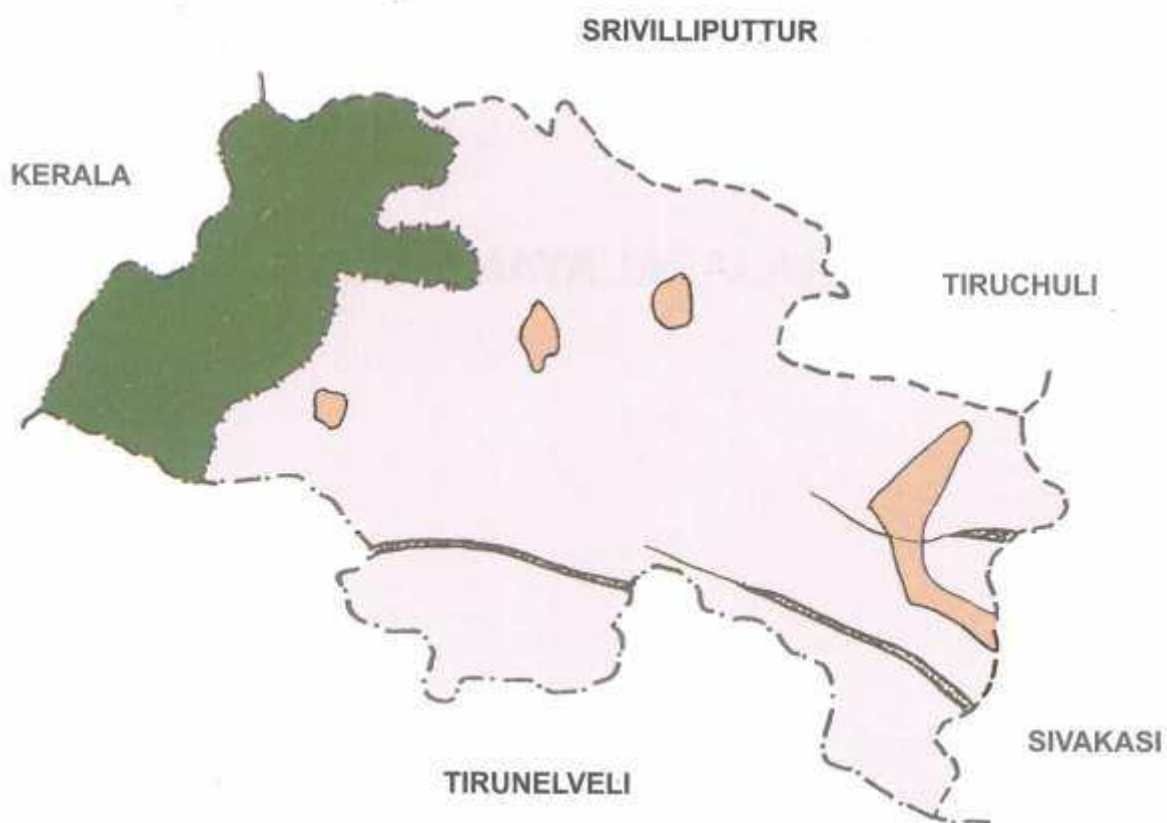
- s Soil Limitation
- t Topographic Limitation
- d Drainage Hazard

SOIL PRODUCTIVITY


RAJAPALAYAM TALUK

Area (ha)	Productivity		Soil series
	Rating	Grouping	
1870	8 -19	Poor	Chokkanathapuram Ayyaneri Nagalapuram
34197	20 -34	Average	Agarakkattu Mekkara Padarnthapuli Tiruchuli Chokkanpatti

SOIL PRODUCTIVITY RAJAPALAYAM TALUK



REFERENCE

- STATE BOUNDARY
- DISTRICT BOUNDARY
- TALUK BOUNDARY
-  FOREST BOUNDARY

LEGEND

-  Average
-  Poor

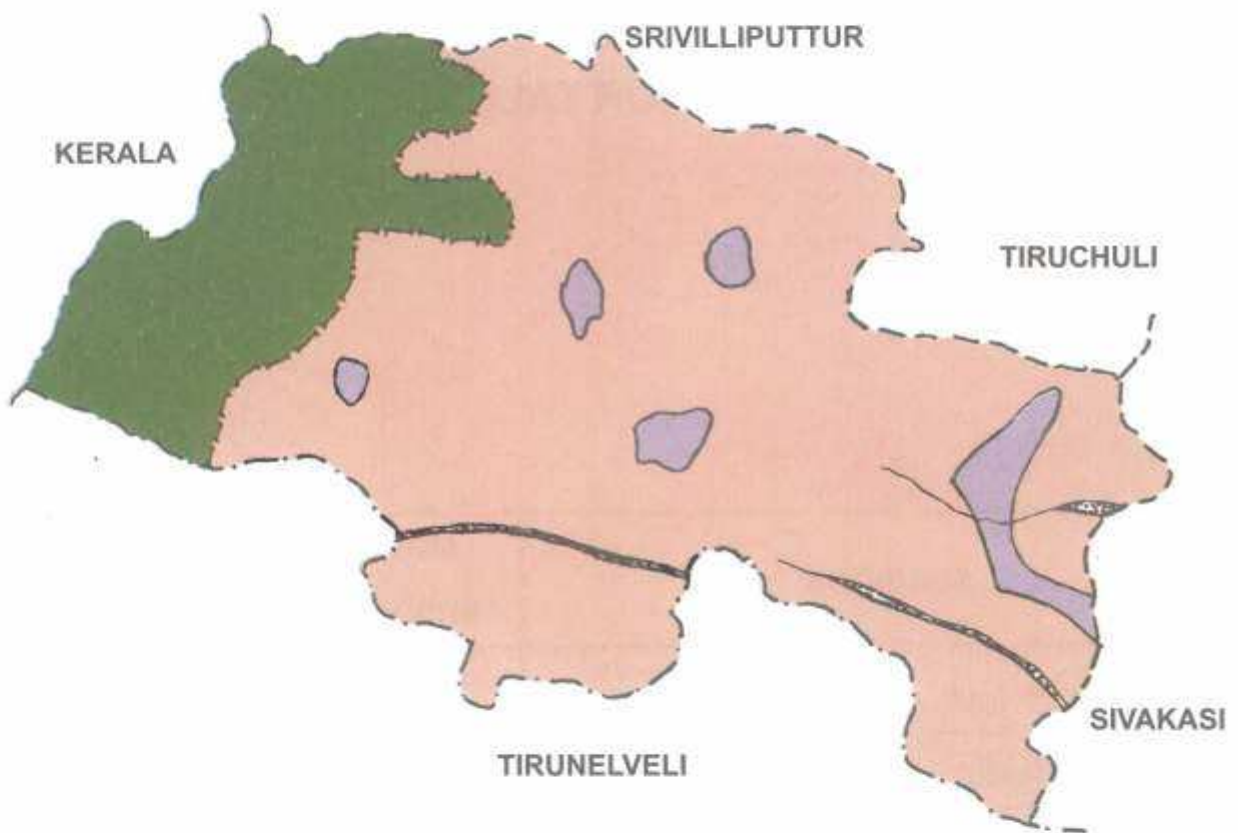
SUITABILITY FOR MILLETS

RAJAPALAYAM TALUK

S.No.	Suitability Class	Area (ha)
1.	Highly Suitable	33897
2.	Moderately Suitable	2170

SUITABILITY FOR MILLETS

RAJAPALAYAM TALUK



REFERENCE

- STATE BOUNDARY
- DISTRICT BOUNDARY
- TALUK BOUNDARY
- ▨ FOREST BOUNDARY

LEGEND

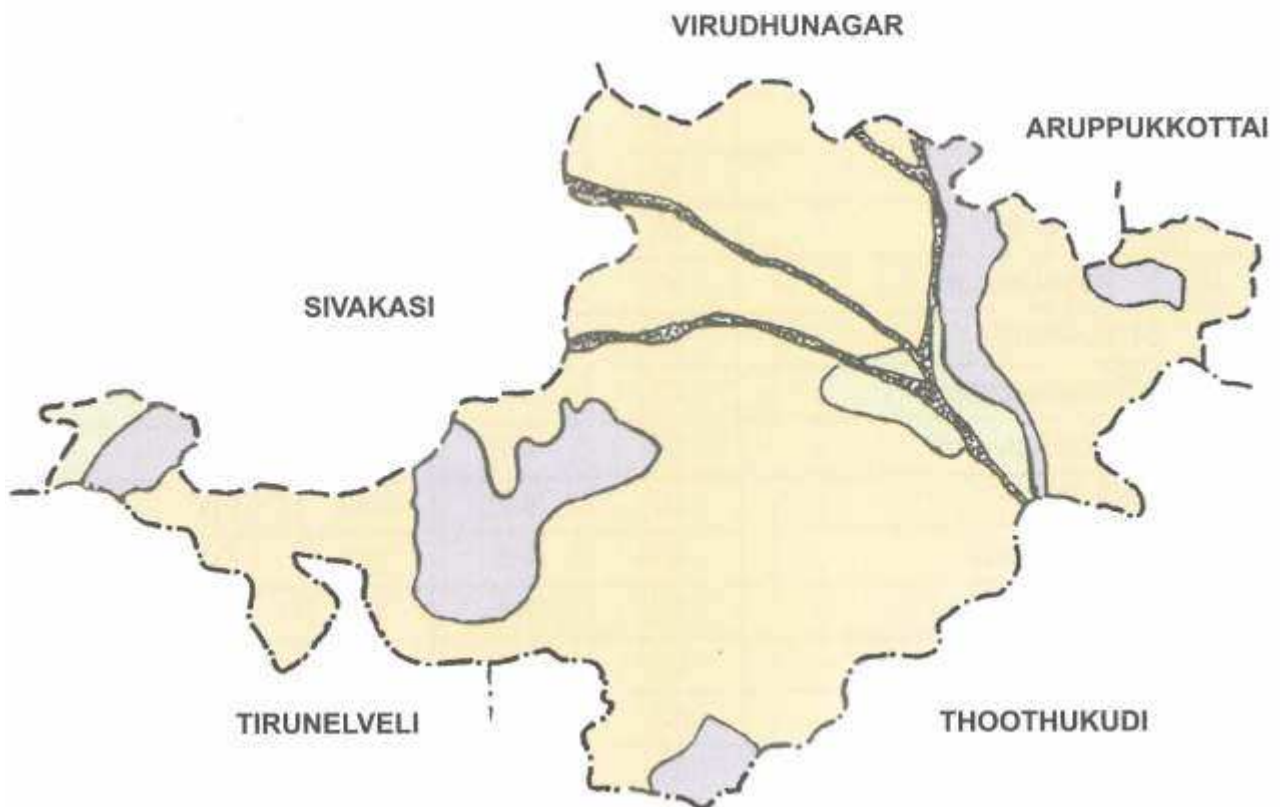
-  Highly Suited
-  Moderately Suited

SOILS




SATTUR TALUK

Soil Series	Map Symbol	Extent	
		ha	%
1. Padarnthapuli	Ppl	40124	83.72
2. Idayankulam	Ikm	6800	14.19
3. Agarakkattu	Agk	1000	2.09
Total		47924	100.00

SOILS SATTUR TALUK



REFERENCE
- . - DISTRICT BOUNDARY
- - - - - TALUK BOUNDARY

LEGEND
 PADARNTHAPULI
 IDAYANKULAM
 AGARAKATTU

VILLAGEWISE FERTILITY STATUS AND DOMINANT SOIL SERIES

SATTUR TALUK

Village	Fertility Status (kg/ac)			Dominant Soil Series
	N	P	K	
1. Nallamanayakkanpatti	82	5.4	234	Ppl, Ikm
2. Gundalakkuthur	63	6.0	291	Ppl, Ikm
3. Pappakkudi	62	4.8	275	Ppl, Ikm
4. Kosukkundu	62	5.3	374	Ppl
5. Aathipatti	63	5.0	280	Ppl
6. N. Mettupatti	63	6.1	387	Ppl
7. Sirugulam	64	5.9	342	Ppl, Ikm
8. Mela madai	62	17.0	341	Ppl, Ikm
9. Nennmaeni	66	22.0	315	Ppl, Agk
10. M. Nagalapuram	85	6.2	306	Ppl, Ikm
11. Sithuvampatti	64	10.7	225	Ppl
12. Chinnakkamanpatti	62	5.4	186	Ppl
13. Vadamalapuram	79	4.7	315	Ppl
14. Padanthal	66	6.2	344	Ppl
15. Madathukkadu	63	4.5	265	Ppl
16. Mettamalai	62	12.4	342	Ppl
17. E. Kumaralingapuram	63	5.0	288	Ppl
18. Veppilaippatti	62	5.5	189	Ppl
19. Santhaiyur	61	5.1	264	Ppl
20. E. Muthulingapuram	61	5.3	319	Ppl
21. Sattur	60	4.8	96	Ppl
22. Sathirappatti	65	6.1	469	Ppl
23. V. Mettupatti	66	5.2	325	Ppl, Ikm
24. Kottappacheri	62	4.7	289	Ppl
25. Oththaiyal	77	9.8	243	Ppl, Ikm
26. Kaththalampatti	69	5.6	256	Ppl
27. Aalampatti	73	21.8	267	PpL, Agk
28. Kolvarpatti	69	5.0	333	Ppl
29. Karisalpatti	66	6.4	500	Ppl
30. Chinnathambiyapuram	66	7.0	175	Ppl

Village	Fertility Status (kg/ac)			Dominant Soil Series
	N	P	K	
31. Dharmasanam Chinna Odaipatti	64	5.5	221	Ppl
32. Madam Chinna Odaipatti	64	5.5	221	Ppl
33. Peththu Reddiyapatti	68	6.0	493	Ppl
34. Peraiyampatti	67	7.3	320	Ppl
35. Nalli	66	5.9	368	Ppl
36. Mulliseval	64	4.4	159	Ppl
37. Subramaniyapuram	64	2.2	307	Ppl
38. M. Chokkalingapuram	65	4.1	186	Ppl
39. Kanjrnipatti	67	6.5	309	Ppl, Ikm
40. Ravuththanpatti	65	6.7	320	Ppl
41. Ovanayakkanpatti	65	12.0	166	Ppl
42. Oomaththanpatti	91	6.1	408	Ppl
43. Pothreddipatti	65	5.9	140	Ppl
44. Avyampatti	64	5.9	277	Ppl
45. Uppathur	67	4.5	159	Ppl
46. Sevalpatti	66	6.0	453	Ppl
47. Sippiarai	64	5.8	432	Ppl
48. Gunganparai	74	5.3	361	Ppl
49. Thulakkankurichi	65	4.5	418	Ppl
50. Panthuvarpatti	70	5.5	319	Ppl
51. Soorangudi	71	5.7	305	Ppl, Ikm
52. Gangarakkottai	68	6.1	321	Ppl
53. O.Muthusamypuram	63	5.9	277	Ppl, Ikm
54. Sankarapandiyapuram	65	12.6	379	Ppl, Ikm
55. Servaikkaranpatti	65	4.5	395	Ppl, Ikm
56. Oothupatti	64	7.0	266	Ppl, Ikm
57. E. Ramanathapuram	110	13.0	197	Ppl,
58. Elayirampannai	63	6.2	332	Ppl, Ikm
59. E. Reddipatti	111	14.0	195	Ppl, Ikm
60. Sanankulam	114	13.0	201	Ppl, Ikm
61. Muthandiyapuram	64	4.8	193	Ppl, Ikm

LAND CAPABILITY

SATTUR TALUK

Area (ha)	Land Capability Classification	Soil series	Limitation	Needs
1000	lls	Agarakkattu	Moderate alkalinity crusting	Addition of organic manures
6800	llse	Idayankulam	Surface coarse texture erosion	Addition of tank silt and organics, erosion control
40124	llsw	Padarnthapuli	Alkalinity heavy texture calcareousness wetness	Selection of crops, application of iron pyrite, drainage improvement

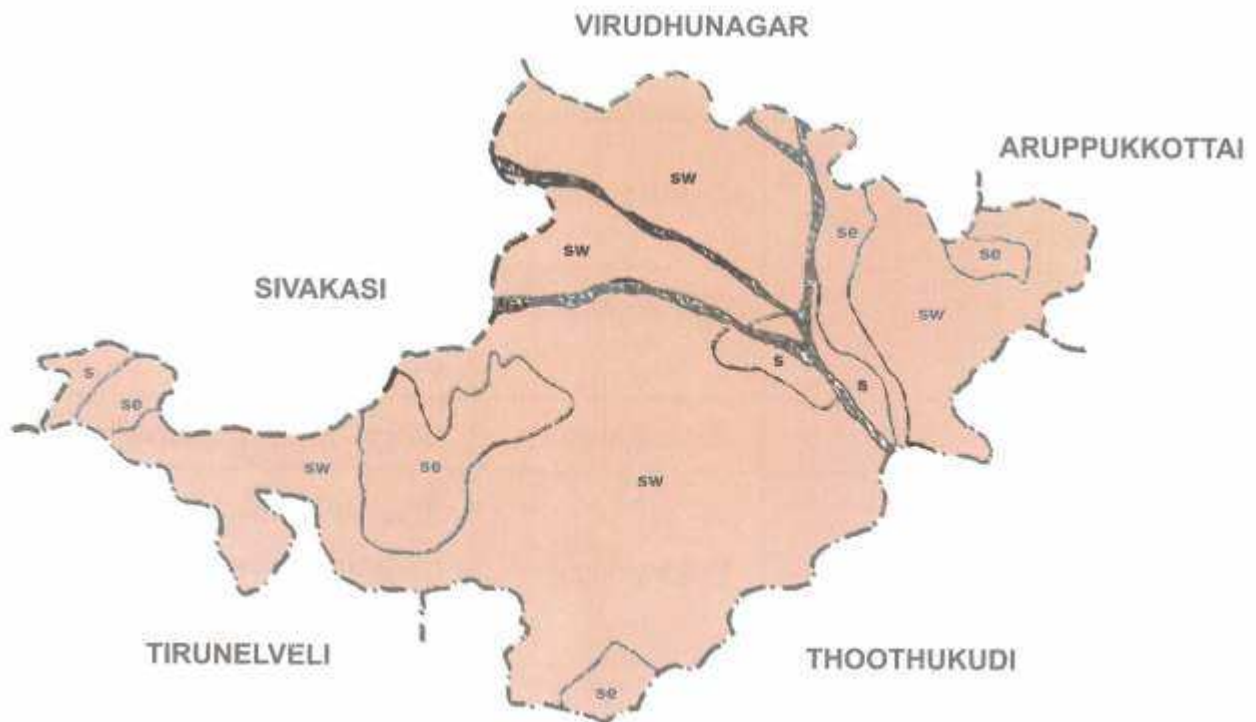
Class

III. Moderately good cultivable lands that have severe limitations for sustained use under agriculture.

Sub class

s - Root zone limitations
e - Erosion and runoff
w - Wetness

LAND CAPABILITY SATTUR TALUK



REFERENCE
 - · - DISTRICT BOUNDARY
 - · - · - TALUK BOUNDARY

LEGEND
CLASS
 Severe Limitation
SUB CLASS
 s Root Zone Limitation
 e Erosion and Runoff
 w Wetness

LAND IRRIGABILITY

SATTUR TALUK

Area (ha)	Land Irrigability Classification	Soil series	Limitation
1000	3s	Agarakkattu	Moderate alkalinity crusting
6800	3st	Idayankulam	Coarse texture, topography
40124	3sd	Padarnthapuli	Alkalinity, heavy texture, calcareousness, drainage hazard

Class

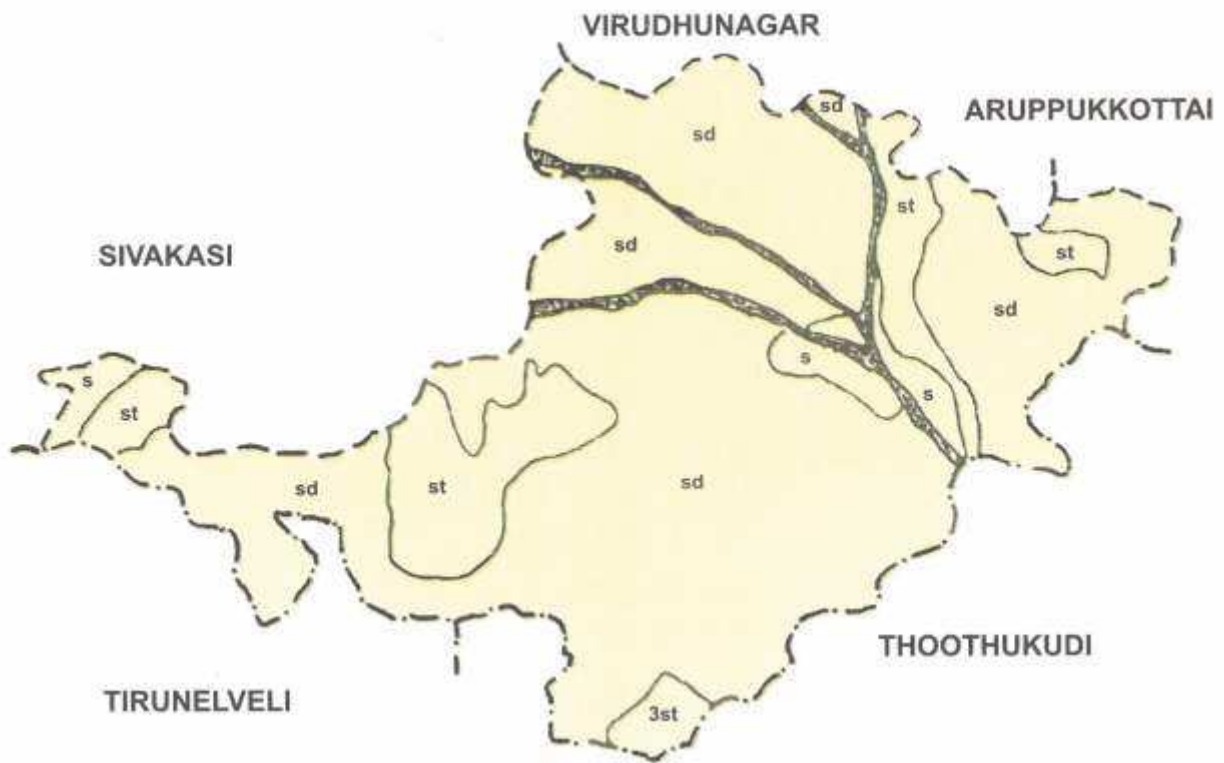
3. Lands that have severe limitations for sustained use under irrigation.

Sub class

- s - Soil limitation
t - Topography
d - Drainage hazard

LAND IRRIGABILITY

SATTUR TALUK



REFERENCE
 - · - DISTRICT BOUNDARY
 - · - - TALUK BOUNDARY

LEGEND

CLASS
 Severe Limitation

SUB CLASS

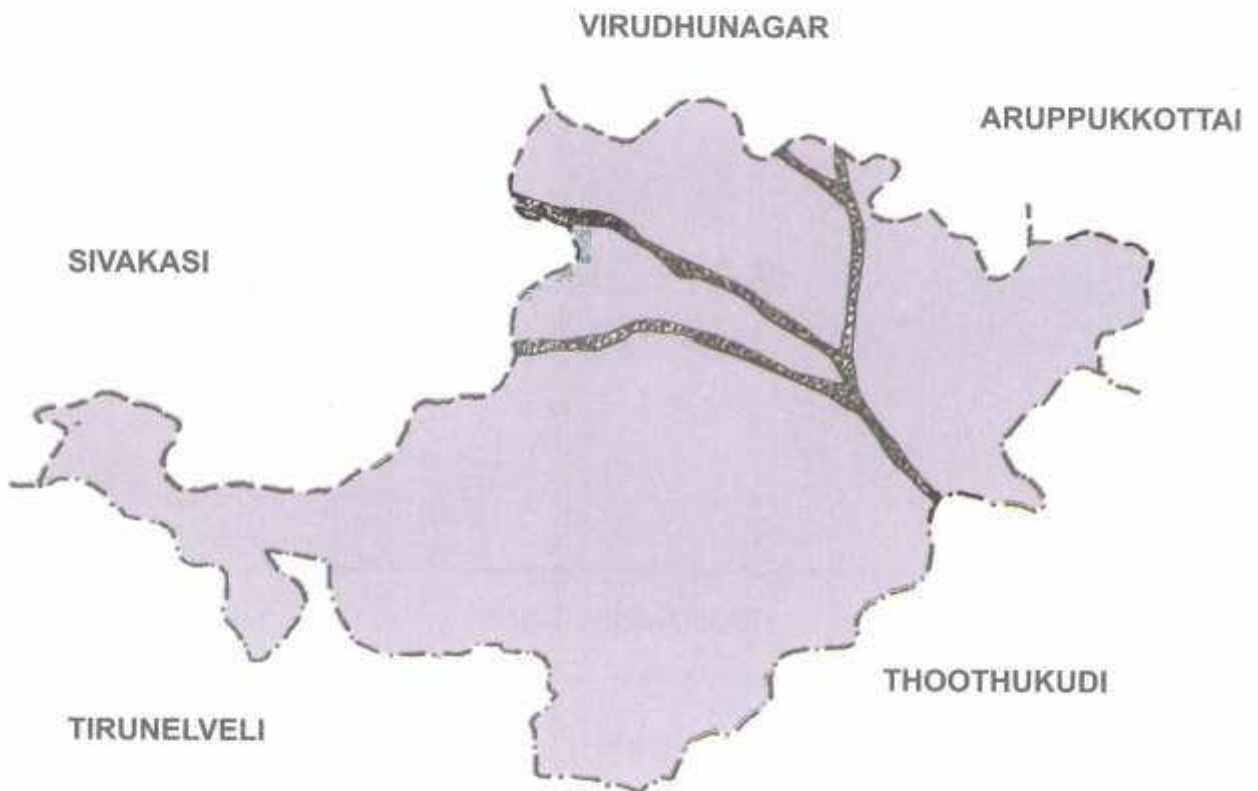
s Soil Limitation
t Topographic Limitation
d Drainage Hazard

SOIL PRODUCTIVITY

SATTUR TALUK

Area (ha)	Productivity		Soil series
	Rating	Grouping	
47924	20-34	Average	Padarnthapuli Idayankulam Agarakkattu

SOIL PRODUCTIVITY SATTUR TALUK



REFERENCE

- . - DISTRICT BOUNDARY
- - - - - TALUK BOUNDARY

LEGEND

-  Average

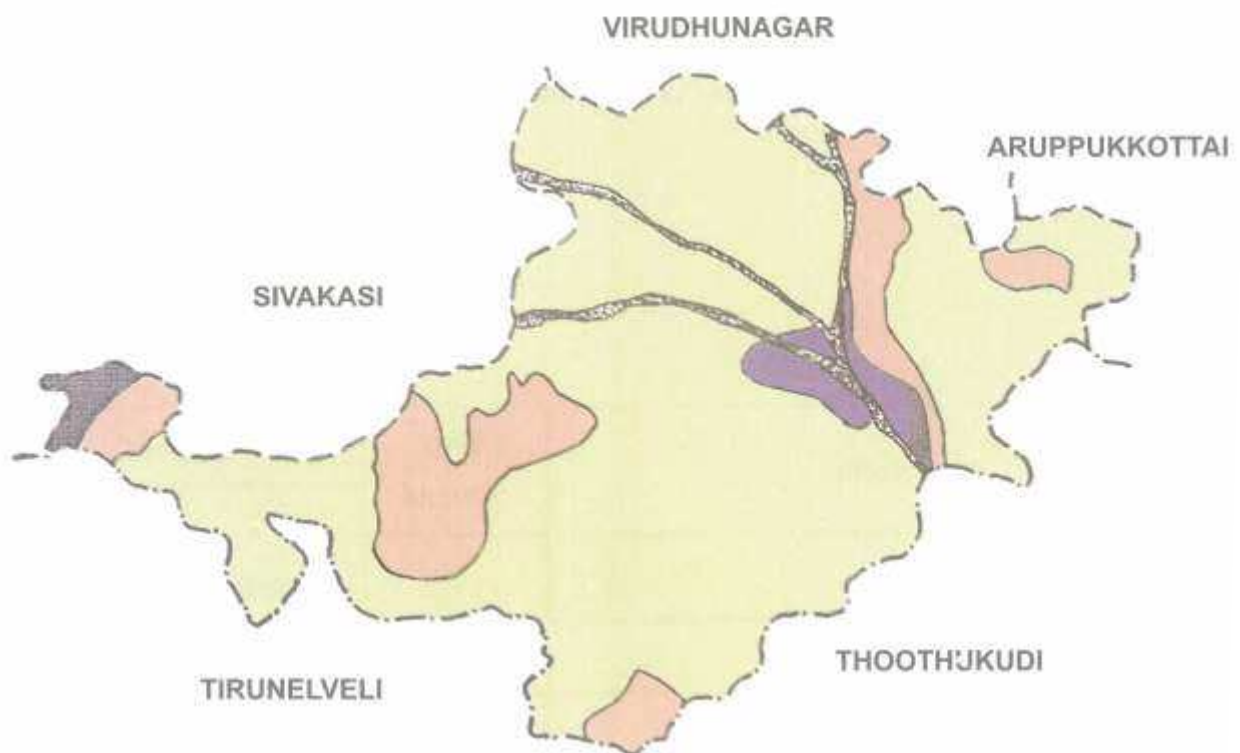
SUITABILITY FOR MILLETS

SATTUR TALUK

S.No.	Suitability Class	Area (ha)
1.	Highly Suitable	41124
2.	Moderately Suitable	6800

SUITABILITY FOR CHILLIES

SATTUR TALUK



REFERENCE

- · - DISTRICT BOUNDARY
- - - - - TALUK BOUNDARY

LEGEND

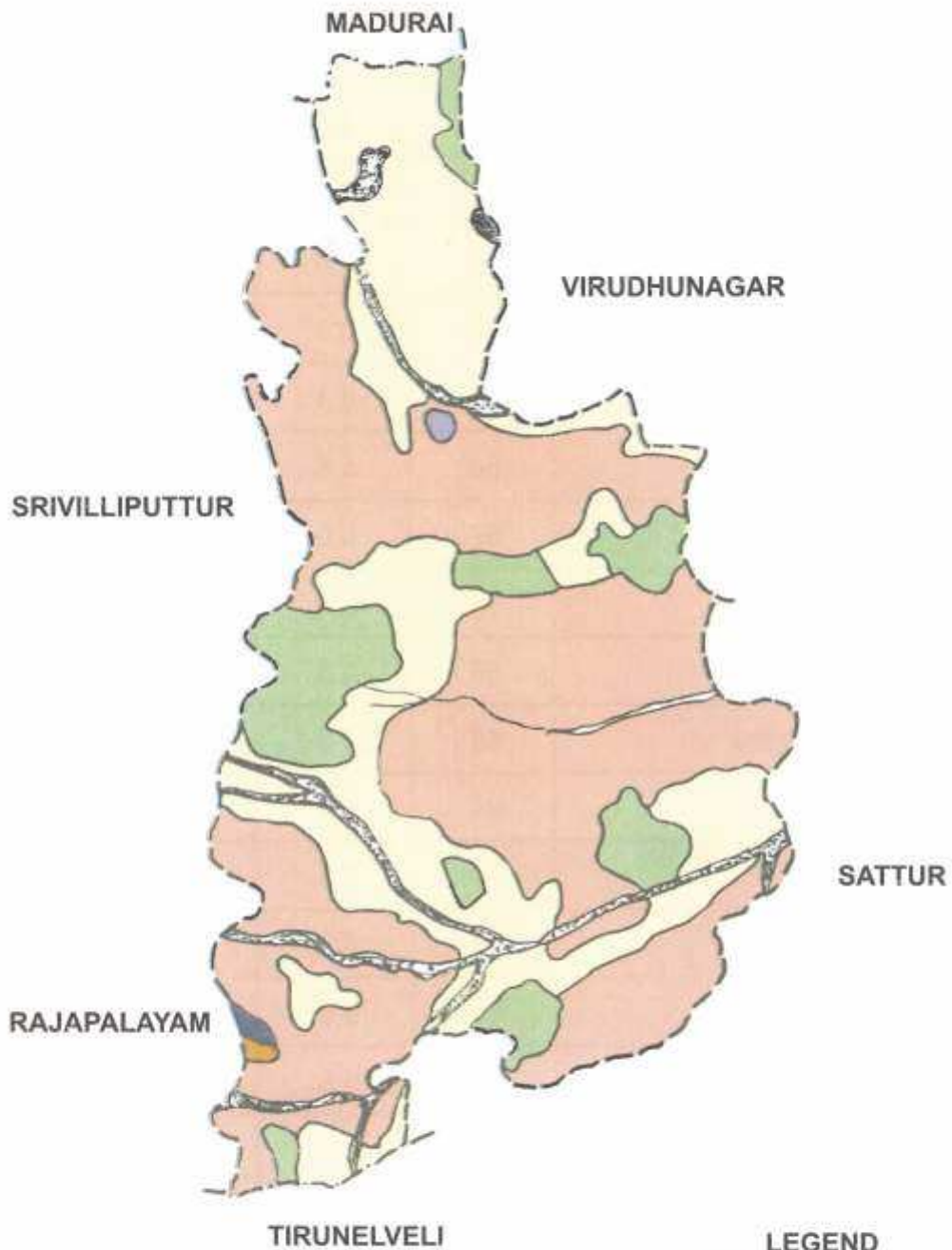
-  Highly Suited
-  Moderately Suited
-  Marginally Suited

SOILS

SIVAKASI TALUK

Soil Series	Map Symbol	Extent	
		ha	%
1. Padarnthapuli	Ppl	42986	76.21
2. Agarakkattu	Agk	8500	15.07
3. Idayankulam	Ikm	4433	7.86
4. Kallurani	Kln	260	0.46
5. Ayaneri	Anr	125	0.22
6. Tiruchuli	Tcl	100	0.18
Total		56404	100.00

SOILS SIVAKASI TALUK



REFERENCE
- . - DISTRICT BOUNDARY
- - - - - TALUK BOUNDARY

LEGEND

-  PADARNTHAPULI
-  AGARAKATTU
-  IDAYANKULAM
-  KALLURANI
-  AYANERI
-  TIRUCHULI

VILLAGEWISE FERTILITY STATUS AND DOMINANT SOIL SERIES

SIVAKASI TALUK

Village	Fertility Status (kg/ac)			Dominant Soil Series
	N	P	K	
1. Viswanatham	81	5.0	244	Ppl
2. Sivakasi	64	4.9	223	Ppl
3. Anaiyur	65	4.3	235	Ppl, Agk
4. Maraneri	71	12.0	379	Ppl
5. Naranapuram	72	5.1	173	Ppl
6. Thiruththangal	64	6.1	241	Ppl
7. Keezhathiruththangal	68	5.5	174	Ppl
8. Anuppankulam	67	5.0	232	Ppl
9. Ethirkottai	63	6.1	309	Ppl, lkm
10. Vendurayapuram	65	5.3	261	Ppl
11. Duraisampuram	68	14.0	256	Ppl, Agk
12. Narikudi	64	5.2	215	Ppl, Agk
13. Kongankulam	67	5.3	345	Ppl
14. Alangulam	76	6.3	291	Ppl
15. Kundayiruppu	63	5.0	331	Ppl, Agk
16. E. Lakshmiapuram	63	10.5	344	Ppl, lkm
17. Keezhanmarainadu	65	6.5	325	Ppl, Agk
18. Appayanayakkanpatti	93	7.0	372	Ppl, lkm
19. Subramaniapuram	68	13.7	435	Ppl, Agk
20. Pernayakkanpatti	64	6.3	249	Ppl
21. Thayilpatti	64	5.0	66	Ppl, lkm
22. Vetrilaiyoorani	66	6.7	252	Ppl
23. Vijayarengapuram	66	6.9	282	lkm, Agk

Village	Fertility Status (kg/ac)			Dominant Soil Series
	N	P	K	
24. Kananjampatti	86	6.1	453	Ppl, lkm
25. Achankulam	65	5.6	220	Ppl
26. Panaiyadipatti	88	5.0	265	Ppl, lkm
27. Kangarseval	64	5.0	247	Ppl, lkm
28. Vijayakariskulam	88	5.5	342	Ppl, lkm
29. Sooraripatti	97	9.8	241	Ppl, Agk
30. Salvaripatti	65	7.2	279	Ppl, Agk
31. Vernbakottai	66	5.9	360	Ppl, Agk
32. Karivarkurachi	152	5.3	355	Ppl
33. Pooranachandirapuram	68	5.7	248	Ppl, Agk
34. Nedungulam	68	5.3	221	Ppl, Agk
35. Erychanatham	62	4.3	401	Ppl, Agk
36. Mangalam	63	6.2	201	Ppl, Agk
37. Narnaskaripatti	110	5.3	470	Ppl
38. Sevaloor	68	9.5	344	Ppl, Agk
39. Pudukottai	67	6.7	452	Ppl, Agk
40. Yeenchar	65	4.5	253	Ppl
41. Krishnaperi	82	5.0	234	Ppl
42. Vadapatti	63	6.1	432	Ppl
43. Thatchakudi	64	6.1	299	Ppl

LAND CAPABILITY

SIVAKASI TALUK

Area (ha)	Land Capability Classification	Soil series	Limitation	Needs
8500	lls	Agarakkattu	Moderate alkalinity crusting	Addition of organic manures
4433	llse	Idayankulam	Surface coarse texture erosion	Addition of tank silt and organic manures, erosion control
43086	llsw	Padarnthapuli Tiruchuli	Alkalinity heavy texture calcareousness wetness	Selection of crops, application of iron pyrite, drainage improvement
385	IVse	Kallurarni Ayaneri	Shallow depth erosion	Selection of suitable crops, erosion control

Class

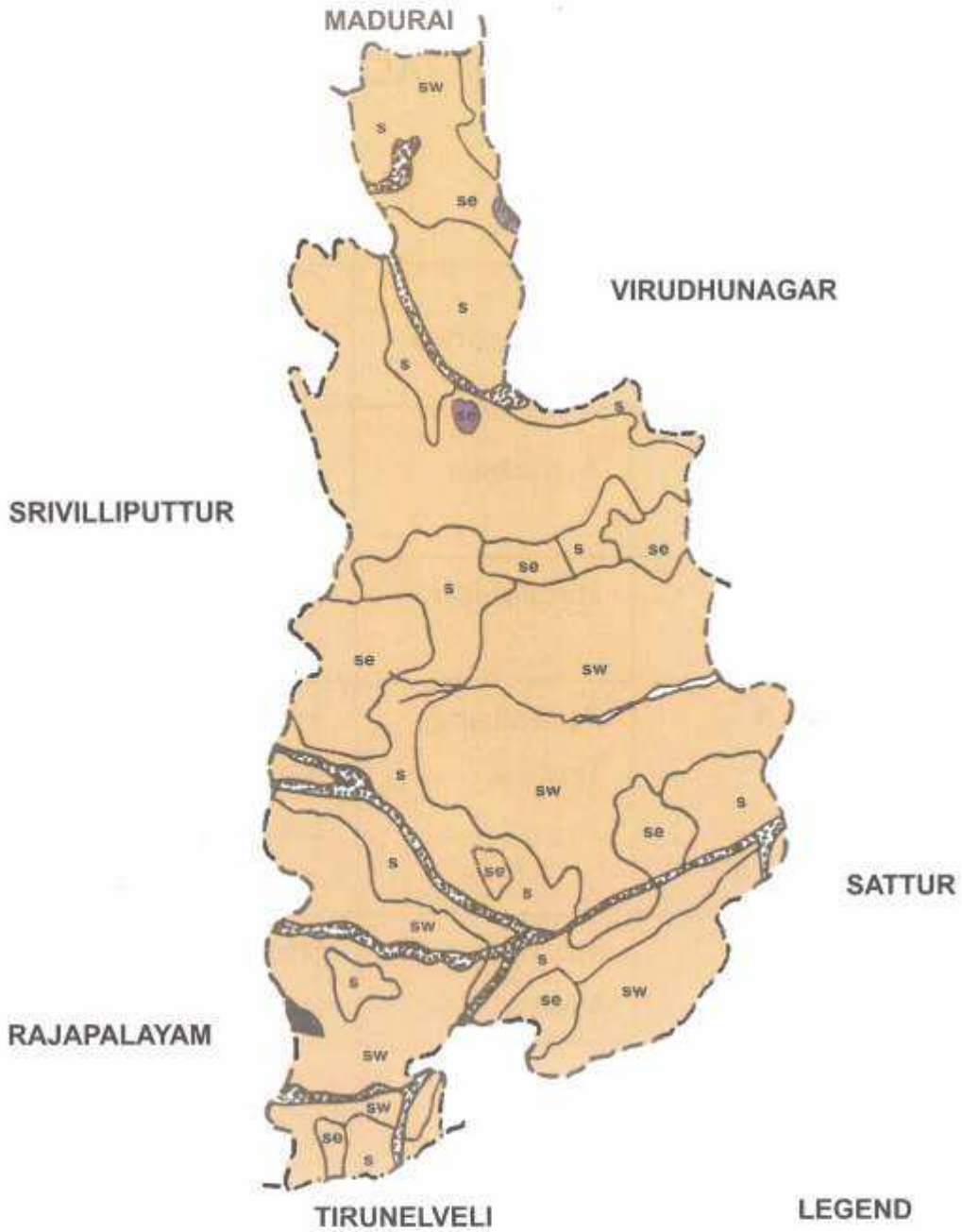
- III. Moderately good cultivable lands that have severe limitations for sustained use under agriculture.
- IV Lands that have very severe limitations for sustained use under agriculture

Sub class

- s - Root zone limitations
- e - Erosion and runoff
- w - Wetness

LAND CAPABILITY

SIVAKASI TALUK



REFERENCE
 - · - DISTRICT BOUNDARY
 - · - · - TALUK BOUNDARY

LEGEND

CLASS

- Severe Limitation
- Very Severe Limitation

SUB CLASS

- s Root Zone Limitation
- e Erosion and Runoff
- w Wetness

LAND IRRIGABILITY

SIVAKASI TALUK

Area (ha)	Land Irrigability Classification	Soil series	Limitation
8500	3s	Agarakkattu	Moderate alkalinity crusting
4433	3st	Idayankulam	Coarse texture topography
43086	3sd	Padarnthapuli Tiruchuli	Alkalinity heavy texture calcareousness drainage hazard
385	4st	Kallurani Ayaneri	Shallow depth topography

Class

3. Lands that have severe limitations for sustained use under irrigation.
4. Lands that have very severe limitations for sustained use under irrigation.

Sub class

- s - Soil limitation
t - Topography
d - Drainage hazard

SOIL PRODUCTIVITY

SIVAKASI TALUK



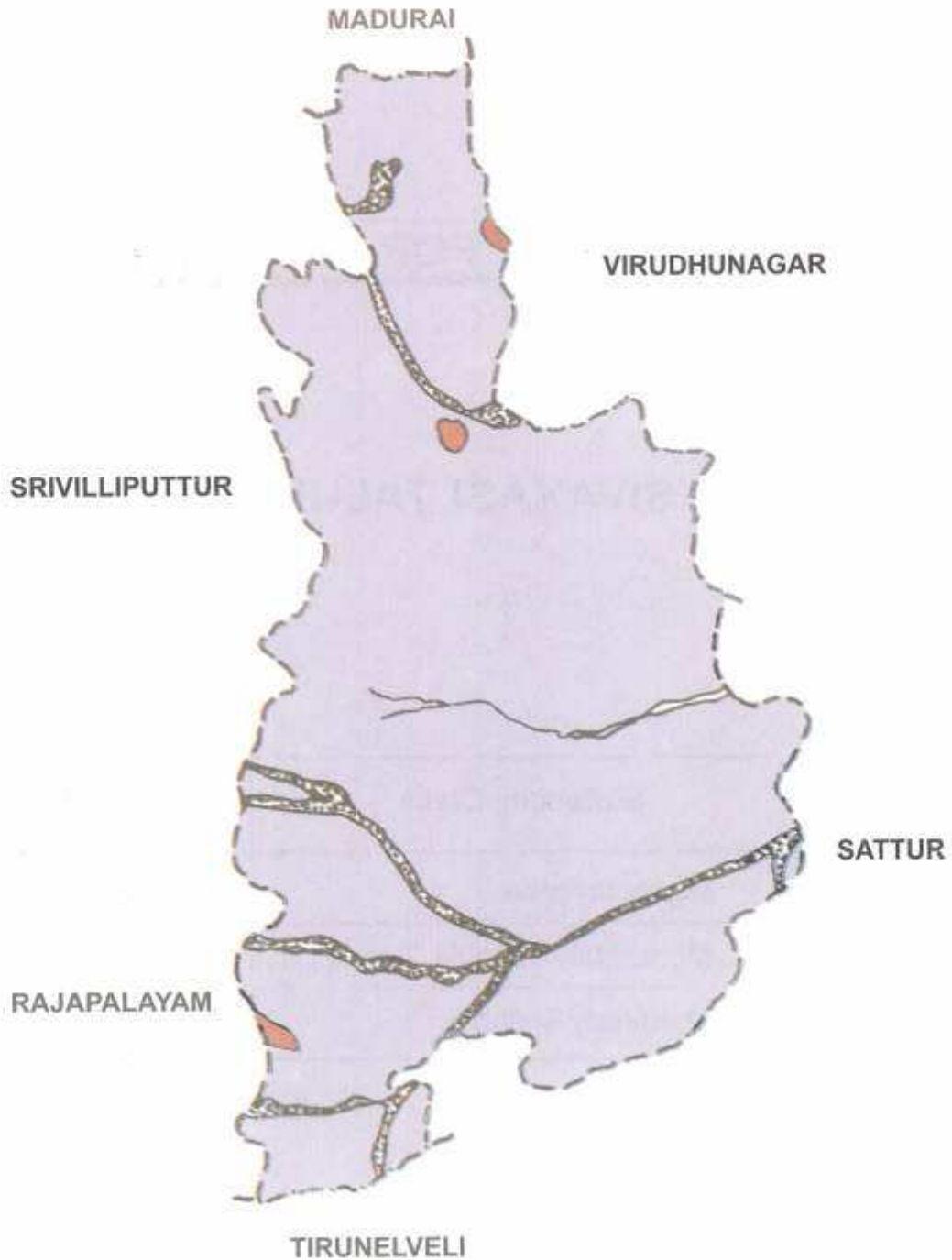
REFERENCE

- . - DISTRICT BOUNDARY
- - - - - TALUK BOUNDARY

LEGEND

- Average
- Poor

SOIL PRODUCTIVITY SIVAKASI TALUK



REFERENCE

- • — DISTRICT BOUNDARY
- TALUK BOUNDARY

LEGEND

-  Average
-  Poor

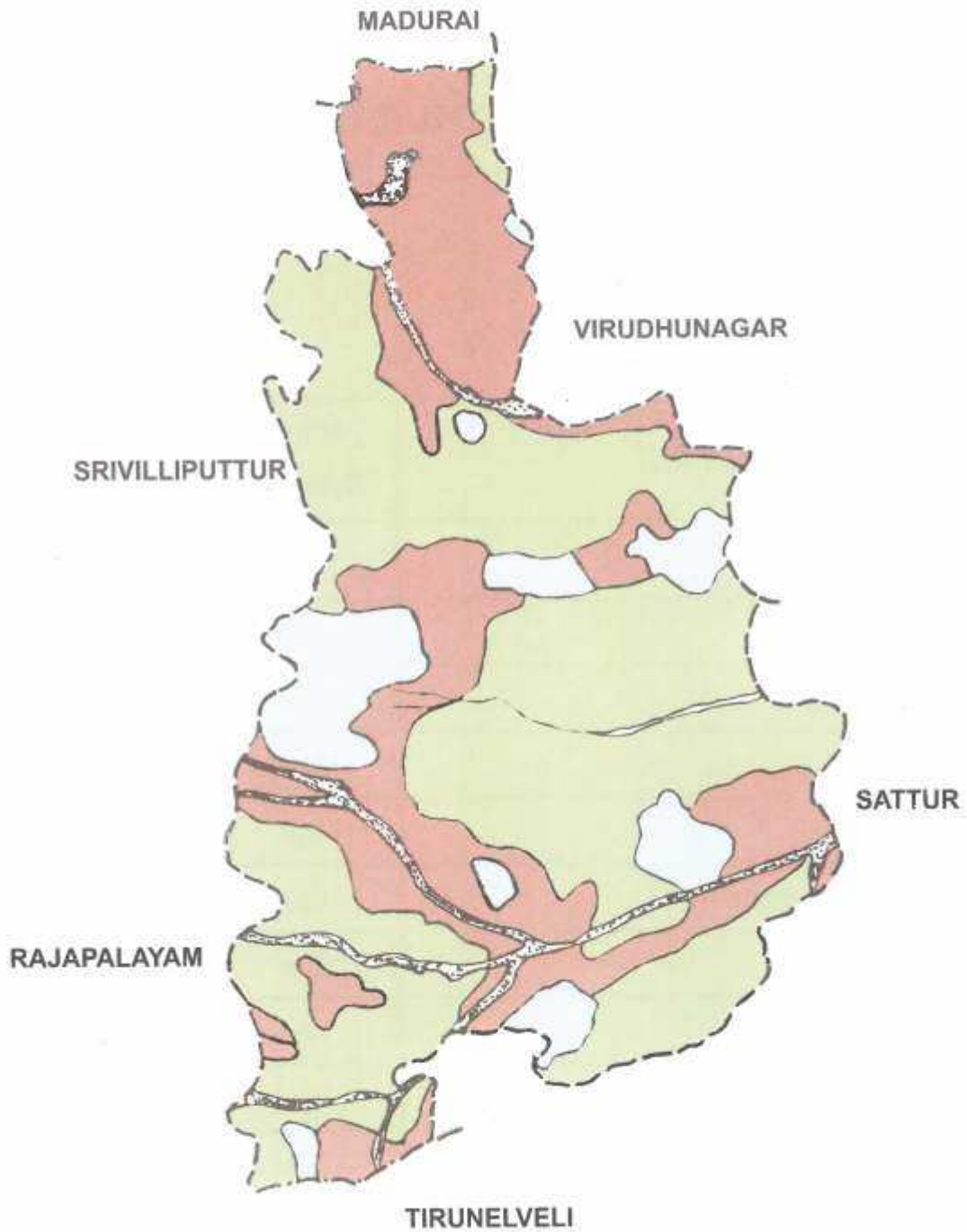
SUITABILITY FOR COTTON

SIVAKASI TALUK

S.No.	Suitability Class	Area (ha)
1.	Highly Suitable	42986
2.	Moderately Suitable	8725
3.	Marginally Suitable	4693

SUITABILITY FOR COTTON

SIVAKASI TALUK



REFERENCE
- . - DISTRICT BOUNDARY
- - - - - TALUK BOUNDARY

LEGEND
[Green Box] Highly Suited
[Red Box] Moderately Suited
[White Box] Marginally Suited

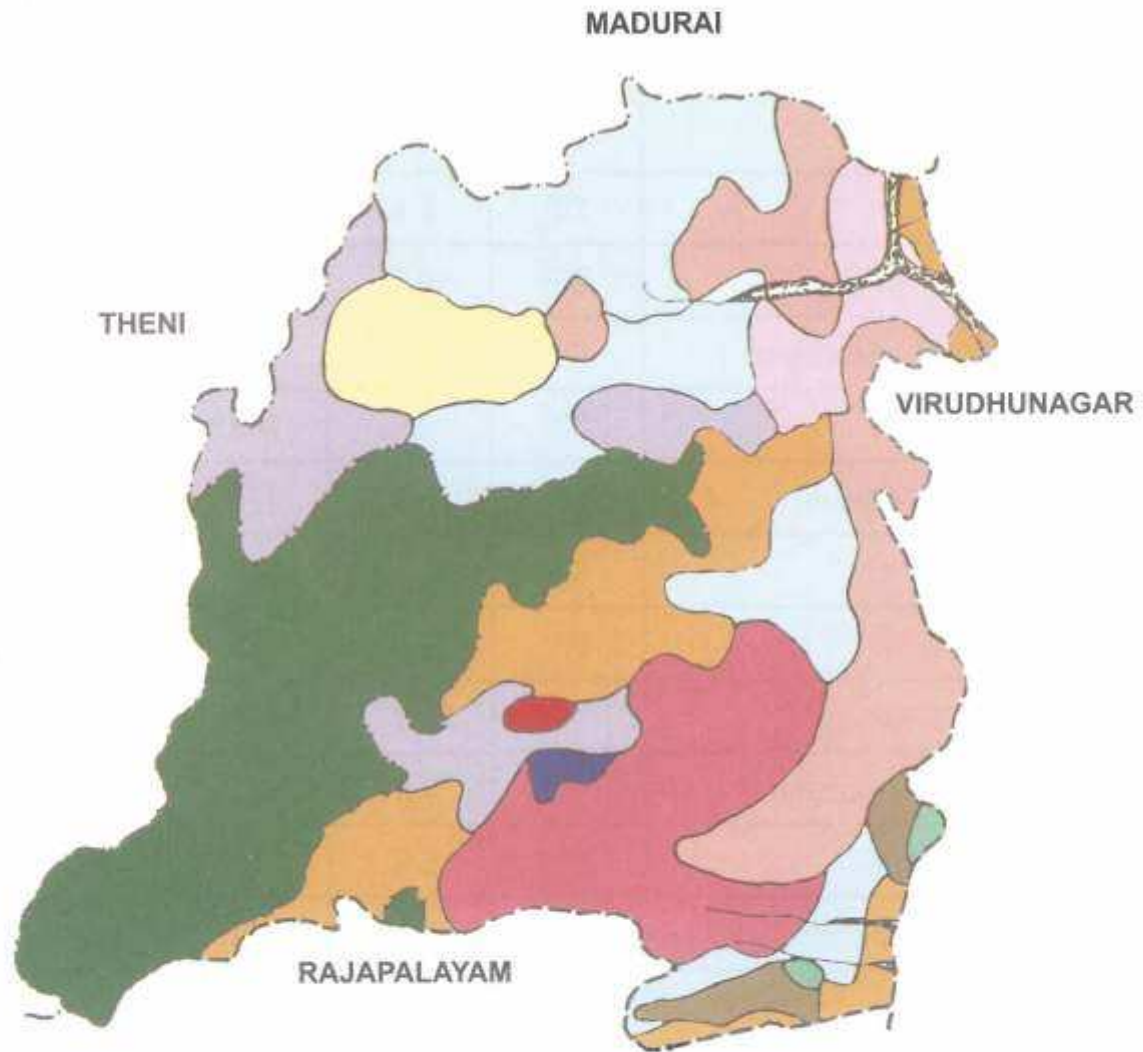
SOILS

SRIVILLIPUTHUR TALUK

Soil Series	Map Symbol	Extent	
		ha	%
1. Mekkarai	Mlkr	10200	21.93
2. Tiruchuli	Tcl	10101	21.72
3. Padamthapuli	Ppl	8946	19.24
4. Mandarai	Mnd	5200	11.18
5. Agarakkattu	Agk	5100	10.97
6. Ambasamudram	Asd	3030	6.52
7. Sivalaperi	Svp	1879	4.04
8. Ayaneri	Anr	1273	2.74\
9. Idayankulam	Ikm	300	0.65
10. Thattaparai	Ttp	275	0.59
11. Chokkanpatti	Ckp	195	0.42
Total		46499	100.00

SOILS

SRIVILLIPUTTUR TALUK



REFERENCE

— · — DISTRICT BOUNDARY

----- TALUK BOUNDARY

▨ FOREST BOUNDARY

LEGEND

	MEKKARAI		SIVALAPERI
	PADARNTHAPULI		AYANERI
	TIRUCHULI		IDAYANKULAM
	MANDARAI		THATTAPARAI
	AGARAKATTU		CHOKKAMPATTI
	AMBASAMUDRAM		

VILLAGEWISE FERTILITY STATUS AND DOMINANT SOIL SERIES

SRIVILLIPUTHUR TALUK

Village	Fertility Status (kg/ac)			Dominant Soil Series
	N	P	K	
1. Kurukkankulam	68	6.2	162	Tcl, Agk
2. Singammalpuram	70	14.3	268	Mkr, Cpt
3. Ponnanganni	65	4.8	318	Mkr
4. Deiventhiri	70	5.8	262	Mkr
5. Sriviliputhur	65	19.0	257	Mkr
6. Aththikulam - Sengulam	66	6.9	432	Tcl
7. Ammapatti	62	9.8	248	Ppl
8. Pattakulam Sallapatti	63	5.8	177	Ppl
9. Vizhuppanur	65	5.4	335	Ppl, Mnd
10. Poovani	67	6.0	203	Mnd, Agk
11. P. Nallingaperi	70	22.3	248	Mnd
12. Muthuvenkatrayapuram	63	4.5	283	Tcl, Agk
13. Pillayarnatham	66	5.6	172	Mnd, Agk
14. Venkateswarapuram	66	5.7	299	Agk
15. Mullikkulam	64	5.59	225	Ppl, Mnd
16. Malli	62	5.9	178	Ppl
17. Sundarapandiyam	66	5.8	178	Mnd, Mkr
18. Ruthirappanayakkanpatti	62	3.8	367	Svp
19. Vadugapatti	64	4.3	107	Svp
20. Kalathur	62	4.0	399	Svp
21. Ammapatti	62	9.8	248	Svp
22. Moovaraivendran	65	6.2	124	Ppl
23. Thulakkapatti	105	6.0	500	Mnd, Ppl

Village	Fertility Status (kg/ac)			Dominant Soil Series
	N	P	K	
24. Naththampatti	65	5.8	248	Ppl
25. Semmanandi Karisalkulam	105	17	247	Ppl, Svp
26. Kannur	65	5.6	176	Mkr, Agk
27. Kansapuram	66	5.4	134	Mkr, Asd
28. S. Kodikkulam	65	4.8	94	Asd, Mkr
29. Vathirayiruppu	64	6.0	106	Asd, Mnd
30. V. Punganpatti	63	4.3	108	Mnd, Asd
31. Maharajapuram	66	6.2	269	Mnd, Ppl

LAND CAPABILITY

SRIVILLIPUTHUR TALUK

Area (ha)	Land Capability Classification	Soil series	Limitation	Needs
10300	III _s	Agarakkattu	Moderate alkalinity crusting	Addition of organic manures
10200	III _e	Mekkarai	Erosion	Erosion control
770	III _{se}	Idayankulam Thattaparai Chokkanpatti	Surface coarse texture erosion	Addition of tank silt and organic manures, erosion control
23956	III _{sw}	Padarnthapuli Tiruchuli Ambasamudram Sivalaperi	Alkalinity heavy texture calcareousness wetness	Selection of crops, application of iron pyrite, drainage improvement
1273	IV _{se}	Ayaneri	Shallow depth erosion	Selection of suitable crops, erosion control

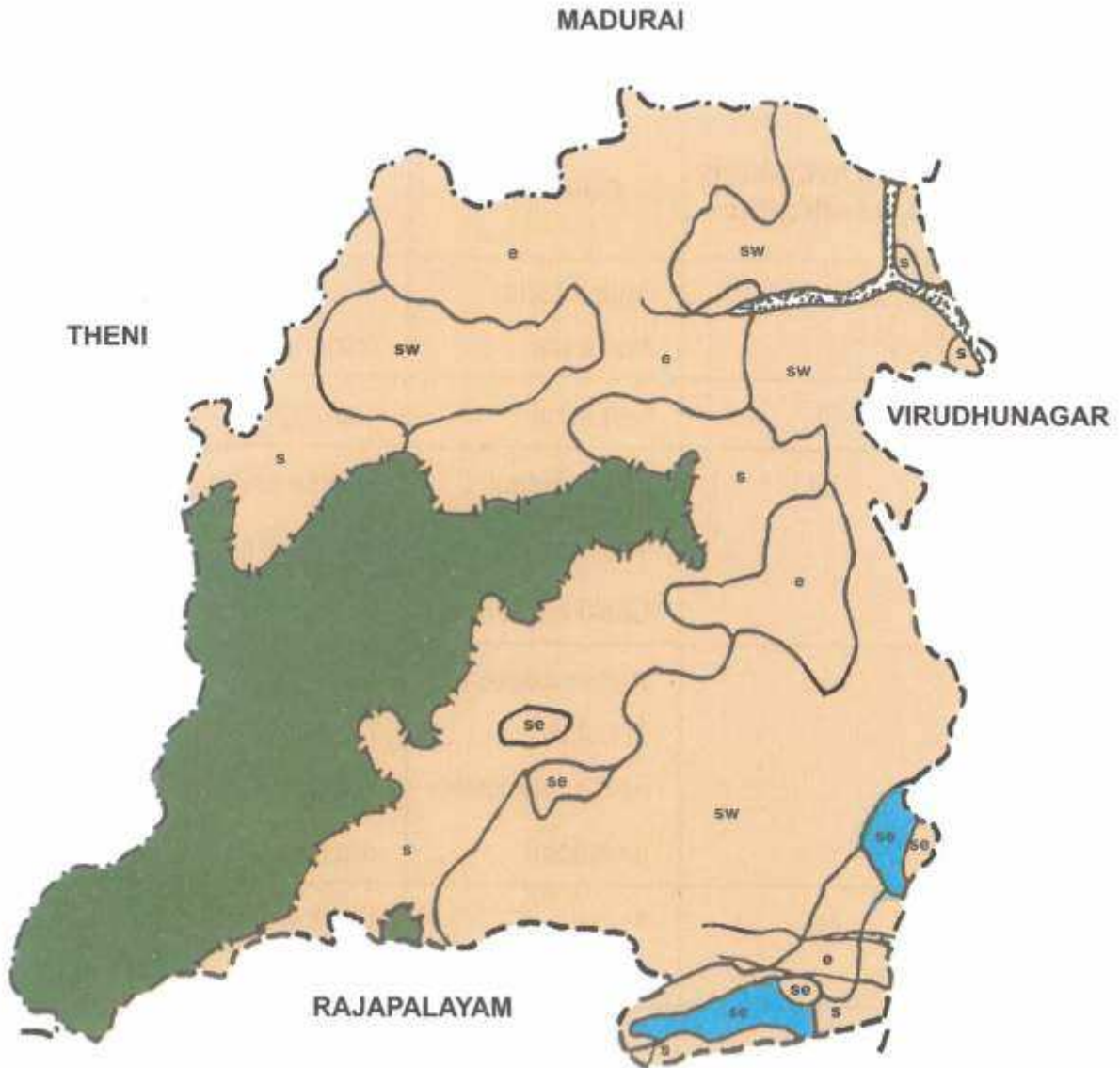
Class

- III. Moderately good cultivable lands that have severe limitations for sustained use under agriculture.
- IV Lands that have very severe limitations for sustained use under agriculture

Sub class

- s - Root zone limitations
- e - Erosion and runoff
- w - Wetness

LAND CAPABILITY SRIVILLIPUTTUR TALUK



REFERENCE

- • — DISTRICT BOUNDARY
- TALUK BOUNDARY
- ▬ FOREST BOUNDARY

LEGEND

CLASS

- Severe Limitation
- Very Severe Limitation

SUB CLASS

- s Root Zone Limitation
- e Erosion and Runoff
- w Wetness

LAND IRRIGABILITY

SRIVILLIPUTHUR TALUK

Area (ha)	Land Irrigability Classification	Soil series	Limitation
10300	3s	Agarakkattu Mandarai	Moderate alkalinity crusting
10200	3t	Mekkarai	Topography
770	3st	Idayankulam Thattaparai Chokkanpatti	Coarse texture topography
43086	3sd	Padarnthapuli Tiruchuli Ambasamudram Sivalaperi	Alkalinity heavy texture calcareousness drainage hazard
385	4st	Ayaneri	Shallow depth topography

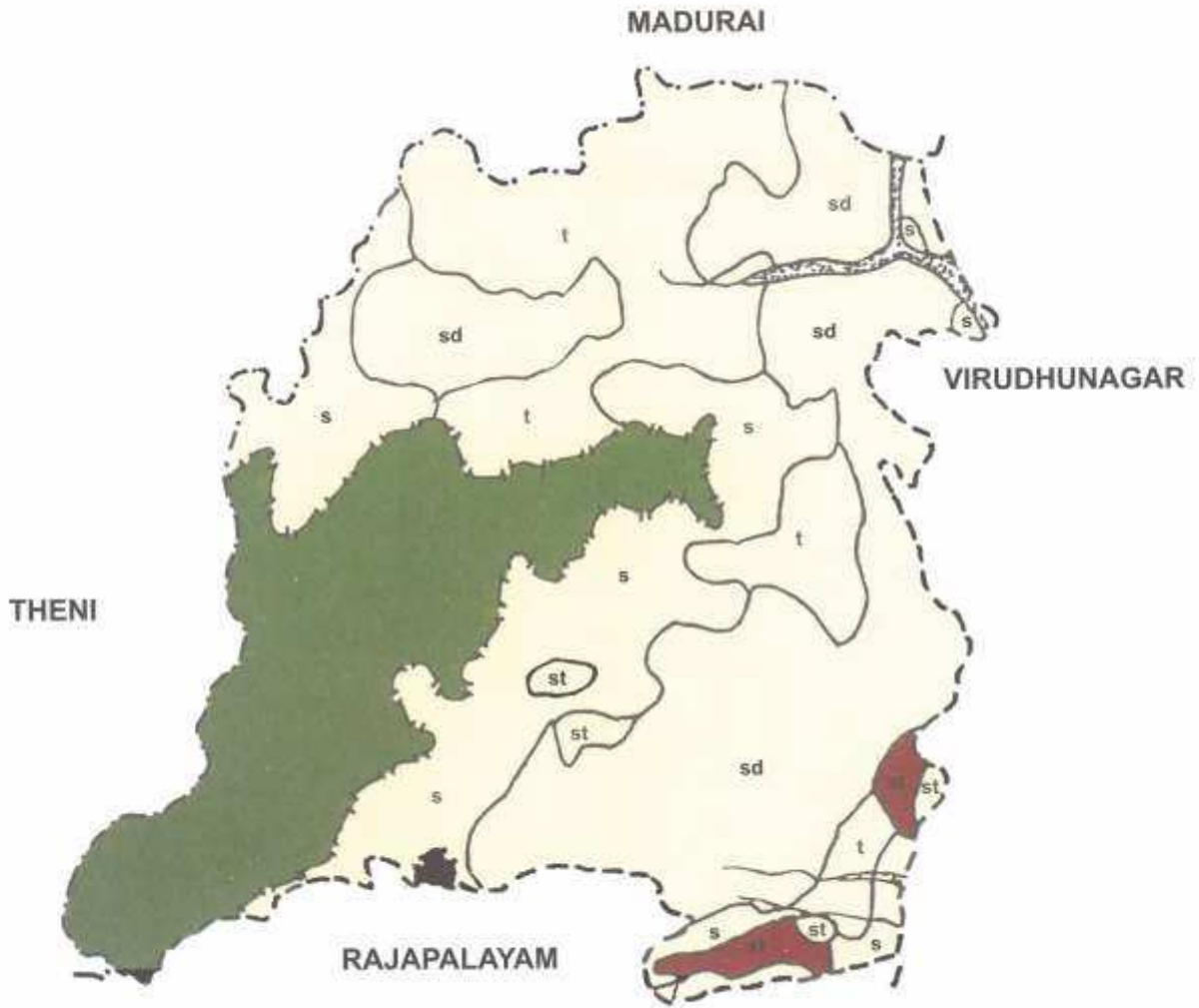
Class

3. Lands that have severe limitations for sustained use under irrigation.
4. Lands that have very severe limitations for sustained use under irrigation.

Sub class

- s - Soil limitation
t - Topographical limitation
d - Drainage hazard

LAND IRRIGABILITY SRIVILLIPUTTUR TALUK



REFERENCE

- • — DISTRICT BOUNDARY
- TALUK BOUNDARY
- ▨ FOREST BOUNDARY

LEGEND

CLASS

- Severe Limitation
- Very Severe Limitation

SUB CLASS

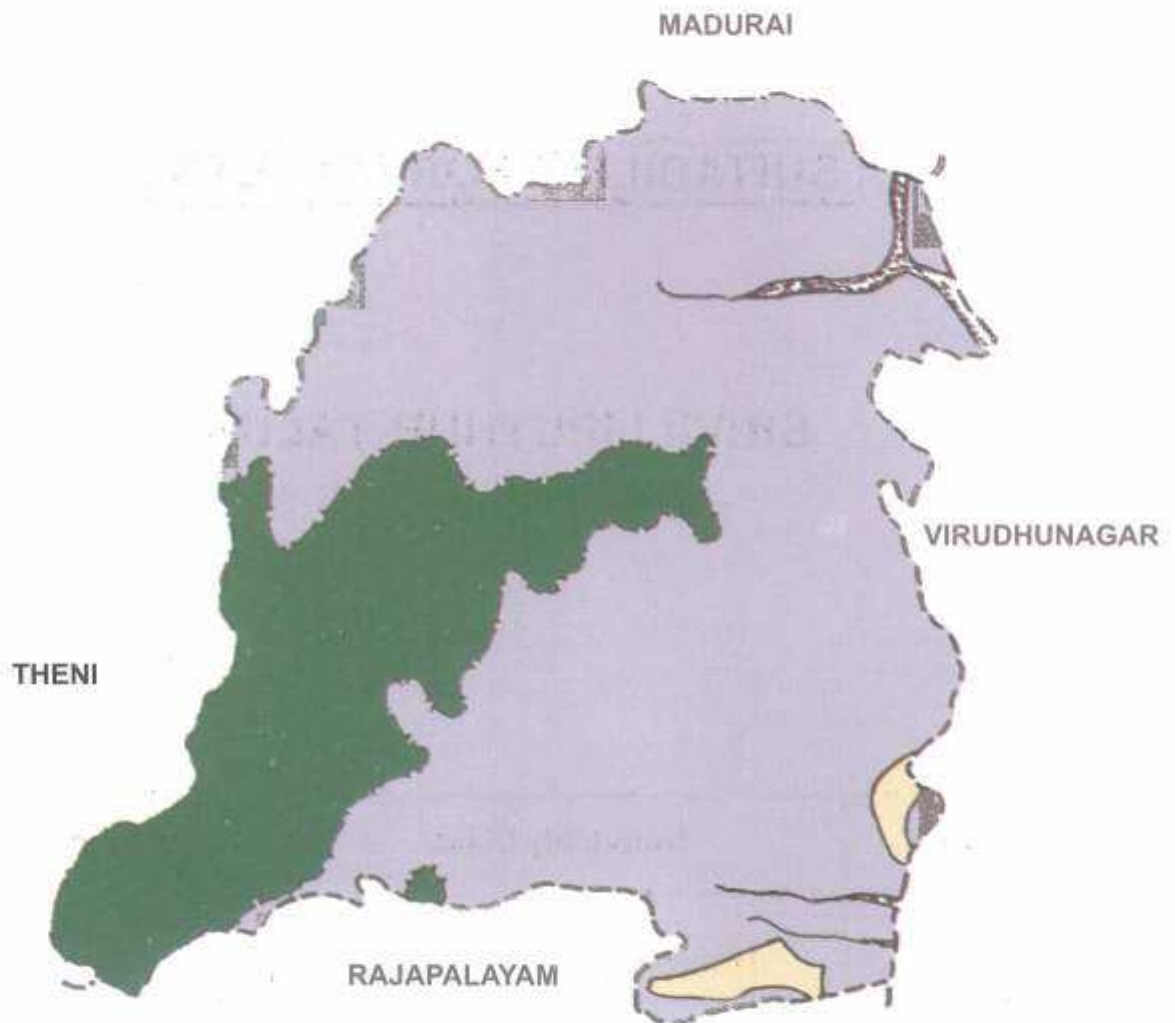
- s Soil Limitation
- t Topographic Limitation
- d Drainage Hazard

SOIL PRODUCTIVITY

SRIVILLIPUTHUR TALUK

Area (ha)	Productivity		Soil series
	Rating	Grouping	
1273	8 - 19	Poor	Ayaneri
45226	20 - 34	Average	Mekkarai Tiruchuli Padarnthapuli Mandarai Agarakkattu Ambasamudram Sivalaperi Idayankulam Thattaparai Chokkanpatti

SOIL PRODUCTIVITY SRIVILLIPUTTUR TALUK



REFERENCE

- • — DISTRICT BOUNDARY
- - - - - TALUK BOUNDARY
- ▨ FOREST BOUNDARY

LEGEND

- Average
- Poor

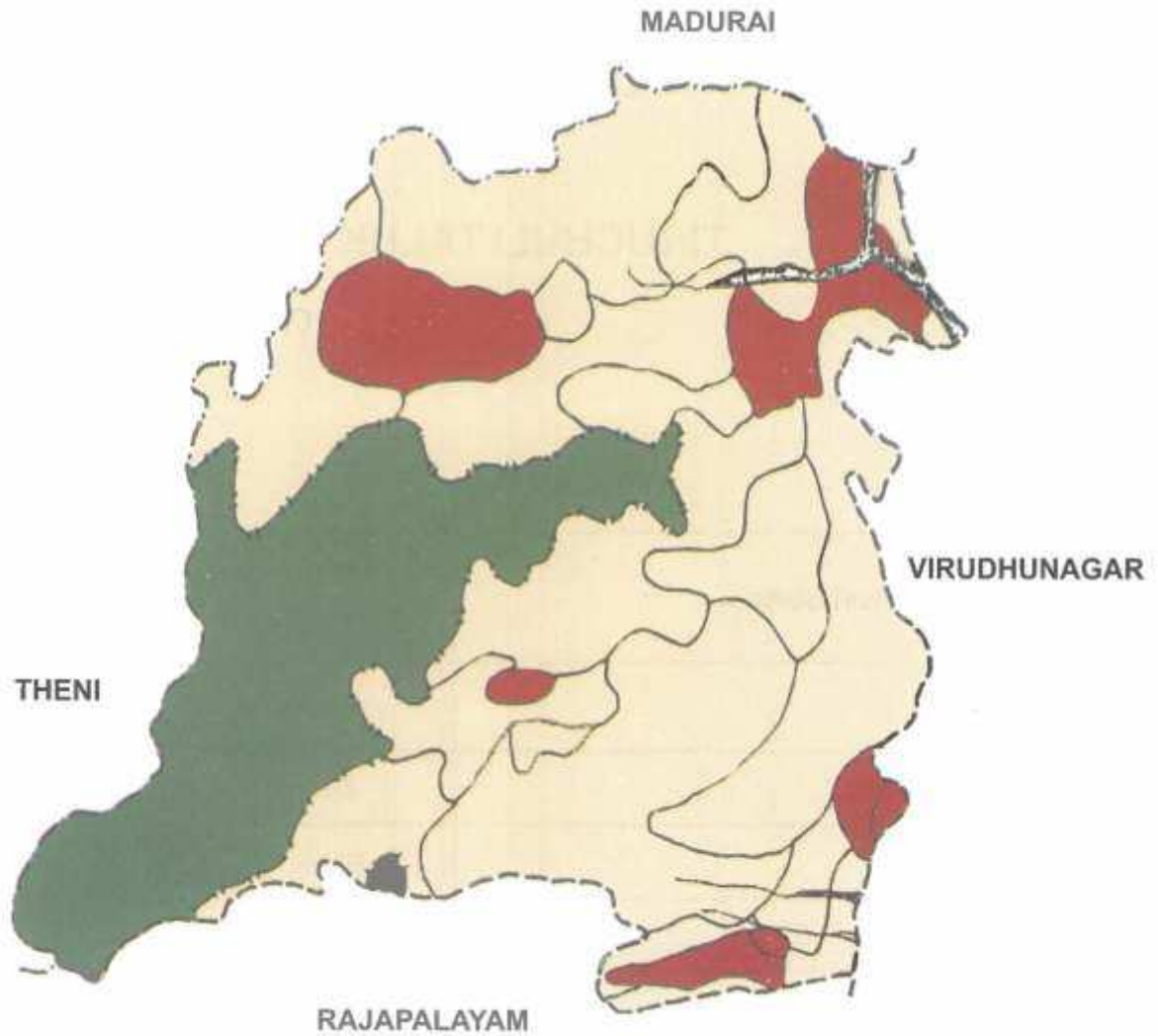
SUITABILITY FOR MILLETS

SRIVILLIPUTHUR TALUK

S.No.	Suitability Class	Area (ha)
1.	Highly Suitable	39822
2.	Moderately Suitable	6677

SUITABILITY FOR MILLETS

SRIVILLIPUTTUR TALUK



- REFERENCE**
- . - DISTRICT BOUNDARY
 - - - - - TALUK BOUNDARY
 - ▨ FOREST BOUNDARY

- LEGEND**
- Highly Suited
 - Moderately Suited

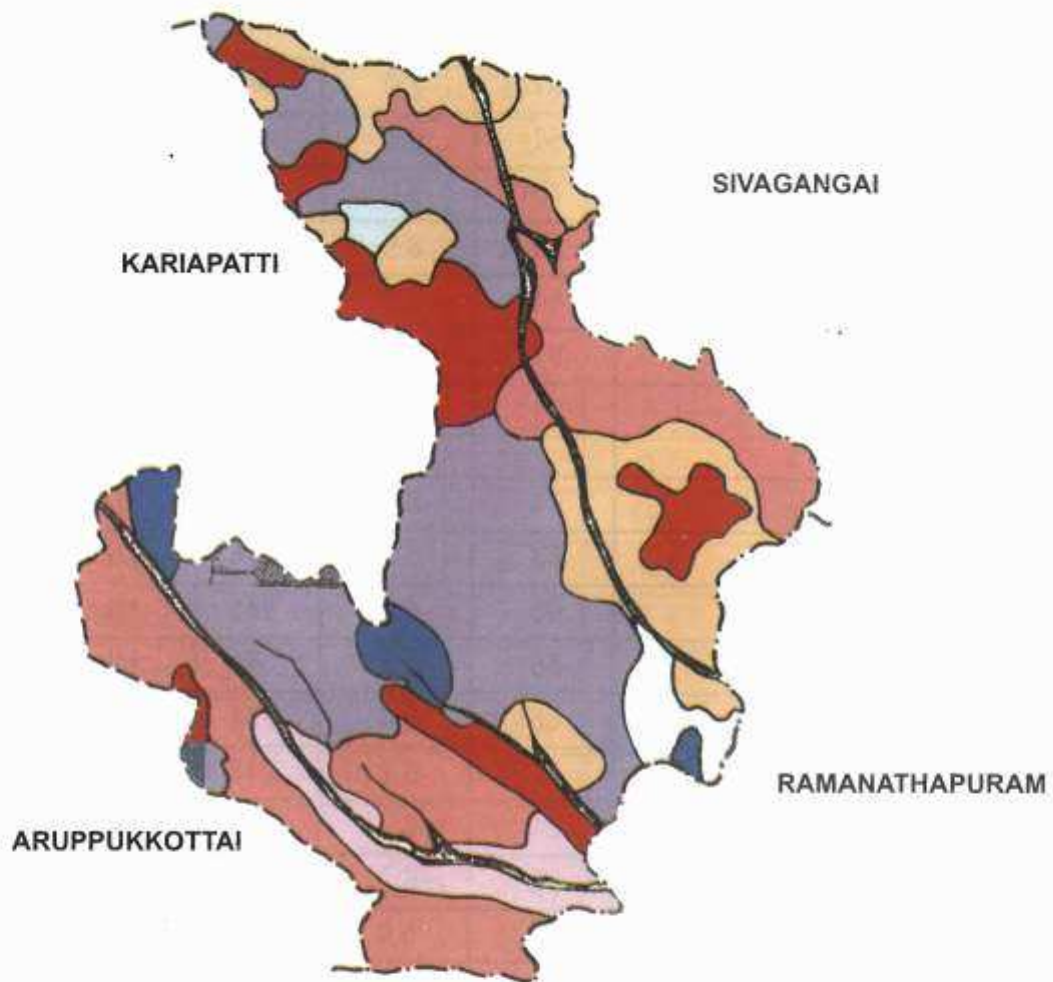
SOILS

TIRUCHULI TALUK

Soil Series	Map Symbol	Extent	
		ha	%
1. Mandarai	Mnd	16385	41.95
2. Tiruchuli	Tcl	9500	24.32
3. Padarnthapuli	Ppl	6300	16.13
4. Agarakkattu	Agk	4171	10.68
5. Chokkanpatti	Ckp	905	2.32
6. Sivalaperi	Svp	905	2.32
7. Mekkarai	Mkr	890	2.28
Total		39056	100.00

SOILS

TIRUCHULI TALUK



REFERENCE
— • — DISTRICT BOUNDARY
----- TALUK BOUNDARY

LEGEND

-  MANDARAI
-  AGARAKATTU
-  PADARNTHAPULI
-  TIRUCHULI
-  CHOKKAMPATTI
-  SIVALAPERI
-  MEKKARAI

VILLAGE-WISE FERTILITY STATUS AND DOMINANT SOIL SERIES

TIRUCHULI TALUK

Village	Fertility Status (kg/ac)			Dominant Soil Series
	N	P	K	
1. Mithilaikulam	57	11.5	169	Mkr, Cpt
2. Vidathakulam	52	9.0	151	Mkr
3. Sennilaikudi	61	7.0	341	Cpt, Ppl
4. Pannimoondradaippu	56	6.1	134	Ppl, Pgi
5. Manavarayanendal	70	7.0	232	Ppl
6. Varaiyanendal	63	6.5	244	Mkr
7. Velayuthapuram	64	5.8	224	Cpt
8. Sirumithilaikulam	67	5.2	74	Mkr
9. Siraiyanendal(a) Seeniyenthal	71	3.8	81	Mkr, Cpt
10. Iluppaikulam	74	8.6	192	Mkr
11. Seemanendal	63	5.8	114	Mkr
12. Nallathalai	63	5.3	245	Mkr
13. Kadayanendal	66	5.3	44	Mkr
14. Melendal	65	5.4	274	Mkr, Cpt
15. Sinvannankulam	67	6.2	217	Mkr
16. Valillaperi	64	6.2	258	Cpt
17. Pulikuruchi	72	6.2	272	Ppl
18. Keezhakandamangalam	66	5.0	217	Ikm, Ppl
19. Tiruchuli	64	5.9	431	Ppl, Svp
20. Kuchampatti	63	5.1	181	Ppl, Cpt
21. Udaivampatti	62	9.0	357	Ppl, Cpt
22. Pallimadam	69	6.8	218	Ppl
23. Karendal	68	4.3	193	Cpt
24. Kuchaneri	75	4.8	175	Ppl, Cpt
25. Ambaneri	75	9.0	132	Cpt, Agk
26. Vadapallai	69	7.4	325	Ppl, Pgi
27. Thippampatti	67	4.9	161	Ppl
28. Villayarthottiyangulam	64	7.1	19	Ppl

Village	Fertility Status (kg/ac)			Dominant Soil Series
	N	P	K	
29. Sithalakkundu	60	4.7	204	Ikm, Pgi
30. Udaichiyendal	72	5.4	17	Ppl
31. Paraikulam	69	6.0	500	Ppl, Ikm
32. Nochikulam	74	7.2	464	Cpt
33. Kadampankulam	62	5.9	335	Cpt
34. Udayarendal	67	5.2	142	Ppl
35. Meludaikulam	72	6.4	300	Cpt
36. Thondamankulam	72	5.6	342	Cpt
37. Maili	68	4.7	255	Cpt
38. Kadalpasi	67	4.2	300	Cpt
39. Meenashipuram	63	6.2	204	Mkr
40. Idayankulam	65	5.2	79	Mrk, Cpt
41. Muthanendal	70	4.7	133	Cpt
42. Nadakulam	60	14.6	231	Cpt
43. Ooranipatti	64	4.7	190	Ppl
44. Kokkakulam	70	4.9	300	Ppl, Cpt
45. Sappaniyenthal	67	4.7	216	Cpt, Agk
46. Kallathikulam	71	3.9	77	Cpt
47. Anjariaikuthi	70	4.5	190	Ppl
48. Puduyenthal	62	4.9	273	Ppl
49. Perumanenthal	57	7.0	250	Mkr
50. Kurinjakulam	65	5.3	78	Cpt
51. Anikkalakkuyenthal	70	6.0	354	Cpt
52. Puliyankulam	68	6.3	500	Mkr, Cpt
53. Athikulam	68	6.0	500	Agk, Ppl
54. P. Vagaikulam	63	7.0	138	Ppl, Mkr
55. Kattanur	66	6.8	243	Ppl
56. Panaikudi	69	8.2	312	Mkr, Agk
57. Irunchirai	67	5.9	239	Ppl, Tci
58. Ulakkudi	63	5.4	148	Ppl, Agk
59. Salai Iluppakulam	66	6.9	25	Mkr, Agk
60. Isali	83	5.9	196	Mkr, Agk

Village	Fertility Status (kg/ac)			Dominant Soil Series
	N	P	K	
61. Melakumilangulam	65	8.4	157	Mkr
62. Sottarnurai	93	6.6	248	Mkr
63. Aathithanenthal	64	5.0	327	Mkr, Tcl
64. Manur	66	5.6	200	Mkr, Tc!
65. Mayaleri	63	5.4	148	Tcl, Agk
66. T. Velangudi	62	12.16	93	Tcl, Agk
67. Sorikkulam	69	7.4	310	Ppl, Tcl
68. Velaneri	64	5.3	460	Ppl, Tcl
69. Sathicheri	61	5.2	80	Ppl, Tcl
70. Aandiyenthal	66	6.0	212	Agk, Tcl
71. Varisaiyoori	68	5.7	82	Agk, Tcl
72. Meenakkulam	66	6.3	291	Mnd, Cpt
73. Kandukondanmanikkam	60	4.2	48	Mkr
74. Keezhasambur	66	4.6	297	Mnd, Tcl
75. Nambiyenthal	65	6.5	259	Mnd
76. Papakulan	47	4.96	107	Mnd, Mkr
77. Kaladipapakulam	64	4.6	304	Mkr, Mnd
78. Pathagaikurichi	63	5.7	74	Mkr, Tcl
79. Silanthikulam	62	13.0	77	Svp, Agk
80. Manakkulam	59	5.3	78	Mkr
81. Pulichikulam	67	6.2	285	Mkr
82. Kamalipuliyankulam	63	4.6	35	Mkr
83. Vadakkariankulam	72	6.2	299	Mkr
84. Achankulam	62	5.0	88	Mkr
85. Therkariyankulam	64	5.4	310	Mkr, Agk
86. Muthaneri	61	2.3	53	Nkr, Tcl
87. Pitchankudi	66	5.7	82	Nkr
88. Anaikulam	63	6.6	358	Ppl, <u>Syp</u>
89. Sethupurarn	63	4.9	211	Ppl, Svp
90. Pillaiyarnatham	63	6.1	293	<u>Ppl, Svp</u>
91. Poomalaipatti	62	50.0	445	<u>Ppl, Svp</u>
92. Veeracholan	60	7.0	288	Mnd, Tcl

Village	Fertility Status (kg/ac)			Dominant Soil Series
	N	P	K	
93. Regunathamadal	66	6.1	500	Ppl, Agk
94. Nallukurichi	61	5.3	71	Tcl, Mkr
95. Kallangudi	63	4.9	116	Tcl, Agk
96. Velaveerani	65	6.7	255	Ppl, Svp
97. Illuppaiyur	64	4.4	214	Ppl, Svp
98. Naduvappacheri	54	6.2	128	Ppl, Agk
99. Usilangulam	66	4.8	455	Agk, Id
100. Andipatti	64	5.4	270	Ppl
101. Panaiyur	65	6.3	314	Svp, Ppl
102. Pillaiyarenthal	69	6.8	390	Ppl
103. Muthuramalingapuram	82	8.0	394	Ppl, Svp
104. Dhamotharapuram	61	6.8	373	Ppl, Svp
105. Melasembur	62	5.4	106	Mnd, Tcl
106. Kadambangulam	63	7.0	243	Cpt, Mnd
107. Ottangulam	64	7.4	54	Mkr
108. Kellapuliandarkottai	67	5.7	133	Mnd, Mkr
109. Mullikulam	67	4.8	50()	Mkr, Tcl
110. Thiruvor	66	3.9	142	Agk, Tcl
111. Semponnerunchi	64	6.5	249	Ppl
112. Kurunthankulam	67	5.1	500	Mkr
113. Neilikulam	62	6.4	277	Ppl
114. Poigaipithan	67	19.0	158	Agk, Tcl
115. Alangulam	72	6.2	310	Mkr, Tcl
116. Kongalangudi	63	4.1	116	Tcl
117. Suntharathan	66	5.7	500	Mnd, Cpt
118. Kathanpatti	72	7.4	200	Ppl, Svp
119. Sellampatti	62	5.8	211	Ppl

LAND CAPABILITY

TIRUCHULI TALUK

Area (ha)	Land Capability Classification	Soil series	Limitation	Needs
20556	lls	Agarakkattu Mandarai	Moderate alkalinity crusting	Addition of organic manures
890	lle	Mekkarai	Erosion	Erosion Control
905	llse	Chokkanpatti	Surface coarse texture erosion	Addition of tank silt and organic manures, erosion control
16705	llsw	Padarnthapuli Tiruchuli Sivalaperi	Alkalinity, heavy heavy texture calcareousness wetness	Selection of crops, application of iron pyrite, drainage improvement

Class

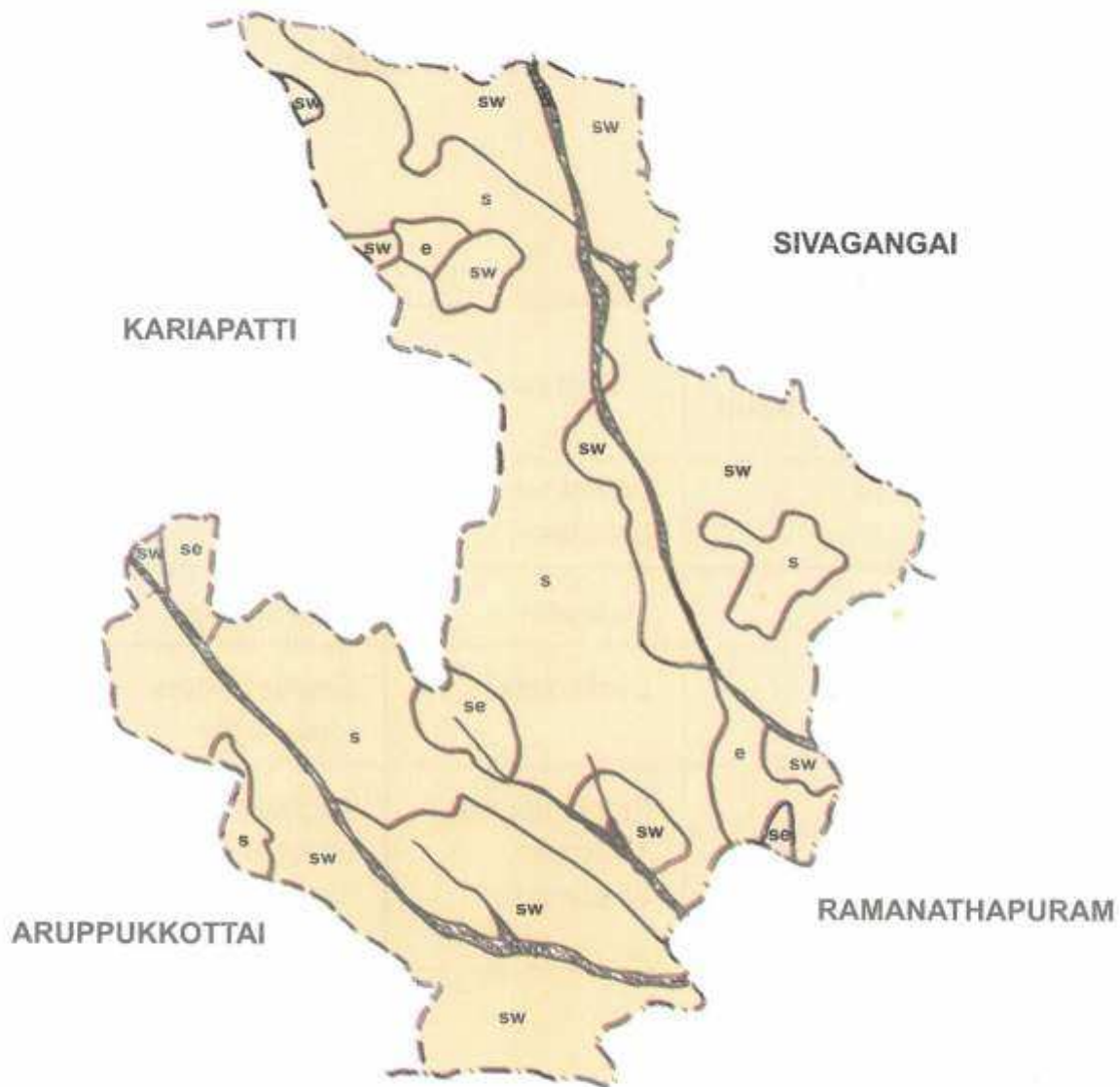
- III Moderately good cultivable lands that have severe limitations for sustained use under agriculture.

Sub class

- s - Root zone limitations
e - Erosion and runoff
w - Wetness

LAND CAPABILITY

TIRUCHULI TALUK



REFERENCE
 — • — DISTRICT BOUNDARY
 - - - - - TALUK BOUNDARY

LEGEND
CLASS
 Severe Limitation
SUB CLASS
 s Root Zone Limitation
 e Erosion and Runoff
 w Wetness

LAND IRRIGABILITY

TIRUCHULI TALUK

Area (ha)	Land Irrigability Classification	Soil series	Limitation
20556	3 s	Agarakkattu Mandarai	Moderate alkalinity crusting
890	3t	Mekkarai	Topography
905	3st	Chokkanpatti	Coarse texture topography
16705	3sd	Padarnthapuli Tiruchuli Sivalaperi	Alkalinity heavy texture calcareousness drainage hazard

Class

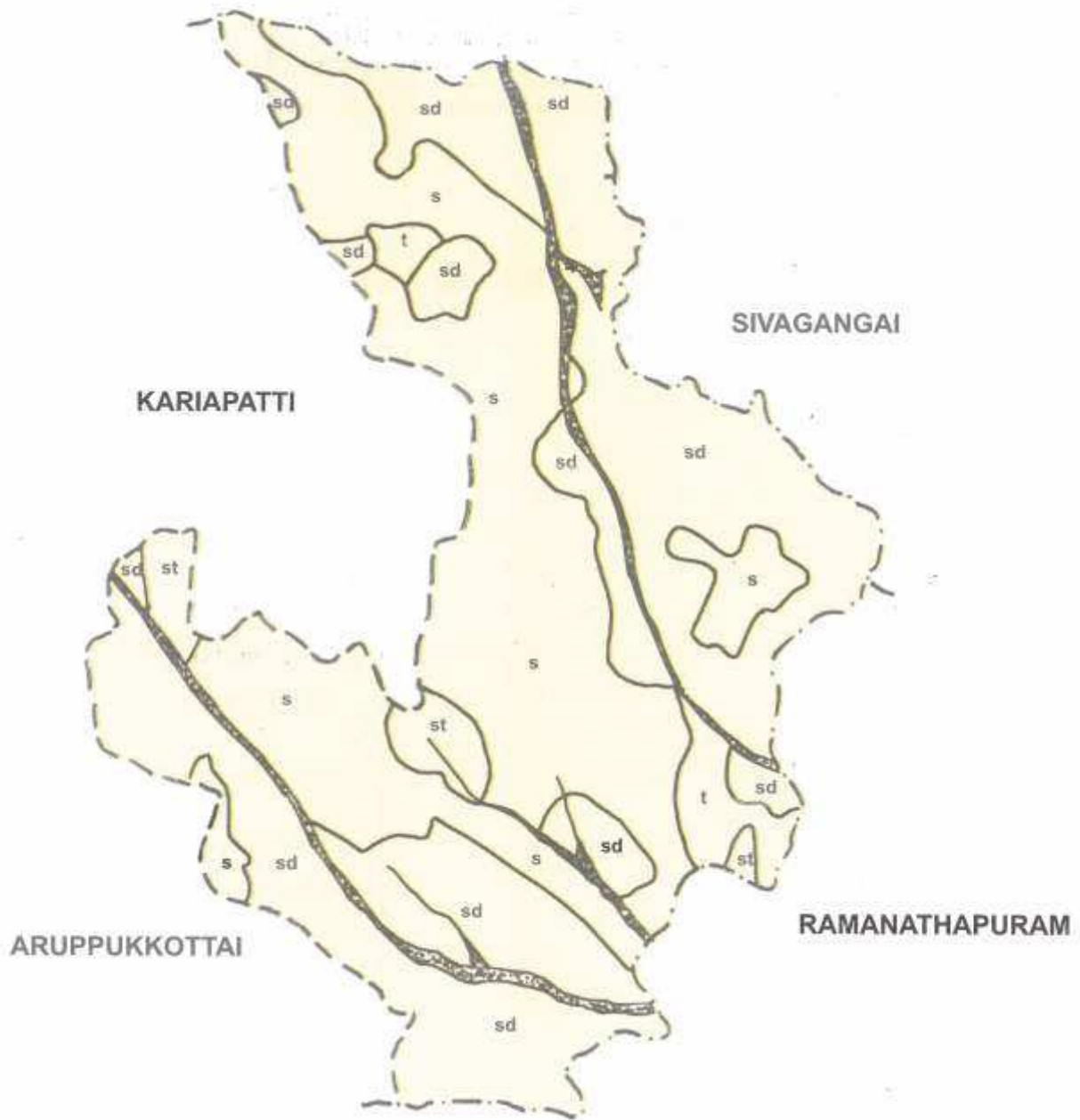
3. Lands that have severe limitations for sustained use under irrigation.

Sub class

- s - Soil limitation
t - Topographical limitation
d - Drainage hazard

LAND IRRIGABILITY

TIRUCHULI TALUK



REFERENCE
 - . - DISTRICT BOUNDARY
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LEGEND
CLASS
 [Yellow Box] Severe Limitation
SUB CLASS
 s Soil Limitation
 t Topographic Limitation
 d Drainage Hazard

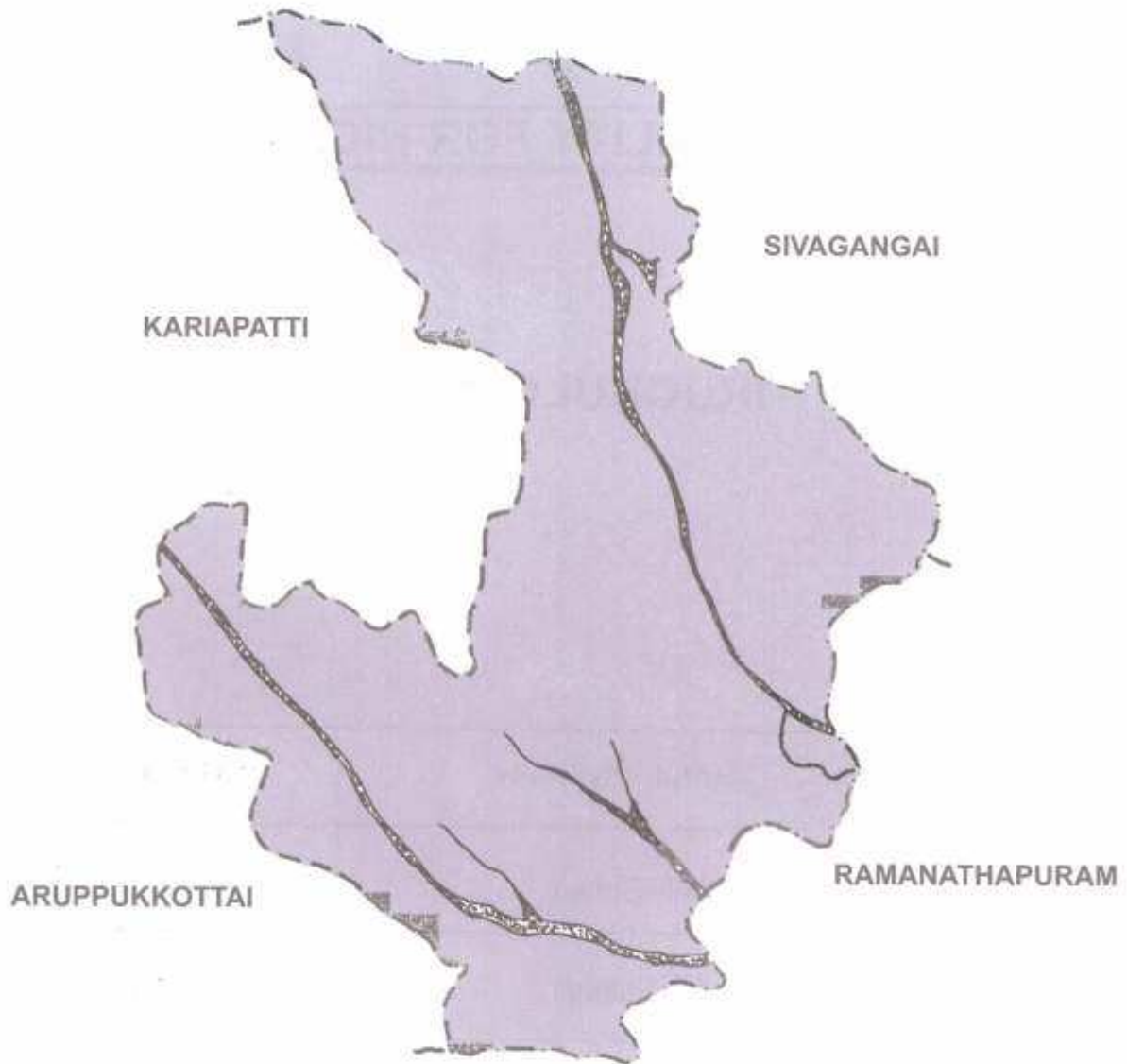
SOIL PRODUCTIVITY

TIRUCHULI TALUK

Area (ha)	Productivity		Soil series
	Rating	Grouping	
39056	20 – 34	Average	Mandarai Tiruchuli Padarnthapuli Agarakkattu Chokkanpatti Sivalaperi Mekkarai

SOIL PRODUCTIVITY

TIRUCHULI TALUK



REFERENCE

- • — DISTRICT BOUNDARY
- TALUK BOUNDARY

LEGEND

-  Average

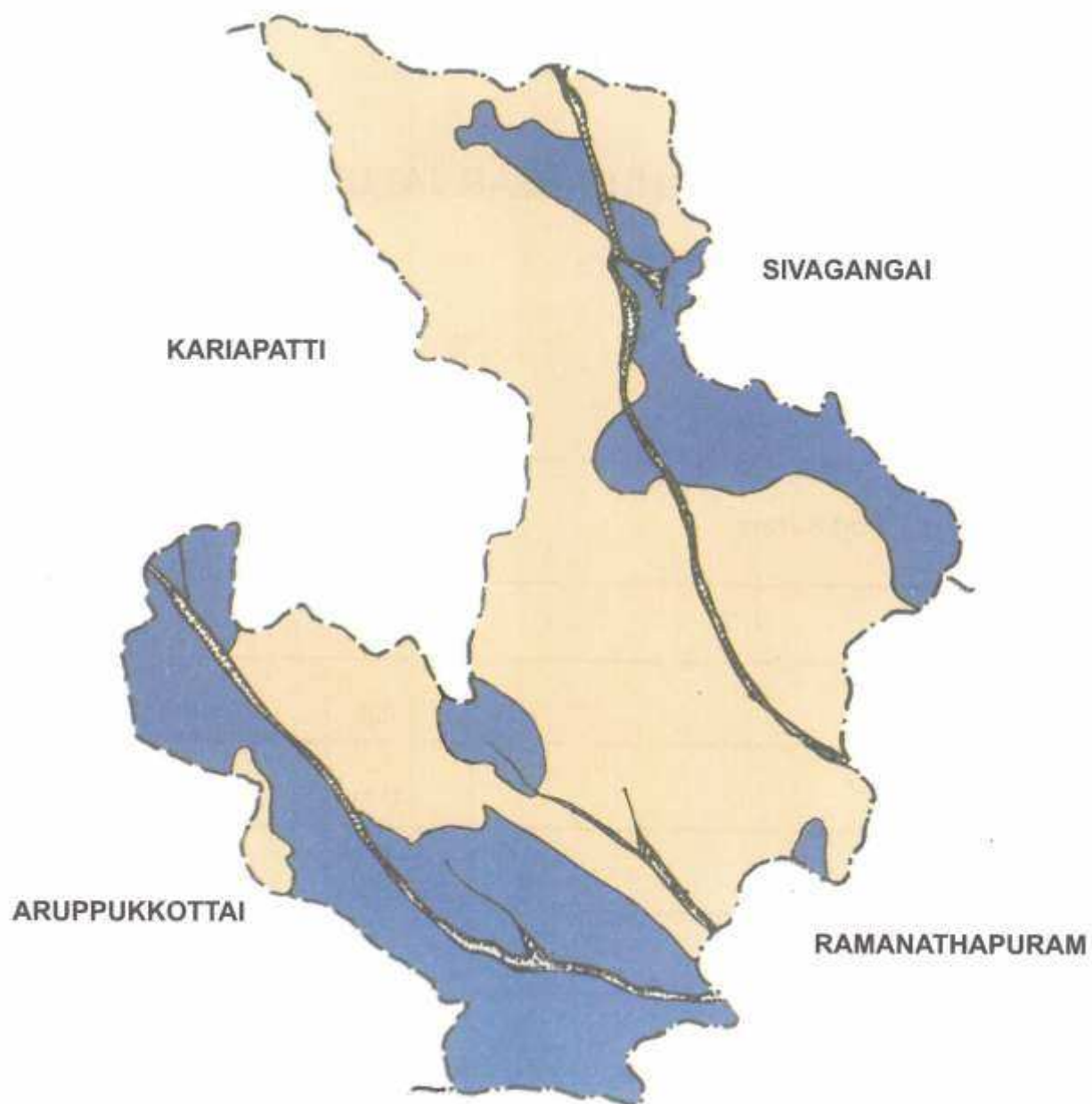
SUITABILITY FOR RICE

TIRUCHULI TALUK

S.No.	Suitability Class	Area (ha)
1.	Moderately Suited	30946
2.	Marginally Suited	8110

SUITABILITY FOR RICE

TIRUCHULI TALUK



REFERENCE

- . — DISTRICT BOUNDARY
- TALUK BOUNDARY

LEGEND

-  Moderately Suited
-  Marginally Suited

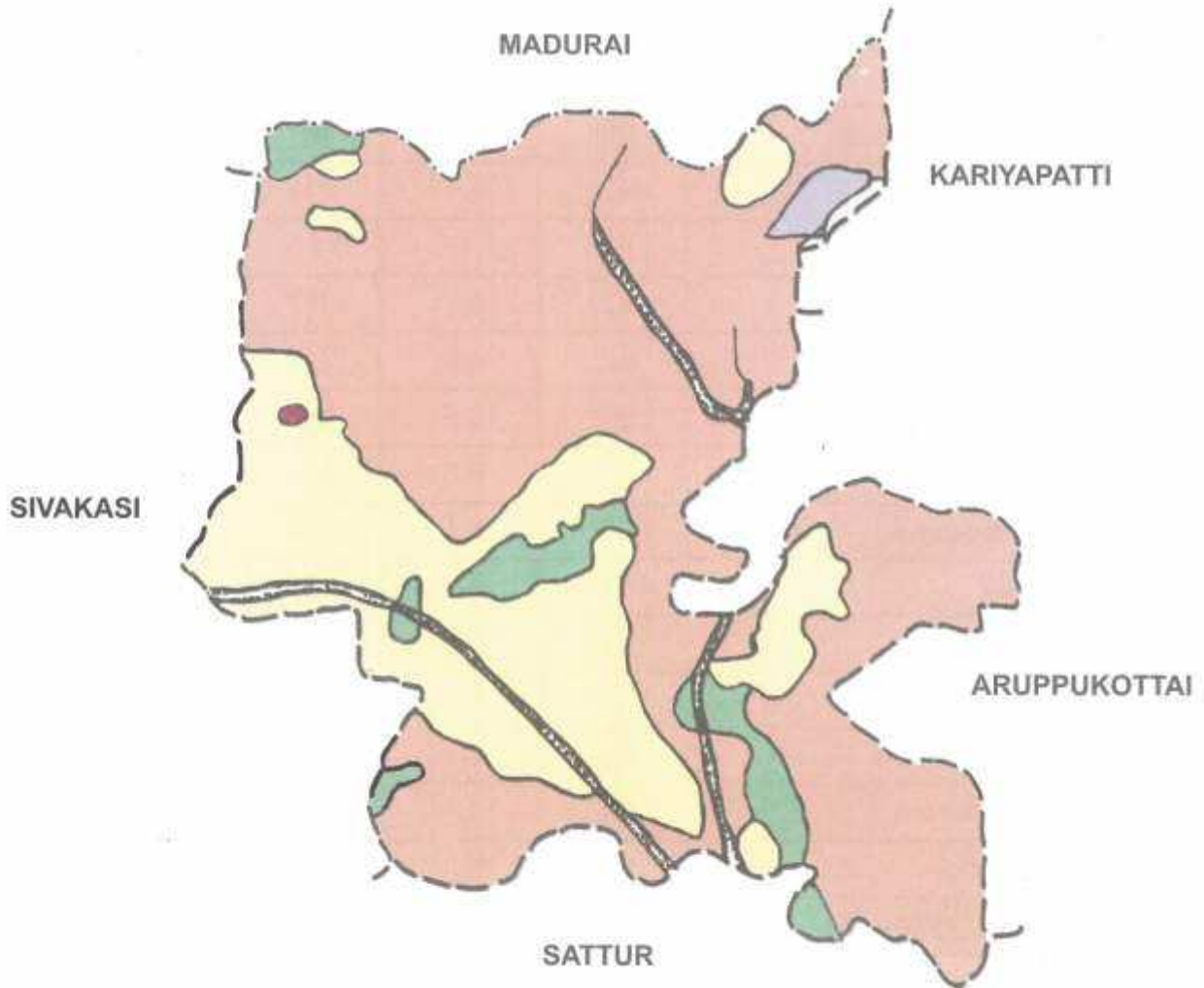
SOILS

VIRUDHUNAGAR TALUK

Soil Series	Map Symbol	Extent	
		ha	%
1. Padarnthapuli	Ppl	25483	64.34
2. Agarakkattu	Agk	10100	25.50
3. Idayankulam	Ikm	3400	8.58
4. Poigai	Pgi	330	0.83
5. Mekkarai	Mkr	200	0.50
6. Kallurani	Kin	100	0.25
TOTAL		39613	100.00

SOILS

VIRUDHUNAGAR TALUK



REFERENCE
- . - DISTRICT BOUNDARY
- - - - - TALUK BOUNDARY

LEGEND

-  PADARNTHAPULI
-  AGARAKATTU
-  IDAYANKULAM
-  POIGAI
-  MEKKARAI
-  KALLURANI

VILLAGE-WISE FERTILITY STATUS AND DOMINANT SOIL SERIES

VIRUDHUNAGAR TALUK

Village	Fertility Status (kg/ac)			Dominant Soil Series
	N	P	K	
1. Allampattai	63	6.1	422	Ppl
2. Chathirareddipatti	62	4.9	205	Ppl, Agk
3. Periyaperali	63	5.0	208	Ppl
4. Chinnamooppampatti	65	5.4	217	Ppl
5. Rosalpatti	65	5.4	217	Ppl
6. Muthuramanpatti	67	1.47	171.5	Ppl
7. Kottapatti	62	5.2	187	Ppl
8. Virudunagar	62	4.9	200	Ppl
9. Pelampatti	67	10.5	366	Ppl
10. Ellinganayakkanpatti	67	6.6	356	Ppl
11. Sengundrapuram	66	6.4	338	Ppl
12. Moolipatti	62	5.2	187	Ppl
13. Pavaali	64	6.0	305	Ppl
14. Seeniyapuram	62	4.6	201	Ppl
15. Vadamalaikuruchi	62	4.7	203	Ppi
16. Sivaganapuram	69	7.7	260	Ppl
17. Pullalakkottai	69	5.3	257	Ppl
18. Nattarmangalam	60	5.0	296	Ppl, Ikm
19. Aamathur	82	5.0	233	Ppl
20. Karicheri	65	5.9	365	Ppl
21. Maruluthu	78	15.5	98	Ppl, Agk
22. Varaiputtanpatti	62	6.4	265	Ppl, Agk
23. Pattampudur	64	6.0	384	Ppl, Agk
24. Mettukundu				
25. Kadambankulam	65	5.1	287	Ppl, Agk
26. Sennalkudi	63	5.3	140	Ppl, Agk
27. Endapuli	63	4.4	325	Ppl, Agk
28. Kovilveearpatti	63	6.2	228	Ppl, Ikm
29. Valayapatti	62	5.0	299	Ppl, Ikm

Village	Fertility Status (kg/ac)			Dominant Soil Series
	N	P	K	
30. Kottanatham	62	4.7	159	Ppl, Ikm
31. Chettipatti	61	5.7	336	Ppl
32. Kalangaperi	63	6.1	205	Ppl
33. Vatchakarapatti	64	5.9	236	Ppl, Agk
34. Thulukkappatti	67	7.0	225	Ppl, Agk
35. Aavudayapuram	66	5.3	289	Agk
36. Mannarkottal	64	4.8	297	Ppl, Ikm
37. Kottaivur	62	5.1	210	Ppl, Ikm
38. Puduppatti	60	5.1	274	Ppl, Ikm
39. V. Sundaralingapuram	54	4.5	199	Ppl
40. Appanayakkanpatti	63	6.3	412	Ppl, Ikm
41. Meesalur	63	6.2	257	Ppl, Agk
42. Thathampatti	63	6.2	338	Ppl, Agk
43. Azhagapuri	66	6.3	482	Ppl, Agk
44. Kooraikundu	62	5.6	111	Ppl, Agk
45. Puliyangulam	67	4.5	195	Agk, Ikm
46. Kasireddiyapatti	64	6.0	300	Agk,
47. Paachakkulam	62	5.6	83.3	Agk, Ikm
48. Ondippalinayakkanoor	58	4.9	229	Agk, Ikm
49. V. Muthulingapuram	61	5.3	319	Agk, Ikm
50. V. Chokkalingapuram	63	4.4	311	Ppl
51. Chinnavadi	62	6.0	238	Ppl
52. K. Pudur	47	18.0	217	Agk
53. Thammanayakkanpatti	64	6.1	299	Agk

LAND CAPABILITY

VIRUDHUNAGAR TALUK

Area (ha)	Land Capability Classification	Soil series	Limitation	Needs
10100	lls	Agarakkattu	Moderate alkalinity crusting	Addition of organic manures
200	lle	Mekkarai	Erosion	Erosion control
3730	llse	Idayankulam Poigai	Surface coarse texture erosion	Addition of tank silt and organic manures, erosion control
25483	llsw	Padarnthapuli	Alkalinity, heavy texture calcareousness wetness	Selection of crops, application of iron pyrite, drainage improvement
100	IVse	Kallurani	Shallow depth erosion	Selection of suitable crops, erosion control

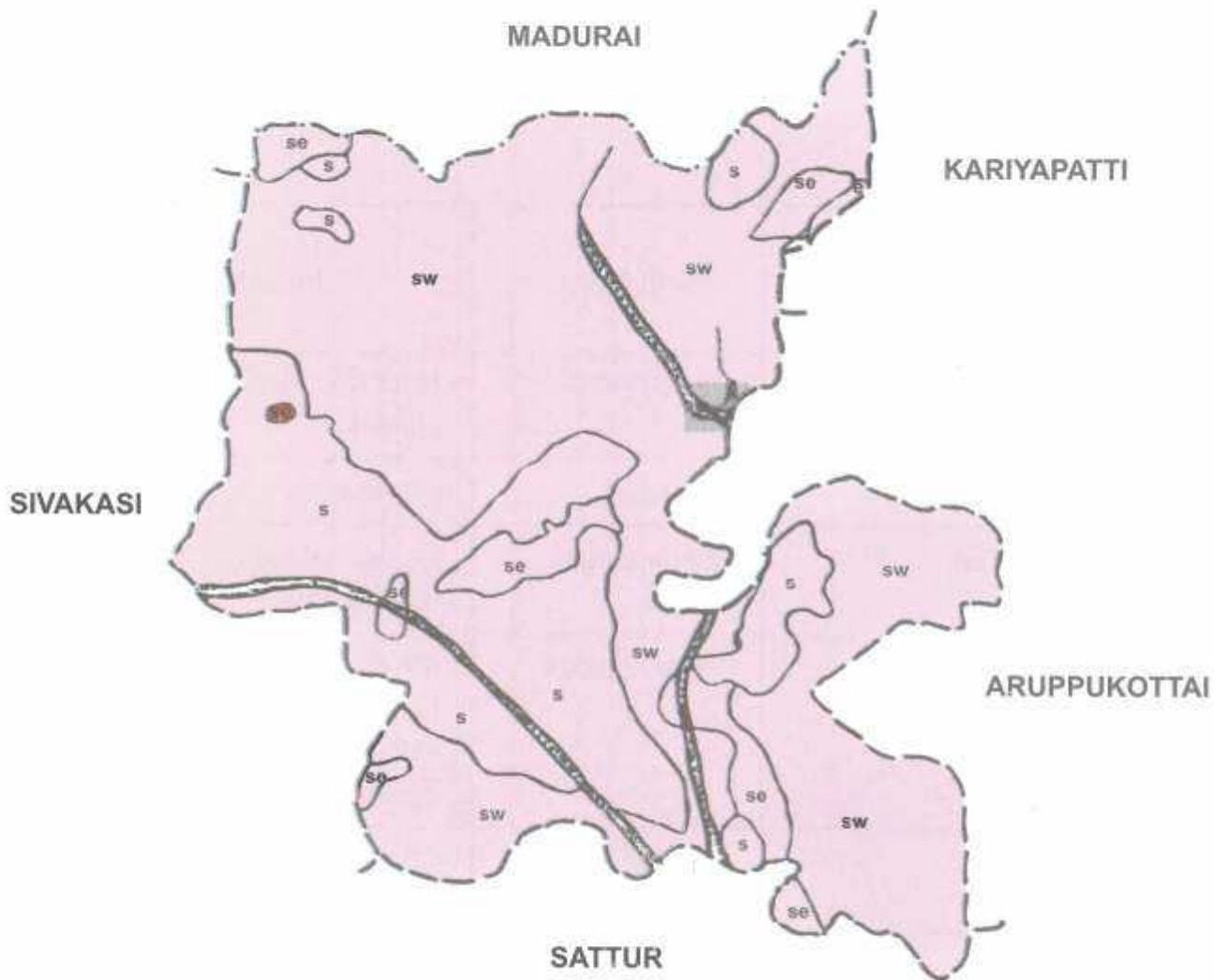
Class

- III Moderately good cultivable lands that have severe limitations for sustained use under agriculture.
- IV. Lands that have very severe limitations for sustained use under agriculture.

Sub class

- s - Root zone limitations
- e - Erosion and runoff
- w - Wetness

LAND CAPABILITY VIRUDHUNAGAR TALUK



REFERENCE
 - . - DISTRICT BOUNDARY
 - - - - - TALUK BOUNDARY

LEGEND

CLASS

 Severe Limitation
 Very Severe Limitation

SUB CLASS

s Root Zone Limitation
 e Erosion and Runoff
 w Wetness

LAND IRRIGABILITY

VIRUDHUNAGAR TALUK

Area (ha)	Land Irrigability Classification	Soil Series	Limitation
10100	3 s	Agarakkattu	Moderate alkalinity, crusting
200	3t	Mekkarai	Topography
3730	3st	Idayankulam Poigai	Coarse texture topography
25483	3sd	Padarnthapuli	Alkalinity heavy texture calcareousness drainage hazard
100	4st	Kallurani	Shallow depth topography

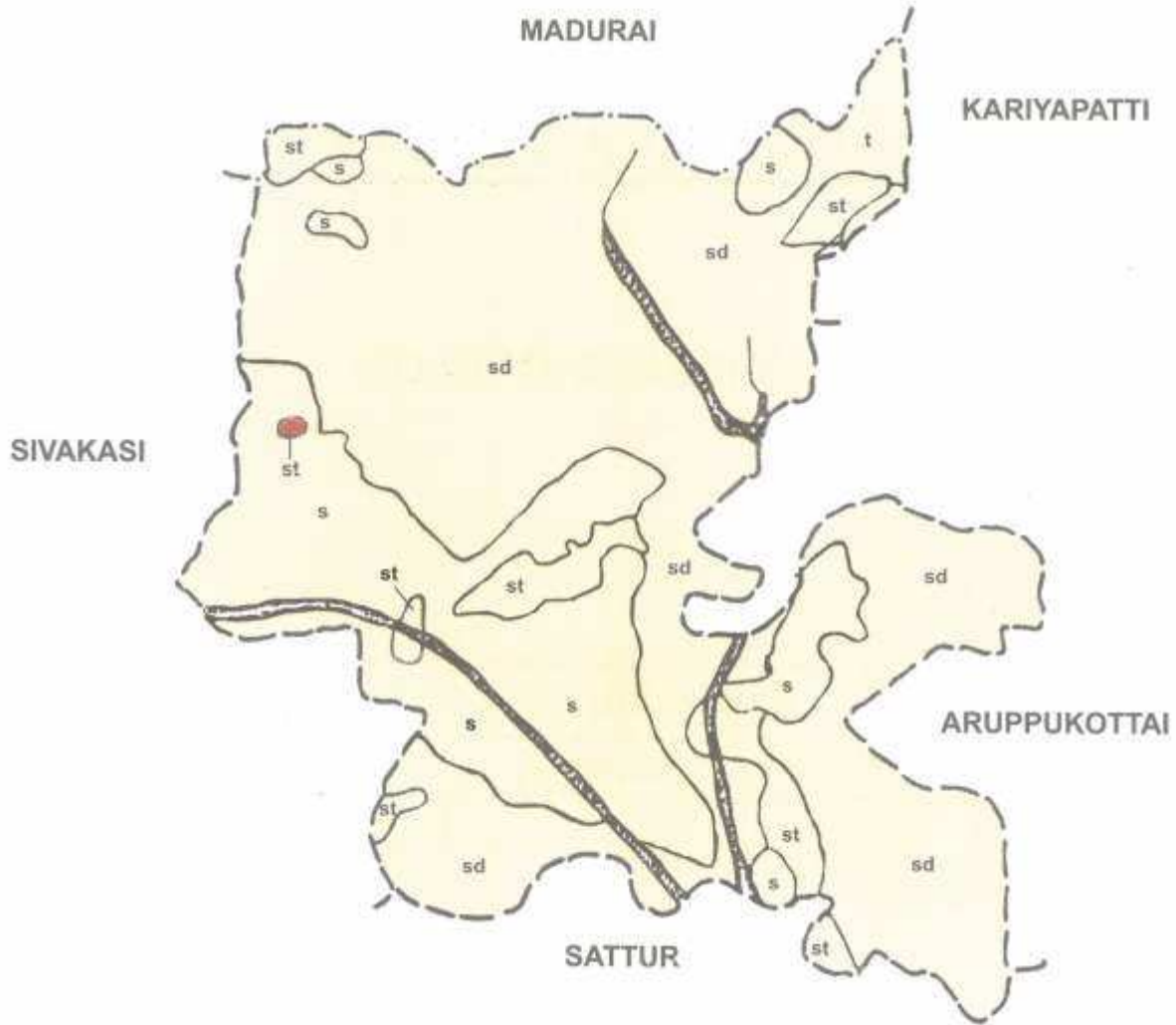
Class

3. Lands that have severe limitations for sustained use under irrigation.
4. Lands that have very severe limitations for sustained use under agriculture.

Sub class

- s - Soil limitation
- t - Topographical limitation
- d - Drainage hazard

LAND IRRIGABILITY VIRUDHUNAGAR TALUK



REFERENCE
 - . - DISTRICT BOUNDARY
 - - - - - TALUK BOUNDARY

LEGEND

CLASS

- Severe Limitation
- Very Severe Limitation

SUB CLASS

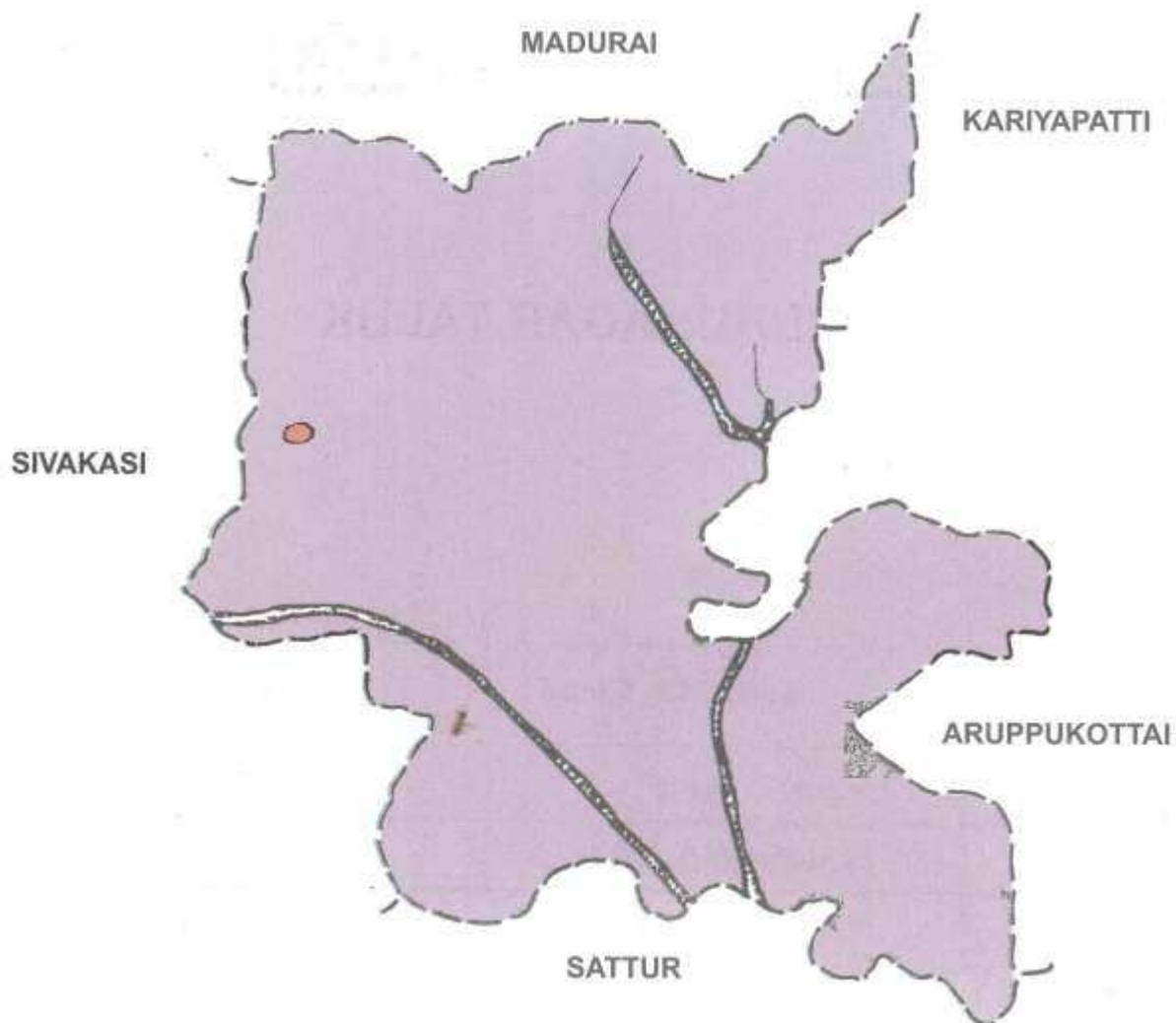
- s Soil Limitation
- t Topographic Limitation
- d Drainage Hazard

SOIL PRODUCTIVITY

VIRUDHUNAGAR TALUK

Area (ha)	Productivity		Soil series
	Rating	Grouping	
100	8-19	Poor	Kallurani
39513	20 – 34	Average	Padarnthapuli Agarakkattu Idayankulam Poigai Mekkarai

SOIL PRODUCTIVITY VIRUDHUNAGAR TALUK



REFERENCE

- · - DISTRICT BOUNDARY
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LEGEND

-  Average
-  Poor

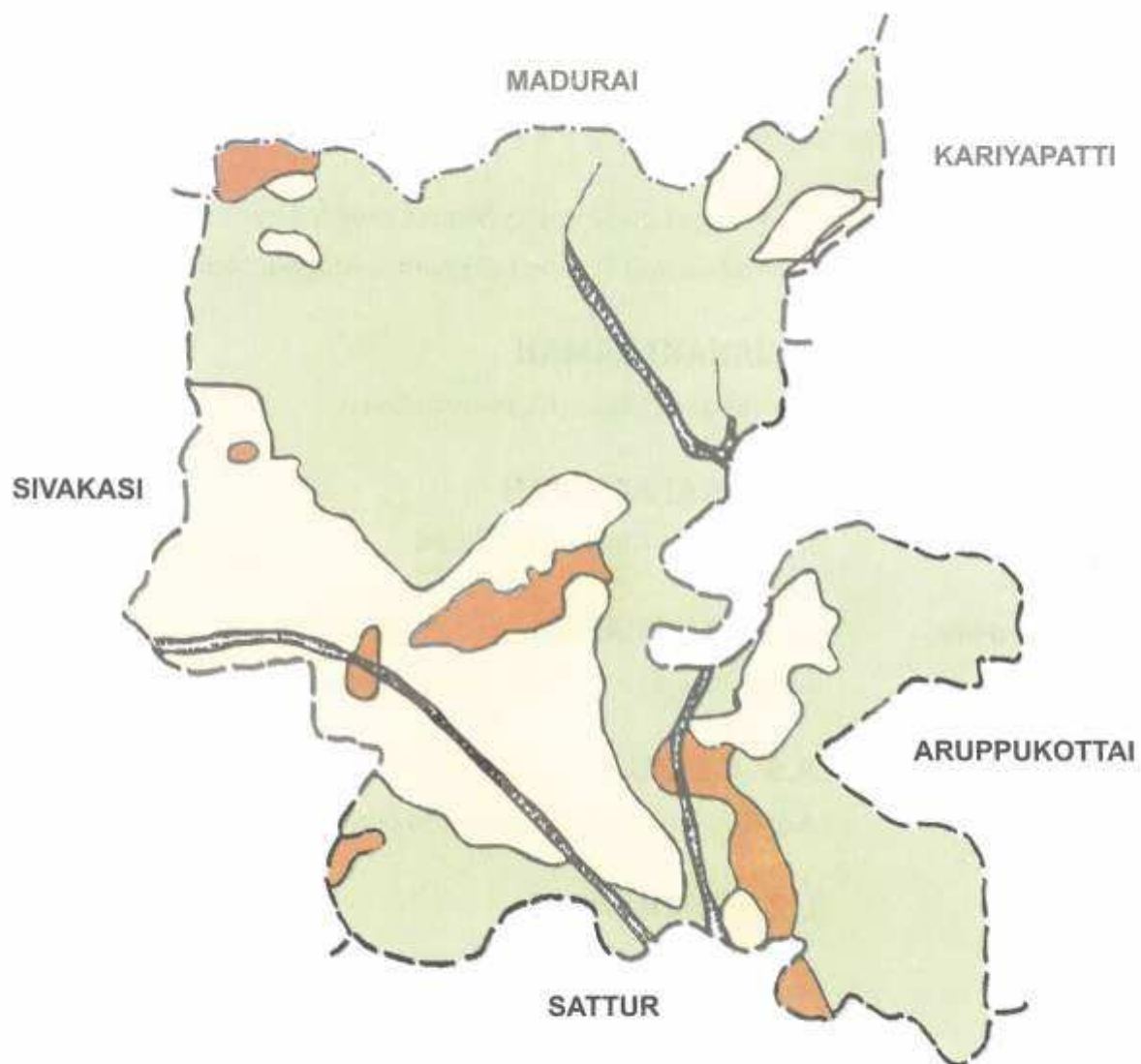
SUITABILITY FOR COTTON

VIRUDHUNAGAR TALUK

S.No.	Suitability Class	Area (ha)
1.	Highly Suitable	25483
2.	Moderately Suitable	10630
3.	Marginally Suitable	3500

SUITABILITY FOR COTTON

VIRUDHUNAGAR TALUK



REFERENCE

— • — DISTRICT BOUNDARY

----- TALUK BOUNDARY

LEGEND

-  Highly Suited
-  Moderately Suited
-  Marginally Suited

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Published by SS & LUO, Palayamkottai
- ii) Village Level Fertility Status Compiled by
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