



SOIL ATLAS

TIRUNELVELI DISTRICT



SOIL SURVEY & LAND USE ORGANISATION
(DEPARTMENT OF AGRICULTURE TAMIL NADU)

PALAYAMCOTTAI 627 007

1998



SOIL ATLAS **TIRUNELVELI DISTRICT**

SOIL SURVEY & LAND USE ORGANISATION
(DEPARTMENT OF AGRICULTURE TAMIL NADU)
PALAYAMCOTTAI 627 007

1998

வீரபாண்டி எஸ். ஆறுமுகம்

வேளாண்மைத் துறை அமைச்சர்



தலைமைச் செயலகம்
சென்னை 600 009

அணிந்துரை

தமிழ்நாடு வேளாண்மைத் துறையில் உள்ள வேதியியல் பிரிவு தமிழக வேளாண் பெருங்குடி மண்ணின் தேவையை அறிந்து மண்வள தொகுப்பேடு ஒன்று தயாரித்து இருப்பது பாராட்டுக்குரிய செயலாகும்.

வேளாண்மைக்கு அடித்தளமாய் அமைவது நிலமும், நீரும் ஆகும். மண்ணின் வகைகளை அறிந்து அதன் வளத்தை தெரிந்து கொண்டு, அதற்கேற்ற பயிர் வகைகளை பயிர் செய்வதால் உற்பத்தி திறன் அதிகரிப்பதோடு, மண் வளமும் பாதுகாக்கப்படுகிறது. சங்க காலத்தில் மண்வளத்தை அறிந்து கொள்ள குறிஞ்சி, முல்லை, மருதம், நெய்தல் என நம் முன்னோர்களால் நிலப் பாகுபாடுகளை அறிந்து வைத்திருந்தார்கள். பிற்காலங்களில் மண்ணை, செம்மண் என்றும், கரிசல் மண் என்றும், வண்டல் மண் என்றும், மணற்பாங்கான மண் என்றும், மண்ணின் தன்மைக்கு ஏற்ப பிரித்து வைத்திருந்தார்கள். பண்டைய காலங்களில் மண் பாகுபாடு செய்வது தேவையற்ற ஒன்றாக கருதப்பட்டாலும், இன்றைய சூழ்நிலைக்கு மண் பாகுபாடு மிகவும் அவசியமாகிறது. வளர்ந்து வரும் மக்கள் தொகைக்கு ஏற்ப உணவு உற்பத்தியை பெருக்க மண் வரை தொகுப்பு வேளாண்மை ஆராய்ச்சியாளர்களுக்கும், விரிவாக்க அலுவலர்களுக்கும் மிகவும் பயன் உள்ளதாக இருக்கும் என நம்புகிறேன்.

இத்தொகுப்பினை வெளியிட நடுபட்ட அனைத்து அலுவலர்களுக்கும் எனது பாராட்டுக்களையும், வாழ்த்துக்களையும் தெரிவித்துக் கொள்கிறேன்.

அன்புடன்,

வீரபாண்டி.எஸ்.ஆறுமுகம்
29.4.2023

ஈ. ஆதிபுலம், இ.ஆ.ப.
அரசு செயலர்



வேளாண்மைத் துறை
சென்னை 600 009

அணிந்துரை

மண்வளமும் மனித வளமும் ஒரு நாட்டிற்கு இன்றியமையாதன ஆகும். இன்னும் சொல்லப்போனால் நிலத்து மண் ஆனது மனிதச்சீர்தையின் பிரதிபலிப்பு ஆகும். ஏனெனில் அதிலே மனித நாகரீகத்தின் மாட்சியையும் வீழ்ச்சியையும் எடுத்துரைப்பதாக இருந்து வந்துள்ளது. இதற்குச் சரித்திரச் சான்றுகளும் பல உண்டு. இப்படித்தான் பெருமை படைத்த மண்வளம் பற்றிய விவரங்களை தெரிப்படுத்தி அண்டியோர்க்குப் பயன் அளிக்கும் வகையில் அறையச் செய்வது காவத்தின் கட்டாயமாகும். அதிலும் குறிப்பாக ஒன்பதாவது ஐந்தாண்டுத் திட்டத்தின் துவக்கத்திலேயே இப்பணி நடைபெறுவது சாலச்சிறந்தது ஆகும். ஏனெனில் இத்திட்டப் பெரு நோக்கங்களில் ஒன்றாக மண்வளம் சார்ந்த இனங்களை அடையாளம் கண்டு செயல்படுவது மிகவும் வலியுறுத்தப்பட்டுள்ளது.

எனவே, மாவட்ட வாரியாக மண்வள ஆதாரங்களைத் தொகுக்கும் முயற்சி மேற்கொள்ளப்பட்டது. இப்பணி நான் வேளாண்மை இயக்குநராகப் பொறுப்பில் இருந்த காலத்தில் முடிக்கப்பட்டது. தமிழ்நாட்டில் அப்போதிருந்த 15 மாவட்டங்களுக்கும் தனித்தனியே மண்வளத் தொகுப்புகள் தயாரிக்கப்பட்டன. ஆயினும் அவை வரைவு நகல்களாகவே இருந்து வந்துள்ளன. அதனால் அதன் பயனை நுகர மிகச் சிலருக்கே வாய்ப்பு கிட்டியது.

இத்தொகுப்பேட்டில் விரலிக்கிடக்கும் விவரங்கள் சரிய திட்டமிடலுக்கு அடித்தளமாக அமைகின்றன. ஓரிடத்தில் நிலவும் தட்பவெப்ப நிலை, பாசன வளம், பயிர் சாகுபடி விவரங்கள், மண் வகைகள் அவற்றின் விளைதிறன், ஏற்புடைய பயிர்கள் பற்றிய விளக்கங்கள் இடம்பெற்றுள்ளன. ஆக இவற்றின் அடிப்படையில் அமல்படுத்தப்படும் உற்பத்திப் பெருக்குத் திட்டங்கள் அபரிமித வெற்றி அளிப்பதில் ஆச்சரியமில்லை. உதாரணமாக அண்மையில் மணிகண்டம் ஒன்றியத்தில் நிறைவேற்றப்பட்ட வேளாண் வானியல் வளிமண்டலத் திட்டத்தினைச் சொல்லலாம். இத்திட்டத்தின் முதன்மைச் செயல் அம்சமாக இப்பகுதி நிலங்கள் தெரிப்படுத்தப்பட்டன. இத்தகைய அணுகுமுறையினால் களர்த்தன்மை உடைய இப்பகுதி நிலங்களில் சீர்த்திருத்தம் மேற்கொண்டபின் மகதவானது எக்டேருக்கு 400 கிலோ முதல் 700 கிலோ வரை உயர்ந்துள்ளது என்பது பெருமைக்குரியதாகும்.

மிக் பயன் அளிக்கவல்ல இத்தொகுப்பேட்டு விவரங்களினை உற்பத்தி முனைவோர் அனைவரும் பெற்றிட இதனை அச்சிடும் பணிக்கு ரூ. 10.5 இலட்சம் அனுமதித்து தமிழ்நாடு அரசு ஆணையிட்டுள்ளது. அதன் தொடர் நிகழ்வாகவே ஏட்டளவில் இருந்த இத்தொகுப்பேடுகள் வண்ணமிக வடிவடனும், விவரவிபரவிடனும் அச்சேறி தற்போது நற்பயன் அளிக்கும் நிலை பெற்றுள்ளன. வேளாண்மை இயக்குநராக அன்று நான் துவக்கிய பணி, செயலராகப் பொறுப்பேற்றுள்ள இந்நாளில் மலர்ந்து மிளர்வது குறித்து மட்டற்ற மகிழ்ச்சி அடைகிறேன். அத்துடன் இத்தொகுப்பேட்டுவிவரங்கள் நான் திட்டமிடல், ஏறுமுகத் திட்டம் போன்றவற்றிற்கும் ஆதாரமாய் அமைகின்றன. புதிய சாதனைகளைத் தொடுவோரை வள்ளுவர்,

வாரிப்பெருக்கி வளங்கூட்டு உற்றவை
ஆராய் வான் எனப் பெருமைப்படுத்துவார்.

அவர் கூற்றுப்படி ஆராய முனைவோர்க்கு முன்னோடியாகவும், முதனிலைப் பின்புலமாகவும் இத்தொகுப்பேடு அமைந்துள்ளது என்பதில் பெரிதும் மகிழ்வடைகிறேன்.

இத்தொகுப்பேடு நன்கு வடிவமைக்கப்பட்டு, விவரங்கள் பயன்தரும் வகையில் தெளிவுப்படுத்தப்பட்டுள்ளமைக்குப் பொறுப்பான அனைவருக்கும் எனது பாராட்டுதலைத் தெரிவித்துக் கொள்கிறேன்.

சென்னை
17. 4. 1998

17.4.98
அரசு செயலர்
வேளாண்மைத்துறை



அணிந்துரை

நில மடந்தை நமக்கு அளித்துள்ள இயற்கை வளங்களில் மிக முன்மையானது மண்வளம் ஆகும். அத்துடன் தமிழர் வாழ்வியலில் மண்ணும் மனிதனும் பின்னிப் பிணைந்தே பேசப்படும். எனவே தான் மண்வகைகளைப் பற்றியும், அவற்றின் சாதக பாதகத் தன்மைகள் பற்றியும் சங்க கால இலக்கியங்கள் விரிவாகவே பேசுகின்றன. பிற்கால அறிவியல் முன்னேற்றம் காரணமாக ஆய்ந்தறிந்து பெறப்பட்ட உண்மைகளும் முந்தையனவைப் பெரிதும் ஒத்து இருந்தமை ஆனது பண்டைத் தமிழரின் அறிவியல் மேன்மையை எடுத்துக் கூறுவதாக அமைந்துள்ளது.

மண்வளங்களைப் பயன்படுத்துவது என்பது சமுதாயக் கட்டாயங்களினால் ஏற்பட்டதாகும். விரிந்து வரும் மக்கள் தொகை பெருகி வரும் உணவுத் தேவைகள் மற்றும் கருங்கீ வரும் சாகுபடிப் பரப்பு ஆகியவை இவற்றுள் அடங்கும். இந்த வகையில் பல மண்வகையிட்டு முயற்சிகள் தேசிய அளவிலும், மாநில அளவிலும் எடுக்கப்பட்டுவந்துள்ளன. அந்தாட்களில் சென்னை இராஜதானியில் நடத்தப்பட்ட மண்வகையிட்டுமுயற்சி இதன் துவக்கம் எனலாம். இதுவும் பின்னர் நடத்தப்பட்ட திட்டங்களும், குறிப்பிட்ட நோக்கத்திற்காகவே அமல் செய்யப்பட்டன. இதன் உச்சக்கட்டமாக 1960 ம் ஆண்டில் தரமான மண்வகையிட்டுத் திட்டம் ஒன்று மண்வகைகளின் தன்மைகளை விரிவாகவும் விளக்கமாகவும் கூர்ந்தாய்வு செய்திட அறிமுகம் செய்யப்பட்டது.

தமிழ்நாட்டு மண்வள ஆதாரங்களை விளக்கும் வரைபடங்கள் தயாரிக்கும் பணியில் வேளாண் துறையின் வகையிட்டுஅவகைகள் பணிக்கப்பட்டன. இவைகள் நடத்திய துவக்க மண்வகையிட்டு மூலம் பெறப்பட்ட மண்வள ஆதார விவரங்கள் மாவட்ட வாரியாகத் தொகுக்கப்பட்டன. இவை மாவட்ட வளர்ச்சிக்கான திட்டமிடலுக்கு உதவுகரமாக அமைந்துள்ளன. எனினும் வெறும் வரைவு ஏடுகளாகவே இருந்து வந்த இத்தொகுப்பேடுகளை அனைவரும் பெற்றிடும் வகையில் அச்சப் பதித்து வெளியிட தமிழ்நாடுஅரசு ரூ. 10.5 இலட்சம் நிதி அனுமதித்துள்ளது. இந்த இனிய துவக்கமாகவே மாவட்ட மண்வளத் தொகுப்பேடுகள் தற்சமயம் வெளியிடப்பட்டுள்ளன. இத்தொகுப்பேடுகளில் உணவு உற்பத்திக்கான ஊக்க முயற்சிகளுக்கு போதுமான நிலம் மற்றும் அதனைச் சார்ந்த அனைத்து விவரங்களும் இடம் பெற்றுள்ளன. நீர்ப்பாசனம், தட்பவெப்பச்சூழல், பயிர் வகைகள் விளைதிறன் ஆகிய விவரங்களின் அடிப்படையில் கிராம அளவிலான நுண் திட்டமிடல், ஏறுமுக வளர்ச்சித்திட்டம், பஸ்துறை பஸ்கேற்புத் திட்டம் போன்ற முயற்சிகள் அமல் செய்யப்படுவதற்கான இடங்களை அடையாளம் காண இத்தொகுப்பேடு பெரிதும் உதவும்.

பெரும்புயன் தரவல்ல இத்தொகுப்பேட்டினை உருவாக்கி, தொகுத்து வடிவமைத்து வெளியிட உதவிய அனைவர்க்கும் எனது பாராட்டுதல்களை மகிழ்ச்சியுடன் தெரிவித்துக் கொள்கிறேன்.

க. அருள்மொழி

CONTENTS

	Page
1. About the Soil Atlas	1
2. Location	2
3. Taluks & panchayat unions	4
4. Roads & railways	6
5. Geology	8
6. Physiography	10
7. River basin & water shed	12
8. Rainfall	14
9. Temperature	16
10. Ombrothermic data	18
11. Land use pattern	20
12. Forests	22
13. Crop area	24
14. Cropping calendar	26
15. Sources of irrigation	28
16. Agricultural institutions	30
17. Agro industries	32
18. Animal husbandry institutions	34
19. Soils	36
i) Mayamankurichi series	38
ii) Nanguneri series	40
iii) Veeravanallur series	42
iv) Tiruvengadam series	44
v) Kadayanallur series	46
vi) Ambasamudram series	48
vii) Keelapavoor series	50
viii) Manur series	52
ix) Idayankulam series	54
x) Perumanal series	56

	xi) Uvari series	58
	xii) Taruvai series	60
	xiii) Sivalaperi series	62
	xiv) Thalaisyuthu series	64
	xv) Kallurani series	66
	xvi) Karivalam series	68
	xvii) Pathamadai series	70
	xviii) Ayaneri series	72
20.	Land capability	74
21.	Land irrigability	76
22.	Soil productivity	78
23.	Crops grown	80
24.	Soil colour	82
25.	Depth	84
26.	Texture	86
27.	Permeability	88
28.	Water holding capacity	90
29.	Erosion	92
30.	Calcareousness	94
31.	Salinity	96
32.	Soil reaction	98
33.	Cation exchange capacity	100
34.	Micronutrient status	102
35.	Ambasamudram taluk	104 - 117
36.	Nanguneri taluk	118 - 129
37.	Palayamcottai taluk	130 - 141
38.	Radhapuram taluk	142 - 153
39.	Sankarankovil taluk	154 - 167
40.	Shencottah taluk	168 - 179
41.	Sivagiri taluk	180 - 191
42.	Tenkasi taluk	192 - 205
43.	Tirunelveli taluk	206 - 219

ABOUT THE SOIL ATLAS

Agriculture play 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 land productivity on a sustained basis have to be maintained for sound production system. All inputs in the production systems can be functional only when there is soil/land which is qualitatively suitable for such purpose.

In this context, soil survey form the basic tool for agriculturI development programmes and provides information on characteristics and location of the different kinds of soils and their management potentials as well as their limitation for different purposes. Keeping this in view a data base on soils of the district have been developed through reconnaissance soil survey and this is useful for planning at regional level.

In the 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 also given at taluk level. Further, dominant kind of soil at village level and their 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 distances and therefore it is needless to say that detailed soil surveys at higher intensity are necessary for micro level development programmes.

LOCATION

Tirunelveli district is bounded on the north by Virudhunagar district, east by Tuticorin district, south by Gulf of Mannar, south west by Kanniyakumari district and west by Kerala state. The total geographical area of the district is 6823.08 sq.km and divided into nine taluks namely Ambasamudram, Nanguneri, Palayamcottai, Radhapuram, Sankarankovil, Shencottai, Sivagiri, Tenkasi and Tirunelveli.

GEOCODE

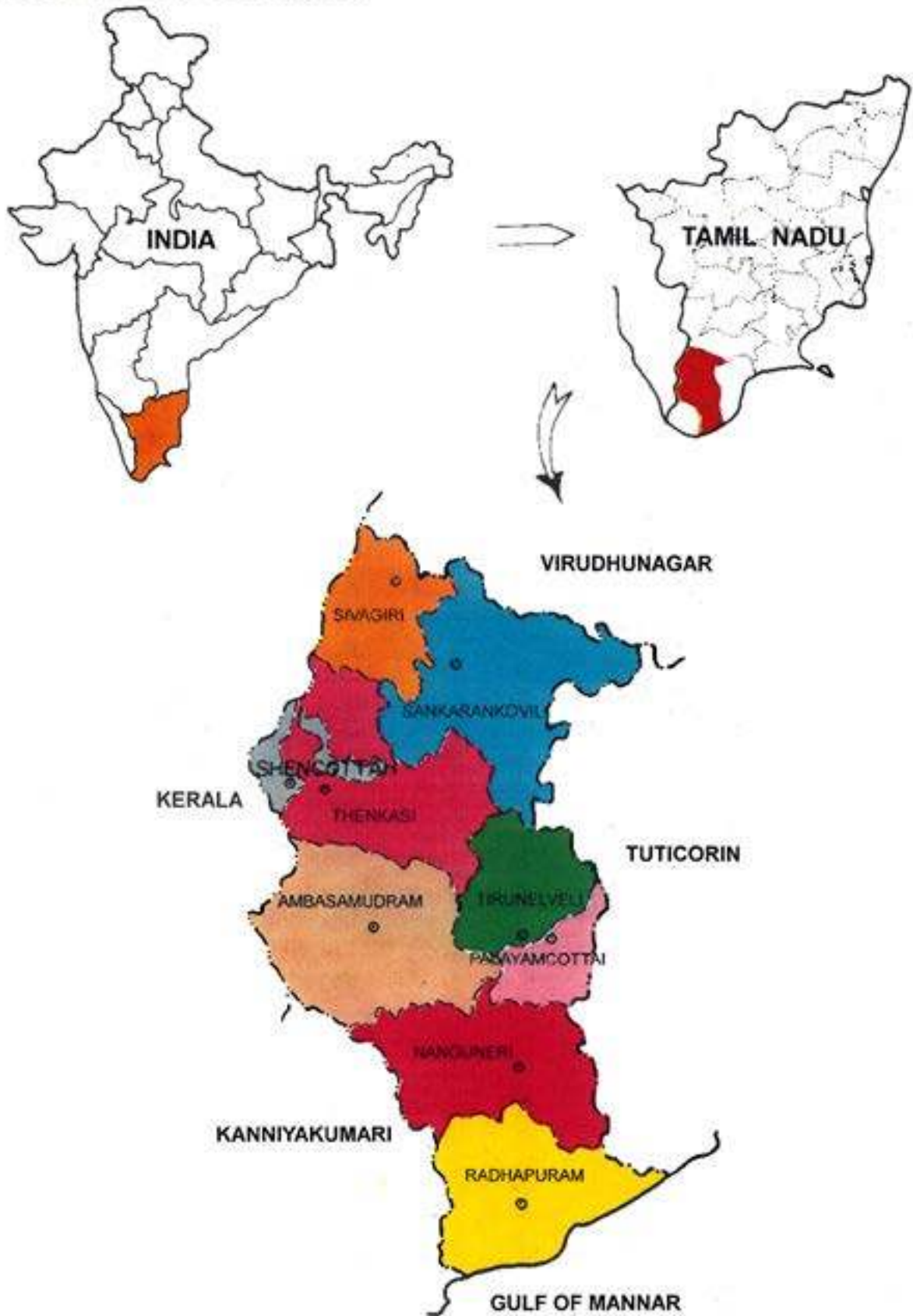
North latitude $8^{\circ}08'$ and $9^{\circ}25'$

East longitude $77^{\circ}09'$ and $77^{\circ}59'$



LOCATION MAP

TIRUNELVELI DISTRICT



ROADS & RAILWAYS

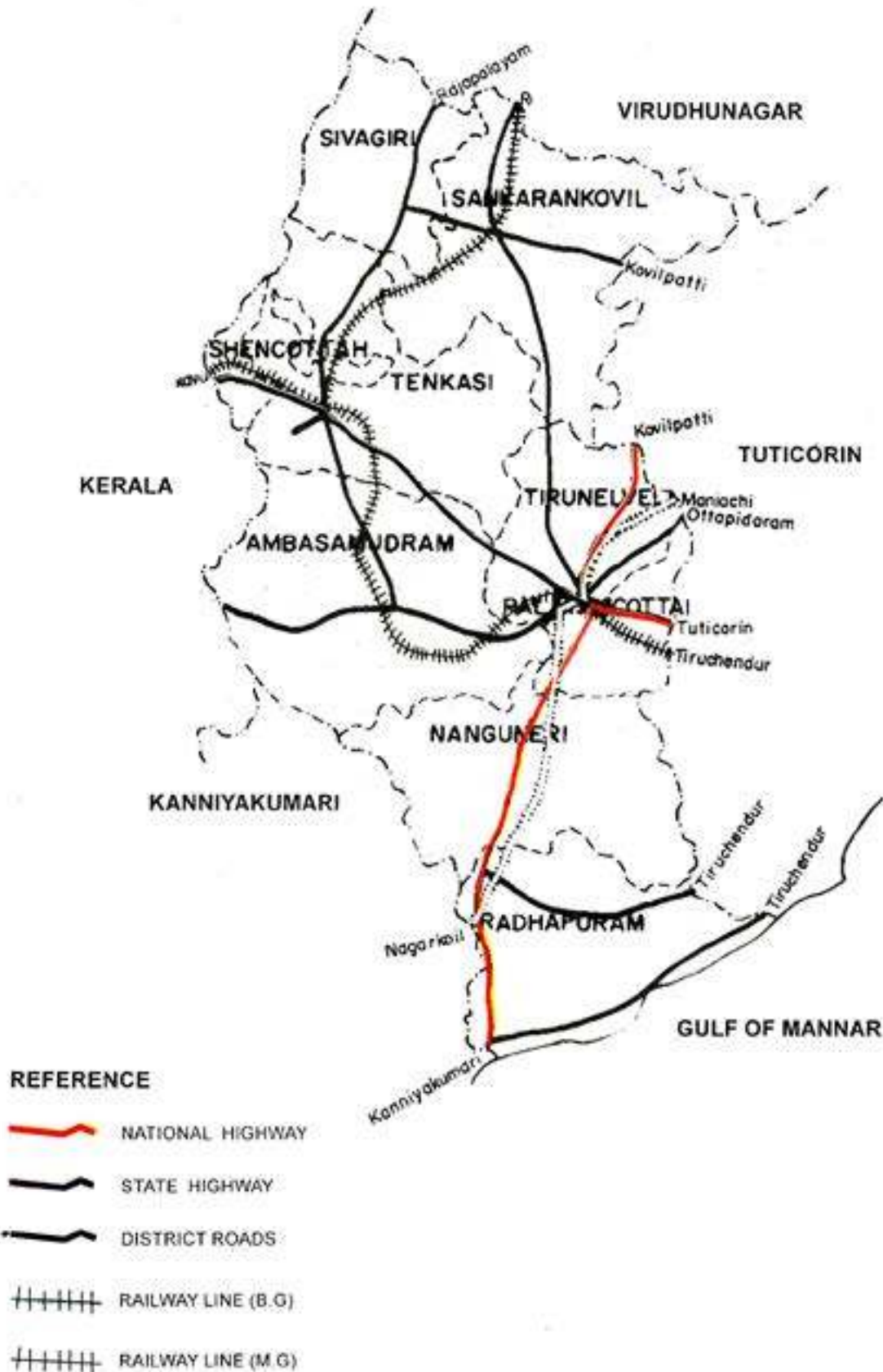
Tirunelveli district is well connected with a network of roads and railways. The important roads and railways are:

- | | |
|---------------------------------------|--|
| 1. National High ways | 1. NH7 passes through Tirunelveli, Palayamcottai, Nanguneri and valliur to a distance of 90km. |
| 2. State High ways | 1. Shencottai to Tirunelveli via Tenkasi leading to Tuticorin.
2. Tirunelveli to Tenkasi via Ambasamudram
3. Tirunelveli to Sankarankovil
4. Tirunelveli to Tiruchendur |
| 3. Southern Railways
(Metre gauge) | 1. Madurai to Quilon via Sankarankovil, Tenkasi and shencottai

2. Shencottai to Tiruchendur via Tenkasi, Ambasamudram and Tirunelveli |
| 4. Southern Railways
(Broad gauge) | Madurai to Kanniyakumari via Tirunelveli |

ROADS & RAILWAYS

TIRUNELVELI DISTRICT



GEOLOGY

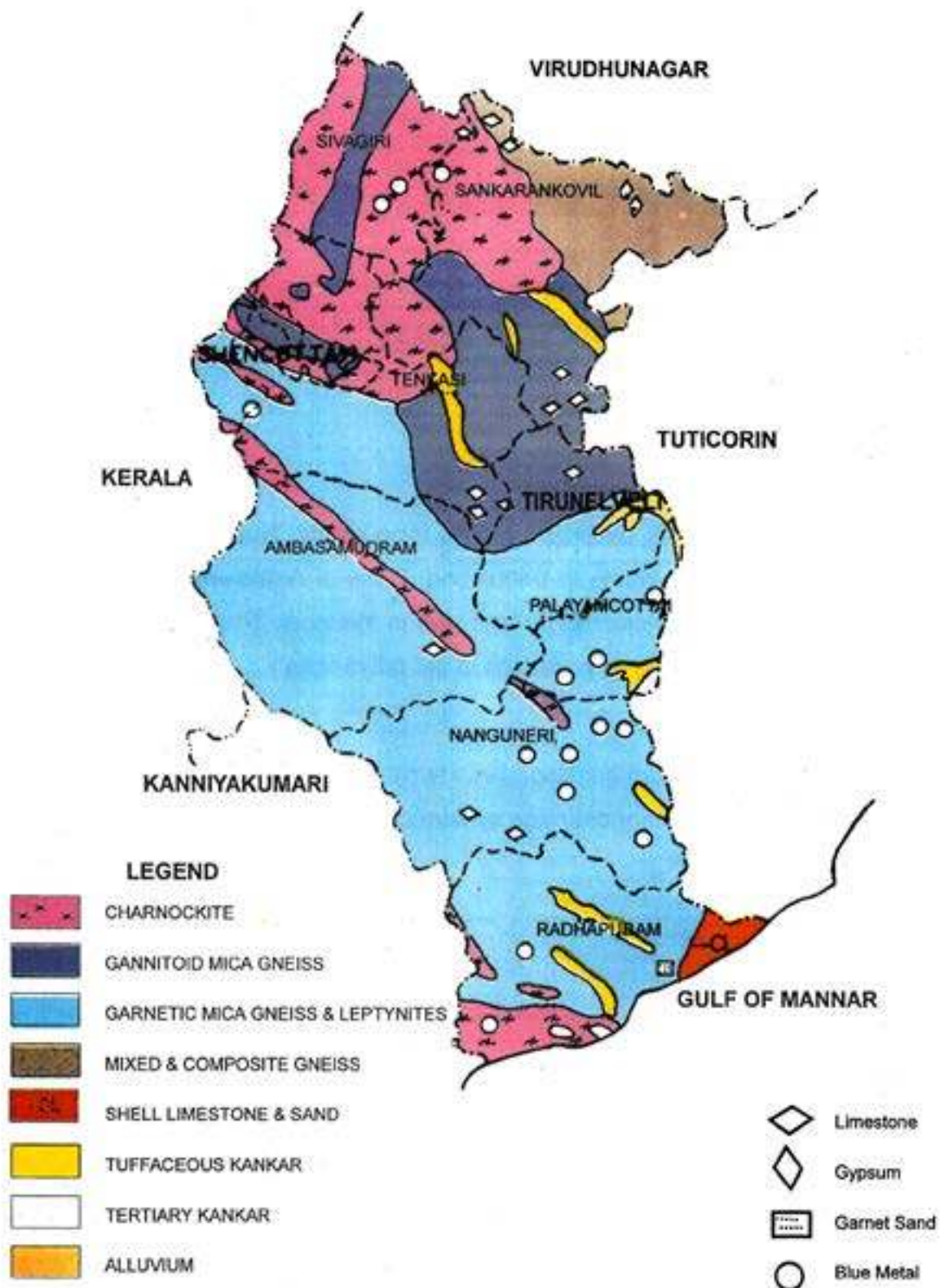
The rock types met within the district can be broadly classified into three groups as detailed below.

1. Charnockite group of rocks of Archean period with Hypersthene mainly in Sankarankovil, Sivagiri and Tenkasi taluks.
2. Gneissic group of rocks of Archean period consisting of
 - a) Granitoid mica gneiss
 - b) Granitic mica gneiss and Leptinites
 - c) Mixed and composite gneiss.
3. Shell lime stone, tuffaceous kankar, tertiary kankar, coastal and theri lands of quarternary period, recent to Holocene age.

The dominant minerals are Limestone, Gypsum, Garnet sand, Ilmenite and Blue metal.

GEOLOGY

TIRUNELVELI DISTRICT



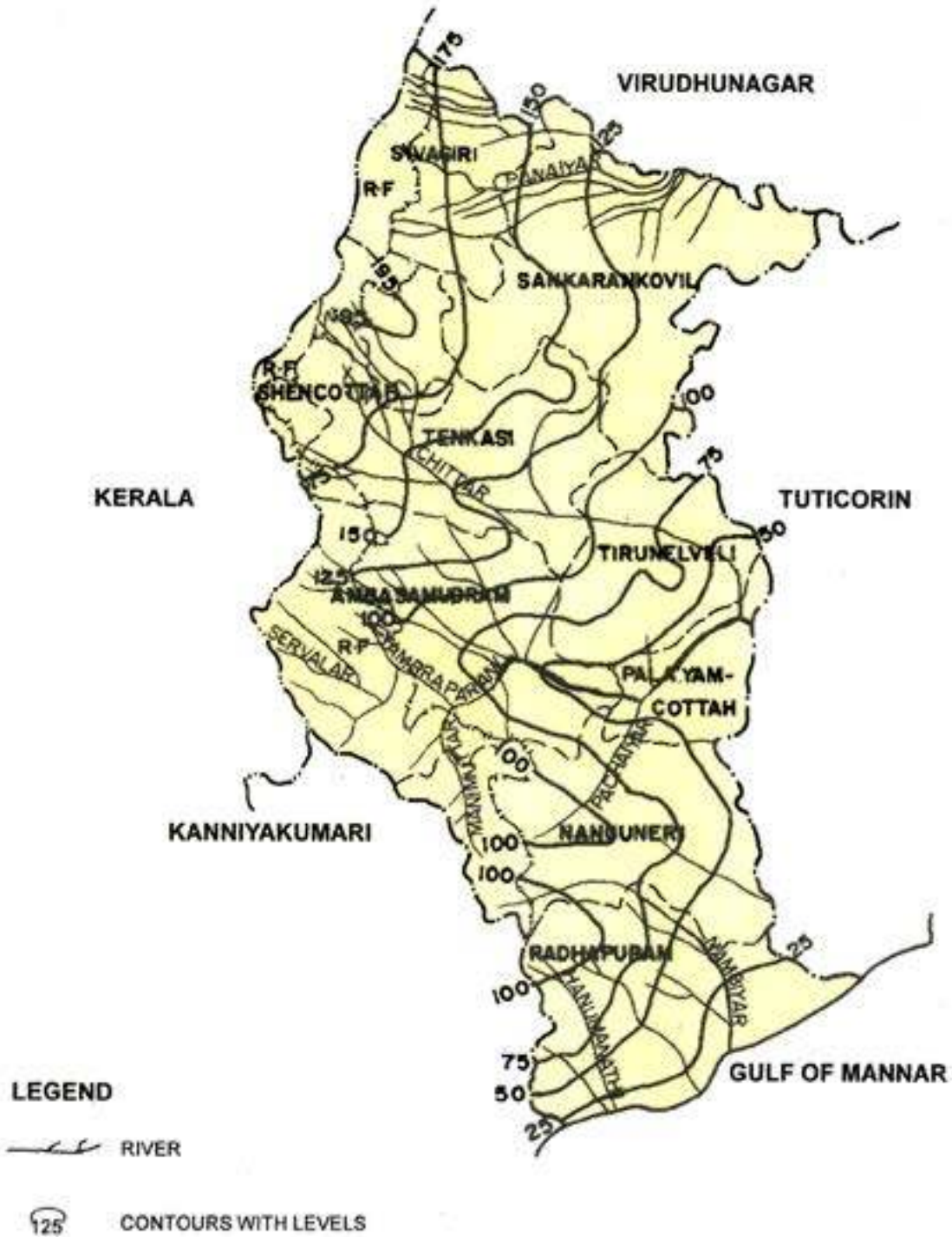
PHYSIOGRAPHY

Major portion of the district is covered by plain topography. North west and western portion of the district are gently sloping to undulating. Parts of Ambasamudram, Tenkasi, Shencottai and Sivagiri taluks are covered by high hills in the west. These hills form part of the westernghats. There are number of waterfalls in the hill ranges.

The plain area of the district can be divided into two elevating stages viz below 150 and 150 - 300m. Tamirabarani is the major drainage system covers the central part of the district.

PHYSIOGRAPHY

TIRUNELVELI DISTRICT



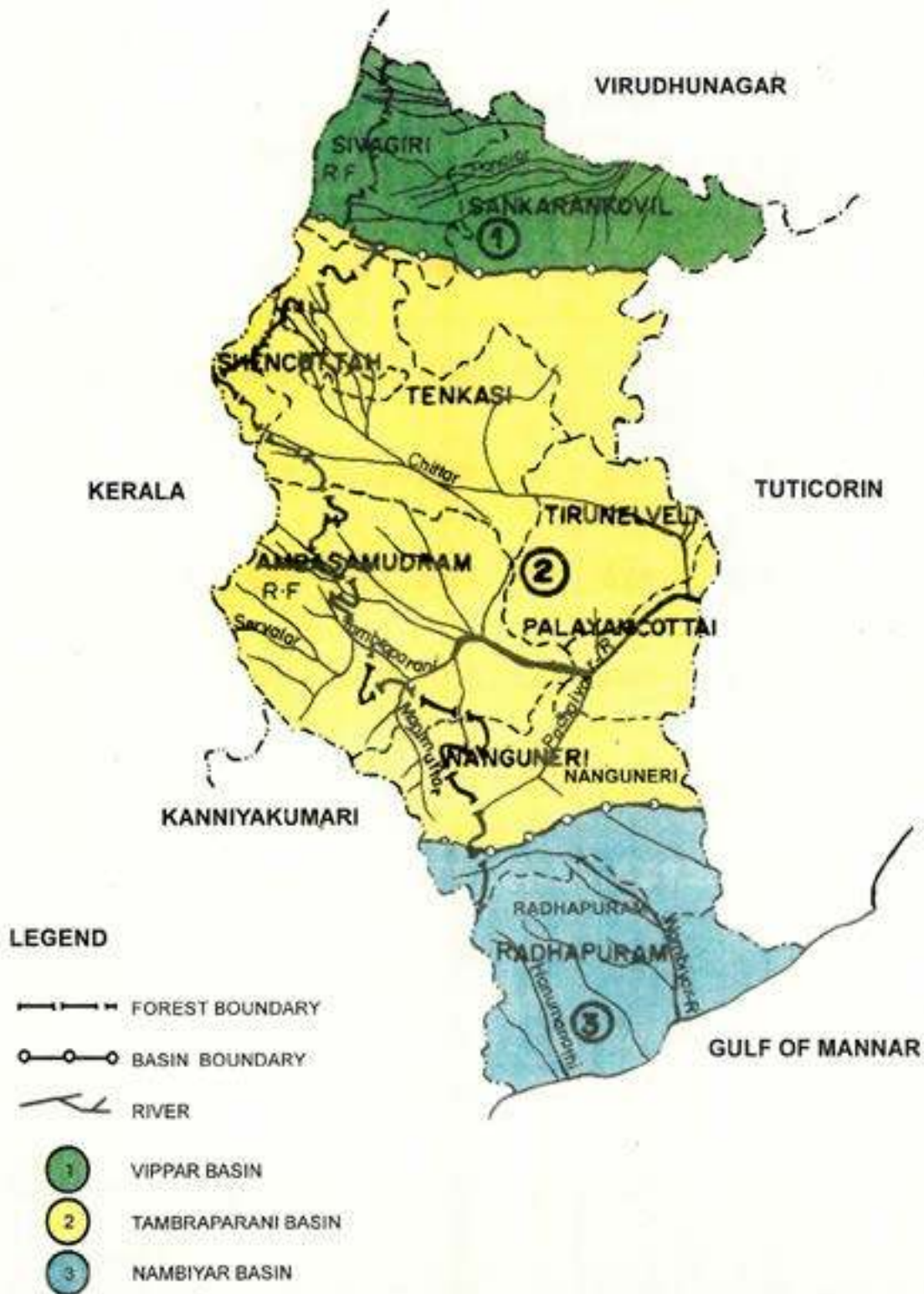
RIVERBASIN AND WATERSHED

Four important tributaries of river Tamirabarani are flowing through this district substantially benefitting the agricultural activities Besides Nambiar and Hanumanathi also contribute agriculture Vaipar acts as drainage course rather than irrigation source.

S.No.	River Basin	Taulk
1.	Tamirabarani	Ambasamudram, Tenkasi, Shencottai Tirunelveli, Palayamcottai
2.	Nambiar	Nanguneri, Radhapuram
3.	Vaipar	Sivagiri, Sankarankovil



RIVER BASIN & WATER SHED TIRUNELVELI DISTRICT



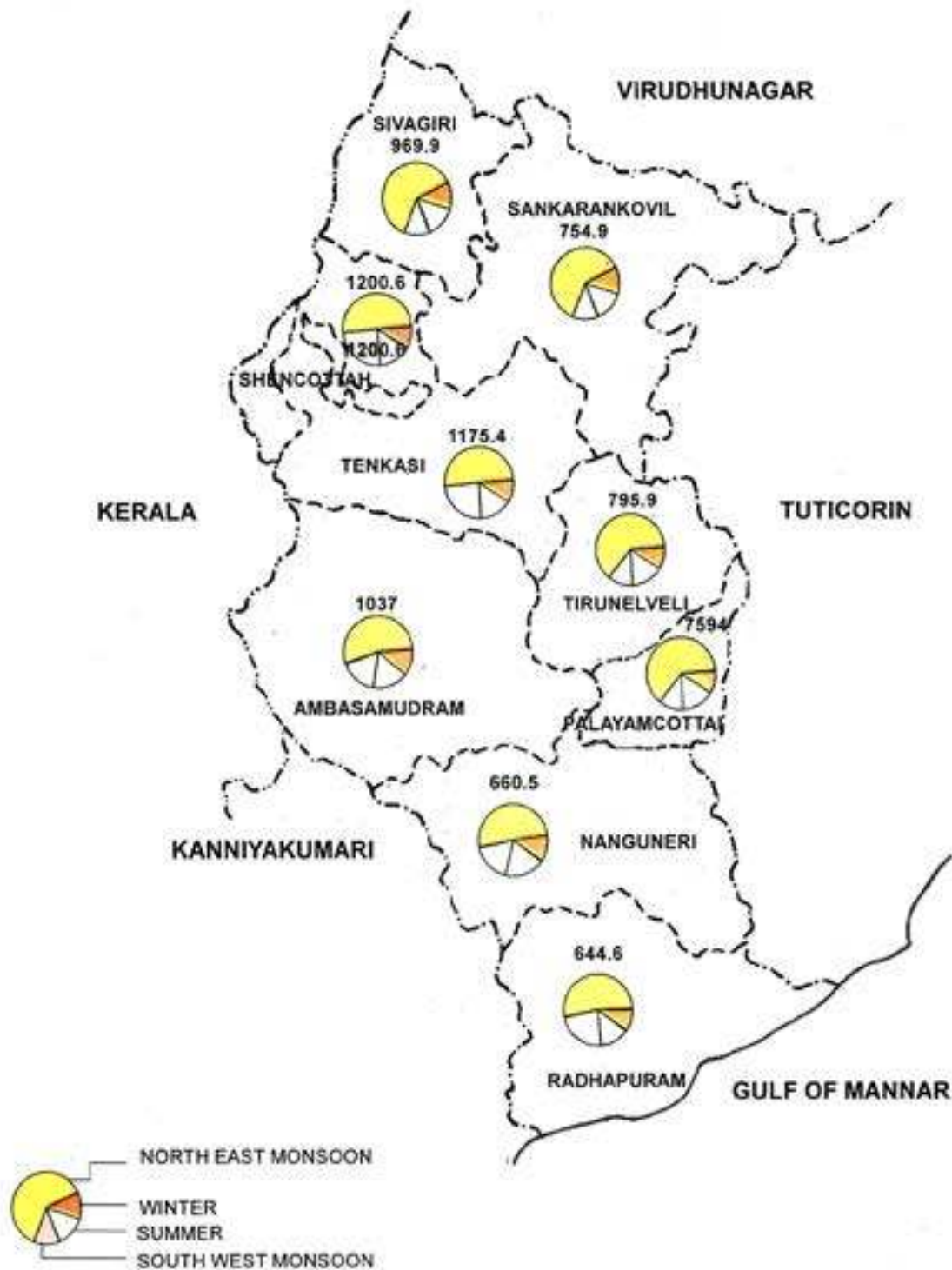
RAINFALL

Taluk	Mean annual rainfall (mm)	South west monsoon Jun - Sep		North east monsoon Oct - Dec		Winter Jan - Feb		Summer Mar - May	
		mm	%	mm	%	mm	%	mm	%
1. AMBASAMUDRAM	1037.0	154.1	14.9	560.2	54.0	124.5	12.0	198.2	19.1
2. NANGUNERI	660.5	93.6	14.3	346.4	52.4	80.8	12.2	139.7	21.1
3. PALAYAMCOTTAI	759.4	63.6	8.5	470.0	61.8	73.5	9.7	152.3	20.0
4. RADHAPURAM	644.6	136.2	21.1	344.4	53.4	48.3	7.5	115.9	18.0
5. SANKARANKOVIL	754.9	74.7	9.9	434.3	57.5	82.3	10.9	163.6	21.7
6. SHENCOTTAI	1200.6	278.3	23.2	632.2	52.6	101.6	8.5	188.5	15.7
7. SIVAGIRI	969.9	112.5	11.6	544.2	56.1	121.2	12.5	192.0	19.8
8. TENKASI	1175.4	277.8	23.6	564.6	48.0	104.7	8.9	228.5	19.5
9. TIRUNELVELI	795.9	73.7	9.3	499.6	62.7	80.3	10.1	142.3	17.9
Mean for the district	888.7	140.5	15.8	488.4	55.0	90.8	10.2	169.0	19.0



RAINFALL

TIRUNELVELI DISTRICT



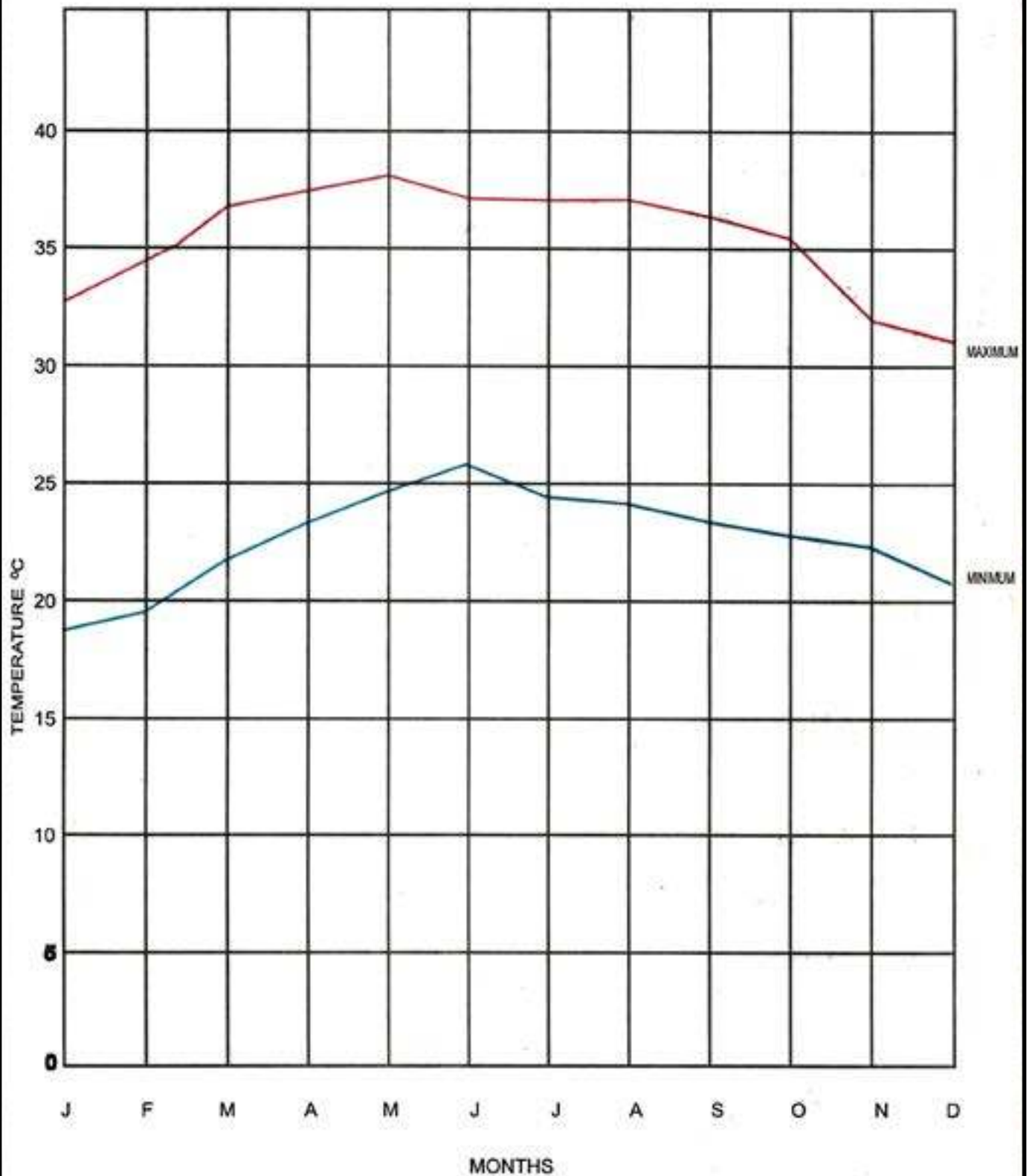
MEAN ANNUAL RAINFALL 1037 mm.

TEMPERATURE

The mean annual temperature of the district is 29°C. The maximum mean is 35.3°C and the minimum is 22.7°C April, May and June are the hotter months ranging from 37.2°C to 38.3°C, while December to February are cooler months (18.7°C to 20.4°C)

Month	Maximum temperature (°C)	Minimum temperature (°C)	Mean temperature (°C)
January	32.0	18.7	25.35
February	34.3	19.8	27.05
March	36.5	22.0	29.25
April	37.7	23.5	30.60
May	38.3	24.8	31.55
June	37.2	25.7	31.45
July	37.1	24.6	30.85
August	37.1	24.4	30.75
September	36.5	23.7	30.10
October	34.1	23.1	28.60
November	31.6	22.4	27.00
December	31.0	20.4	25.70
Mean	35.30	22.70	29.00

TEMPERATURE TIRUNELVELI DISTRICT

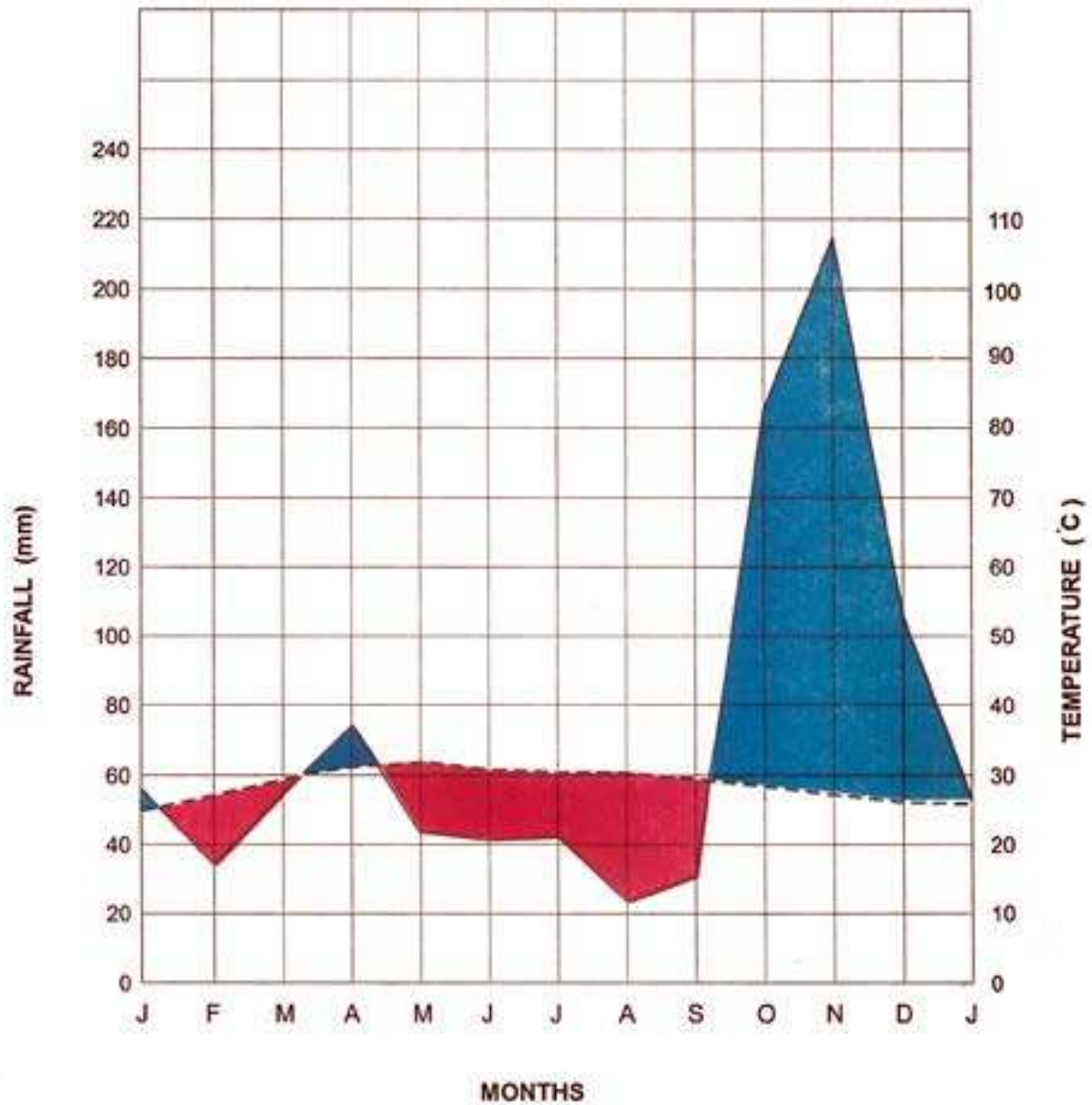


OMBROTHERMIC DATA

Month	Mean rainfall (mm)	Mean temperature (°C)
January	58.4	25.35
February	32.4	27.05
March	49.7	29.25
April	72.6	30.60
May	46.7	31.55
June	41.0	31.45
July	42.2	30.85
August	25.5	30.75
September	31.8	30.10
October	163.5	28.60
November	215.9	27.00
December	109.0	25.70
	Total 888.7	Mean 29.00

OMBROTHERMIC DIAGRAM

TIRUNELVELI DISTRICT



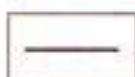
WET MONTHS



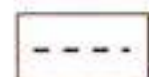
DRY MONTHS



RAINFALL (mm)



TEMPERATURE (°C)

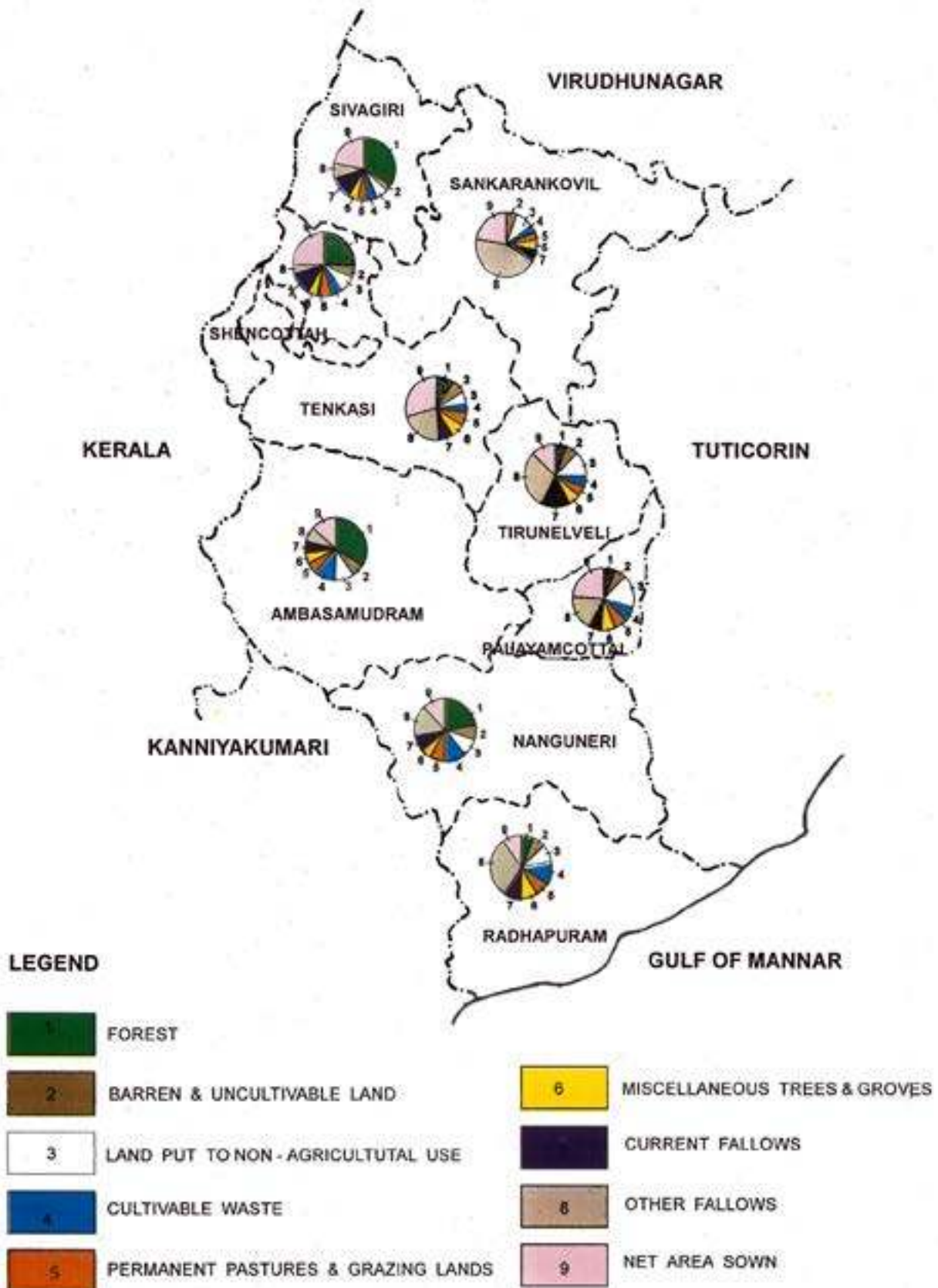


LAND USE PATTERN

(Area in hectares)

Land use	Anbasa mudram	Nangu neri	Palayam cottai	Radha puram	Sankaran kovil	Shen cottai	Siva giri	Ten kasi	Tirun elveli	Total
Total geographical area	129071	97598	30426	87369	107981	18094	56890	98800	56079	682308
1. Forests	60055	25064	794	1902	—	5167	19195	9647	1026	122850
2. Barren and uncultivable land	4372	2706	1449	7115	1018	463	1123	1409	1085	20740
3. Land put to non agricultural use	13339	11423	8998	11326	15758	2955	5854	13015	11766	94434
4. Cultivable waste	13301	7106	3137	13537	1004	127	107	1376	3796	43491
5. Permanent pastures ha and grazing lands	1526	4780	981	2154	106	157	89	259	3094	13146
6. Miscellaneous tree ha crops and groves	1267	2565	1044	4347	306	401	168	343	309	10750
7. Current fallows	4605	2573	1987	65	5890	1602	10934	10466	9708	47830
8. Other fallow lands	8642	28924	4643	35279	54815	212	3684	30189	18966	185354
9. Net area sown	21964	12457	7393	11644	29084	7010	15736	32096	6329	143713

LAND USE PATTERN TIRUNELVELI DISTRICT



FORESTS

Taluk	Area	
	ha	%
1. AMBASAMUDRAM	60,055	48.9
2. NANGUNERI	25,064	20.4
3. SIVAGIRI	19,195	15.6
4. TENKASI	9,647	7.9
5. SHENCOTTAI	5,167	4.2
6. RADHAPURAM	1,902	1.6
7. TIRUNELVELI	1,026	0.8
8. PALAYAMCOTTAI	794	0.6
9. SANKARANKOVIL	—	—
Total	1,22,850	100.00



FOREST

TIRUNELVELI DISTRICT



CROP AREA

(Area in hectares)

Taluk	Rice	Millets	Pulses	Cotton	Sugar cane	Oil seeds	Others
1. AMBASAMUDRAM	26,000	75	6,525	1,000	175	1,525	2,520
2. NANGUNERI	12,000	100	1,275	500	25	795	3,925
3. PALAYAMCOTTAI	11,000	75	2,525	400	25	175	1,080
4. RADHAPURAM	6,000	300	1,275	300	—	1,755	840
5. SANKARANKOVIL	6,300	11,100	7,525	13,400	250	3,695	1,230
6. SHENCOTTAI	5,000	575	2,525	200	75	1,625	1,300
7. SIVAGIRI	8,500	1,650	3,525	3,000	2,700	845	1,180
8. TENKASI	16,000	2,675	7,600	1,500	200	6,440	4,800
9. TIRUNELVELI	9,200	450	3,525	500	50	495	1,445
Total	1,000,00	17,000	36,300	20,800	3,500	17,350	18,320

CROP AREA TIRUNELVELI DISTRICT



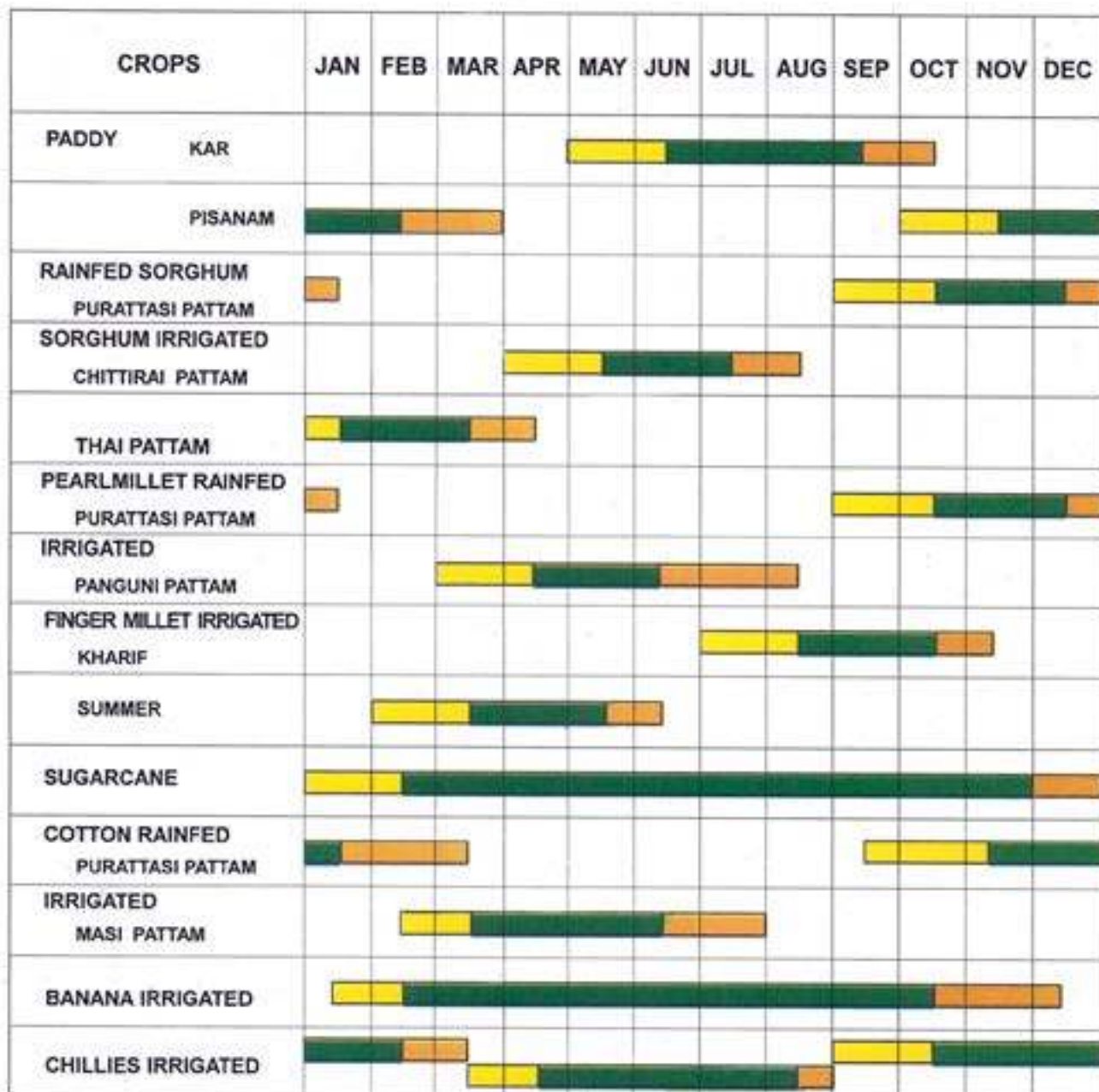
LEGEND

- R - RICE
- M - MILLETS
- P - PULSES
- C - COTTON
- S - SUGAR CANE
- O.S - OIL SEEDS
- O - OTHERS

CROPPING CALENDAR

The major crops grown in the district are paddy, millets, cotton, chillies, banana, and sugarcane. The phonologic seasons of these crops are shown in the calendar indicating the sowing, vegetative and harvesting stages of crops during different months.

CROPPING CALENDAR TIRUNELVELI DISTRICT



Sowing Stage



Vegetative Stage



Harvest Stage



SOURCES OF IRRIGATION

Taluk	Canals (length - km)	Wells	Tanks
1. TIRUNELVELI	37.0	3,649	92
2. PALAYAMCOTTAI	25.0	2,688	115
3. NANGUNERI	64.0	5,338	305
4. RADHAPURAM	2.0	7,305	279
5. AMBASAMUDRAM	99.4	5,094	400
6. TENKASI	185.6	12,184	285
7. SHENCOTTAI	15.0	1,210	238
8. SIVAGIRI	—	8,999	133
9. SANKARANKOVIL	—	12,884	244
Total	428.0	59,351	2091

SOURCES OF IRRIGATION TIRUNELVELI DISTRICT



AGRICULTURAL INSTITUTIONS

Name of Institutions	Number
1. Office of the Joint Director of Agriculture, Tirunelveli	1
2. Soil Survey and Land Use organisation, Tirunelveli	1
3. Soil Testing Laboratory, Palayamcottai	1
4. Bio - control Laboratory, Tirunelveli	1
5. Seed Testing Laboratory, Tirunelveli	1
6. Agricultural Extension centres	51
7. State seed farm, Tirunelveli	1
8. Seed processing unit	3
9. Cocount farm	3
10. Parasite breeding centre, Shencottai	1
11. Pulses godown	1
12. Central godown	1
13. Paddy Research Station, Ambasamudram	1
14. Horticultural farm, Courtallam	1

AGRICULTURAL INSTITUTIONS

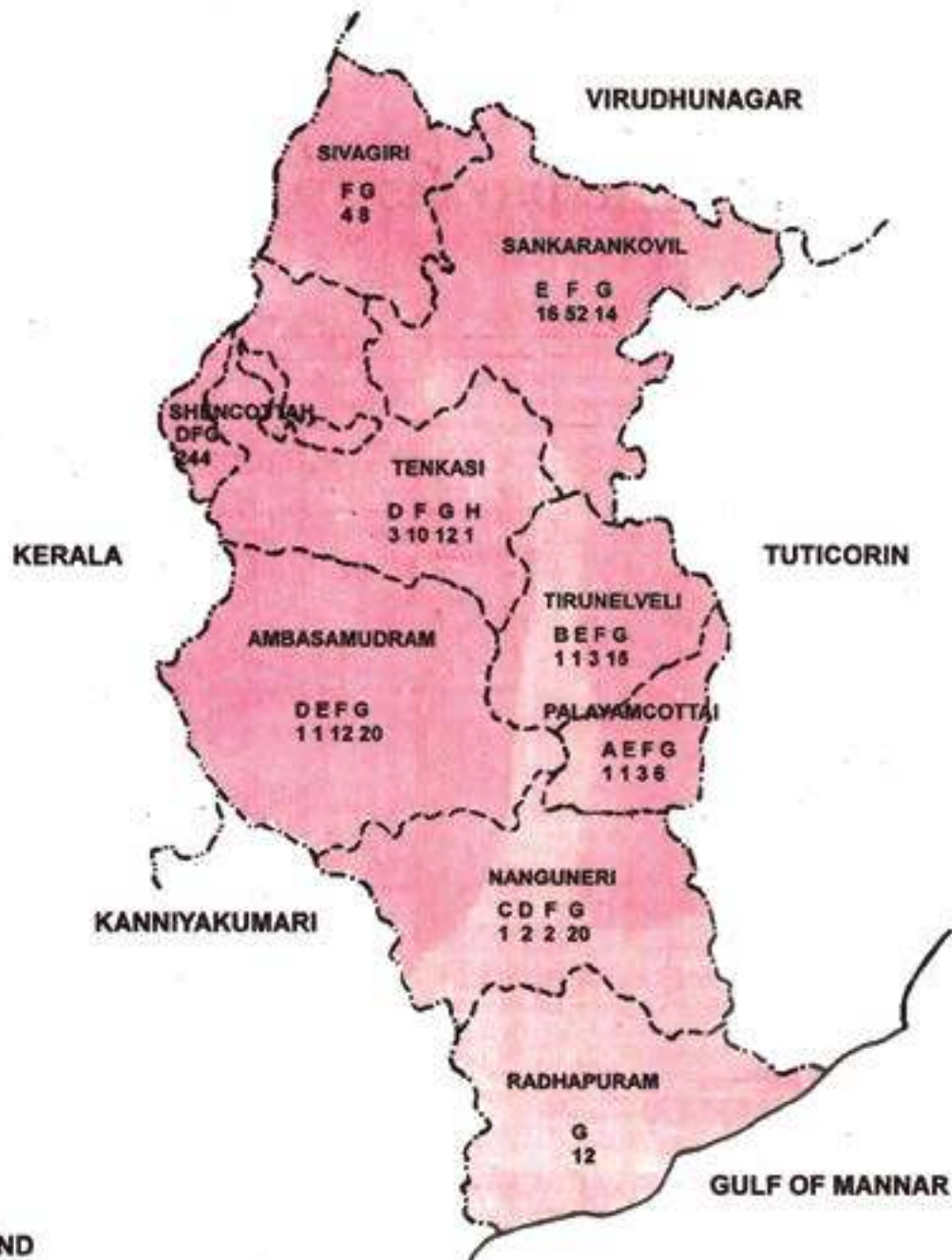
TIRUNELVELI DISTRICT



AGRO INDUSTRIES

[illegible]

AGRO INDUSTRIES TIRUNELVELI DISTRICT



LEGEND

- A AGRICULTURAL INDUSTRY
- B AGRICULTURAL MACHINERY SERVICING CENTRE
- C CASHEWNUT COMPANY
- D COIR INDUSTRIES
- E GINNING FACTORIES AND POWER LOOM
- F TEXTILE INDUSTRY
- G RICE MILL
- H SILK INDUSTRY

ANIMAL HUSBANDRY INSTITUTIONS

Institutions	Map Symbol	Number
1. Veterinary hospital	A	8
2. Veterinary dispensary	B	37
3. Clinician centre	C	1
4. Mobile veterinary dispensary	D	19
5. Animal husbandry sub centre	E	73
6. Livestock farm	F	1
7. Poultry extension centre	G	1

ANIMAL HUSBANDRY INSTITUTIONS TIRUNELVELI DISTRICT



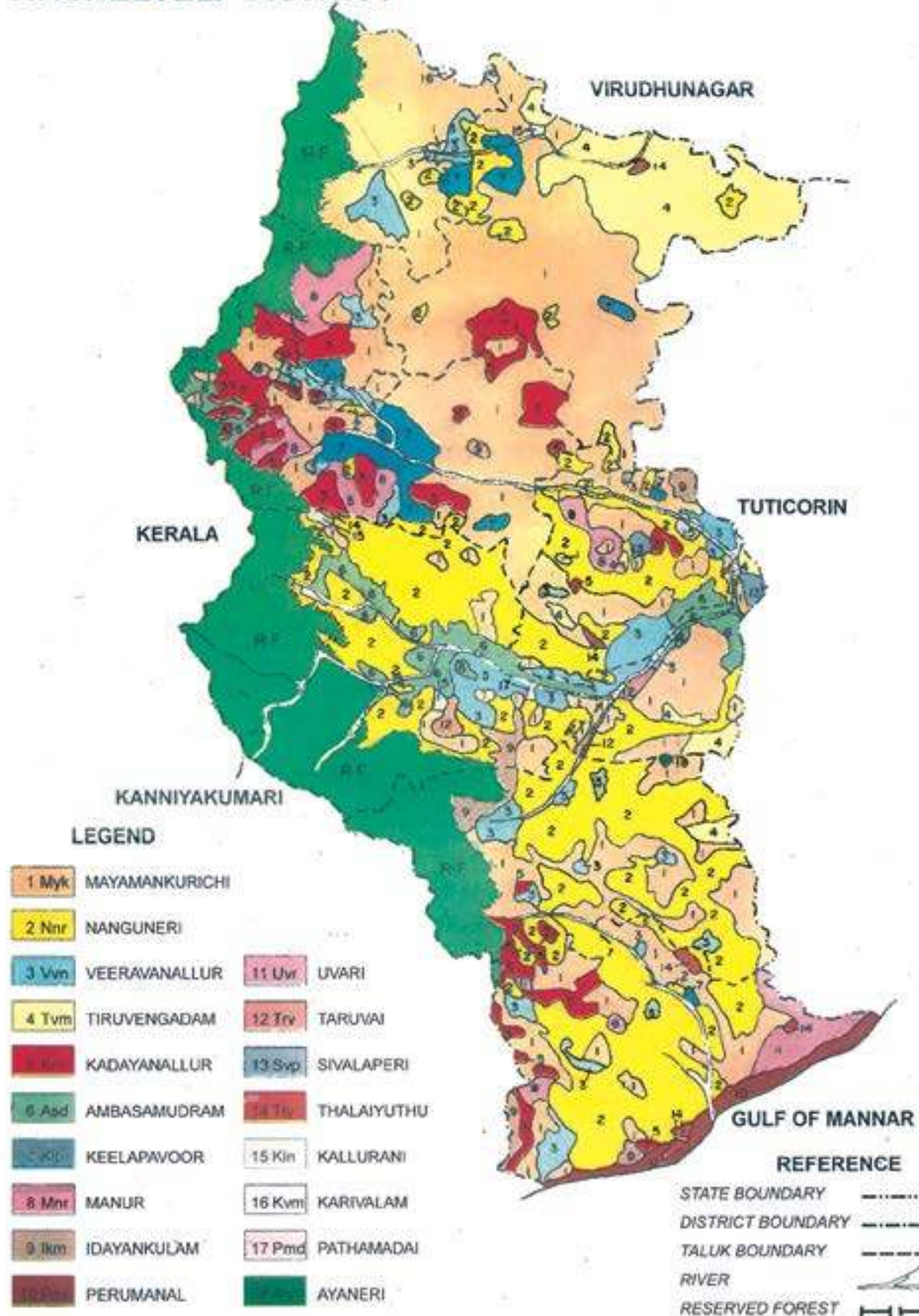
LEGEND

- A - VETERINARY HOSPITAL
- B - VETERINARY DISPENSARY
- C - CLINICIAN CENTRE
- D - MOBILE VETERINARY DISPENSARY
- E - ANIMAL HUSBANDRY SUB CENTRE
- F - LIVE STOCK FARM
- G - POULTARY EXTENSION CENTRE

SOILS

Soil series	Symbol	Extent	
		(ha)	%
1. Mayamankurichi	Myk	1,97,020	28.87
2. Nanguneri	Nnr	1,46,290	21.44
3. Veeravanallur	Vvn	34,855	5.11
4. Tiruvengadam	Tvm	34,297	5.03
5. Kadayanallur	Knr	29,596	4.34
6. Ambasamudram	Asd	18,692	2.74
7. Keelapavoor	Klp	12,922	1.89
8. Manur	Mnr	10,523	1.54
9. Idayankulam	lkm	6,122	0.90
10. Perumanal	Pml	6,096	0.89
11. Uvari	Uvr	5,020	0.74
12. Taruvai	Trv	2,154	0.32
13. Sivalaperi	Svp	2,015	0.30
14. Thalaiyuthu	Tly	1,595	0.23
15. Kallurani	Kln	801	0.12
16. Karivalam	Kvm	550	0.07
17. Pathamadaï	Pmd	140	0.02
18. Ayaneri	Anr	130	0.02
Forests	—	1,22,850	18.01
Others	—	50,640	7.42
TOTAL	—	6,82,308	100.00

SOILS TIRUNELVELI DISTRICT



MAYAMANKURICHI SERIES (Myk)

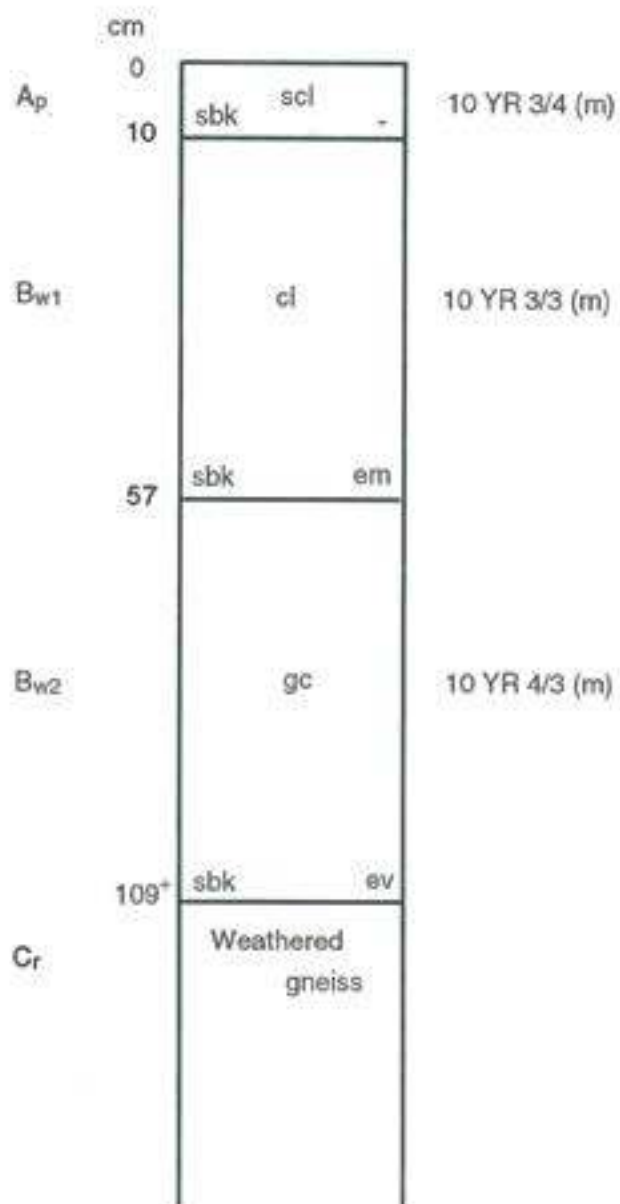
Physiography : Very gently sloping lands
Drainage : Moderately well drained
Parent material : Calc gneiss

HORIZON

DESCRIPTION

Ap	0 - 10 cm; dark yellowish brown (10 YR 3/4 M); sandy clay loam; weak, medium subangular blocky; dry slightly hard, moist friable, wet slightly sticky and slightly plastic; many fine, few medium roots; common fine to medium pores; moderately rapid permeability; clear, smooth boundary; pH 7.4
Bw ₁	10 - 57 cm; dark brown (10 YR 3/3 M); clay loam; moderate, medium subangular blocky; dry hard, moist firm, wet slightly sticky and slightly plastic; common, fine to medium, irregular conca; moderate effervescence; few, fine and few medium roots; common, fine pores; moderately slow permeability; clear, smooth boundary; pH 7.6.
Bw ₂	57 - 109 cm; dark brown (10 YR 4/3 M); gravelly clay; moderate, medium subangular blocky; dry very hard, moist very firm, wet sticky and plastic; many, medium to coarse conca; violent effervescence; few, medium roots; common, medium pores; moderately slow permeability; pH 7.6
Cr	109+ cm; weathered gneiss.

MAYAMANKURICHI SERIES (Myk)



Soil Taxonomy : Fine, mixed, calcareous, isomegathemic, Typic Haplustepts

NANGUNERI SERIES (Nnr)

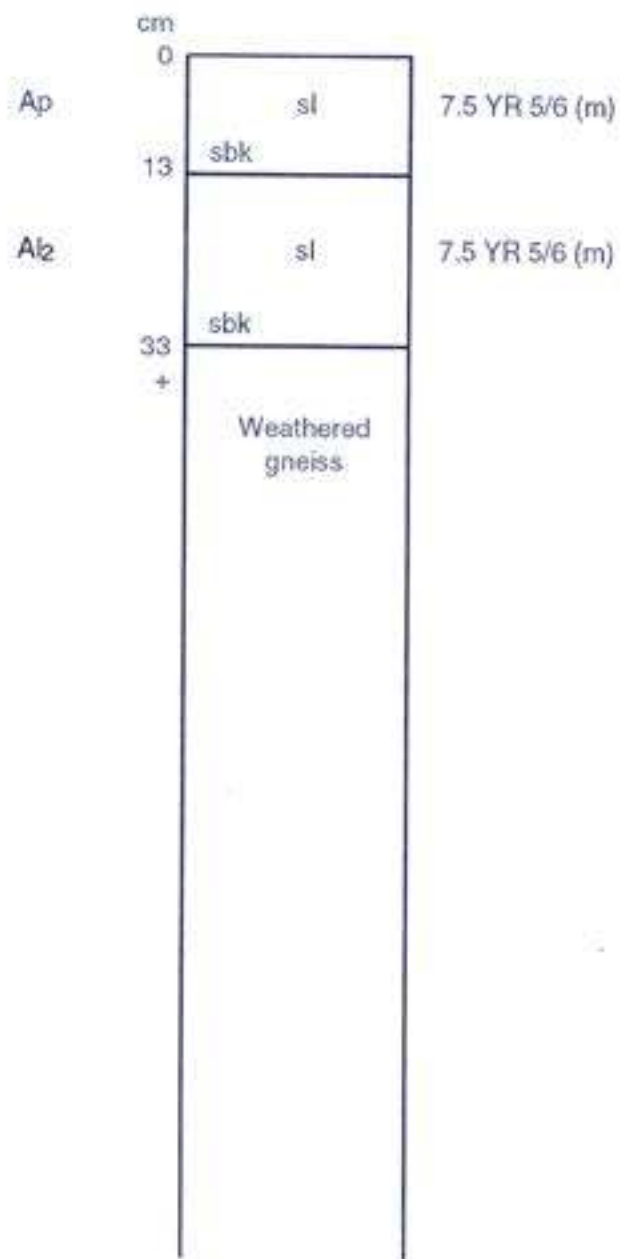
Physiography : Very gently sloping lands
Drainage : Well drained
Parent material : Weathered gneiss.

HORIZON

DESCRIPTION

Ap	0 - 13 cm; strong brown (7.5 YR 5/6 M); sandy loam; moderate, medium subangular blocky; dry slightly hard, moist very friable, wet slightly sticky and non plastic; common, fine to medium roots; many, medium pores; rapid permeability; clear, wavy boundary; pH 7.0
Al ₂	13 - 33 cm; strong brown (7.5 YR 5/6 M); sandy loam; moderate, medium subangular blocky; dry slightly hard, moist slightly firm, wet slightly sticky and non plastic; few, medium roots; common, coarse pores; rapid permeability; pH 7.1
Cr	33+ cm; weathered gneiss.

NANGUNERI SERIES (Nnr)



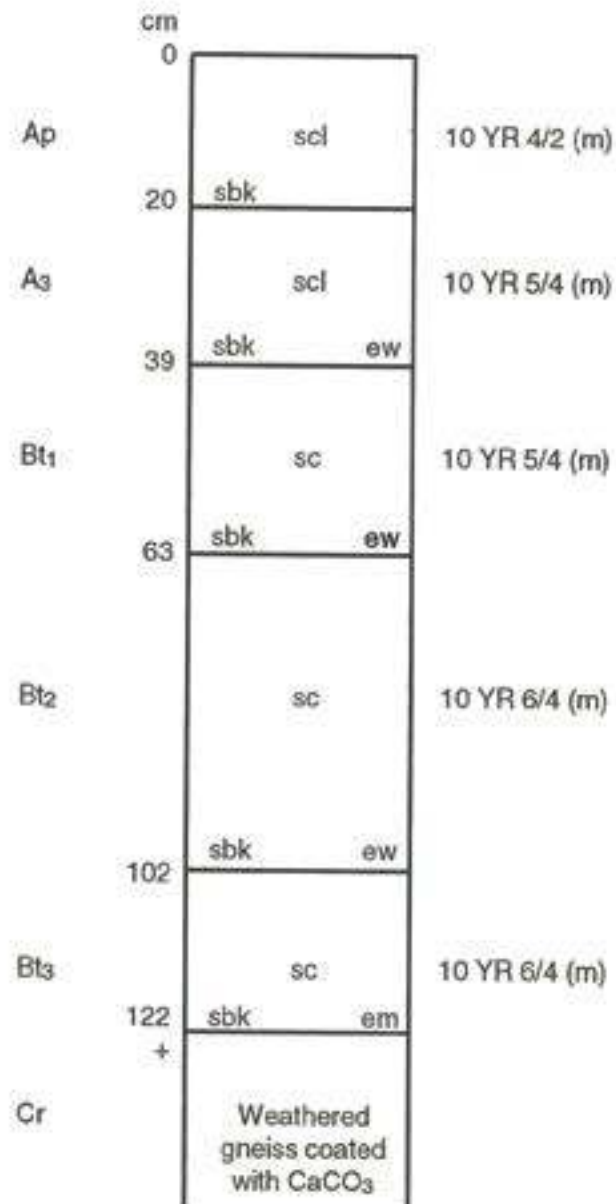
Soil Taxonomy : Coarse loamy, mixed, isomegathemic Paralithic Ustorthents

VEERAVANALLUR SERIES (Vvn)

Physiography : Almost plain lands
Drainage : Moderately well drained
Parent material : Weathered gneiss

HORIZON	DESCRIPTION
Ap	0 - 20 cm; grayish brown (10 YR 4/2 M); sandy clay loam; moderate, medium subangular blocky; dry hard, moist firm, wet slightly sticky and slightly plastic; many, fine to medium roots; many, medium pores; moderately rapid permeability; clear smooth boundary; pH 7.4
A ₃	20 - 39 cm; yellowish brown (10 YR 5/4 M); sandy clay loam; moderate, medium subangular blocky; moist friable; wet slightly sticky and slightly plastic; few, medium roots; few, fine irregular Fernn concretions; mild effervescence; common, medium pores; moderately rapid permeability; clear, smooth boundary; pH 7.5
Bt ₁	39 - 63 cm; yellowish brown (10 YR 5/4 M); sandy clay; moderate medium subangular blocky; moist firm, wet sticky and plastic; common, fine irregular Fernn concretions; few fine conca; mild effervescence; thin, patchy clay films; few, fine pores; moderately slow permeability; clear, smooth boundary; pH 7.6
Bt ₂	63 - 102 cm; light yellowish brown (10 YR 6/4 M); sandy clay; moderate, medium subangular blocky; moist firm, wet sticky and plastic; common, medium irregular Fernn concretions; common, fine conca; weak effervescence; thick, continuous clay films; few, fine, pores; slow permeability; clear, smooth boundary; pH 7.6
Bt ₃	102 - 122 cm; light yellowish brown (10 YR 6/4 M); sandy clay; moderate, medium, subangular blocky; moist firm, wet sticky and plastic; common, medium to coarse irregular Fernn concretions; common, fine to medium conca; moderate effervescence; thick continuous clay films; few, fine pores; moderately slow permeability; pH 7.7
Cr	122+ cm; weathered gneiss coated with calcium carbonate

VEERAVANALLUR SERIES (Vvn)



Soil Taxonomy : Fine, mixed, calcareous, isomegathemic, Typic Haplustalfs

TIRUVENGADAM SERIES (Tvm)

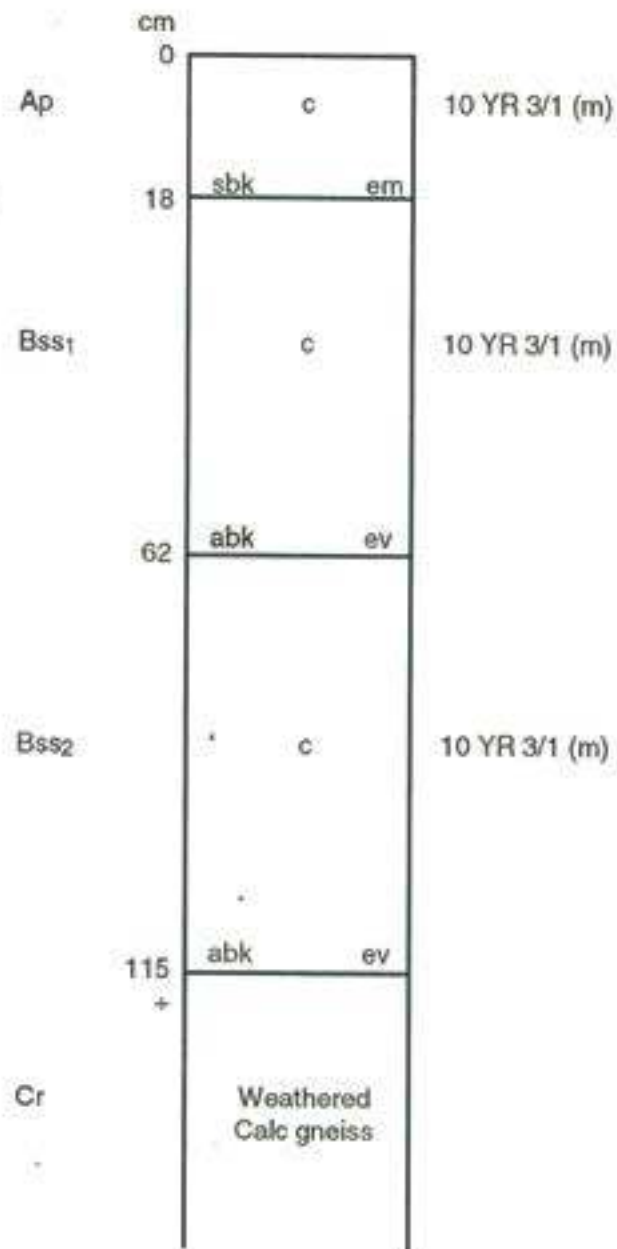
Physiography : Almost plain lands
Drainage : Imperfectly drained
Parent material : Calc gneiss

HORIZON

DESCRIPTION

Ap	0 - 18 cm; very dark gray (10 YR 3/1 M); clay; moderate, medium subangular blocky; dry hard, moist firm, wet sticky and plastic; few, fine conca; moderate effervescence; few, fine and few medium roots; very fine pores; slow permeability; gradual irregular boundary; pH 8.5
Bss ₁	18 - 62 cm; very dark gray (10 YR 3/1 M); clay; strong, coarse angular blocky; dry very hard, moist very firm, wet very sticky and very plastic; common, medium to coarse conca; violent effervescence; few, medium roots; slickensides close enough to intersect; micropores; very slow permeability; diffuse, irregular boundary; pH 8.5
Bss ₂	62 - 115 cm; very dark gray (10 YR 3/1 M); clay; strong, very coarse angular blocky; dry very hard, moist very firm; wet very sticky and very plastic; many, medium to coarse conca; violent effervescence; micropores; slickensides close enough to intersect; very slow permeability; pH 8.6
Cr	115+ cm; weathered Calc gneiss

TIRUVENGADAM SERIES (Tvm)



Soil Taxonomy : Fine, smectitic, calcareous, isomegathemic, Typic Haplusterts

KADAYANALLUR SERIES (Knr)

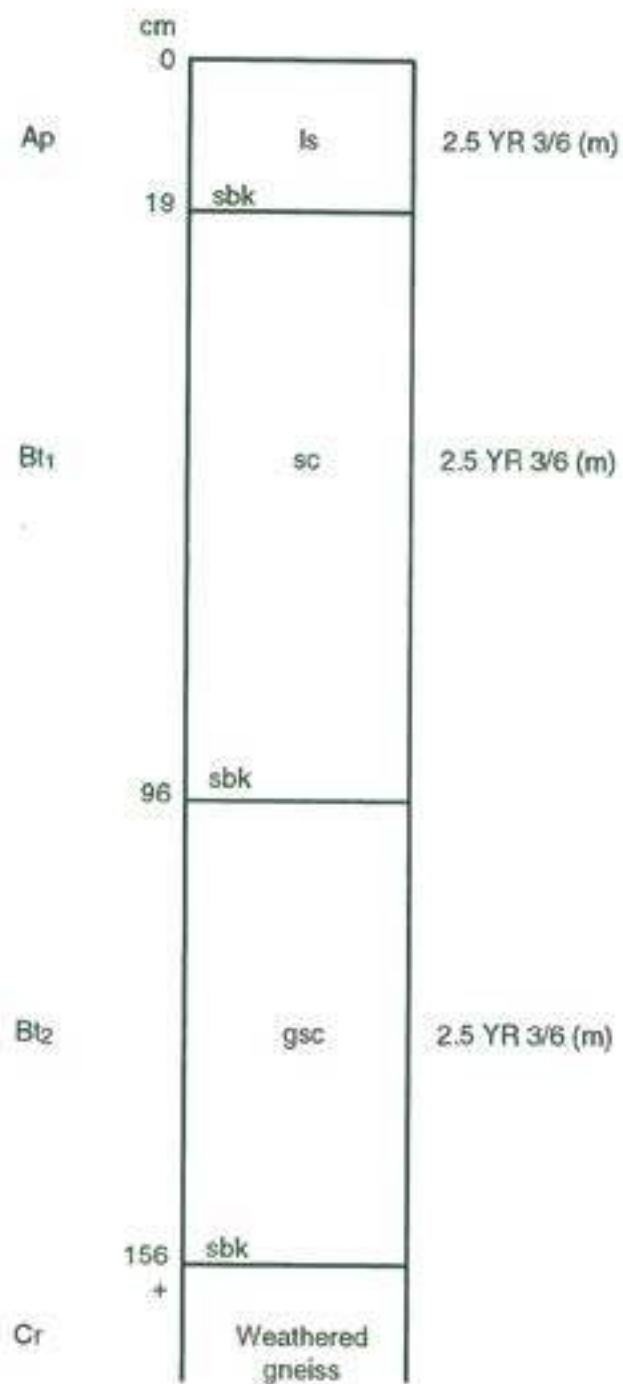
Physiography : Very gently sloping lands
Drainage : Well drained
Parent material : Weathered Gneiss

HORIZON

DESCRIPTION

Ap	0 - 19 cm; dark red (2.5 YR 3/6 M); loamy sand; weak, fine subangular blocky; dry slightly hard, moist very friable, wet non sticky and non plastic; many, fine roots; many fine to coarse pores; very rapid permeability; clear, wavy boundary; pH 5.7
Bt ₁	19 - 96 cm; dark red (2.5 YR 3/6 M); sandy clay; strong, coarse subangular blocky; dry very hard, moist firm, wet sticky and plastic; thin, patchy clay films; few, fine roots, common, fine to medium pores; slow permeability; gradual, wavy boundary; pH 5.9
Bt ₂	96 - 156 cm; dark red (2.5 YR 3/6 M); gravelly sandy clay; strong, coarse subangular blocky; dry very hard, moist very firm, wet sticky and plastic; few, fine to medium Fe-Mn concretions; thin, patchy clay films; common, fine to medium and few, coarse pores; moderately slow permeability; pH 6.0
Cr	156+ cm; weathered gneiss.

KADAYANALLUR SERIES (Knr)



Soil Taxonomy : Fine, mixed, isomegathemic, Rhodic Paleustalfs

AMBASAMUDRAM SERIES (Asd)

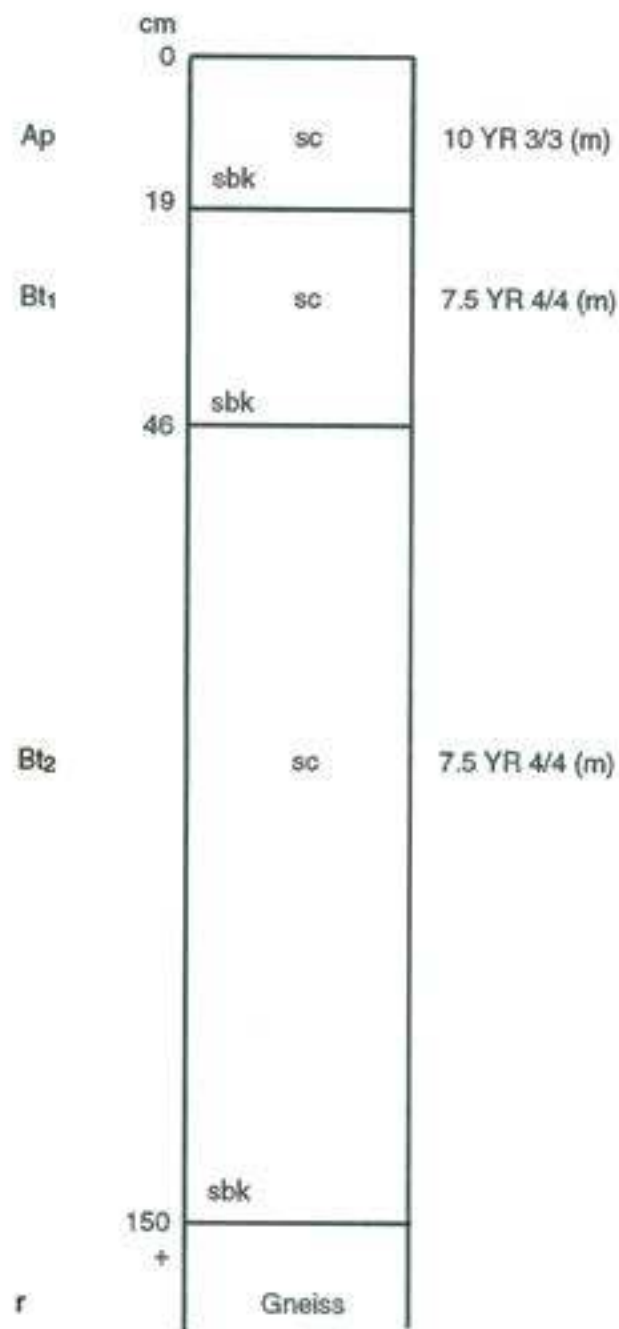
Physiography : Almost plain lands
Drainage : Poorly drained
Parent material : Gneiss

HORIZON

DESCRIPTION

Ap	0 - 19 cm; dark brown (10 YR 3/3 M); sandy clay; strong, coarse subangular blocky; dry very hard, moist firm, wet sticky and plastic; many fine to coarse roots; common, fine pores; slow permeability; gradual wavy boundary; pH 6.6
Bt ₁	19 - 46 cm; dark brown (7.5 YR 4/4 M); sandy clay; strong; coarse subangular blocky; dry very hard, moist firm, wet sticky and plastic; common, fine to medium Ferrn concretions; thin, patchy clay films; few, medium roots; few, fine pores; slow permeability; gradual wavy boundary; pH 6.9
Bt ₂	46 - 150 cm; dark brown (7.5 YR 4/4 M); sandy clay; strong, coarse subangular blocky; dry very hard, moist firm, wet sticky and plastic; many, fine to medium Ferrn concretions; many, fine to medium, distinct mottlings; thin, patchy clay films; few, fine pores; very slow permeability; pH 7.1
R	150+ cm; Gneiss

AMBASAMUDRAM SERIES (Asd)



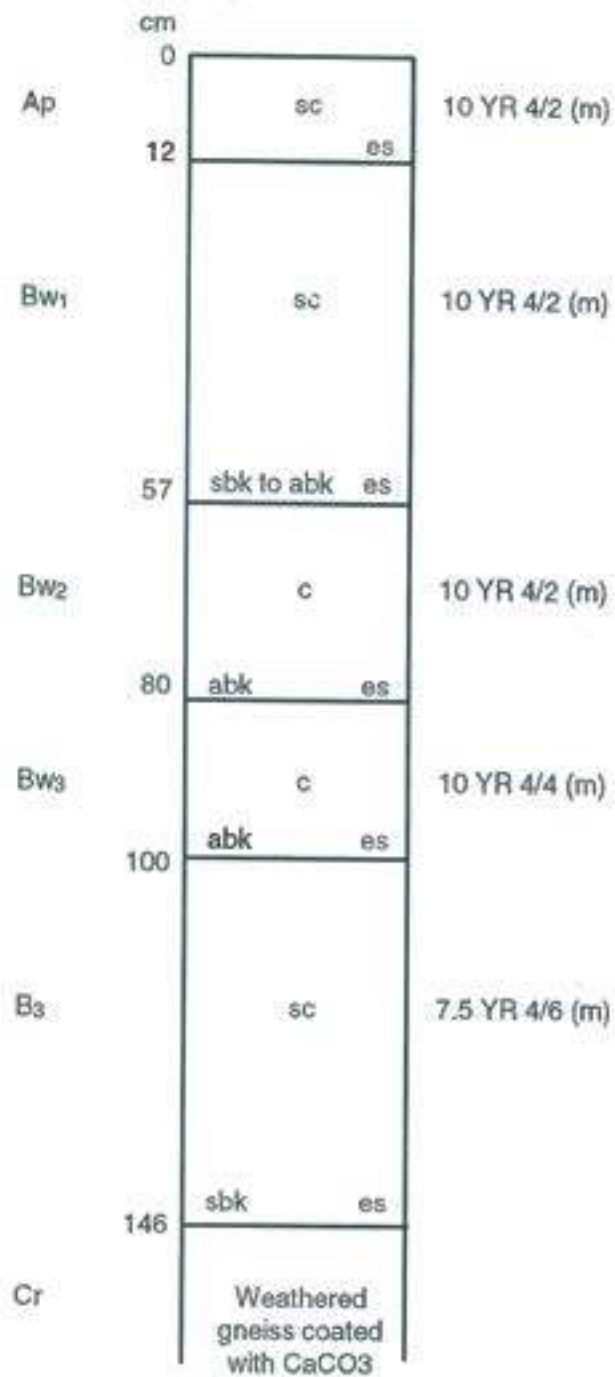
Soil Taxonomy : Fine, mixed, isomegathemic, Aquic Haplustalfs

KEELAPAVOOR SERIES (Klp)

Physiography : Almost plain lands
Drainage : Imperfectly drained
Parent material : Weathered Gneiss

HORIZON	DESCRIPTION
Ap	0 - 12 cm; dark grayish brown (10 YR 4/2 M); sandy clay; moderate, medium subangular blocky; dry very hard, moist firm, wet sticky and plastic; strong effervescence; many, fine roots; common, fine to medium pores; moderately slow permeability; gradual, wavy boundary; pH 7.9
Bw ₁	12 - 57 cm; dark grayish brown (10 YR 4/2 M); sandy clay; very strong, very coarse subangular blocky to angular blocky; dry extremely hard, moist very firm; wet sticky and plastic; few, fine conca; strong effervescence; pressure faces; few, fine roots; few, fine pores; moderately slow permeability; diffuse, wavy boundary; pH 8.0
Bw ₂	57 - 80 cm; very dark grayish brown (10 YR 4/2 M); clay; strong, coarse angular blocky; dry very hard, moist very firm, wet sticky and plastic; few, fine conca; strong effervescence; pressure faces; very fine pores; slow permeability; gradual, wavy boundary; pH 8.0
Bw ₃	80 - 100 cm; dark yellowish brown (10 YR 4/4 M); clay; moderate, medium angular blocky; moist firm, wet sticky and plastic; common, fine to medium conca; strong effervescence; pressure faces; very fine pores; slow permeability; gradual, wavy boundary; pH 8.1
B ₃	100 - 146 cm; strong brown (7.5 YR 4/6 M); sandy clay; moderate, medium subangular blocky; moist firm, wet sticky and plastic; common, medium to coarse conca; strong effervescence; common, fine to medium pores; moderately slow permeability; pH 8.1
Cr	146+ cm; weathered gneiss coated with CaCO ₃

KEELAPAVOOR SERIES (Klp)



Soil Taxonomy : Fine, mixed, calcareous, isomegathemic, Vertic Haplustepts

MANUR SERIES (Mnr)

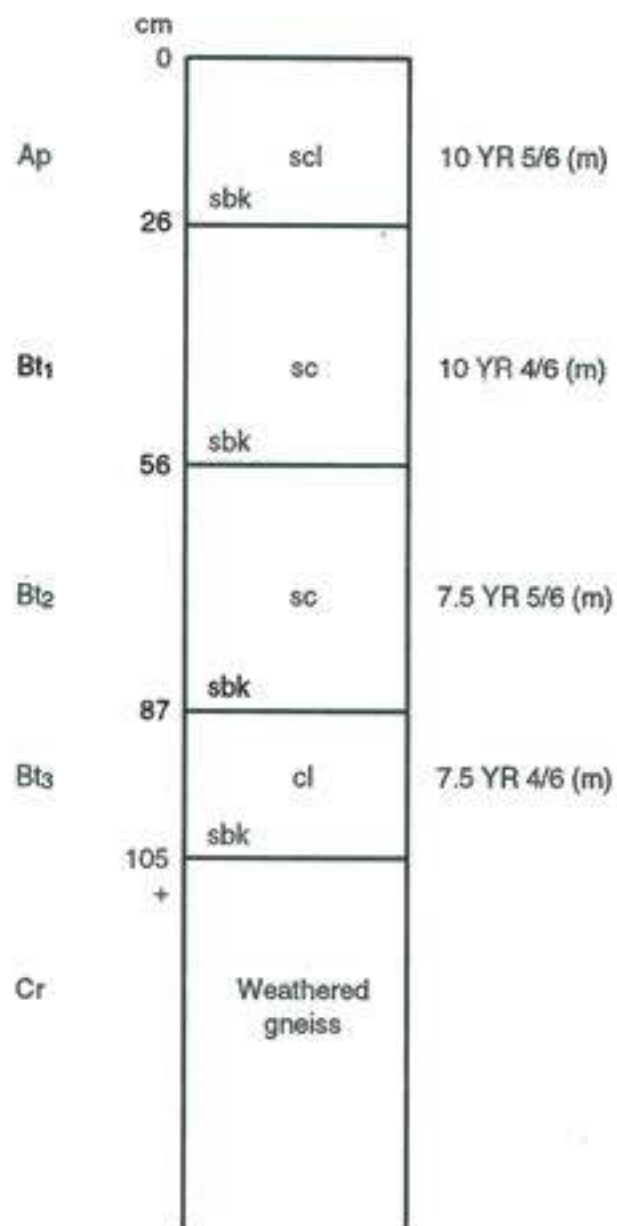
Physiography : Almost plain lands
Drainage : Modertely well drained
Parent material : Gneiss

HORIZON

DESCRIPTION

Ap	0 - 26 cm; yellowish brown (10 YR 5/6 M); sandy clay loam; moderate, medium subangular blocky; dry hard, moist slightly firm; wet slightly sticky and slightly plastic; many fine to medium roots; common fine to medium pores; moderately rapid permeability; clear, smooth boundary; pH 7.4
Bt ₁	26 - 56 cm; dark yellowish brown (10 YR 4/6 M); sandy clay; moderate, medium subangular blocky; dry hard, moist firm, wet sticky and plastic; few, fine, and few medium roots; thin, patchy clay films; few, fine pores; moderately slow permeability; diffuse, wavy boundary, pH 7.5
Bt ₂	56 - 87 cm; strong brown (7.5 YR 5/6 M); sandy clay; moderate, medium subangular blocky; dry hard, moist slightly firm, wet sticky and plastic; few fine Femn concretions; few medium roots, thin, patchy clay films, few, fine pores; moderately slow permeability; clear, wavy boundary; pH 7.5
Bt ₃	87 - 105 cm; strong brown (7.5 YR 4/6 M); clay loam; moderate, medium subangular blocky; dry slightly hard, moist slightly firm, wet sticky and slightly plastic, few, fine Femn concretions; thin, patchy clay films; few, fine to medium pores; moderately rapid permeability; pH 7.5
Cr	105+ cm; weathered gneiss

MANUR SERIES (Mnr)



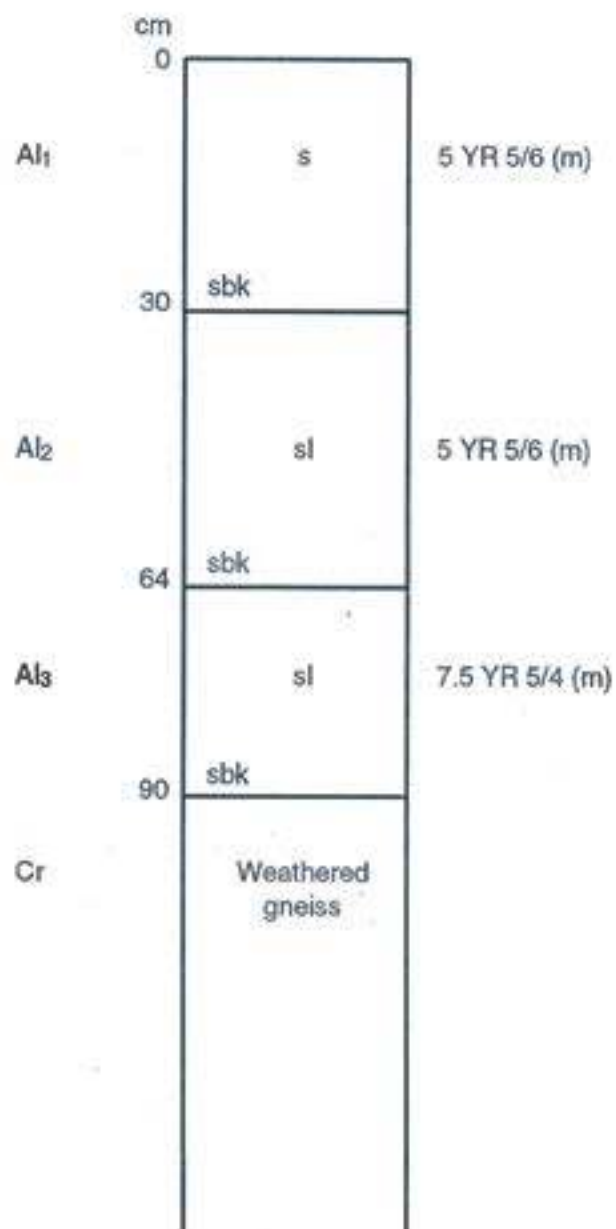
Soil Taxonomy : Fine, mixed, isomegathermic; Udic Haplustalfs

IDAYANKULAM SERIES (lkm)

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

HORIZON	DESCRIPTION
Al ₁	0 - 30 cm; yellowish red (5 YR 5/6 M); sandy loam; weak, fine subangular blocky; dry slightly hard, moist friable, wet slightly sticky and slightly plastic; many medium to coarse roots; many medium pores; rapid permeability; clear, smooth boundary; pH 7.4
Al ₂	30 - 64 cm; yellowish red (5 YR 5/6 M); sandy loam; moderate, medium subangular blocky; dry hard, moist friable, wet slightly sticky and slightly plastic; common, medium to coarse roots; common, medium pores; rapid permeability; clear, smooth boundary; pH 7.5
Al ₃	64 - 90 cm; brown (7.5 YR 5/4 M); sandy loam; moderate, medium subangular blocky; dry slightly hard, moist slightly firm, wet slightly sticky and slightly plastic; few, coarse roots; common, medium pores; rapid permeability; pH 7.5
Cr	90+ cm; weathered gneiss

IDAYANKULAM SERIES (lkm)



Soil Taxonomy : Fine loamy, mixed, isomegathemic, Typic Ustorthents.

PERUMANAL SERIES (Pml)

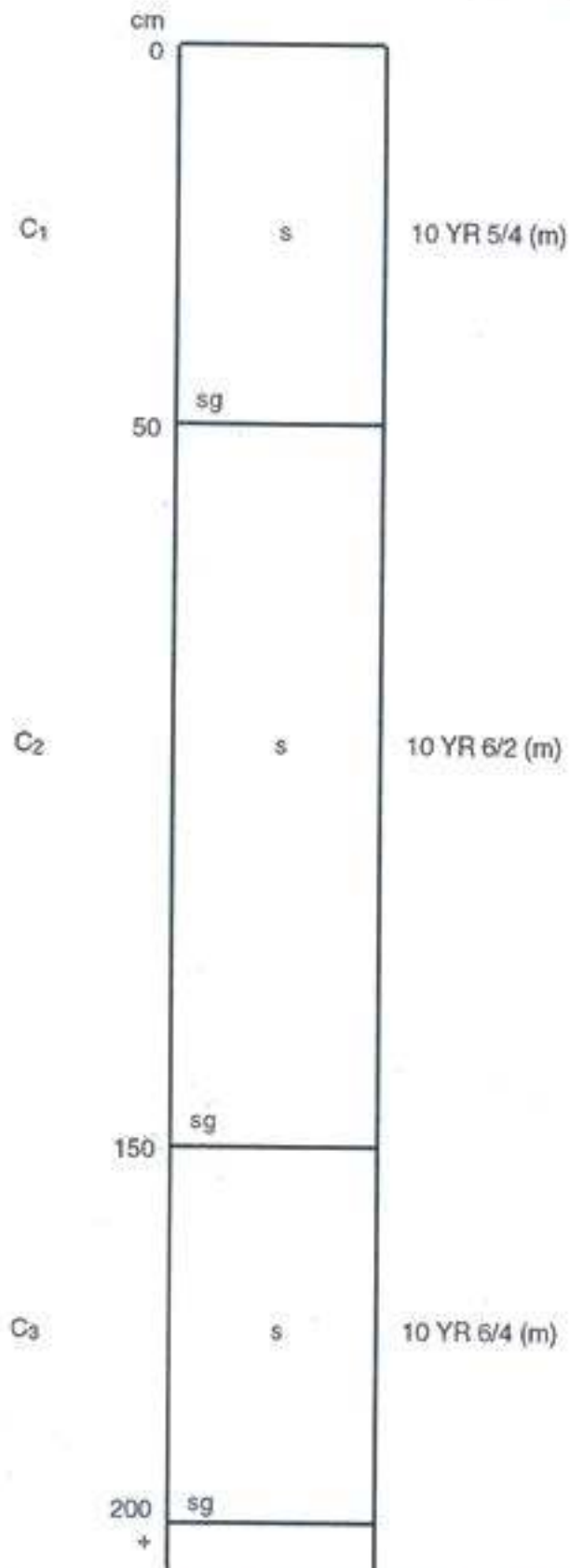
Physiography : Gently sloping lands

Drainage : Excessively drained

Parent material : Aeolin deposits

HORIZON	DESCRIPTION
C ₁	0 - 50 cm; yellowish brown (10 YR 5/4 M); sand; single grain; wet non sticky and non plastic; porous, very rapid permeability; pH 7.5
C ₂	50 - 150 cm; light brownish gray (10 YR 6/2 M); sand; single grain; wet non sticky and non plastic; porous, very rapid permeability, pH 7.7
C ₃	150 - 200+ cm; light yellowish brown (10 YR 6/4 M); sand, single grain; wet non sticky and non plastic; very rapid permeability; pH 7.8

PERUMANAL SERIES (Pml)



Soil Taxonomy : Siliceous, isomegathemic Ustic Quartzipsamments

UVARI SERIES (Uvr)

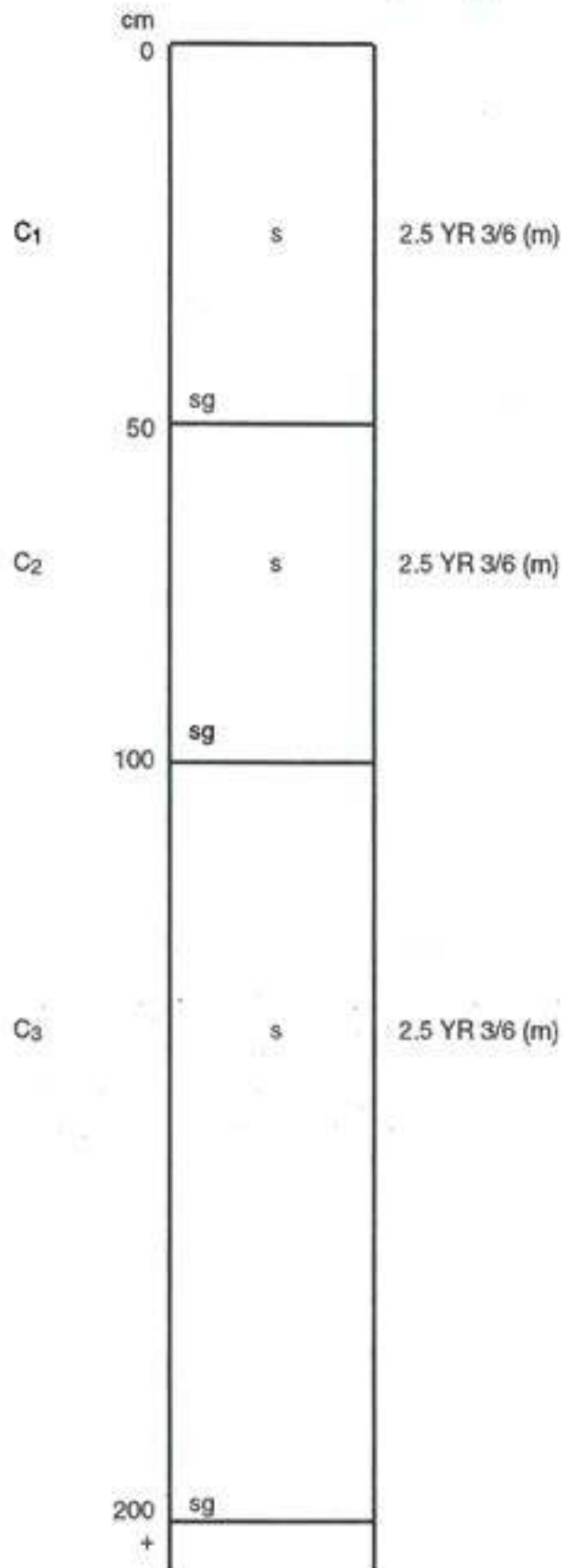
Physiography : Gently sloping to undulating sand hummoky land form
Drainage : Excessively drained
Parent material : Acolin deposits

HORIZON

DESCRIPTION

C ₁	0 - 50 cm; dark red (2.5 YR 3/6 M); sand; single grain; wet non sticky and non plastic; very few, fine roots; porous; very rapid permeability; pH 5.7
C ₂	50 - 100 cm; dark red (2.5 YR 3/6 M); sand; single grain; wet non sticky and non plastic; porous; very rapid permeability; pH 5.7
C ₃	100 - 200+ cm; dark red (2.5 YR 3/6 M); sand; single grain; wet non sticky and non plastic; porous; very rapid permeability, pH 5.6

UVARI SERIES (Uvr)



Soil Taxonomy : Siliceous, isomegathemic, Ustic Quartzipsamments

TARUVAI SERIES (Trv)

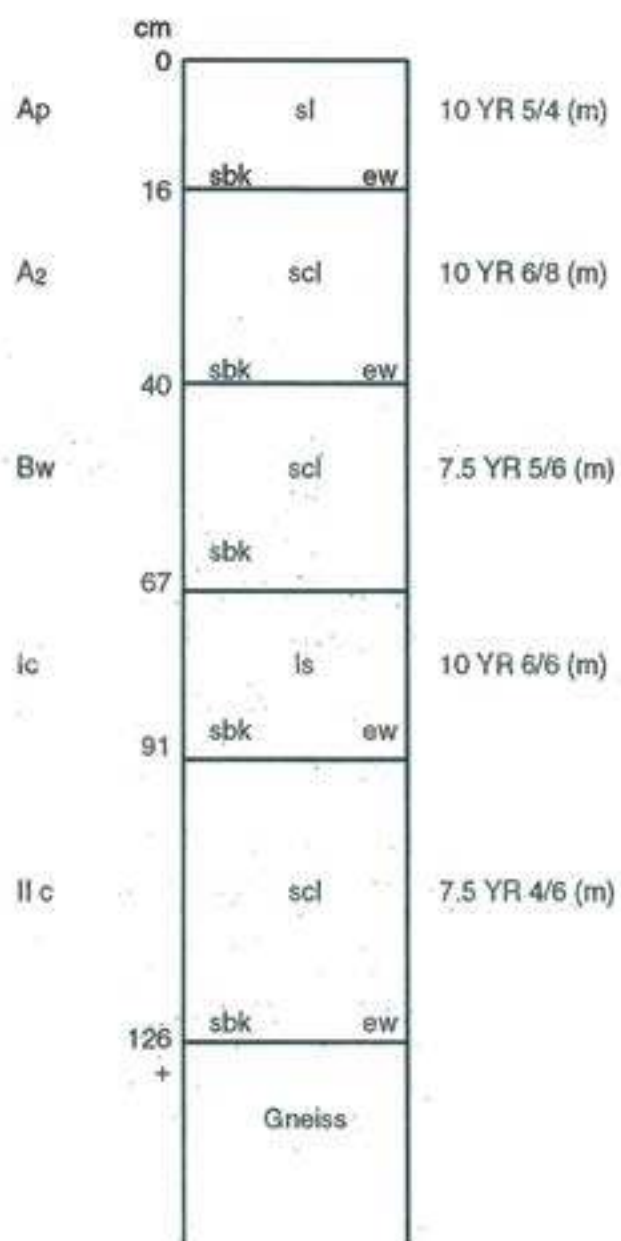
Physiography : Almost plain lands

Drainage : Well drained

Parent material : Gneiss

HORIZON	DESCRIPTION
Ap	0 - 16 cm; yellowish brown (10 YR 5/4 M); sandy clay loam; moderate, medium subangular blocky; dry hard, moist firm, wet slightly sticky and slightly plastic; many, fine to medium roots; common fine to medium pores; mild effervescence; moderately rapid permeability; clear smooth boundary; pH 7.5
A₂	16 - 40 cm; brownish yellow (10 YR 6/8 M); sandy clay loam; weak, medium subangular blocky; dry slightly hard, moist very friable; wet slightly sticky and slightly plastic; mild effervescence; common, fine to medium roots; common, fine to medium pores; moderately rapid permeability; clear smooth boundary; pH 7.7
Bw	40 - 67 cm; strong brown (7.5 YR 5/6 M); sandy clay loam; strong coarse subangular blocky; moist firm, wet sticky and slightly plastic; mild effervescence; few, medium roots; common, fine pores; moderately rapid permeability; abrupt, smooth boundary; pH 7.7
lc	67 - 91 cm; brownish yellow (10 YR 6/6 M); loamy sand; weak, fine subangular blocky; moist very friable; wet non sticky and non plastic; many, medium irregular pores; mild effervescence; very rapid permeability; abrupt, smooth boundary; pH 7.8
llc	91 - 126 cm; strong brown (7.5 YR 4/6 M); sandy clay loam; moderate, coarse subangular blocky; moist firm, wet sticky and slightly plastic; common, fine to medium pores, mild effervescence; moderately rapid permeability; pH 7.8
R	126+ cm; Gneiss

TARUVAI SERIES (Trv)



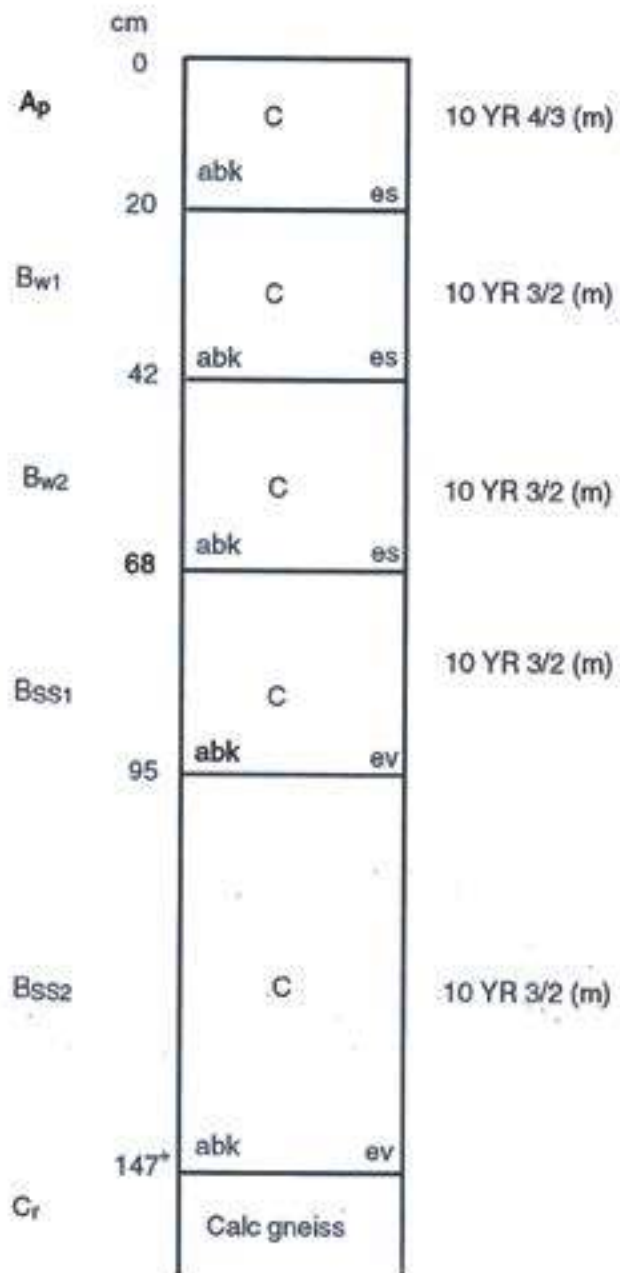
Soil Taxonomy : Loamy over sandy, mixed, mildly calcareous, isomegathemic, Fluventi Haplustepts.

SIVALAPERI SERIES (Svp)

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

HORIZON	DESCRIPTION
Ap	0 - 20 cm; brown to dark brown (10 YR 4/3 M); 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, irregular boundary; pH 8.8
Bw ₁	20 - 42 cm; very dark grayish brown (10 YR 3/2 M); clay; strong, coarse angular blocky; dry very hard, moist very firm, wet sticky and plastic; strong effervescence; few, fine to coarse roots; micropores; slow permeability; gradual, wavy boundary; pH 9.0
Bw ₂	42 - 68 cm; very dark grayish brown (10 YR 3/2 M); clay, strong, coarse angular blocky; dry hard, moist firm, wet sticky and plastic; strong effervescence; pressure faces; few, coarse roots; micropores; very slow permeability; diffuse, wavy boundary; pH 9.1
Bss ₁	68 - 95 cm; very dark grayish brown (10 YR 3/2 M); 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; micro pores; very slow permeability; diffuse, wavy boundary; pH 9.1
Bss ₂	95 - 147+ cm; very dark grayish brown (10 YR 3/2 M); clay; strong, coarse angular blocky; dry hard, moist firm, wet very sticky and very plastic; many medium to coarse conca; violent effervescence; prominent slickensides close enough to intersect; micropores; very slow permeability; pH 9.2

SIVALAPERI SERIES (Svp)



Soil Taxonomy : Fine, smectitic, calcareous, isomegathemic, Sodic Haplusterts

THALAIYUTHU SERIES (Tly)

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

HORIZON

DESCRIPTION

Ap	0 - 14 cm; strong brown (7.5 YR 4/4 M); sandy loam; weak, medium subangular blocky; dry slightly hard, moist friable, wet very slightly sticky and non plastic; many, fine to medium roots; many, fine to medium pores; rapid permeability; clear, smooth boundary; pH 7.0
Al ₂	14 - 27 cm; dark reddish brown (5 YR 3/4 M); sandy loam; weak, medium subangular blocky; dry slightly hard, moist friable, wet very slightly sticky and non plastic; few, fine and few medium roots; many fine to medium pores; rapid permeability; pH 7.1
R	27+ cm; Granitic gneiss

THALAIYUTHU SERIES (Tly)

	cm			
	0			
Ap	14	sbk	sci	7.5 YR 4/4 (m)
Al ₂	27*	sbk		5 YR 3/4 (m)
R		Granite gneiss		

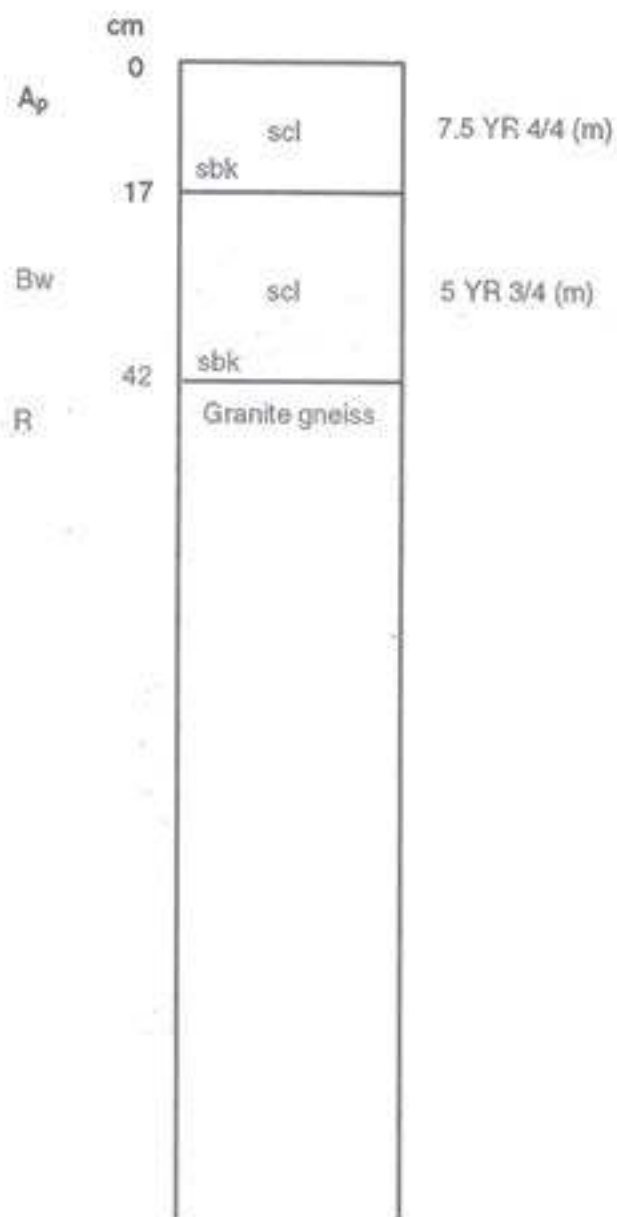
Soil Taxonomy : Coarseloamy, mixed, isomegathemic Lithic Ustorthents

KALLURANI SERIES (KIn)

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

HORIZON	DESCRIPTION
Ap	0 - 17 cm; strong brown (7.5 YR 4/4 M); sandy loam; weak, fine subangular blocky; dry slightly hard, moist very friable, wet very slightly sticky and non plastic; many, fine to medium roots; many, fine to medium pores; rapid permeability; clear, smooth boundary; pH 6.8
Bw	17 - 42 cm; yellowish brown (10 YR 5/4 M); sandy clay loam; moderate, medium subangular blocky; dry hard, moist slightly firm, wet slightly sticky and slightly plastic; few, fine to medium roots; common, fine to medium pores; moderately rapid permeability; abrupt, wavy boundary;. pH 7.1
R	42+ cm; Granitic gneiss

KALLURANI SERIES (KIn)



Soil Taxonomy : Fine loamy, mixed, isomegathemic Lithic Haplustepts

KARIVALAM SERIES (Kvm)

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

HORIZON	DESCRIPTION
Ap	0 - 12 cm; dark brown (10 YR 4/3 M); sandy clay; strong, coarse subangular blocky; dry hard, moist firm, wet sticky and plastic; few, fine conca; strong effervescence; many, fine to medium roots; fine pores; moderately slow permeability; gradual, wavy boundary; pH 8.0
Bt ₁	12 - 52 cm; dark brown (10 YR 3/3 M); sandy clay; strong, coarse subangular to angular blocky; dry hard, moist firm, wet sticky and plastic; few, fine conca; thin, patchy clay films; mild pressure faces; strong effervescence; few, medium roots; few, fine pores; slow permeability; diffuse, wavy boundary; pH 8.2
Bt ₂	52 - 85 cm; dark brown (10 YR 3/3 M); sandy clay; strong, coarse subangular to angular blocky; dry very hard, moist firm, wet sticky and plastic; common, fine to medium conca; thin, patchy clay films; mild pressure faces; strong effervescence; few fine pores; slow permeability; gradual, wavy boundary; pH 8.2
Bt ₃	85 - 120 cm; dark yellowish brown (10 YR 4/4 M); sandy clay; moderate, medium subangular blocky; dry hard, moist firm, wet sticky and plastic; many, fine to coarse conca; thin, patchy clay films; violent effervescence; few, fine pores; slow permeability; pH 8.3
Cr	120+ cm; weathered Calc gneiss

KARIVALAM SERIES (Kvm)

	cm			
	0			
A _p	12	sbk	sc	es
				10 YR 4/3 (m)
B _{t1}			sc	
				10 YR 3/3 (m)
	52	sbk to abk	es	
B _{t2}			sc	
				10 YR 3/3 (m)
	85	sbk to abk	es	
B _{t3}			sc	
				10 YR 4/4 (m)
	120 ⁺	sbk	ev	
C _r		Weathered Calc gneiss		

Soil Taxonomy : Fine, mixed, calcareous, isomegathemic Vertic Haplustalfs.

PATHAMADAI SERIES (Pmd)

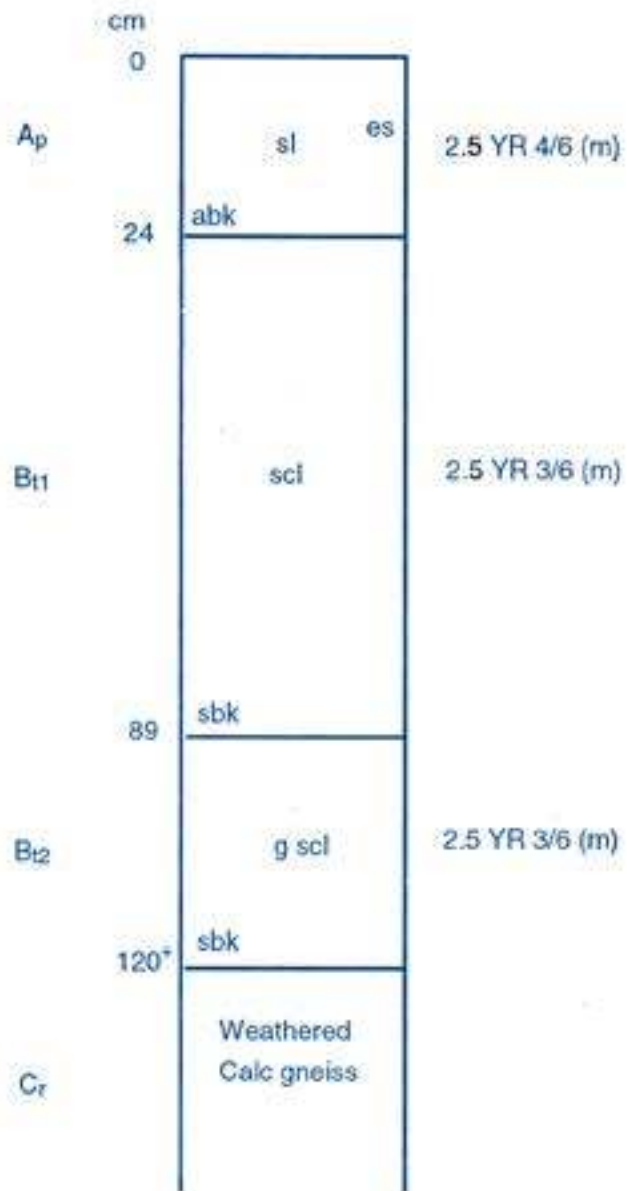
Physiography : Very gently sloping lands
Drainage : Well drained
Parent material : Weathered gneiss

HORIZON

DESCRIPTION

Ap	0 - 24 cm; red (2.5 YR 4/6 M); sandy loam; moderate, medium subangular blocky; dry slightly hard, moist friable, wet slightly sticky and very slightly plastic; common, fine and few medium roots; common, fine to medium pores; rapid permeability; clear, smooth boundary; pH 5.8
Bt ₁	24 - 89 cm; dark red (2.5 YR 3/6 M); sandy clay loam; strong, coarse subangular blocky; dry slightly hard, moist firm, wet slightly sticky and slightly plastic; few, medium Fe-Mn concretions; thin, patchy, clay films; few, fine and few medium roots; common fine to medium pores; moderately rapid permeability; clear, wavy boundary; pH 5.8
Bt ₂	89 - 120 cm; dark red (2.5 YR 3/6 M); gravelly sandy clay loam; strong, coarse subangular blocky; dry hard, moist friable, wet slightly sticky and slightly plastic; thin, patchy clay cutans; common, fine to medium pores; moderately rapid permeability; pH 5.9
Cr	120+ cm; weathered gneiss

PATHAMADI SERIES (Pmd)



Soil Taxonomy : Fine loamy, mixed, isomegathemic Typic Rhodustalfs

AYANERI SERIES (Anr)

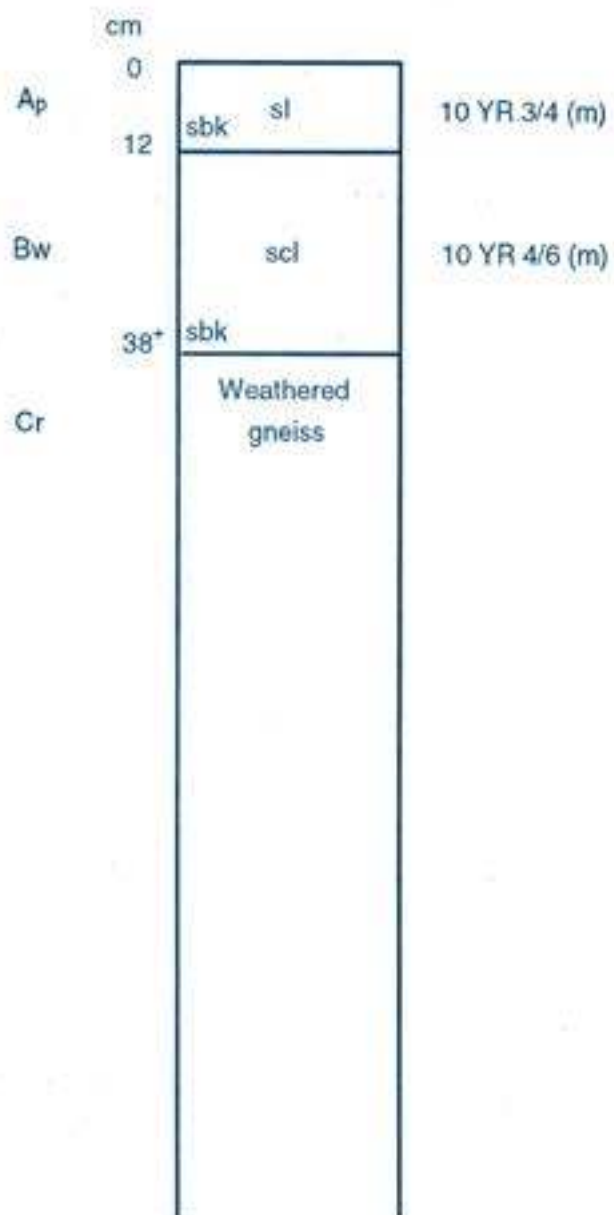
Physiography : Very gently sloping lands
Drainage : Well drained
Parent material : Weathered gneiss

HORIZON

DESCRIPTION

Ap	0 - 12 cm; dark yellowish brown (10 YR 3/4 M); sandy loam; moderate, medium subangular blocky; dry hard, moist friable, wet very slightly sticky and very slightly plastic; many fine to medium roots; many, medium pores; rapid permeability, clear, smooth boundary; pH 6.8
Bw	12 - 38cm; strong brown (10 YR 4/6 M); sandy clay loam; moderate, medium subangular blocky; dry hard, moist firm, wet slightly sticky and slightly plastic, few, fine to medium roots; few, fine to medium pores; moderately rapid permeability, abrupt, wavy boundary, pH 7.1
Cr	38+ cm; Weathered gneiss

AYANERI SERIES (Anr)



LAND CAPABILITY

Area (ha)	Land capability classification	Soil series	Limitation	Needs
34,855	II s	Veeravanallur	Mild alkalinity	Addition of organic manures
2,09,697	III s	Mayamankurichi, Manur, Taruvai	Crusting, Mild alkalinity	Addition of organic manures
35,858	III se	Kadayanallur, Idayankulam, Pathamadaai	Coarse texture, Low WHC & CEC, Acidity, Erosion, Low Fertility	Addition of tank silt, lime and organicmanures, soil conservation, fertility management
68,476	III sw	Tiruvengadam, Ambasamudram, Keelapavoor, Sivalaperi, Karivalam	Alkalinity, Calcareousness, Wetness	Selection of crops, Application of iron pyrite, Drainage
1,53,836	IV se	Nanguneri, Kallurani, Thalaiyuthu, Ayaneri, Uvari	Coarse texture, Low CEC & WHC, Low fertility Erosion	Addition of fank silt and organic manures, soil conservation, fertility management
6,096	V se	Perumanal	Sandy texture, very low WHC & CEC, Excessive drainge, Low fertility, severe erosion	Agroforestry

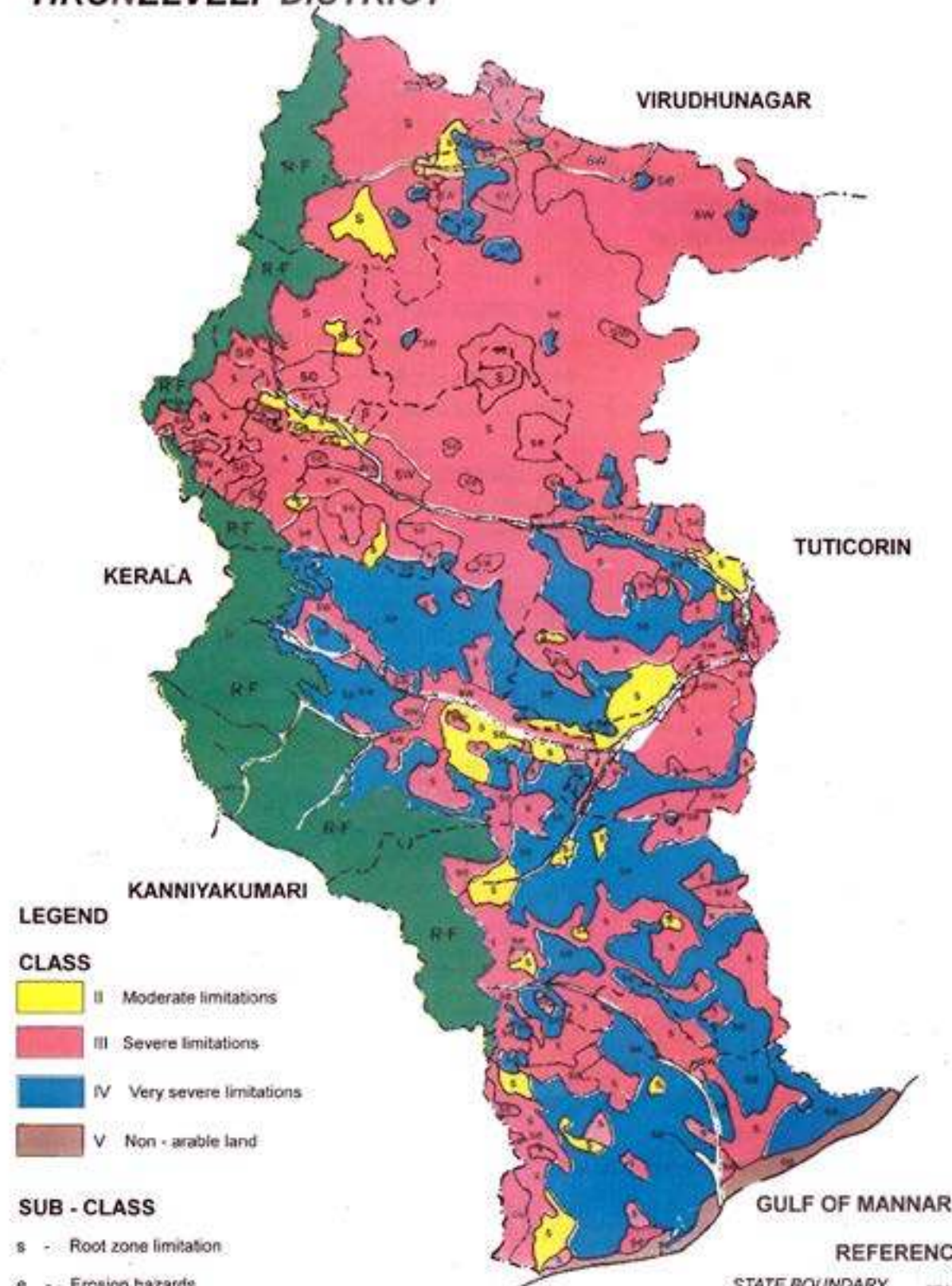
Class

- II** Good cultivable lands that have moderate limitations for sustained use under agriculture.
- III** Moderately good cultivable lands that have severe limitations fot sustained use under agriculture.
- IV** Lands that have very severe limitations for sustained use under agriculture
- V** Non arable lands

Sub class

- s** Root zone limitation
- e** Erosion and runoff
- w** Wetness

LAND CAPABILITY **TIRUNELVELI DISTRICT**



LEGEND

CLASS

- II Moderate limitations
- III Severe limitations
- IV Very severe limitations
- V Non - arable land

SUB - CLASS

- s - Root zone limitation
- e - Erosion hazards
- w - Wetness

REFERENCE

- STATE BOUNDARY
- DISTRICT BOUNDARY
- TALUK BOUNDARY
- RIVER
- RESERVED FOREST

LAND IRRIGABILITY

Area (ha)	Land Irrigability classification	Soil series	Limitation
34,855	2 s	Veeravanallur	Mild alkalinity
2,09,697	3 s	Mayamankurichi, Manur, Taruvai	Mild alkalinity, crusting
35,858	3 st	Kadayanallur, Idayankulam, Pathamadaï	Coarse texture, Low WHC, Acidity, Topography
68,476	3 sd	Tiruvengadam, Ambasamudram, Keelapavoor, Sivaderi, Karivalam	Alkalinity, Drainage hazard
1,53,836	4 st	Nanguneri, Uvari, Thalaiyuthu, Kallurani, Ayaneri,	Coarse texture, Low WHC, Topography
6,096	5 st	Perumanal	Sandy texture, Low WHC, Low CEC, Excessive drainage, topography

Class

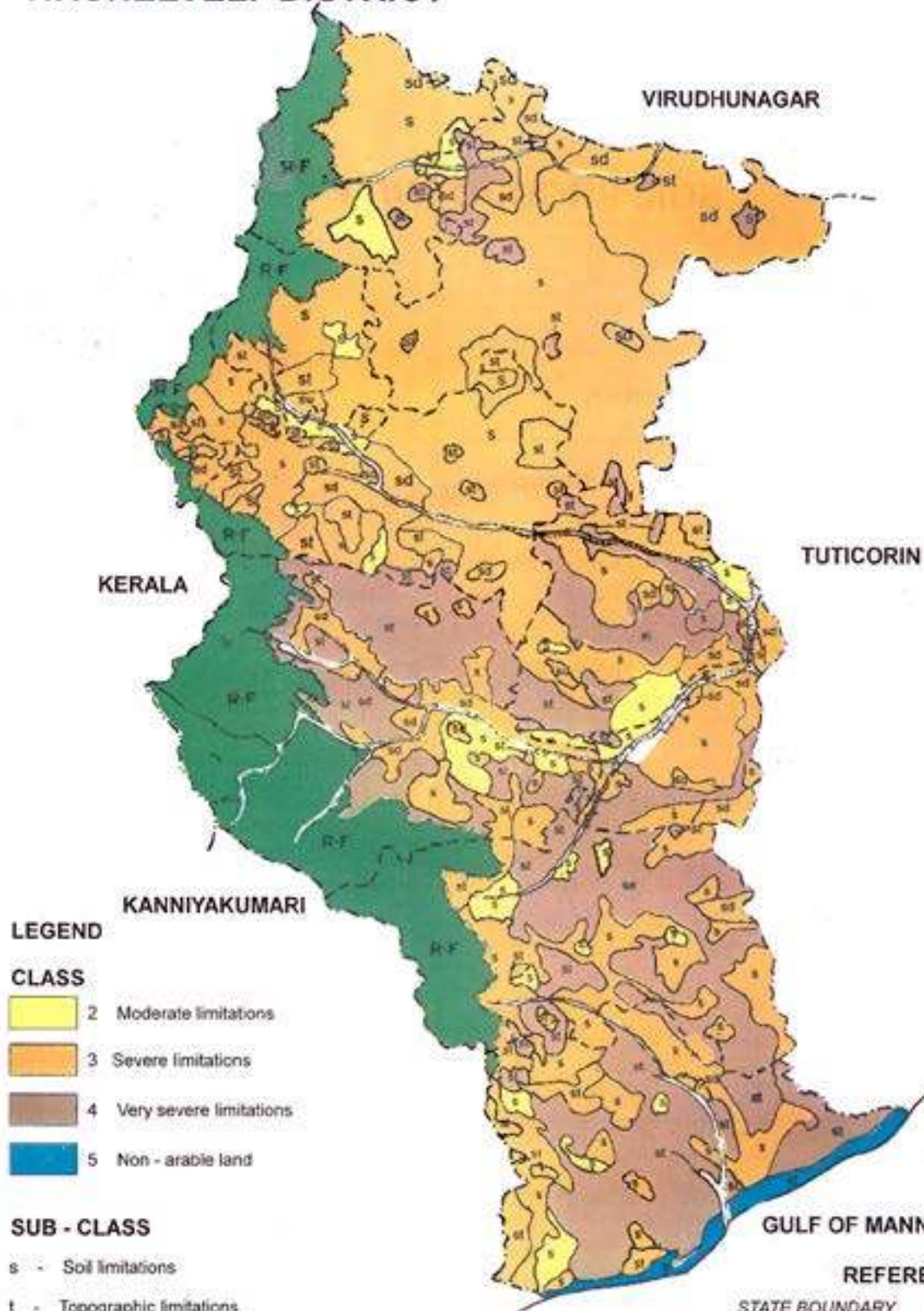
- 2** Lands that have moderate limitations for sustained use under irrigation.
- 3** Lands that have severe limitations for sustained use under irrigation.
- 4** Lands that have very severe limitations for sustained use under irrigation.
- 5** Currently not suitable for Irrigation

Sub class

- s** Soil limitation
- t** Topographical limitation
- d** Drainage hazards



LAND IRRIGABILITY TIRUNELVELI DISTRICT



LEGEND

CLASS

- 2 Moderate limitations
- 3 Severe limitations
- 4 Very severe limitations
- 5 Non - arable land

SUB - CLASS

- s - Soil limitations
- t - Topographic limitations
- d - Drainage hazards

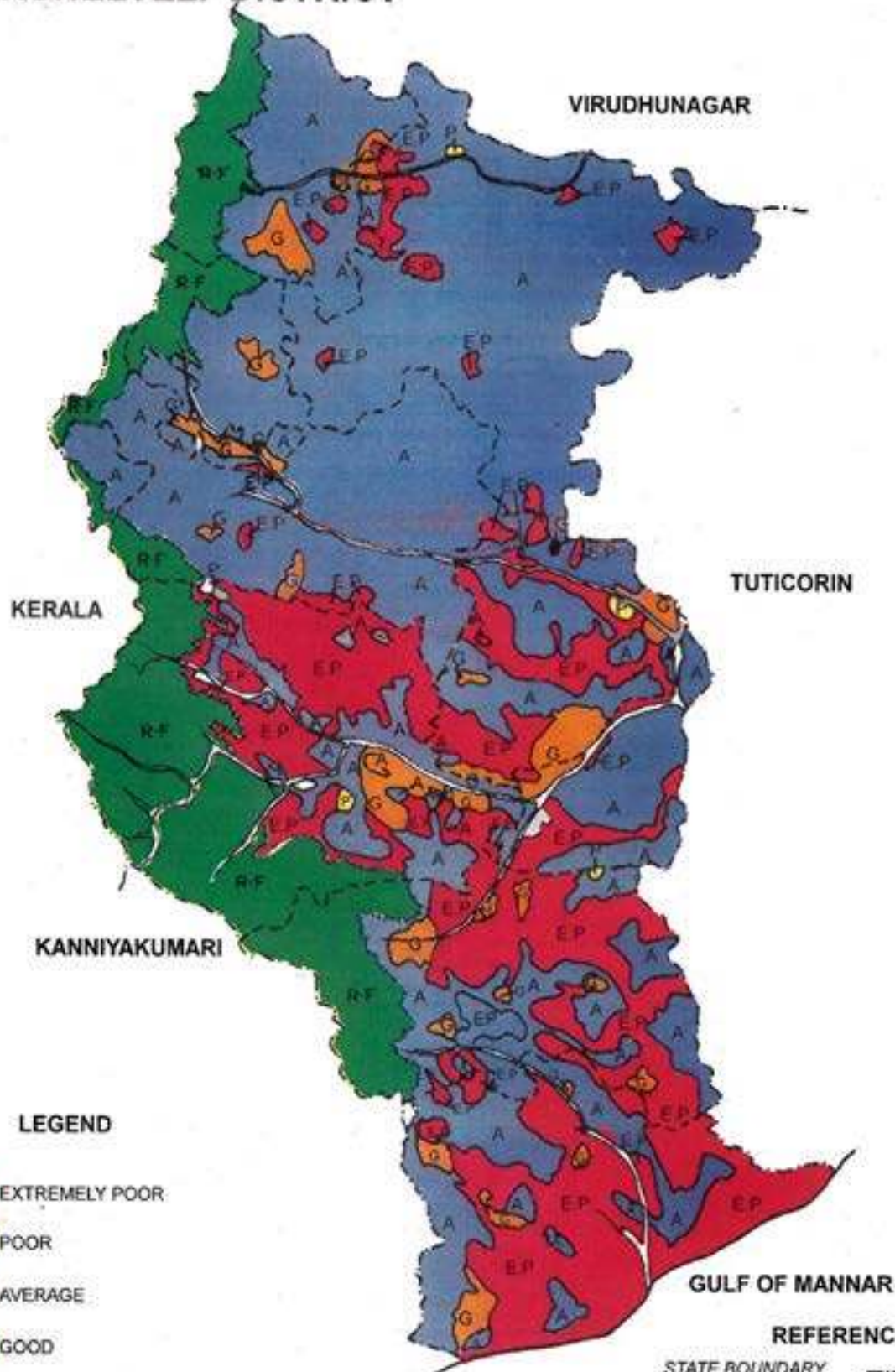
REFERENCE

- STATE BOUNDARY
- DISTRICT BOUNDARY
- TALUK BOUNDARY
- RIVER
- RESERVED FOREST

SOIL PRODUCTIVITY

Area (ha)	Productivity		Soil series
	Rating	Grouping	
1,59,001	0 - 7	Extremely Poor	Nanguneri, Thalaiyuthu, Perumanal, Uvari
931	8 - 19	Poor	Kallurani, Ayaneri
3,14,031	20 - 34	Average	Mayamankurichi, Tiruvengadam, Kadayanallur, Ambasamudram, Keelapavoor, Idayankulam, Manur, Sivalaperi, Taruvai, Karivalam, Pathamadaï
34,855	35 - 64	Good	Veeravanallur
—	65 - 100	Excellent	—

SOIL PRODUCTIVITY TIRUNELVELI DISTRICT

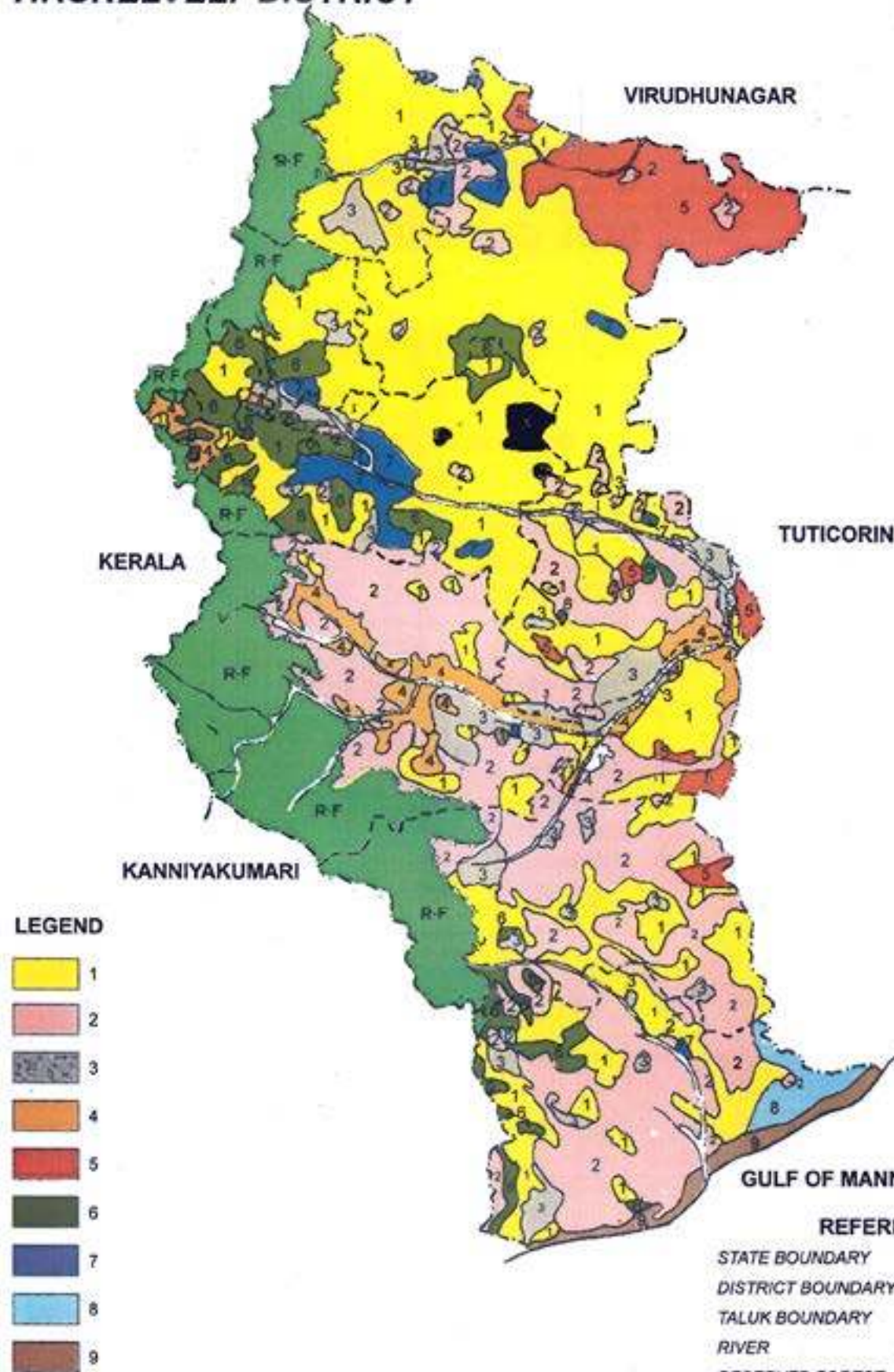


CROPS GROWN

Map symbol	Soil Series	Crops Grown	
		Rainfed	Irrigated
1	Mayamankurichi Manur	Millets, Pulses	Paddy, Banana, Chillies, Onion
2	Nanguneri Idayankulam Thalaiyuthu Kallurani Ayaneri	Minor millets, Pulses	—
3	Veeravanallur	Millets, Pulses	Paddy Banana Chillies Sugarcane Cotton Pulses
4	Ambasamudram Taruvai	—	Paddy, Banana, Pulses
5	Tiruvengadam Sivalaperi	Cotton, Millets, Sunflower, Coriander, Chillies, Pulses	—
6	Kadayanallur Pathamadaï	Pulses, Millets	Chillies, Cotton, Groundnut, Vegetables, Coconut, Orchard crops
7	Keelapavoor Karivalam	Cotton, Chillies, Millets	Chillies, vegetables
8	Uvari	Cashew, Palmyrah	—
9	Perumanal	Palmyrah	—



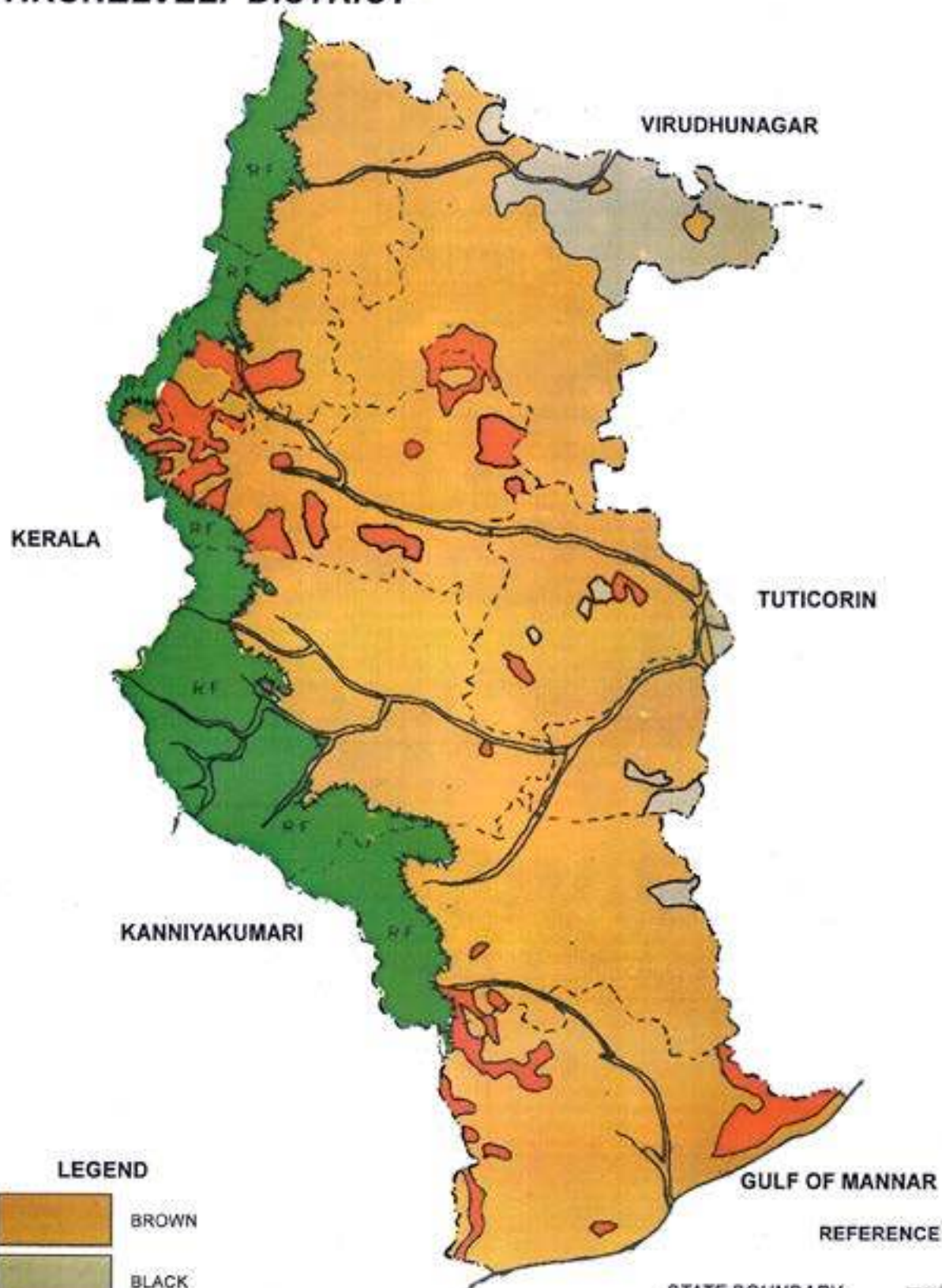
CROPS GROWN TIRUNELVELI DISTRICT



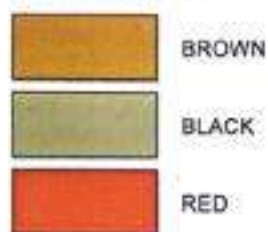
SOIL COLOUR

Red soil	Brown soil	Black soil
Kadayanallur Pathamadai Uvari	Mayamankurichi Veeravanallur Ambasamudram Nanguneri Keelapavoor Idayankulam Manur Taruvai Thalaiyuthu Kallurani Karivalam Ayaneri Perumanal	Tiruvengadam Sivalaperi
Area (ha) 34,756	4,37,750	36,312

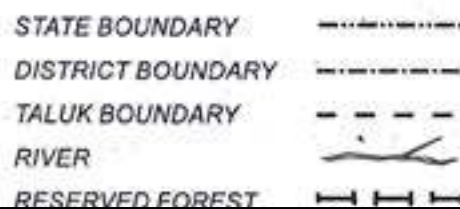
SOIL COLOUR TIRUNELVELI DISTRICT



LEGEND



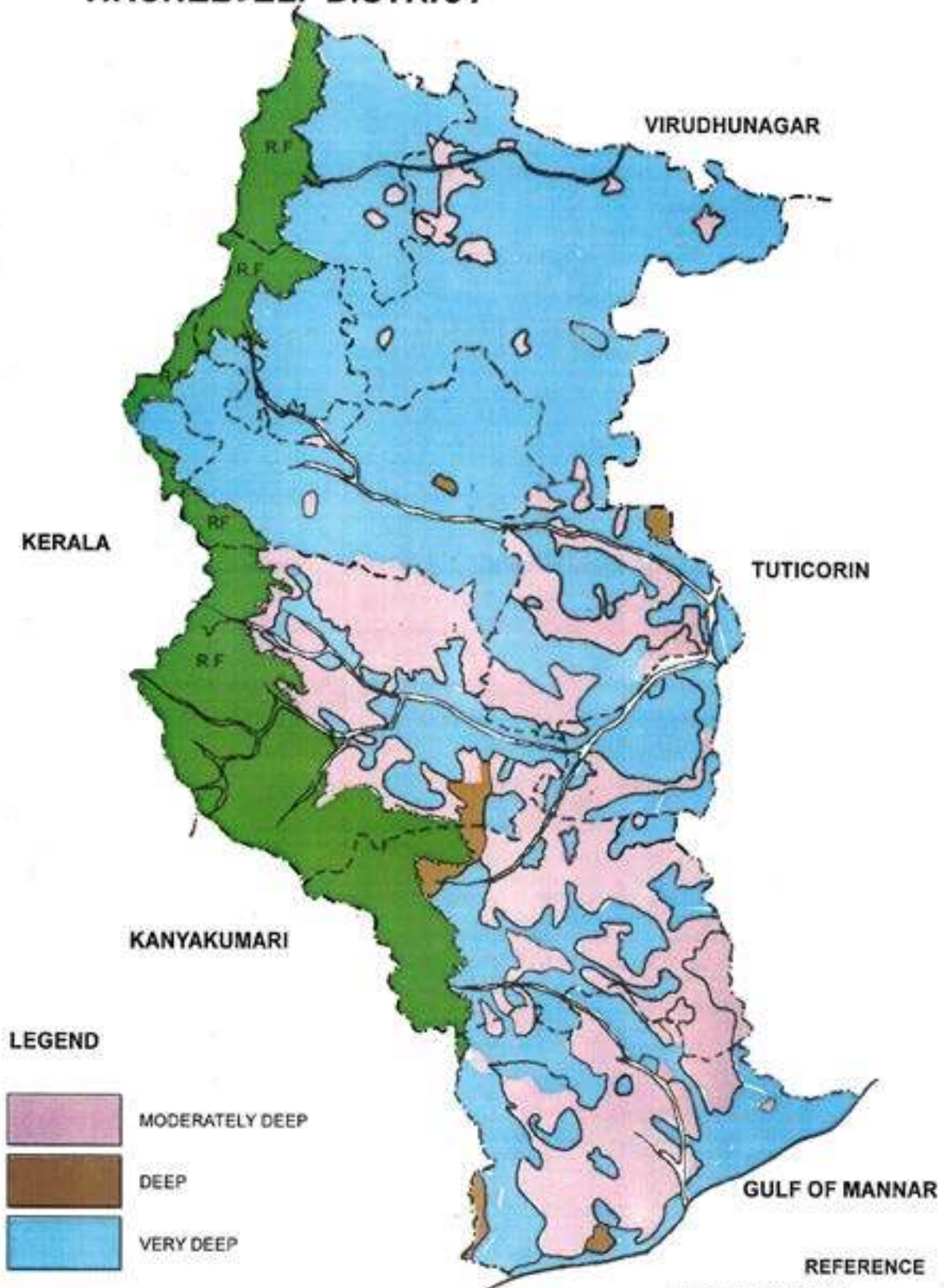
REFERENCE



DEPTH

Moderately Deep (25 - 50 cm)	Deep (50 - 100 cm)	Very Deep (above 100 cm)
Nanguneri Thalaiyuthu Kallurani Ayaneri	Idayankulam	Mayamankurichi Tiruvengadam Veeravanallur Kadayanallur Ambasamudram Keelapavoor Manur Sivalaperi Taruvai Pathamadai Karivalam Perumanal Uvari
Area (ha) 1,48,816	6,122	3,53,880

EFFECTIVE SOIL DEPTH TIRUNELVELI DISTRICT

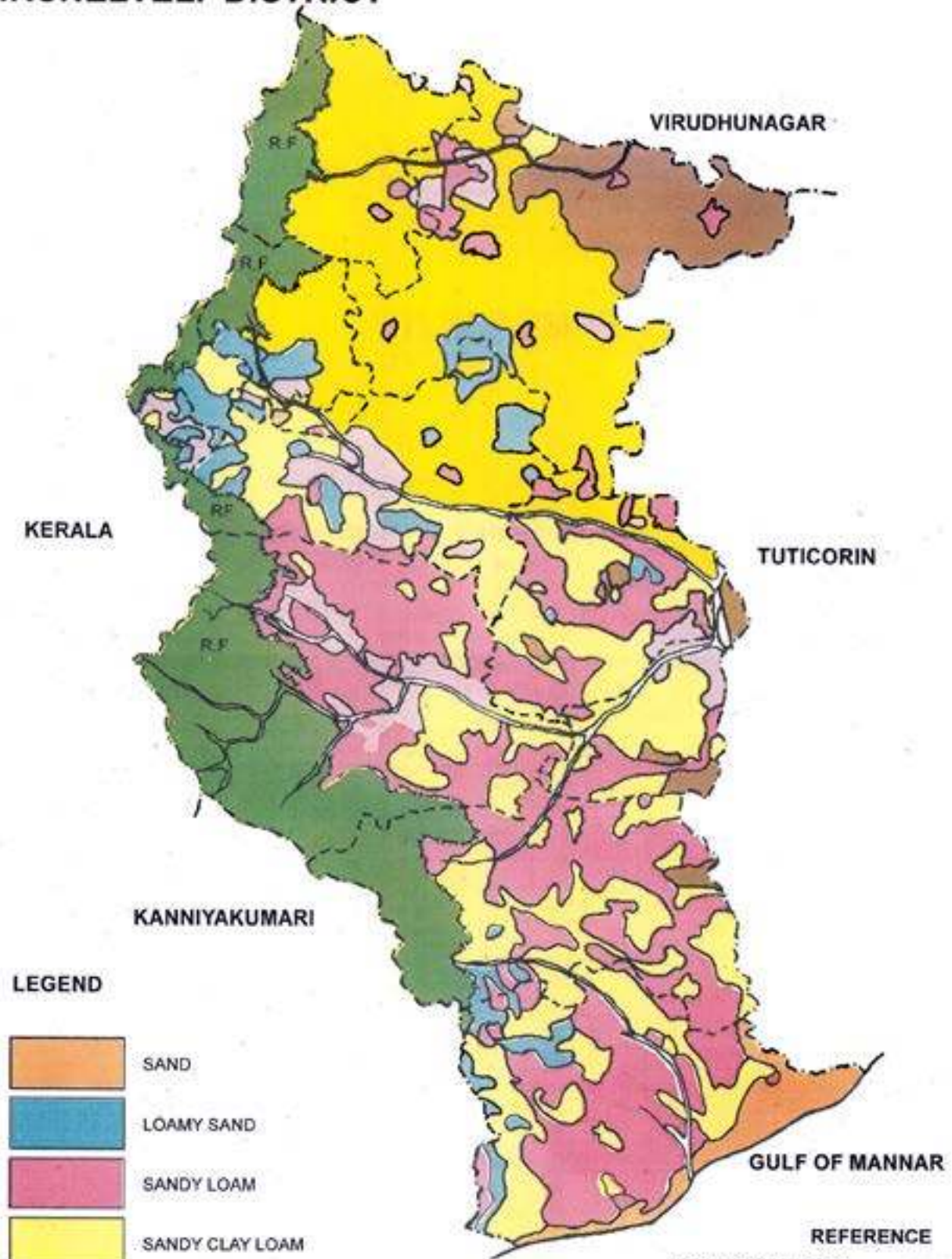


TEXTURE

Sand	Loamy Sand	Sandy loam	Sandy clayloam	Sandy clay	Clay
Perumanal Uvari	Kadayanllur	Nanguneri Idayankulam Thalaiyuthu Kallurani Pathamadai Ayaneri	Mayamankurichi Veeravanallur Manur Taruvai	Ambasamudram Keelapavoor Karivalam	Tiruvengadam Sivalaperi
Area (ha) 11,116	29,596	1,55,078	2,44,552	32,164	36,312



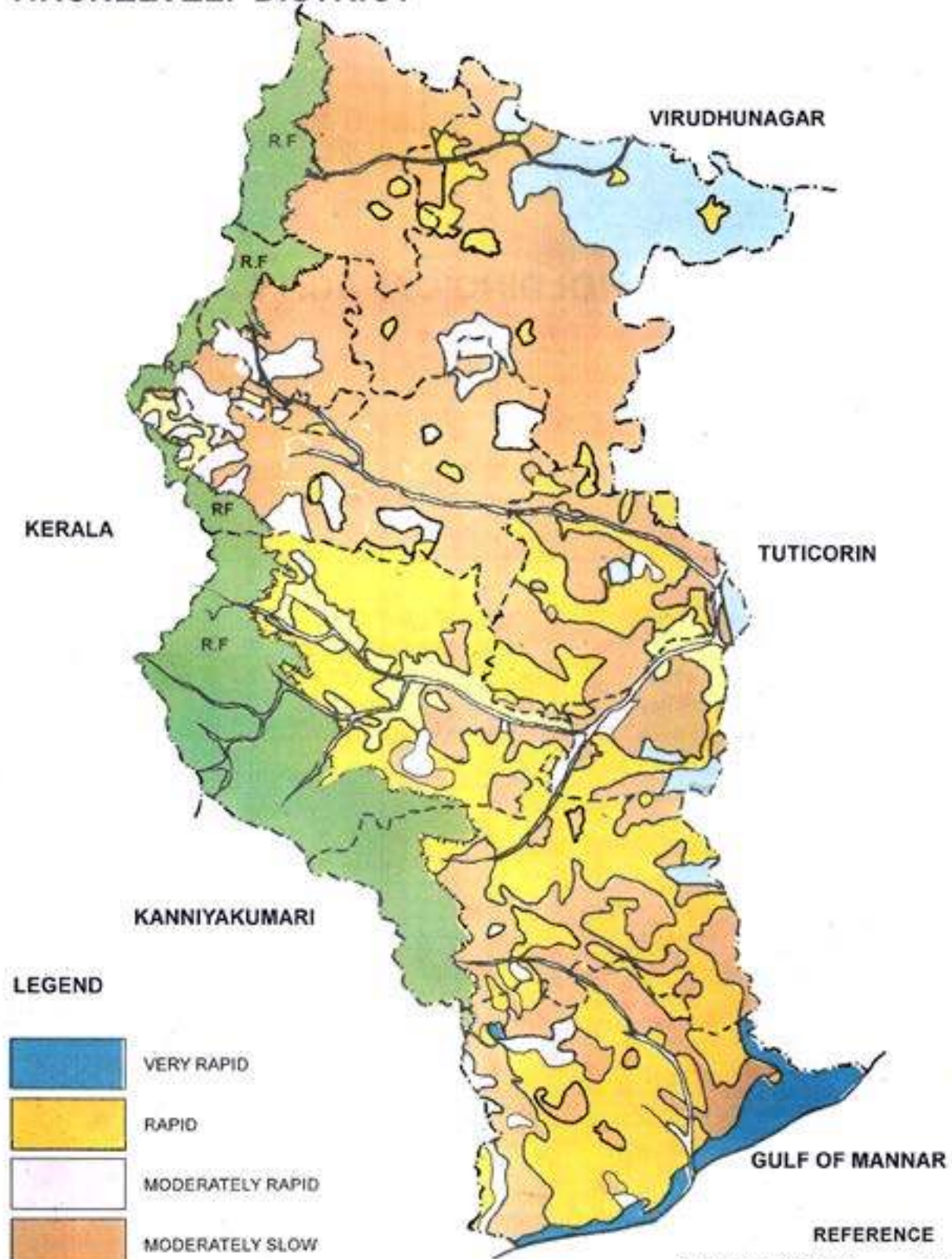
SOIL TEXTURE TIRUNELVELI DISTRICT



PERMEABILITY

Very slow	Slow	Moderately slow	Moderately rapid	Rapid	Very rapid
Tiruvengadarm Sivalaperi	Ambasamudram	Mayamankurichi Veeravanallur Keelapavoor Manur Karivalam	Kadayanallur Taruvai Pathamadaai	Nanguneri Idayankulam Thalaiyuthu Kallurani Ayaneri	Peumanal Uvari
Area (ha) 36,312	18,692	2,55,870	31,890	1,54,938	11,116

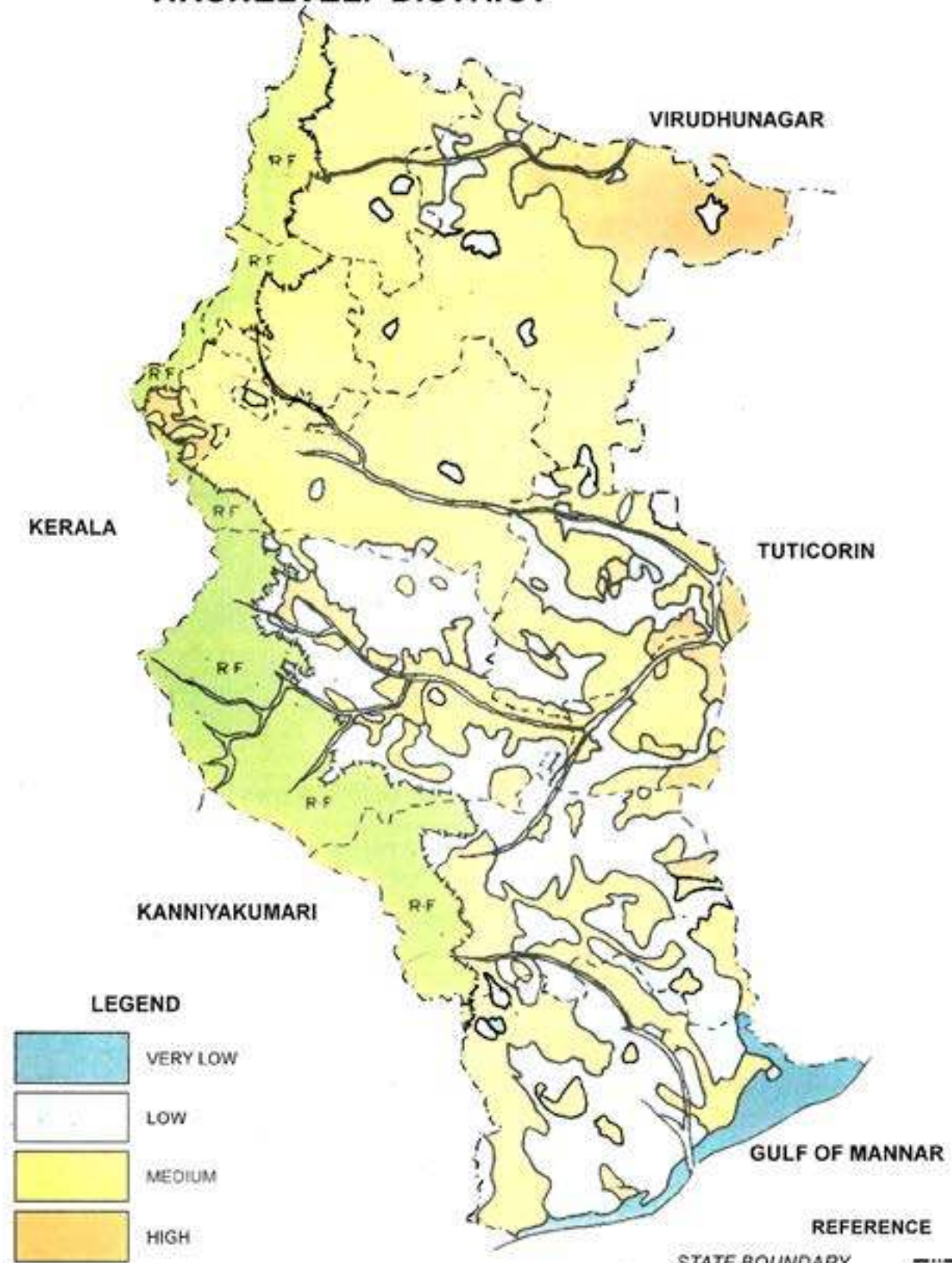
PERMEABILITY TIRUNELVELI DISTRICT



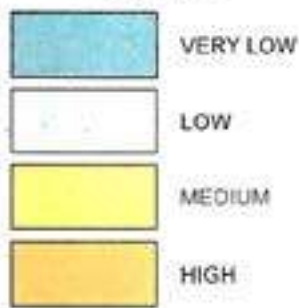
WATER HOLDING CAPACITY

Very low	Low	Medium	High
Perumanal Uvari	Nanguneri Idayankulam Taruvai Thalalyuthu Kallurani Pathamadai Ayaneri	Mayamankurichi Veeravanallur Kadayanallur Keelapavoor Manur Karivalam	Tiruvengadam Sivalaperi Ambasamudram
Area (ha) 11,116	1,57,232	2,85,466	55,004

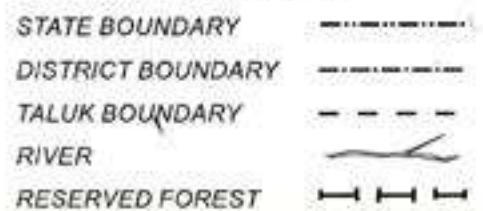
WATER HOLDING CAPACITY TIRUNELVELI DISTRICT



LEGEND



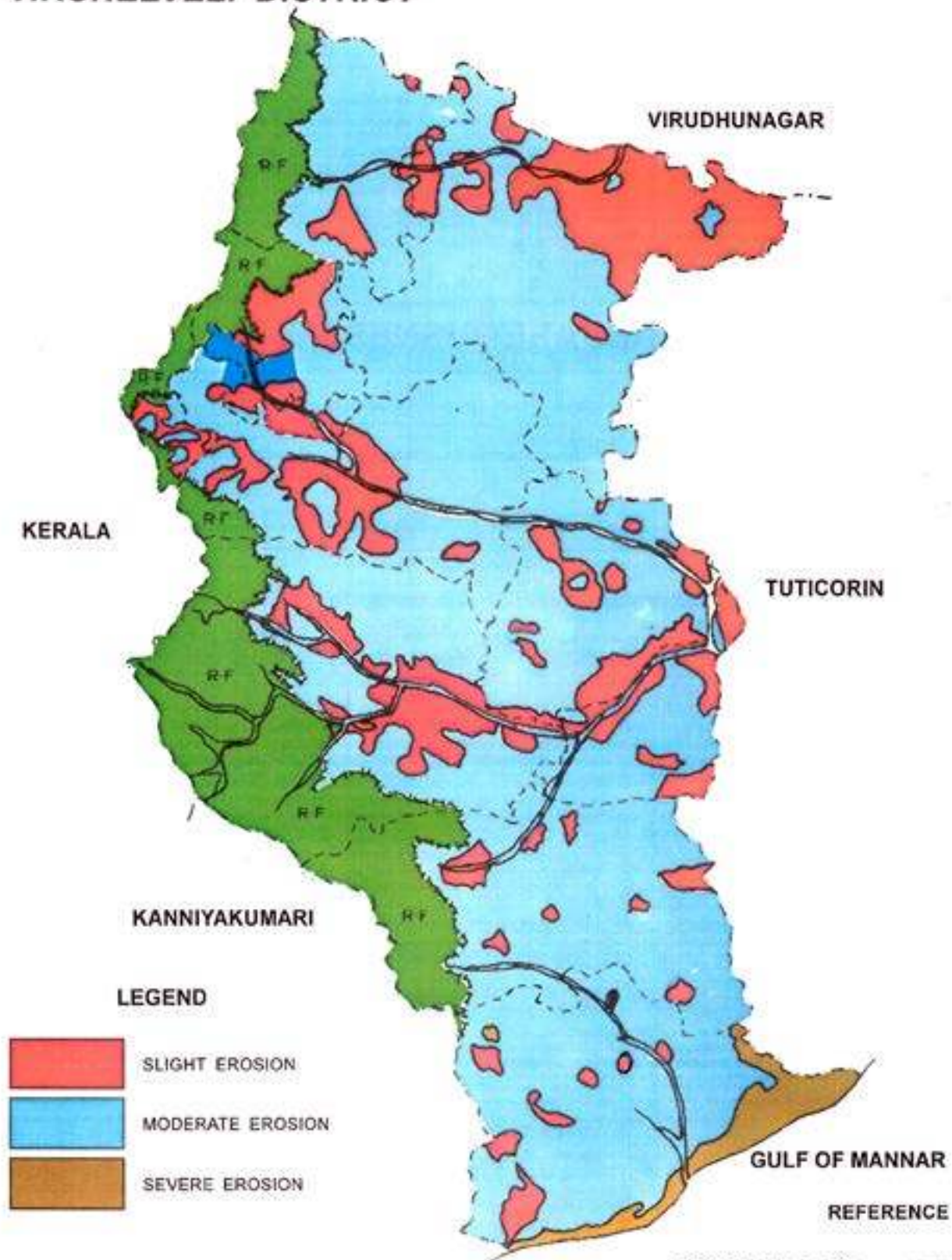
REFERENCE



EROSION

Slight Erosion	Moderate Erosion	Severe Erosion
Tiruvengadam Veeravanallur Ambasamudram Keelapavoor Manur Sivalaperi Taruvai Karivalam	Mayamankurichi Kadayanallur Nanguneri Idayankulam Thalaiyuthu Kallurani Pathamadai Ayaneri	Perumanal Uvari
Area (ha)	Area (ha)	Area (ha)
1,16,008	3,81,694	11,116

EROSION TIRUNELVELI DISTRICT

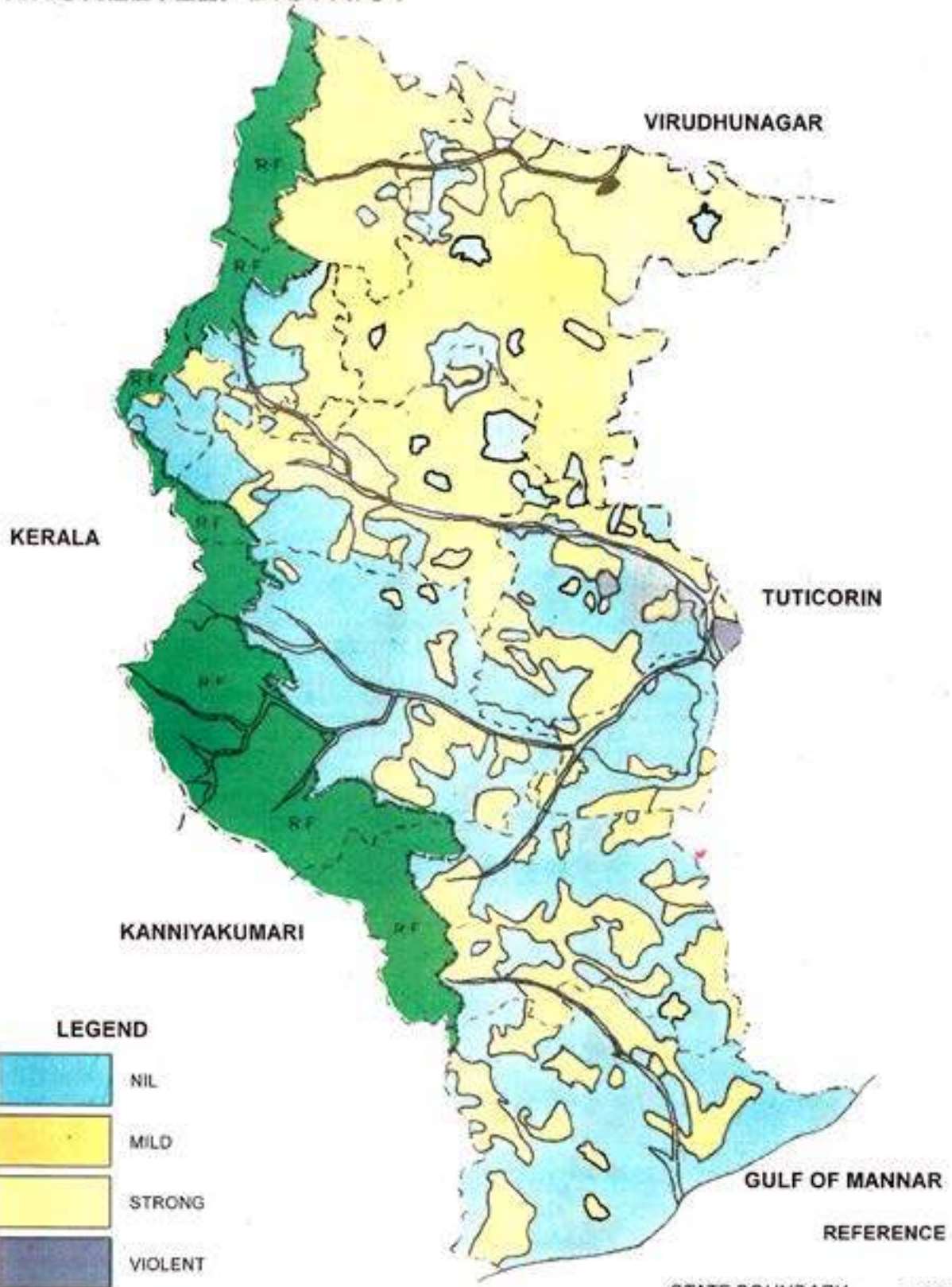


CALCAREOUSNESS

Nil	Mild	Strong	Violent
Kadayanallur Ambasamudram Nanguneri Idayankulam Manur Thalaiyuthu Kallurani Perumanal Uvari Pathamadai Ayaneri	Mayamankurichi Taruvai Veeravanallur	Tiruvengadam Karivalam Keelapavoor	Sivalaperi
Area (ha) 2,25,005	2,34,029	47,769	2,015

CALCAREOUSNESS

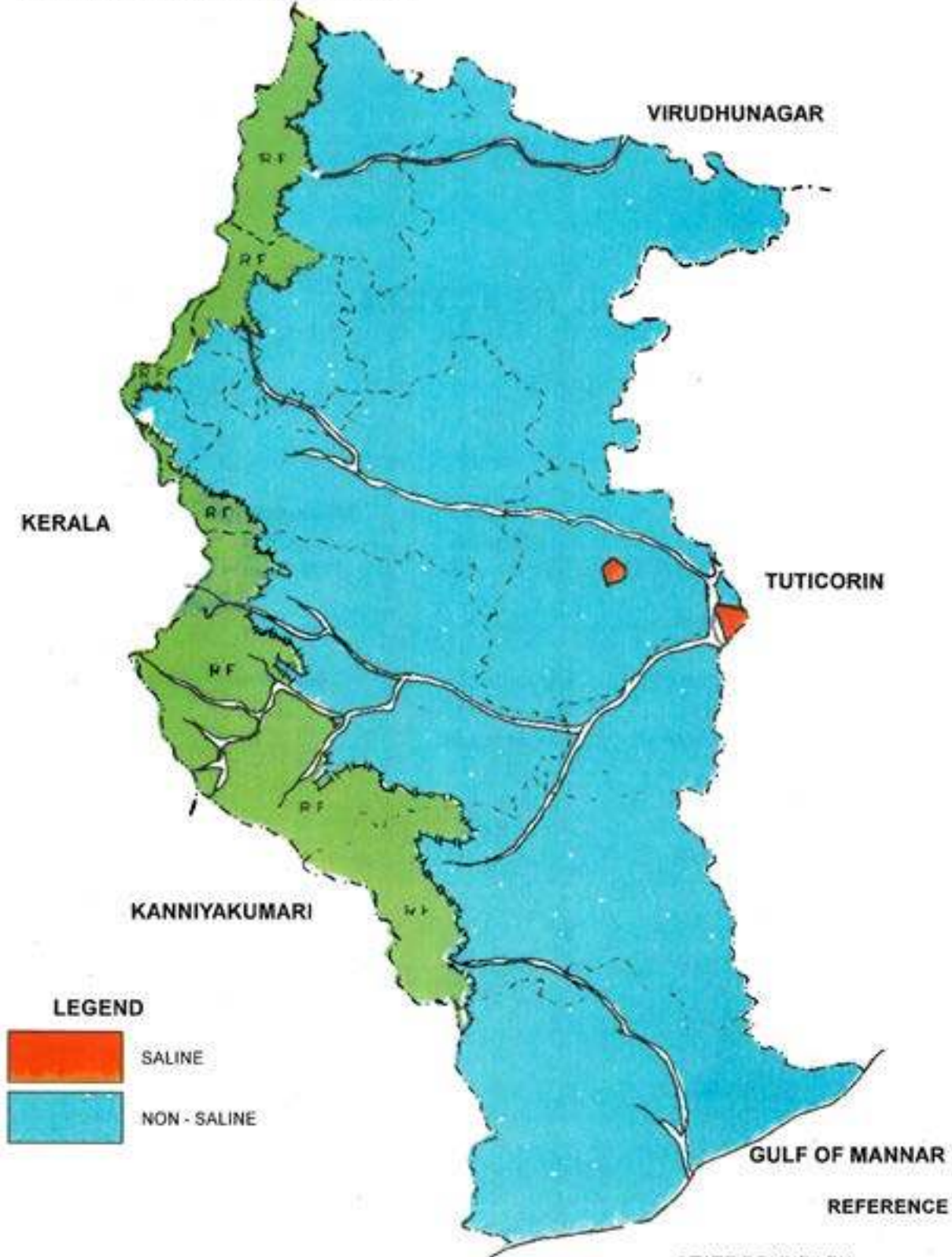
TIRUNELVELI DISTRICT



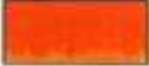
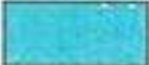
SALINITY

Category	Soil Series	Area (ha)
1. Saline	Sivalaperi	2015
2. Non - Saline	All other soil series	5,06,803

SALINITY TIRUNELVELI DISTRICT



LEGEND

	SALINE
	NON - SALINE

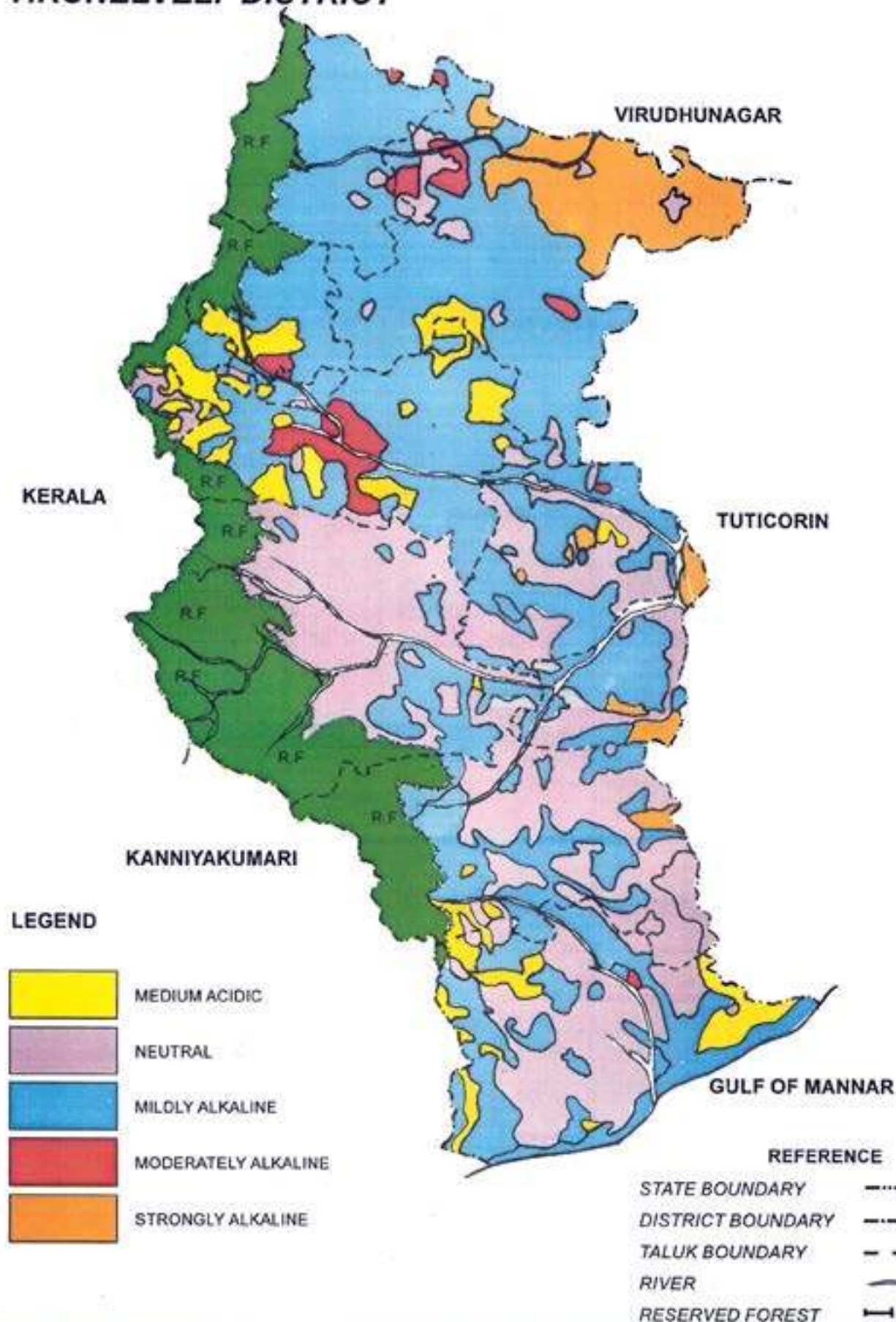
REFERENCE

STATE BOUNDARY	-----
DISTRICT BOUNDARY	-----
TALUK BOUNDARY	- - - - -
RIVER	
RESERVED FOREST	

SOIL REACTION

Medium acidic (5.6 - 6.0)	Neutral (6.6 - 7.3)	Mildly alkaline (7.4 - 7.8)	Moderately alkaline (7.9 - 8.4)	Strongly alkaline (8.5 - 9.0)
Kadayanallur Pathamadai Uvari	Ambasamudram Nanguneri Thalaiyuthu Kallurani Ayaneri	Mayamankurichi Veeravanallur Idayankulam Manur Taruvai Perumanal	Keelapavoor Karivalam	Tiruvengadam Sivalaperi
Area (ha) 34,756	1,67,508	2,56,770	13,472	36,312

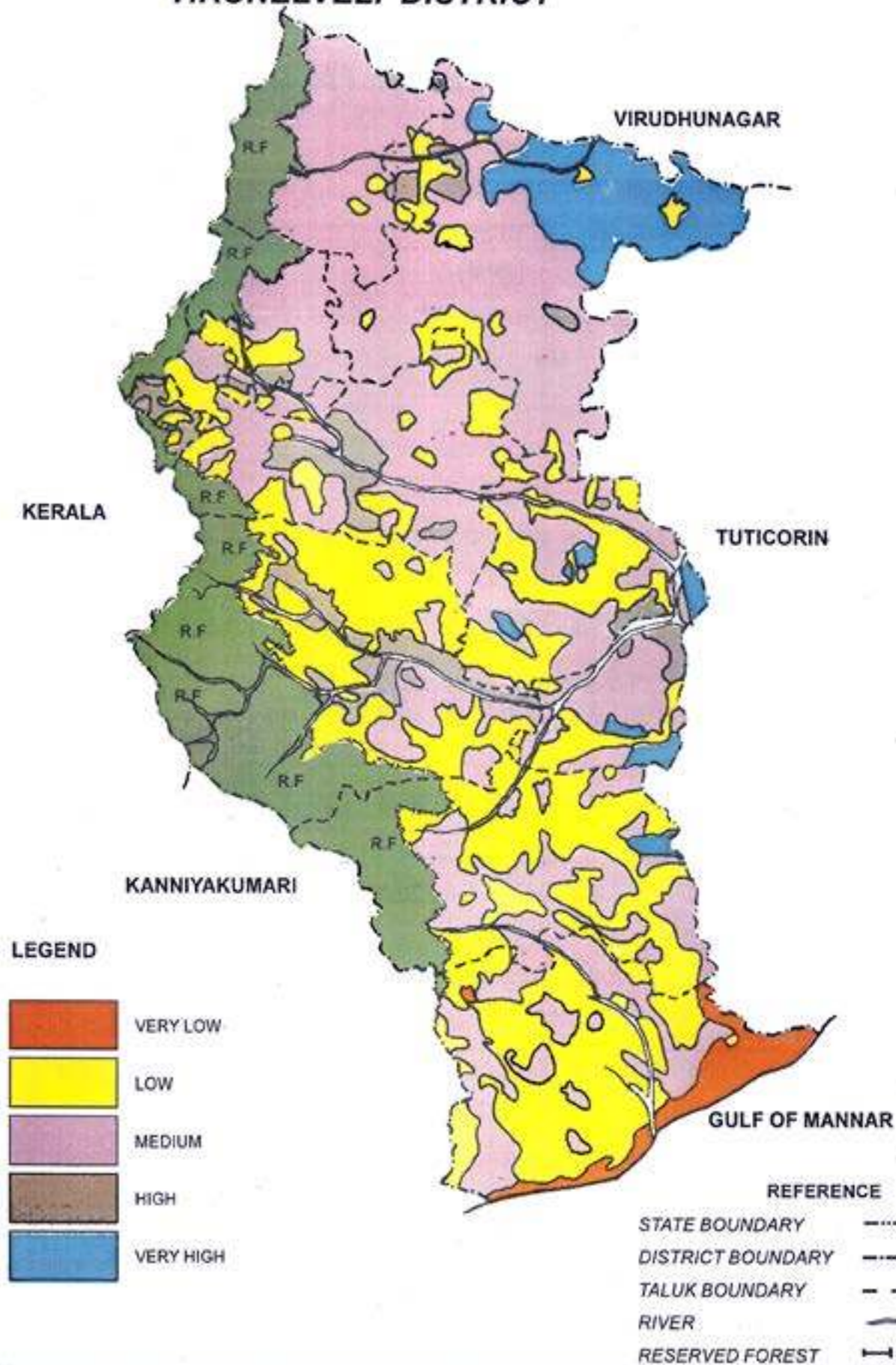
SOIL REACTION TIRUNELVELI DISTRICT



CATION EXCHANGE CAPACITY

Very low	Low	Medium	High	Very high
Perumanal Uvari	Kadayanallur Nanguneri Thalaiyuthu Kallurani Pathamada Ayaneri Idayankulam	Mayamankurichi Veeravanallur Manur Taruvai	Ambasamudram Keelapavoor Karivalam	Tiruvengadam Sivalaperi
Area (ha) 11,116	1,84,674	2,44,552	32,164	36,312

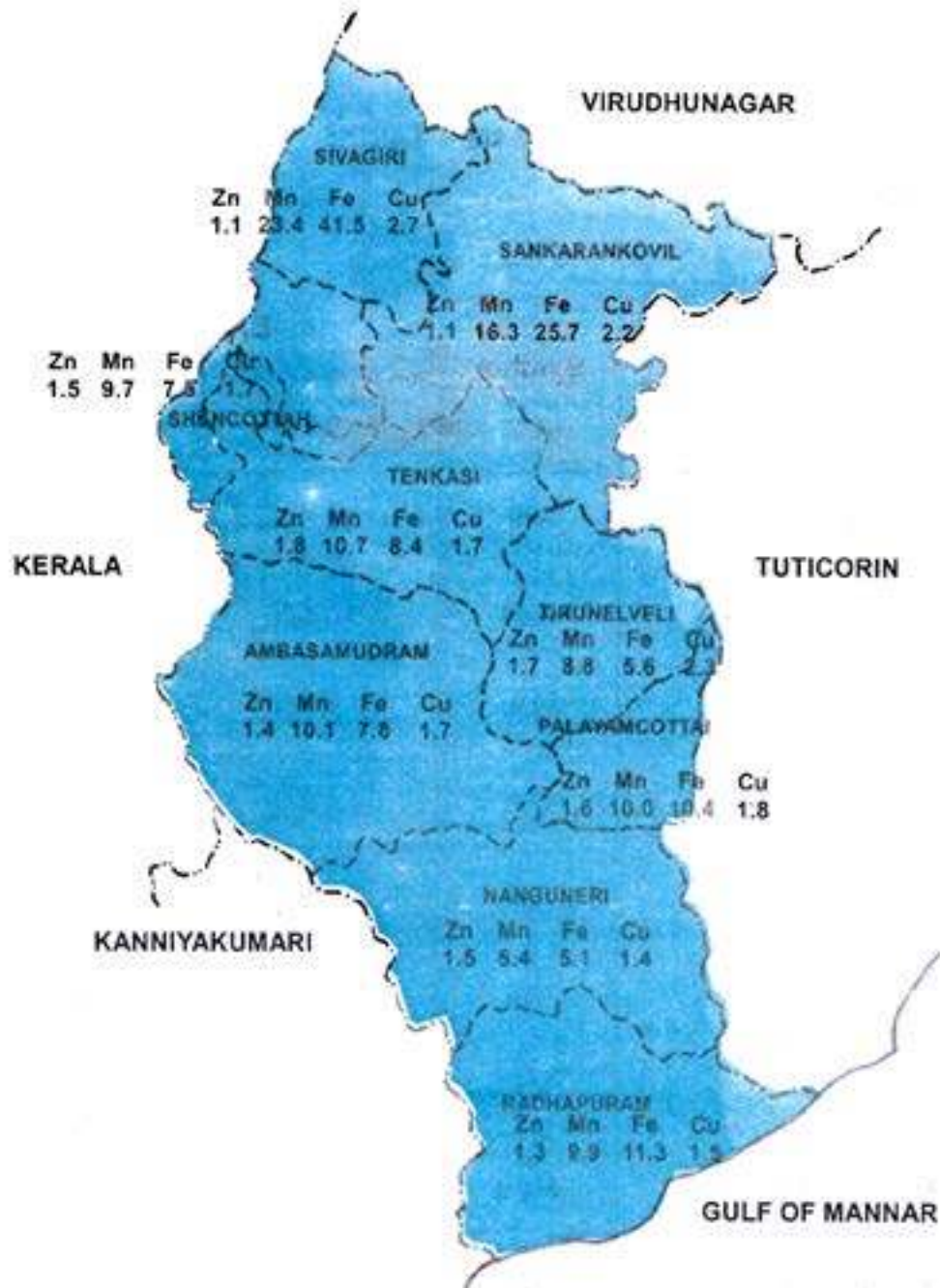
CATION EXCHANGE CAPACITY TIRUNELVELI DISTRICT



MICRONUTRIENT STATUS

Taluk	(PPM)				Index			
	Zn	Mn	Fe	Cu	Zn	Mn	Fe	Cu
1. AMBASAMUDRAM	0.5 - 2.8	1.8 - 21.2	2.6 - 20.0	0.5 - 3.8	1.4	10.1	7.8	1.7
2. NANGUNERI	0.9 - 2.8	2.8 - 21.2	2.7 - 20.0	0.7 - 3.8	1.5	5.4	5.1	1.4
3. PALAYAMCOTTAI	0.6 - 2.5	2.8 - 39.0	1.9 - 82.0	0.7 - 4.1	1.6	10.0	10.4	1.8
4. RADHAPURAM	0.8 - 2.5	2.8 - 39.0	2.5 - 82.0	0.7 - 4.1	1.3	9.9	11.3	1.5
5. SANKARANKOVIL	0.7 - 1.9	4.3 - 39.0	1.9 - 82.0	0.9 - 4.1	1.1	16.3	25.7	2.2
6. SHENCOTTAI	1.1 - 1.9	2.8 - 21.2	3.0 - 20.0	0.9 - 3.8	1.5	9.7	7.5	1.7
7. SIVAGIRI	0.7 - 1.9	7.2 - 39.0	3.0 - 82.0	0.9 - 4.1	1.1	23.4	41.5	2.7
8. TENKASI	0.5 - 1.9	1.8 - 18.8	2.7 - 18.0	0.5 - 3.8	1.8	10.7	8.4	1.7
9. TIRUNELVELI	0.7 - 1.9	2.8 - 16.3	2.7 - 13.1	0.7 - 3.6	1.7	8.8	5.6	2.3

MICRONUTRIENT STATUS TIRUNELVELI DISTRICT



LEGEND

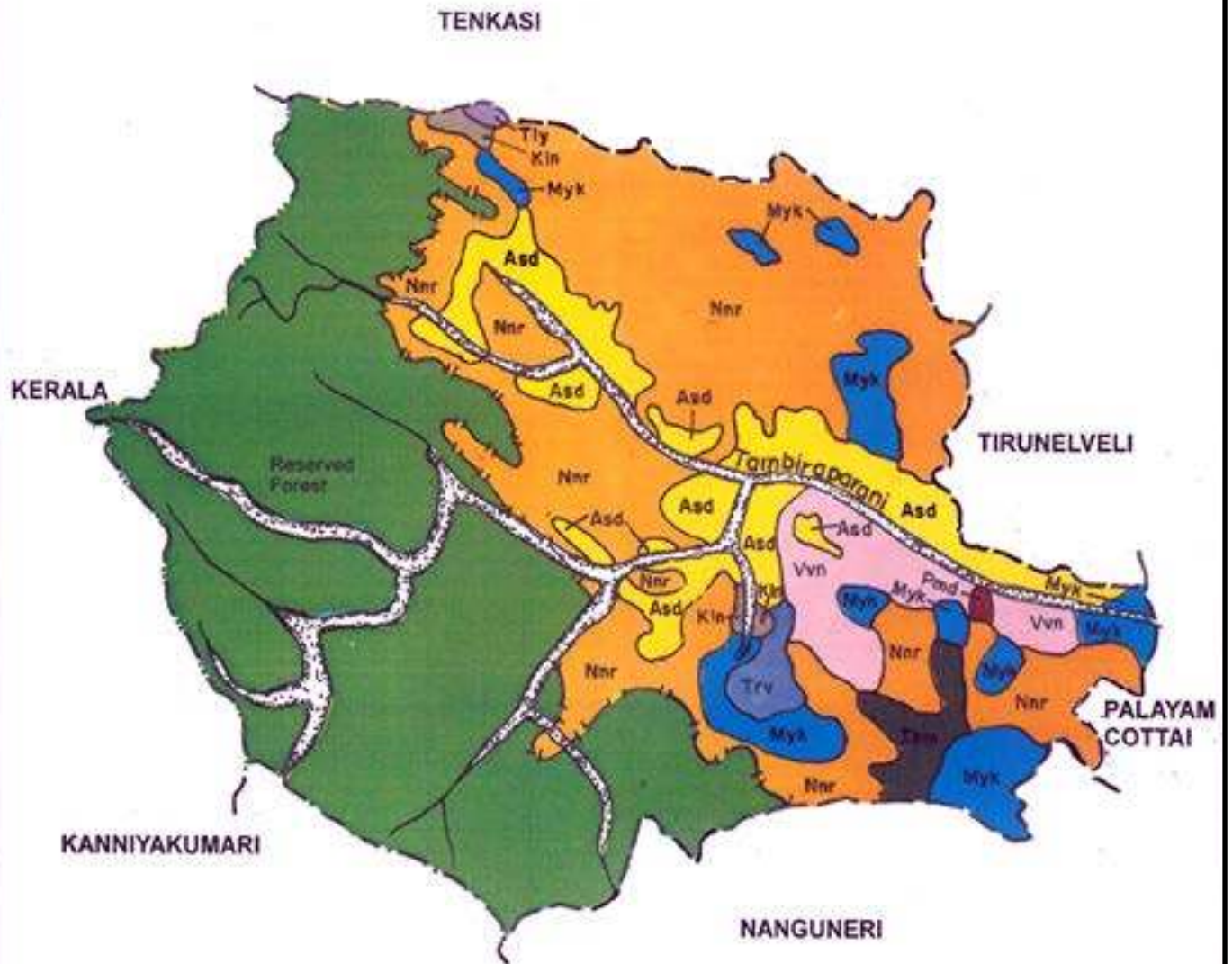
- Zn - Zinc
- Mn - Manganese
- Fe - Iron
- Cu - Copper

SOILS

AMBASAMUDRAM TALUK

Soil series	Symbol	Extent	
		ha	%
1. Nanguneri	Nnr	38,584	57.15
2. Ambasamudram	Asd	10,620	15.72
3. Mayamankurichi	Myk	8,528	12.63
4. Veeravanallur	Vvn	6,432	9.53
5. Idayankulam	lkm	1,775	2.63
6. Taruvai	Trv	1,116	1.65
7. Kallurani	Kln	200	0.30
8. Pathamadaï	Pmd	140	0.21
9. Thalaiyuthu	Tly	120	0.18
Total		67,515	100.00

SOILS AMBASAMUDRAM TALUK



LEGEND

Nnr	Nanguneri
Asd	Ambasamudram
Myk	Mayamankurichi
Vvn	Veeravanallur
Idy	Idayankulam
Trv	Taruvali
Kin	Kallurani
Pnd	Pathamadai
Tly	Thalaiyuthu

VILLAGE WISE FERTILITY STATUS AND SOIL SERIES

AMBASAMUDRAM TALUK

Name of the village	Fertility status (kg/ac)			Dominant soil series
	Nitrogen	Phosphorus	Potassium	
(1)	(2)	(3)	(4)	(5)
1. Adaichani	81	11	145	Asd Nnr
2. Adiyakarunkulam	68	11	135	Nnr Tly
3. Alwarkurichi	78	9	115	Asd Nnr
4. Aladiyoor	90	13	249	Nnr Myk
5. Anainelaperumalnathanur	86	9	250	Nnr Myk
6. Anjankatalai	93	10	280	Nnr Myk
7. Arasankulam	90	10	205	Asd
8. Attanallur	76	11	200	Vvn
9. Brahmadesam	88	9	185	Asd
10. Cheranmadevi	89	14	155	Vvn
11. Cherankovilpattu	58	10	120	Nnr lkm
12. Chokkalingapuram	78	10	175	Vnn
13. Desamanikkam	82	9	185	Vvn
14. Dharmapuramadam	78	11	220	Nnr Asd
15. Ekamparapuram	96	9	195	Asd Nnr
16. Graiammalpuram	92	10	185	Vvn
17. Gopalasamudram	81	9	102	Vvn Nnr
18. Govindaperi	82	12	260	Nnr Asd
19. Harikesavanallur	80	8	200	Nnr
20. Idaikal	82	11	225	Nnr Asd
21. Illuppaikuruchi	84	8	205	Asd

(1)	(2)	(3)	(4)	(5)
21. Keelanilithanallur	74	7	173	Myk
22. Kalapalankulam	68	9	165	Myk
23. Karisalkulam	87	5	156	Myk
24. Kulakattakuruchi	92	4	305	Tvm
25. Kuruvikulam (North)	81	3	295	Tvm Myk
26. Kurunjakulam	50	4	234	Tvm
27. Kurivikulam (South)	70	6	284	Myk
28. Karisalkulam	49	4	245	Tvm Myk
29. Kalingapatti	73	5	200	Tvm Myk
30. Kallaparkulam	52	9	185	Myk Nnr
31. Kuvalaikanni	63	10	172	Klp Myk
32. Kulasekaraperi	66	10	145	Myk Vvn
33. Karivalamvandanallur	80	12	136	Klp Kvm
34. Karisattan	68	6	160	Myk
35. lakshmiammalpuram	87	6	325	Tvm
36. Madathupatti	87	7	186	Myk
37. Marudappapuram	58	12	163	Myk
38. Melaneelithanallur	69	13	187	Myk Nnr
39. Maruthamkinaru	62	6	125	Myk Klp
40. Moovirundali	97	6	175	Myk
41. Melailandaikulam	72	10	117	Myk
42. Mukkutumalai	92	7	285	Tvm
43. Maiparai	84	4	252	Tvm
44. Magendravadi	68	5	180	Myk Klp
45. A. Madurapuri	91	5	270	Tvm
46. Madurapuri	68	9	192	Myk

(1)	(2)	(3)	(4)	(5)
49. Nayinarkulam	55	10	185	Vvn Asd
50. Odaimarichan	64	10	195	Nnr Myk
51. Omanallur	75	9	180	Nnr
52. Pallakkal	75	10	181	Asd Nnr
53. Pananjadi	110	12	78	Asd
54. Pappakudi	74	10	154	Asd Nnr
55. Pappankulam	83	14	178	Nnr Myk
56. Pappankulam	53	13	183	Nnr Myk
57. Pathamada	100	15	74	Nnr Pmd
58. Pirancheri	98	4	115	Nnr Vvn
59. Potalpudur	73	9	360	Nnr Asd
60. Poongudiyarkulam	55	9	225	Myk
61. Pudukkudi	75	10	181	Nnr Vvn
62. Pudupatti	74	75	231	Nnr Myk
63. Ravanasmudram	88	11	110	Asd Nnr
64. Rangasmudram	65	9	84	Asd
65. Ravuttapperi	90	10	175	Nnr
66. Sattupatti	64	11	190	Asd
67. Sengulam	57	8	140	Nnr Asd
68. Singampatti	88	9	125	Asd Nnr
69. Singampatti	54	9	123	Nnr Asd
70. Sivanthipuram	88	11	145	Nnr Asd
71. Sivanthi Esanamadam	89	13	130	Asd
72. Sivasailam	87	11	140	Nnr Asd
73. Therku Ariyanayagipuram	80	7	180	Vvn Asd
74. Therukadayam	74	12	102	Asd Nnr
75. Therkumadathur	75	5	120	Nnr

(1)	(2)	(3)	(4)	(5)
76. Therkukallidaikurichi	91	13	101	Trv Myk
77. Merkukaraikurichi	79	10	154	lkm
78. Thenthirupouvanam	92	8	170	Vvn Asd
79. Thimmarajasamudram	92	14	122	Asd Nnr
80. Tiruppudaimarudur	93	7	138	Vvn Asd
81. Thiruváliswaram	74	10	110	Asd Nnr
82. Tiruviruthanpulli	77	8	189	lkm Myk
83. Tiruttu	88	11	125	Asd Vvn
84. Therkuveeravanallur	94	14	103	Vvn Myk
85. Tuppakudi	70	11	125	Nnr
86. Udayampulli	86	11	159	Nnr Myk
87. Udayamarthandapuram	70	12	96	Asd Vvn
88. Ulagankulam	88	11	145	Myk lkm
89. Umayammalpuram	56	3	115	Pmd Vvn
90. Urkadu	97	9	177	Asd
91. Vadakku Ariyanayakipuram	84	14	128	Nnr Asd
92. Vadakkukarikurichi	86	9	187	Vvn
93. Vadakkuveravanallur	104	14	335	Vvn
94. Vagaikulam	100	15	88	Asd
95. Vellanguli	103	14	176	Vvn Asd
96. Venkadampatti	82	9	125	Nnr
97. Venkatarengapuram	75	11	156	Myk
98. Veetirunthankulam	75	11	145	Nnr Vvn
99. Vikramasingapuram	76	13	105	Nnr Asd
100. Vairavikulam	86	12	150	Nnr Asd
101. Virasamudram	90	10	170	Asd

LAND CAPABILITY

AMBASAMUDRAM TALUK

Area (ha)	Land capability classification	Soil series	Limitation	Needs
6,432	II s	Veeravanallur	Mild alkalinity	Addition of organic manures
9,644	III s	Mayamankurichi Taruvai	Crusting Mild alkalinity	Addition of organic manures
1,915	III se	Idayankulam Pathamadai	Coarse texture Low CEC Erosion	Addition of tank silt & organic manures
10,620	III sw	Ambasamudram	Crusting Severe wetness	Addition of organic manures Drainage
38,904	IV se	Nanguneri Thalaiyuthu Kallurani	Shallow depth Low WHC & CEC Coarse texture Erosion	Selection of crops Addition of tank silt & organic manures Soil conservation

Class

- II** Good cultivable lands that have moderate limitations for sustained use under agriculture
- 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

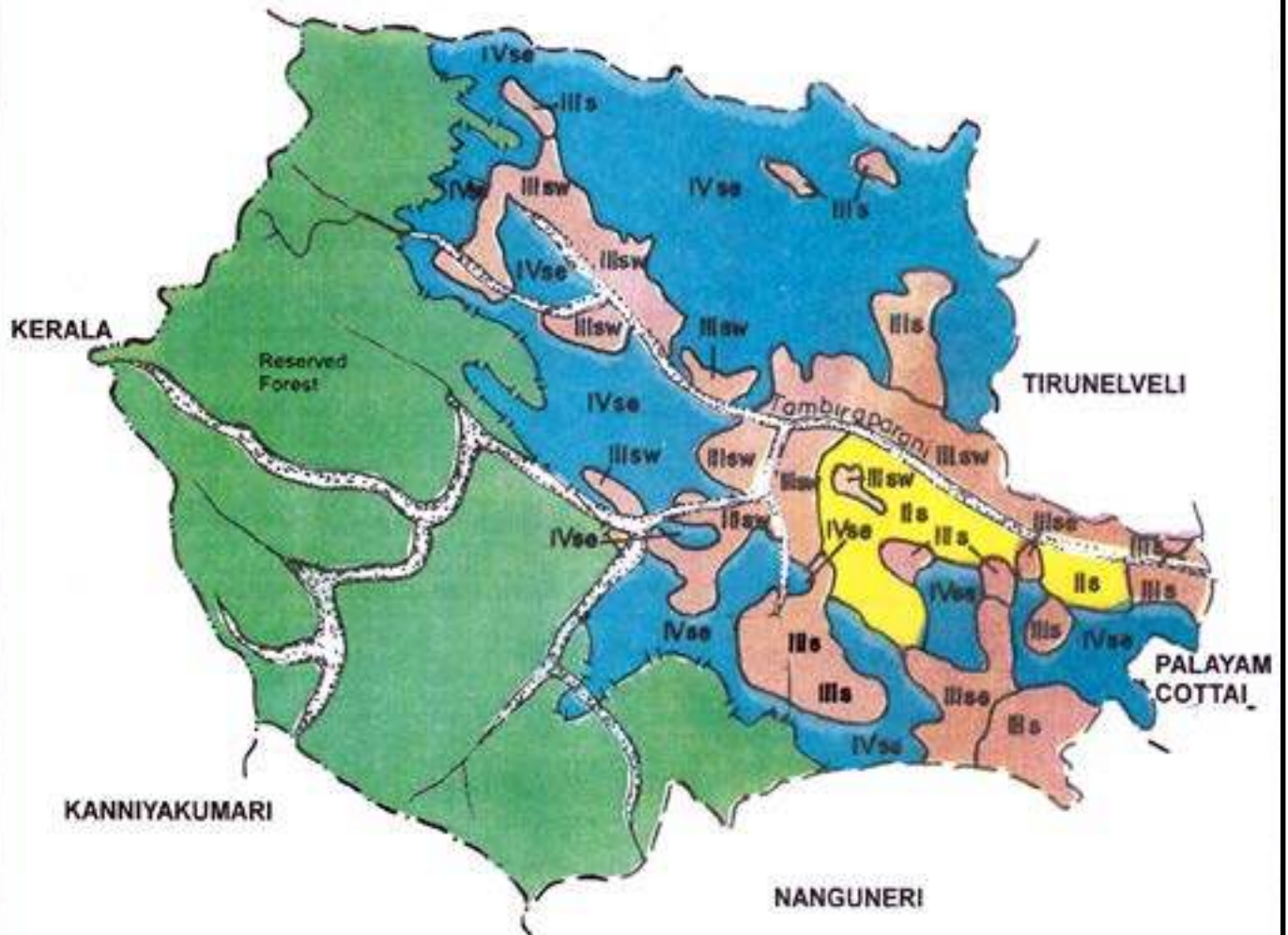
Sub class

- s** Root zone limitation
- e** Erosion and run off
- w** Wetness

LAND CAPABILITY
AMBASAMUDRAM TALUK



TENKASI



LEGEND

CLASS

- II Moderate limitations
III Severe limitations
IV Very severe limitations

SUB CLASS

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

LAND IRRIGABILITY

AMBASAMUDRAM TALUK

Area (ha)	Land irrigability classification	Soil series	Limitation
6,432	2 s	Veeravanallur	Mild alkalinity
9,644	3 s	Mayamankurichi Taruvai	Mild alkalinity
1,915	3 st	Idayankulam Pathamadaai	Coarse texture Topography
10,620	3 sd	Ambasamudram	Drainage hazard Crusting
38,904	4 st	Nanguneri Thalaiyuthu Kallurani	Shallow depth Low WHC Coarse texture Topography

Class

- 2** Lands that have moderate limitations for sustained use under irrigation
- 3** Lands that have severe limitations for sustained use under irrigation
- 4** Lands that have very severe limitations for sustained use under irrigation

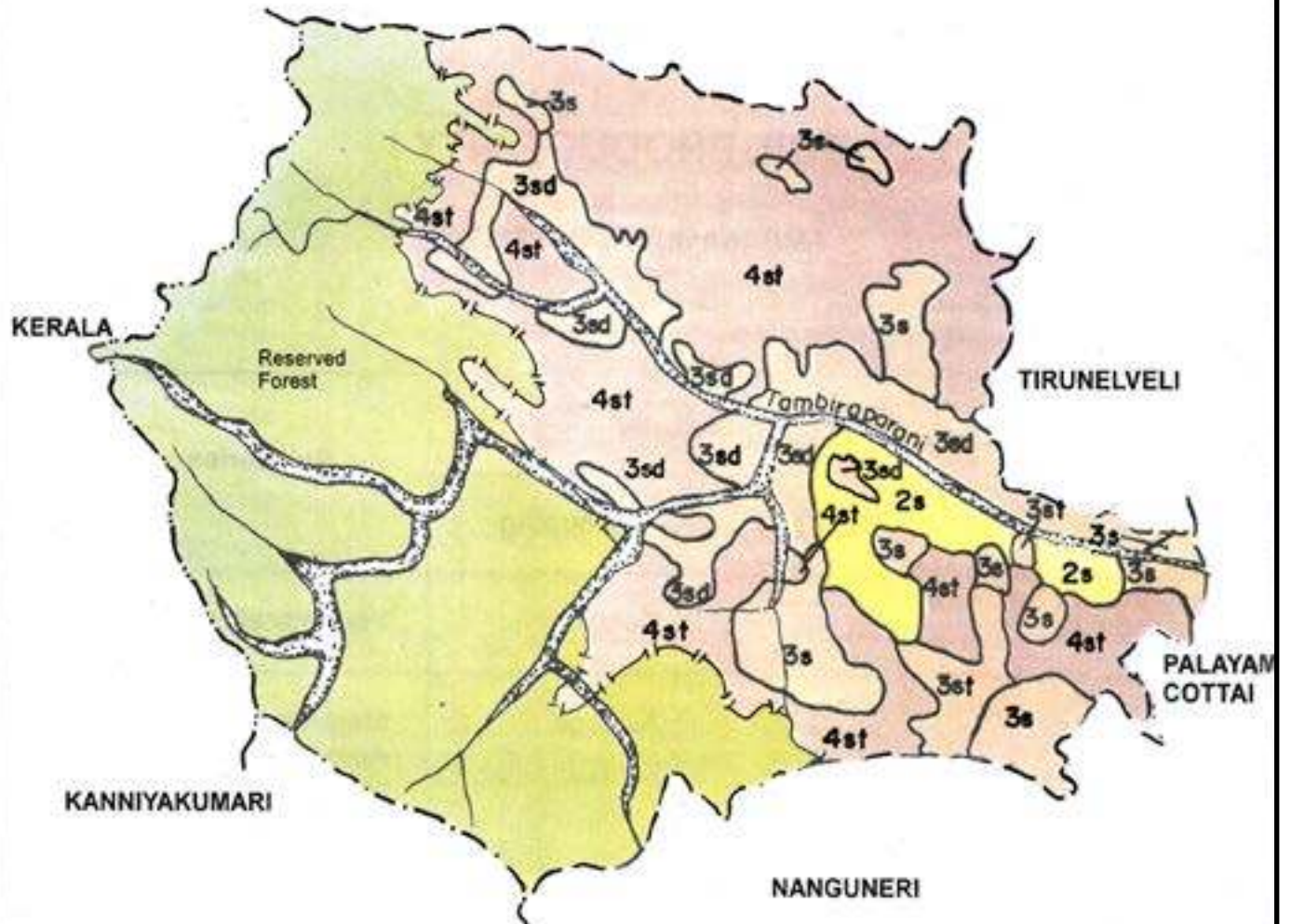
Sub class

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

LAND IRRIGABILITY AMBASAMUDRAM TALUK



TENKASI



LEGEND CLASS

2	Moderate limitation
3	Severe limitation
4	Very severe limitation

SUB CLASS

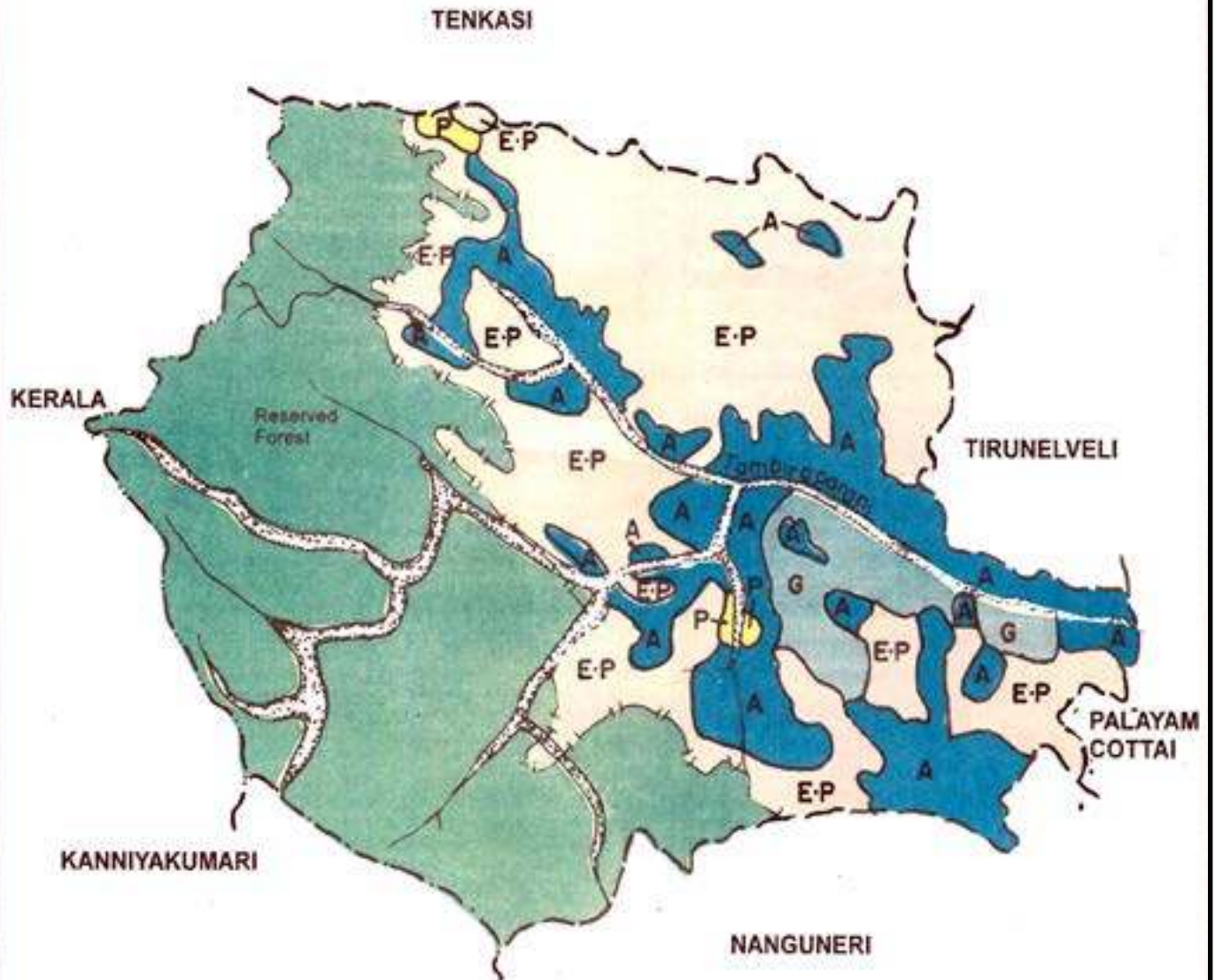
- s - Soil limitation
- t - Topographic limitation
- d - Drainage hazards

SOIL PRODUCTIVITY

AMBASAMUDRAM TALUK

Area (ha)	Productivity		Soil series
	Rating	Grouping	
6,432	35 - 64	Good	Veeravanallur
22,179	20 - 34	Average	Mayamankurichi Ambasamudram Idayankulam Taruval Pathamadaï
200	8 - 19	Poor	Kallurani
38,704	0 - 7	Extremely poor	Nanguneri Thalaiyuthu

SOIL PRODUCTIVITY AMBASAMUDRAM TALUK



LEGEND

G	GOOD
A	AVERAGE
P	POOR
E.P.	EXTREMELY POOR

CROPS GROWN

AMBASAMUDRAM TALUK

Map symbol	Soil series	Crops grown	
		Rainfed	Irrigated
1	Mayamankurichi	Millets Pulses	Paddy Banana Chillies Onion
2	Nanguneri Idayankulam Kallurani Thalaiyuthu	Minor millets Pulses	—
3	Veeravanallur	Millets Pulses	Paddy Banana Chillies Sugarcane Cotton Pulses
4	Ambasamudram Taruvai	—	Paddy Banana Pulses
6	Pathamadaï	Pulses Millets	Cotton Chillies Groundnut Vegetables Coconut Orchard crops

CROPS GROWN AMBASAMUDRAM TALUK



TENKASI

KERALA

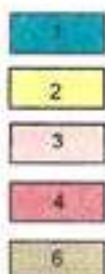
Reserved
Forest

TIRUNELVELI

NANGUNERI

PALAYAM
COTTAI

LEGEND

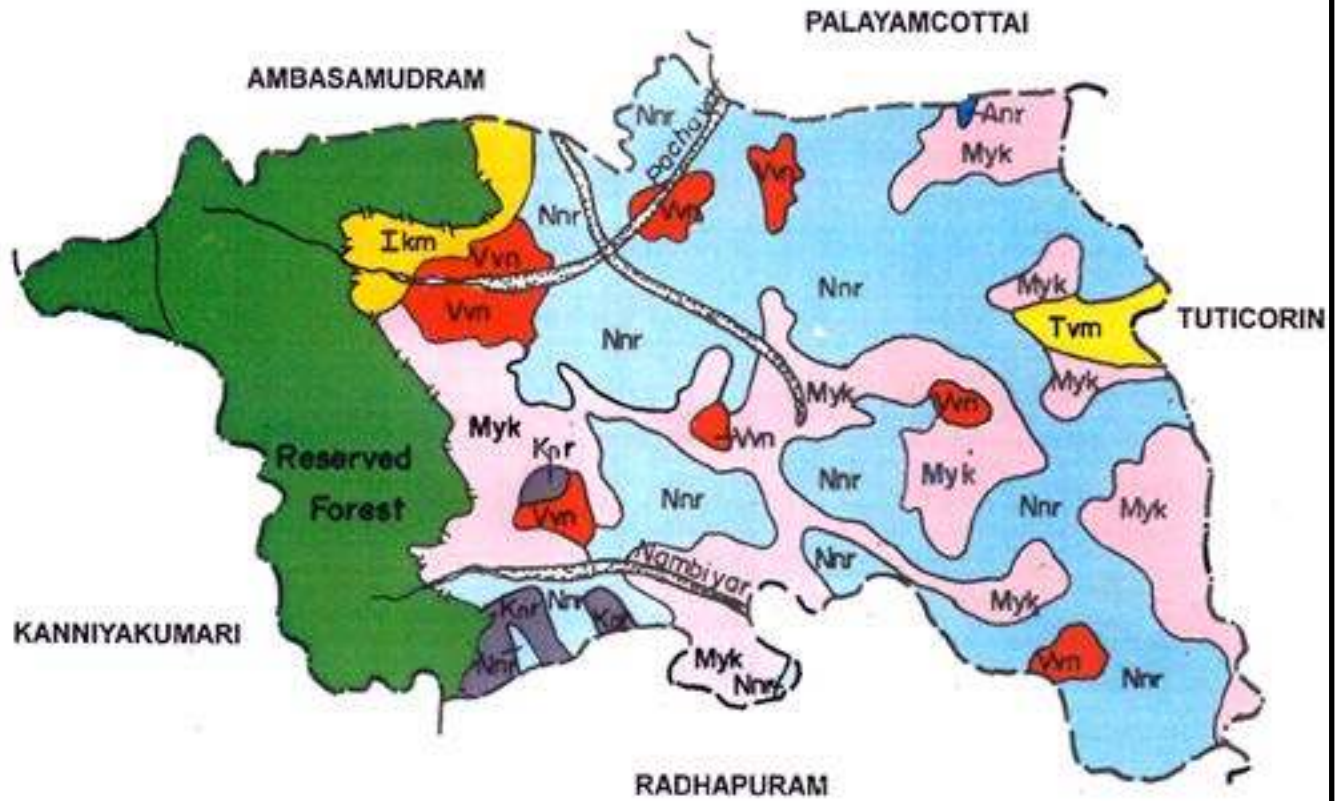


SOILS

NANGUNERI TALUK

Soil series	Symbol	Extent	
		ha	%
1. Nanguneri	Nnr	37,855	55.18
2. Mayamankurichi	Myk	20,809	30.33
3. Veeravanallur	Vvn	4,990	7.27
4. Idayankulam	lkm	1,750	2.55
5. Tiruvengadam	Tvm	1,551	2.26
6. Kadayanallur	Knr	1,525	2.22
7. Ayaneri	Anr	130	0.19
Total		68,610	100.00

SOILS NANGUNERI TALUK



LEGEND

Nnr	Nanguneri
Myk	Mayamankurichi
Vvn	Veeravanallur
Ikm	Idayankulam
Tvm	Tiruvengadam
Kpr	Kadayanallur
Anr	Ayaneri

VILLAGE WISE FERTILITY STATUS AND SOIL SERIES

NANGUNERI TALUK

Name of the village	Fertility status (kg/ac)			Dominant soil series
	Nitrogen	Phosphorus	Potassium	
(1)	(2)	(3)	(4)	(5)
1. Ariyakulam	61	10	130	Nnr Myk
2. Alwaneri	68	9	185	Myk Nnr
3. Alangulam	82	10	215	Myk Nnr
4. Chinthamani	58	11	148	Myk Tvm
5. Deivanayagaperi	83	5	130	Nnr Myk
6. Dalapathisamudram	92	15	120	Myk Nnr
7. Devanallur	81	10	160	Nnr
8. Ervadi	68	9	185	Nnr Myk
9. Elangulam	48	7	144	Nnr
10. Ilayankulam	59	10	142	Myk Nnr
11. Idayankulam	49	12	170	lkm Nnr
12. Iraipuvurai	76	9	138	Myk Nnr
13. Idayankulam	55	11	135	Nnr
14. Ittamozhi	92	4	189	Nnr Myk
15. Kalakad	98	8	183	Vvn
16. Kadamboduvalu	80	14	120	Nnr Myk
17. Koilammalpuram	75	12	135	Myk
18. Koondakulam	83	9	182	Myk Vvn
19. Keelakaruvelankulam	63	10	152	Nnr Vvn
20. Kilkaduvetti	93	12	165	Nnr Vvn
21. Kallikulam	89	13	145	Nnr
22. Karanthaneri	82	10	163	Nnr
23. Karankadu	73	6	146	Nnr
24. Kandakulam Thirumalapuram	83	9	182	Myk Nnr
25. Munanjipatti	83	3	185	Nnr Tvm
26. Moolakaraipatti	63	10	140	Nnr Tvm
27. Melaputhaneri	70	10	175	Myk
28. Marukalkuruchi	86	9	163	Nnr
29. Melakarai	74	12	148	Nnr
30. Madamalankulam	78	7	228	Nnr

(1)	(2)	(3)	(4)	(5)
31. Malaiyadipudur	92	5	215	Knr Myk
32. Melmalaneri	82	10	125	Myk
33. Mahiladi	76	14	115	Myk
34. Nambithalaivanpattinam	64	4	120	Knr Mky
35. Nambipuram	80	4	168	Myk
36. Nanguneri	65	10	160	Myk Nnr
37. Palankulam	91	10	216	Myk lkm
38. Pathai	80	10	208	Vvn lkm
39. Padmaneri	58	9	250	Vvn lkm
40. Padalayarkulam	74	4	150	Vvn Nnr
41. Puliyurkurichi	72	8	225	Myk Nnr
42. Parithapadu	98	14	127	Myk Nnr
43. Pappankulam	70	9	165	Myk Nnr
44. Poolam	85	12	220	Vvn Nnr
45. Pambankulam	68	9	150	Myk Vvn
46. Rajakkamangalam	77	6	284	Nnr
47. Ramakrishnapuram	77	11	180	Nnr Myk
48. Sengalakuruchi	63	4	165	Myk lkm
49. Seevalaperi	76	10	125	Myk
50. Soorankudi	63	5	210	Nnr Myk
51. Singikulam	82	10	213	Nnr Myk
52. Srivaramangaipuram	63	10	230	Nnr
53. Sinagneri	56	11	140	Myk
54. Sattankulam. A	81	7	236	Nnr Myk
55. Sadianeri	87	10	210	Myk Nnr
56. Singikulampudugramam	78	10	230	Nnr Vvn
57. Shenbagaramanallur	110	13	166	Myk Nnr
58. Tennirkulam	69	12	168	Nnr
59. Terkunanguneri	48	11	150	Myk Nnr
60. Thottakudi	59	10	215	Myk
61. Tirukurunkudi	92	9	215	Myk
62. Thiruvaranganeri	91	10	216	Vvn Myk
63. Uchikulam	80	4	154	Nnr
64. Unnankulam	68	10	185	Nnr Myk
65. Vadakarai	64	11	120	lkm
66. Vadamalaisamudram	81	12	75	Vvn
67. Vadakachimadil	90	12	130	Myk Knr
68. Veppankulam	72	6	190	Nnr
69. Vijayanarayanam	81	4	256	Nnr Myk

LAND CAPABILITY

NANGUNERI TALUK

Area (ha)	Land capability classification	Soil series	Limitation	Needs
4,990	II s	Veeravanallur	Mild alkalinity	Addition of organic manures
20,809	III s	Mayamankurichi	Crusting Mild alkalinity	Addition of organic manures
3,275	III se	Kadayanallur Idayankulam	Coarse texture Low CEC Erosion	Addition of tank silt & organic manures Soil conservation
1,551	III sw	Tiruvengadam	Alkalinity wetness	Selection of crops Application of iron pyrite Drainage
37,985	IV se	Nanguneri Ayaneri	Shallow depth Low WHC & CEC Coarse texture Erosion	Selection of crops Addition of tank silt & organic manures Soil conservation

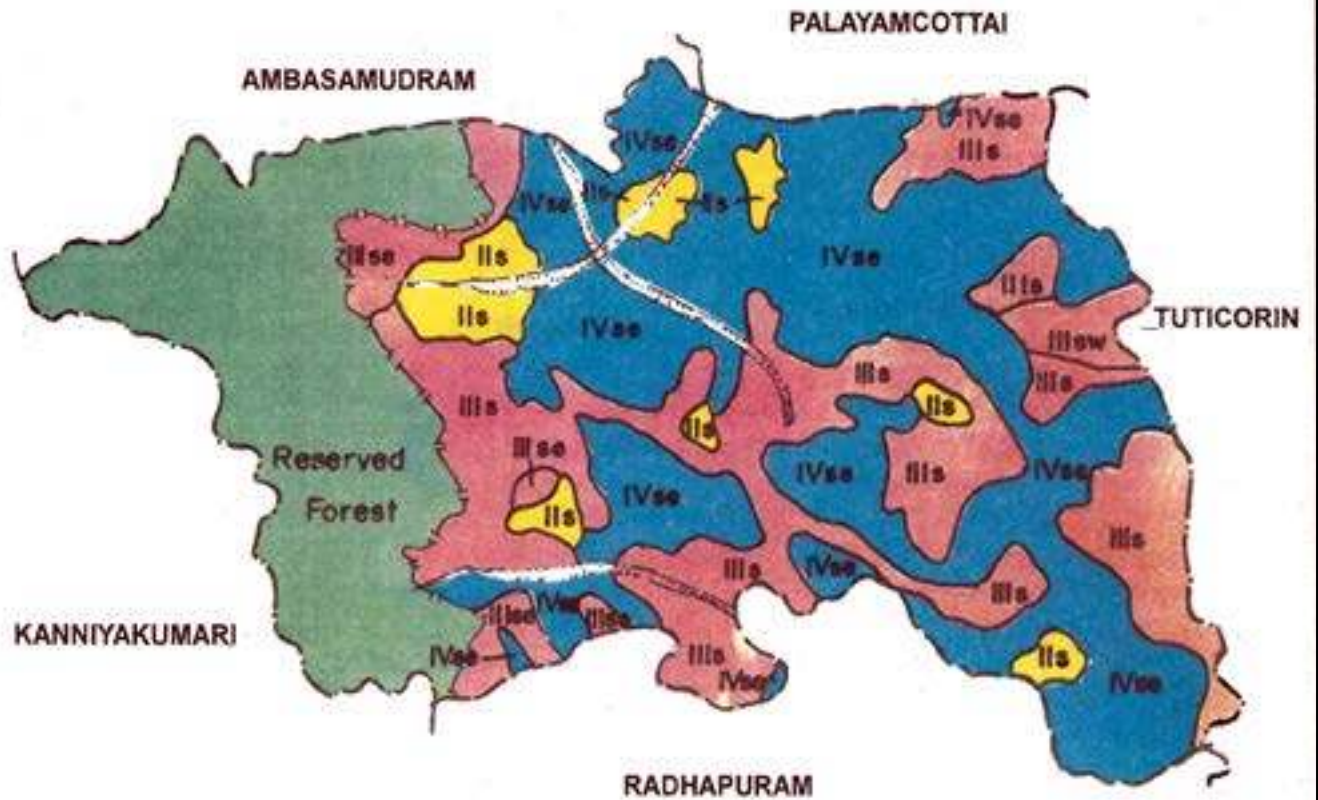
Class

- II** Good cultivable lands that have moderate limitations for sustained use under agriculture
- 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 limitation
- e** Erosion and run off
- w** Wetness

LAND CAPABILITY NANGUNERI TALUK



LEGEND CLASS

II	Moderate limitations
III	Severe limitations
IV	Very severe limitations

SUB CLASS

- s - Soil limitation
- t - Topographi limitations
- d - Drainage hazards

LAND IRRIGABILITY

NANGUNERI TALUK

Area (ha)	Land irrigability classification	Soil series	Limitation
4,990	2 s	Veeravanallur	Mild alkalinity
20,809	3 s	Mayamankurichi	Mild alkalinity Crusting
3,275	3 st	Kadayanallur Idayankulam	Coarse texture Topography
1,551	3 sd	Tiruvengadam	Alkalinity Drainage hazard
37,985	4 st	Nanguneri Ayaneri	Shallow depth Low WHC Coarse texture Topography

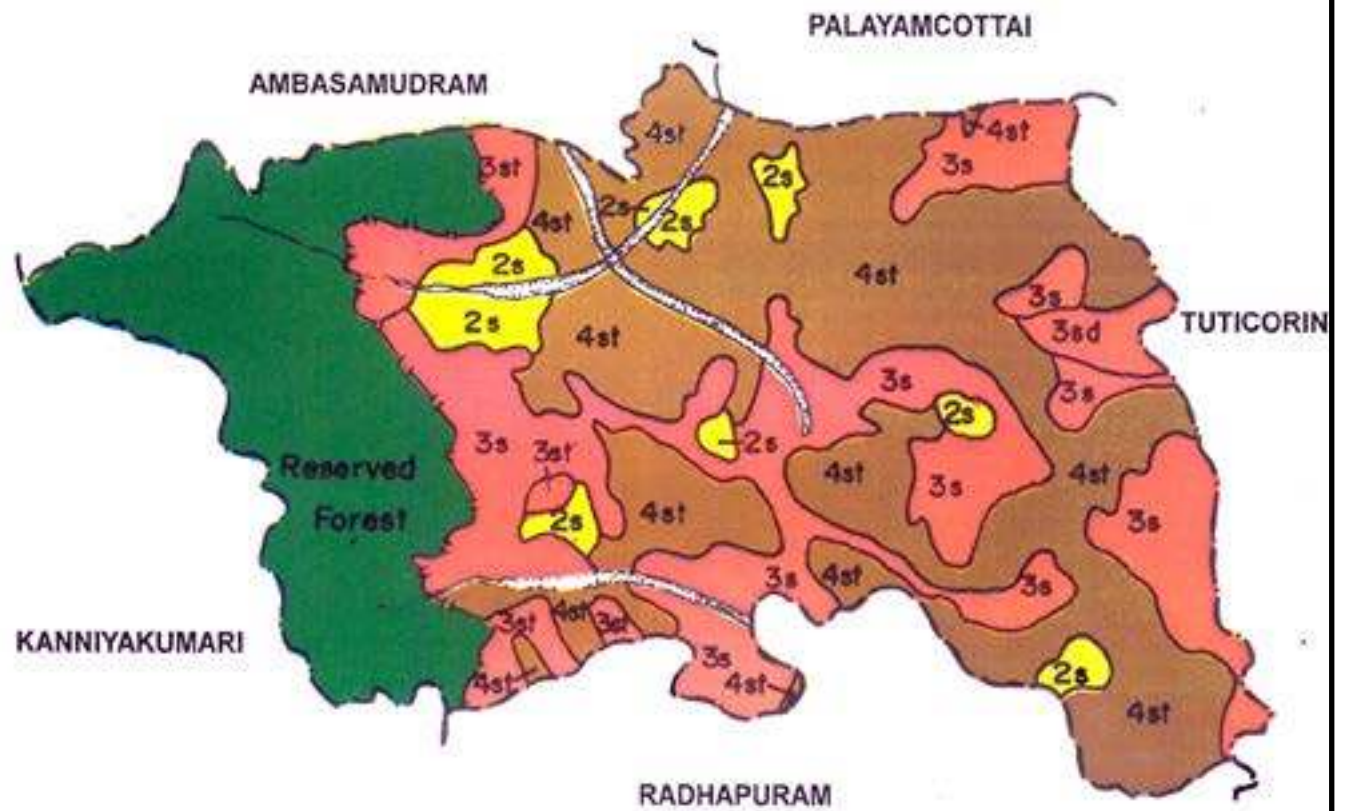
Class

- 2** Lands that have moderate limitations for sustained use under irrigation
- 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
- d** Drainage
- t** Topography

LAND IRRIGABILITY NANGUNERI TALUK



LEGEND CLASS

2	Moderate limitations
3	Severe limitations
4	Very severe limitations

SUB CLASS

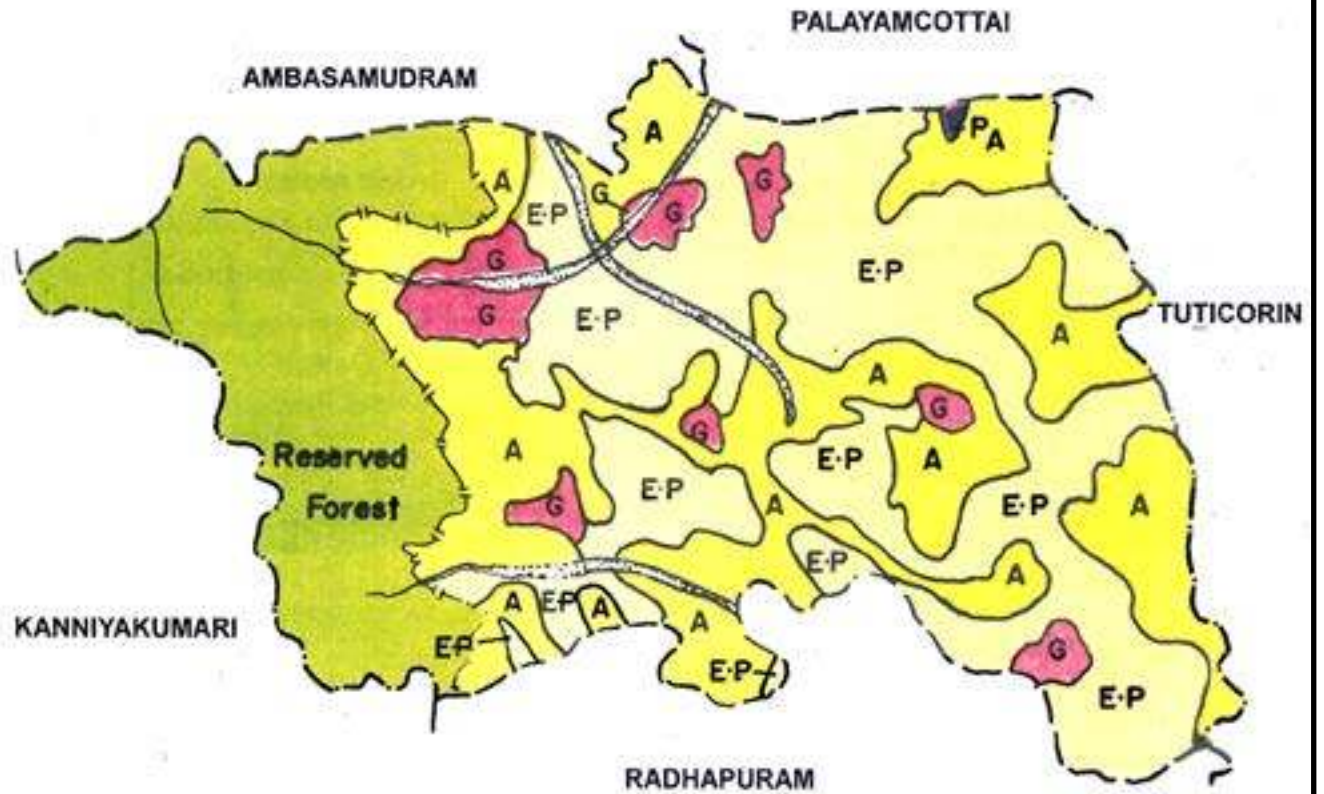
- s - Soil limitation
- t - Topographic limitations
- d - Drainage hazards

SOIL PRODUCTIVITY

NANGUNERI TALUK

Area (ha)	Productivity		Soil series
	Rating	Grouping	
4,990	35 - 64	Good	Veeravanallur
25,635	20 - 34	Average	Mayamankurichi Tiruvengadam Kadayanallur Idayankulam
130	8 - 19	Poor	Ayaneri
37,855	0 - 7	Extremely poor	Nanguneri

SOIL PRODUCTIVITY NANGUNERI TALUK



LEGEND

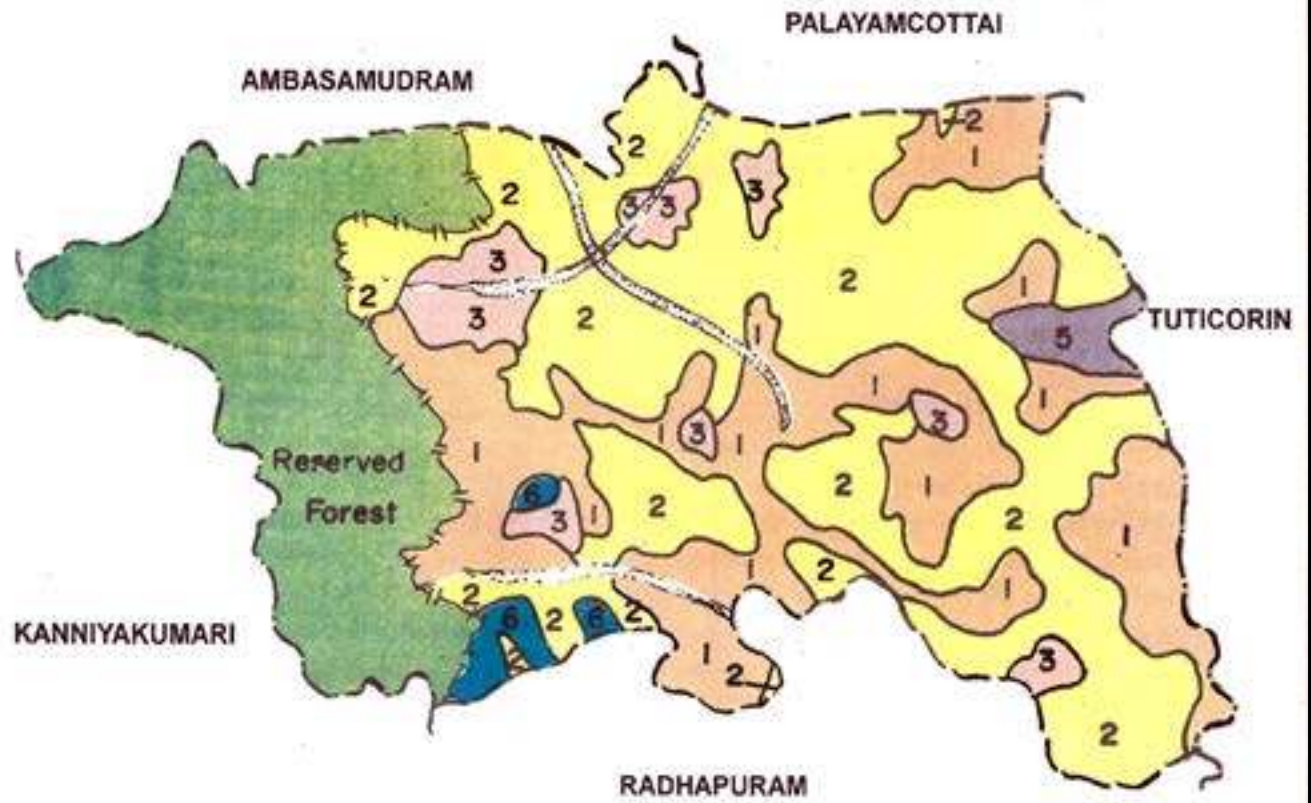
	GOOD
	AVERAGE
	POOR
	EXTREMELY POOR

CROPS GROWN

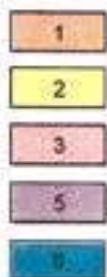
NANGUNERI TALUK

Map symbol	Soil series	Crops grown	
		Rainfed	Irrigated
1	Mayamankurichi	Millets Pulses	Paddy Banana Chillies Onion
2	Nanguneri Idayankulam Ayaneri	Minor millets Pulses	—
3	Veeravanallur	Millets Pulses	Paddy Banana Chillies Sugarcane Cotton Pulses
5	Tiruvengadam	Cotton Millets Sunflower Coriander Chillies Pulses	—
6	Kadayanallur	Pulses Millets	Chillies Cotton Groundnut Vegetables Coconut Orchard crops

CROPS GROWN NANGUNERI TALUK



LEGEND

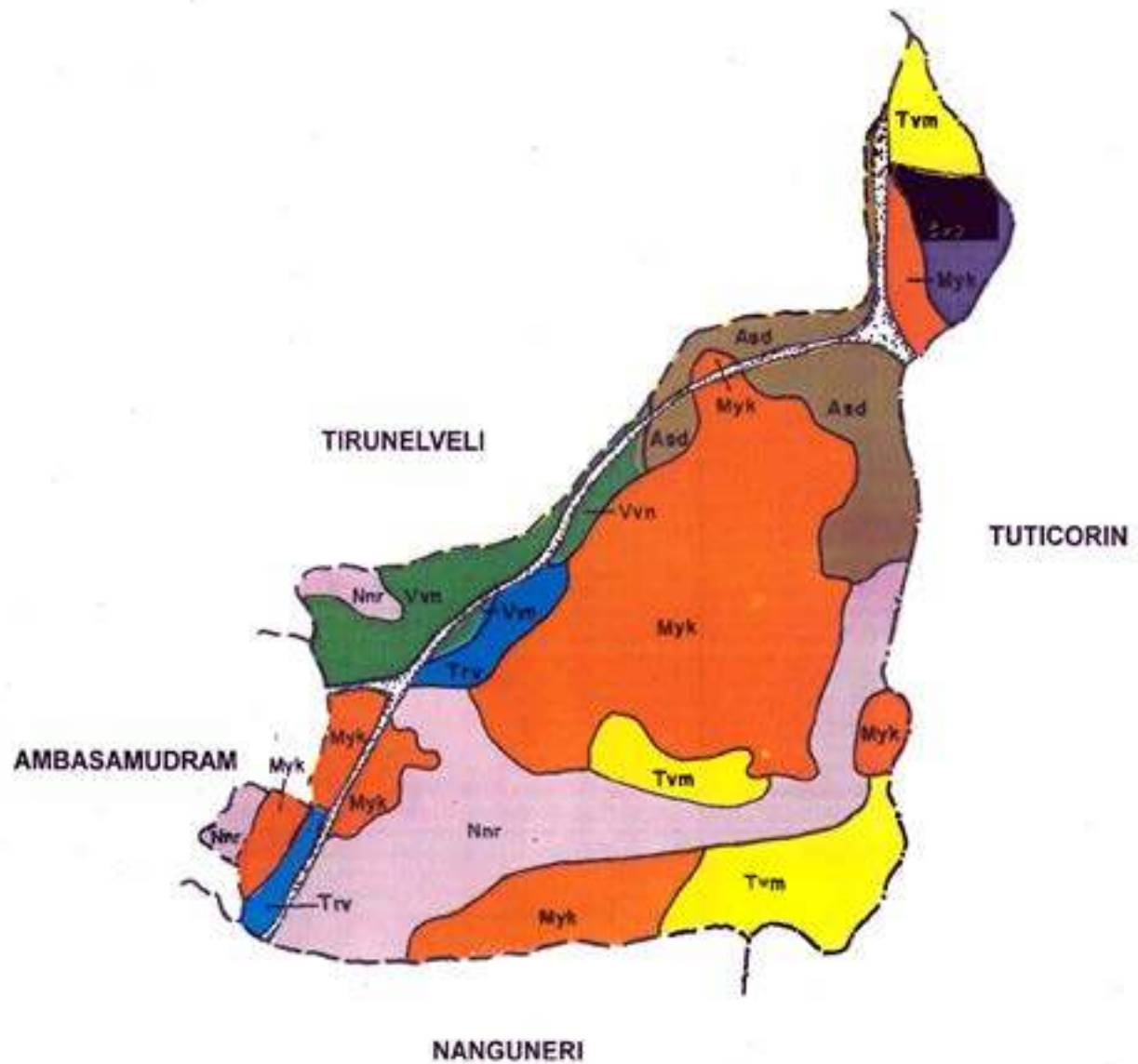


SOILS

PALAYAMCOTTAI TALUK

Soil series	Symbol	Extent	
		ha	%
1. Mayamankurichi	Myk	10,313	36.81
2. Nanguneri	Nnr	7,502	26.78
3. Tiruvengadam	Tvm	2,996	10.69
4. Veeravanallur	Vvn	2,651	9.46
5. Ambasamudram	Asd	2,384	8.51
6. Sivalaperi	Svp	1,133	4.04
7. Taruvai	Trv	1,038	3.71
Total		28,017	100.00

SOILS PALAYAMCOTTAI TALUK



LEGEND

Myk	Mayamankurichi
Nnr	Nanguneri
Tvm	Tiruvengadam
Vvn	Veeravanallur
Asd	Ambasamudram
Svp	Sivalaperi
Trv	Taruvai

VILLAGE WISE FERTILITY STATUS AND SOIL SERIES

PALAYAMCOTTAI TALUK

Name of the village	Fertility status (kg/ac)			Dominant soil series
	Nitrogen	Phosphorus	Potassium	
(1)	(2)	(3)	(4)	(5)
1. Ariyankulam	68	8	105	Nnr Asd
2. Avanepari	89	10	195	Nnr Vvn
3. Karuverkulam	78	11	125	Nnr Trv
4. Karuppanthurai	81	10	158	Vvn
5. Kinganthanperai	78	9	185	Nnr
6. Kakkathikulam	79	9	118	Nnr Myk
7. Kulavanikarpuram	82	8	162	Nnr Myk
8. Kunnathur	66	9	130	Vvn Nnr
9. Krishnapuram	75	7	128	Nnr Myk
10. Kilthiruvenkatanathapuram	55	10	169	Vvn Nnr
11. Kilveeraraghavapuram	77	9	129	Vvn
12. Khansapuram	64	7	137	Vvn Myk
13. Kilpattam	76	10	244	Vvn
14. Melthidiyur	58	11	160	Myk Vvn
15. Munneerpallam	99	9	175	Nnr Vvn
16. Melathiruvenkatanathapuram	85	8	156	Nnr Vvn
17. Melanatham	90	9	205	Vvn
18. Melapalayam	108	9	209	Mnr Vvn
19. Melaputhaneri	77	10	135	Asd
20. Melapattam	58	9	120	Nnr Vvn
21. Manapadaiveedu	75	11	278	Vvn
22. Maruthur	74	10	421	Vvn
23. Nochikulam	85	10	143	Nnr Asd
24. Nadukkamudaiyarkulam	66	10	150	Nnr Vvn
25. Naduvakurichi	73	5	201	Nnr Asd

(1)	(2)	(3)	(4)	(5)
26. Ponnakudi	63	4	165	Myk Nnr
27.. Pudukulam	67	10	145	Myk Nnr
28. Palayamkottai	85	12	210	Myk Nnr
29. Panayankulam	82	10	215	Nnr Myk
30. Palayamchettikulam	68	9	185	Nnr Myk
31. Paraikulam	68	13	118	Asd Nnr
32. Reddiarpattii	95	12	317	Myk Tvm
33. Rajagopalapuram	78	11	218	Myk
34. Sengulam	65	11	120	Myk
35. Seevalaperi	105	9	244	Svp Myk
36. Sivanthipatti	99	9	257	Tvm Nnr
37. Tharuvai	70	13	115	Nnr Trv
38. Thimarajapuram	80	10	168	Vvn
39. Thiruvannanathapuram	92	9	215	Vvn
40. Thirumalaikolundapuram	80	10	208	Vvn
41. Thiruthu	72	11	225	Vvn
42. Thidiyur	76	9	138	Nnr
43. Udayarkulam	74	9	150	Asd
44. Uthamapandiankulam	66	10	150	Nnr Asd
45. Vagaikulam	70	11	96	Asd
46. Vellakoil	71	10	216	Vvn
47. Vengaluneersamudram	70	10	125	Nnr Myk
48. Vilagam	79	8	141	Vvn
49. V.M. Chattram	68	12	136	Nnr Myk
50. Sivanadiyarkulam	81	11	205	Nnr Myk
51. Keelanatham	59	13	142	Vvn Myk
52. Velankulam	64	11	120	Asd
53. Parpakulam	70	10	125	Nnr
54. A. Gangainadarkulam	63	11	162	Asd Myk
55. Araikulam	58	9	250	Asd Myk
56. Muththur	110	11	250	Myk Tvm
57. Ittery	88	11	285	Myk Tvm

LAND CAPABILITY

PALAYAMCOTTAI TALUK

Area (ha)	Land capability classification	Soil series	Limitation	Needs
2,651	II s	Veeravanallur	Mild alkalinity	Addition of organic manures
11,351	III s	Mayamankurichi Taruvai	Crusting Mild alkalinity	Addition of organic manures
6,513	III sw	Tiruvengadam Ambasamudram Sivalaperi	Alkalinity Severe wetness	Selection of crops Drainage
7,502	IV se	Nanguneri	Shallow depth Low WHC & CEC Coarse texture Erosion	Selection of crops Addition of tank silt & organic manures Soil conservation

Class

- II** Good cultivable lands that have moderate limitations for sustained use under agriculture
- 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 limitation
- e** erosion and run off
- w** Wetness

(1)	(2)	(3)	(4)	(5)
26. Ponnakudi	63	4	165	Myk Nnr
27.. Pudukulam	67	10	145	Myk Nnr
28. Palayamkottai	85	12	210	Myk Nnr
29. Panayankulam	82	10	215	Nnr Myk
30. Palayamchettikulam	68	9	185	Nnr Myk
31. Paraikulam	68	13	118	Asd Nnr
32. Reddiarpattii	95	12	317	Myk Tvm
33. Rajagopalapuram	78	11	218	Myk
34. Sengulam	65	11	120	Myk
35. Seevalaperi	105	9	244	Svp Myk
36. Sivanthipatti	99	9	257	Tvm Nnr
37. Tharuvai	70	13	115	Nnr Trv
38. Thimarajapuram	80	10	168	Vvn
39. Thiruvannanathapuram	92	9	215	Vvn
40. Thirumalaikolundupuram	80	10	208	Vvn
41. Thiruthu	72	11	225	Vvn
42. Thidiyur	76	9	138	Nnr
43. Udayarkulam	74	9	150	Asd
44. Uthamapandiankulam	66	10	150	Nnr Asd
45. Vagaikulam	70	11	96	Asd
46. Vellakoil	71	10	216	Vvn
47. Vengaluneersamudram	70	10	125	Nnr Myk
48. Vilagam	79	8	141	Vvn
49. V.M. Chattram	68	12	136	Nnr Myk
50. Sivanadiyarkulam	81	111	205	Nnr Myk
51. Keelanatham	59	13	142	Vvn Myk
52. Velankulam	64	11	120	Asd
53. Parpakulam	70	10	125	Nnr
54. A. Gangainadarkulam	63	11	162	Asd Myk
55. Araikulam	58	9	250	Asd Myk
56. Muththur	110	11	250	Myk Tvm
57. Ittery	88	11	285	Myk Tvm

LAND CAPABILITY

PALAYAMCOTTAI TALUK

Area (ha)	Land capability classification	Soil series	Limitation	Needs
2,651	II s	Veeravanallur	Mild alkalinity	Addition of organic manures
11,351	III s	Mayamankurichi Taruvai	Crusting Mild alkalinity	Addition of organic manures
6,513	III sw	Tiruvengadam Ambasamudram Sivalaperi	Alkalinity Severe wetness	Selection of crops Drainage
7,502	IV se	Nanguneri	Shallow depth Low WHC & CEC Coarse texture Erosion	Selection of crops Addition of tank silt & organic manures Soil conservation

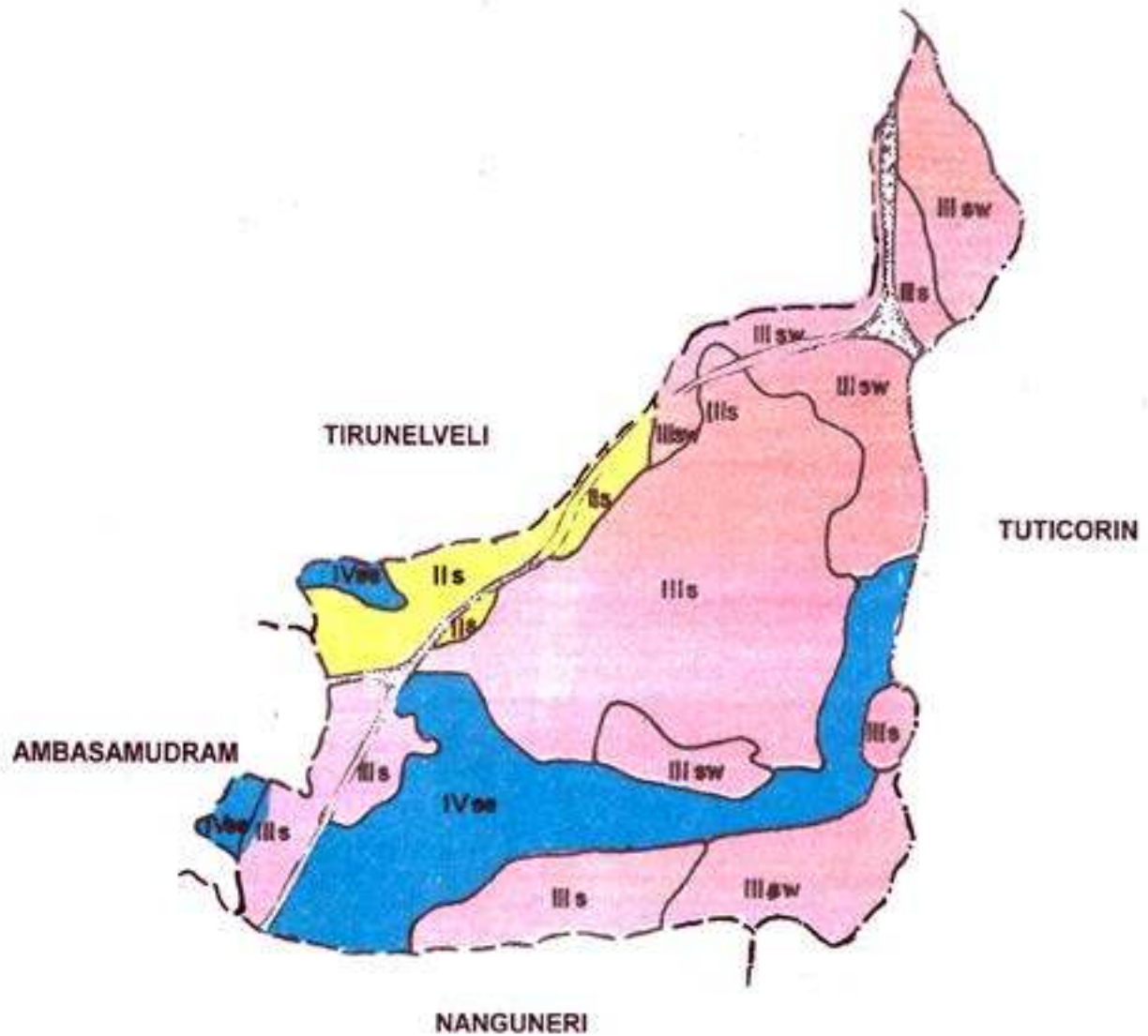
Class

- II** Good cultivable lands that have moderate limitations for sustained use under agriculture
- 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 limitation
- e** erosion and run off
- w** Wetness

LAND CAPABILITY PALAYAMCOTTAI TALUK



LEGEND CLASS

II	Moderate limitations
III	Severe limitations
IV	Very severe limitations

SUB CLASS

- s - Root zone limitation
- e - Erosion hazards
- w - Wetness

LAND IRRIGABILITY

PALAYAMCOTTAI TALUK

Area (ha)	Land irrigability classification	Soil series	Limitation
2,651	2 s	Veeravanallur	Mild alkalinity
11,351	3 s	Mayamankurichi Taruvai	Mild alkalinity Crusting
6,513	3 sd	Tiruvengadam Ambasamudram Sivalaperi	Drainage hazard
7,502	4 st	Nanguneri	Shallow depth Low WHC Coarse texture Topography

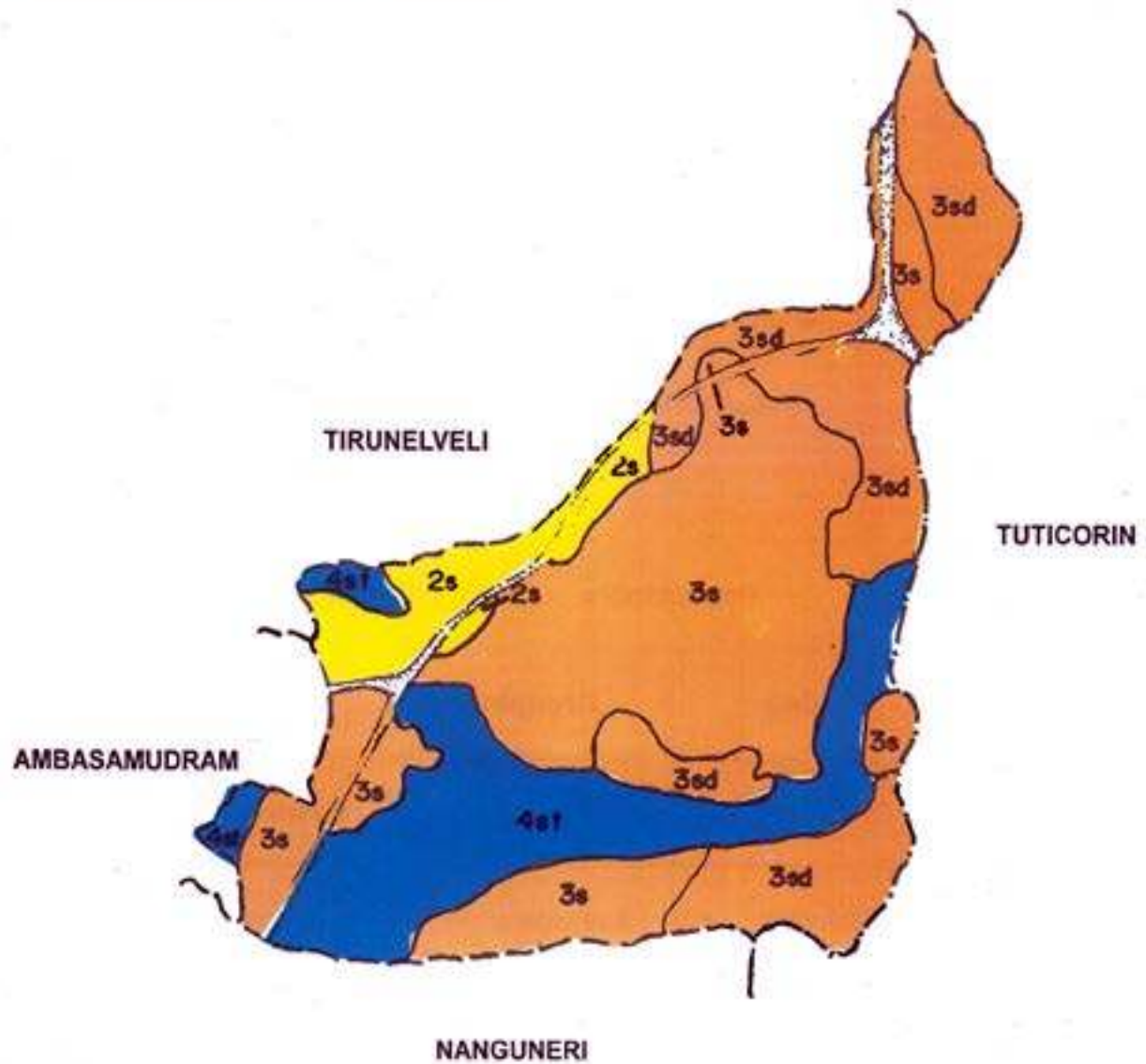
Class

- 2** Lands that have moderate limitations
for sustained use under irrigation
- 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
- d** drainage
- t** Topography

LAND IRRIGABILITY PALAYAMCOTTAI TALUK



LEGEND CLASS

2	Moderate limitations
3	Severe limitations
4	Very severe limitations

SUB CLASS

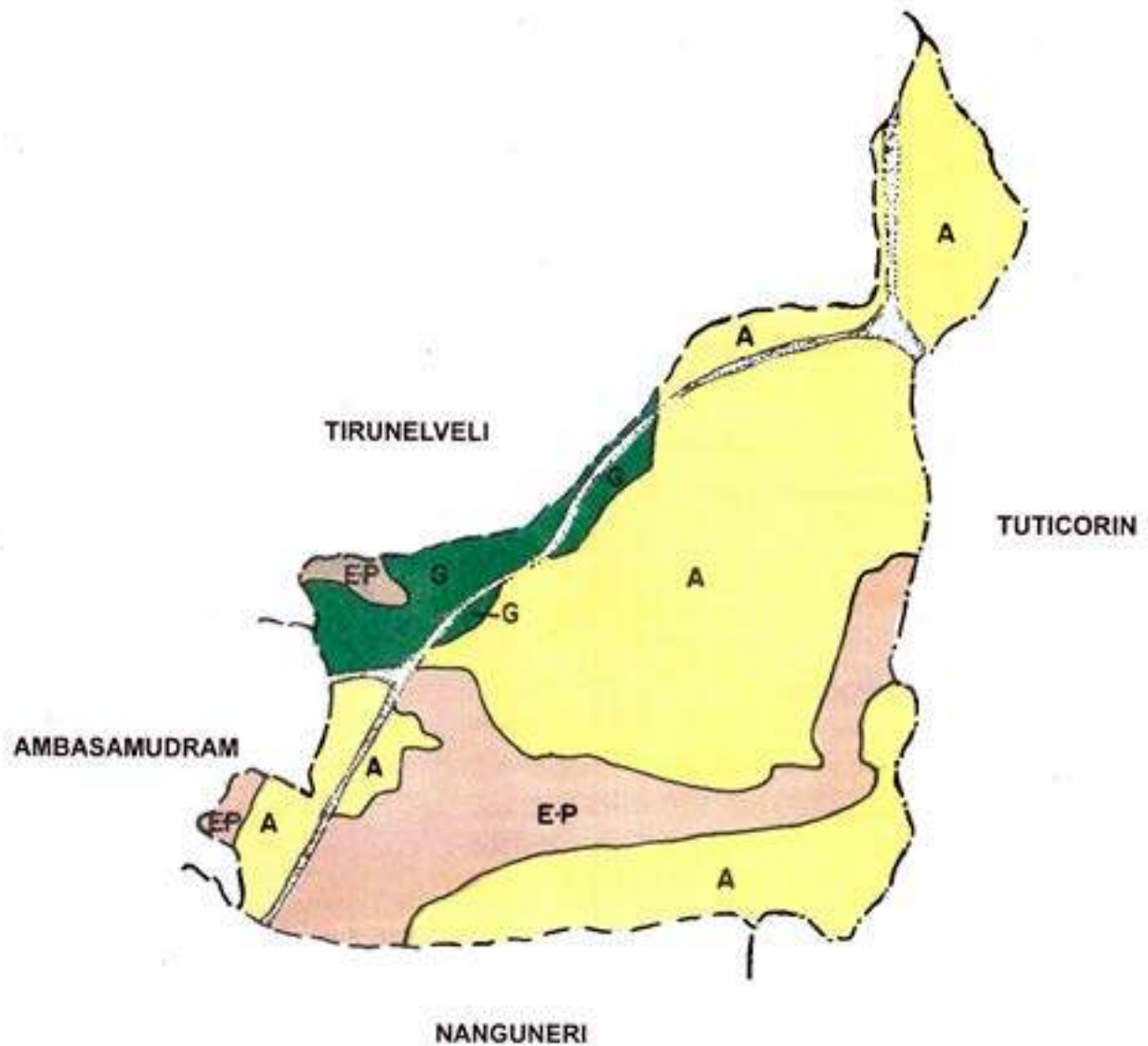
- s - Soil limitation
- t - Topographic limitation
- d - Drainage hazards

SOIL PRODUCTIVITY

PALAYAMCOTTAI TALUK

Area (ha)	Productivity		Soil series
	Rating	Grouping	
2,651	35 - 64	Good	Veeravanallur
17,864	20 - 34	Average	Mayamankurichi Tiruvengadam Ambasamudram Sivalaperi Taruvai
7,502	0 - 7	Extremely poor	Nanguneri

SOIL PRODUCTIVITY PALAYAMCOTTAI TALUK



LEGEND

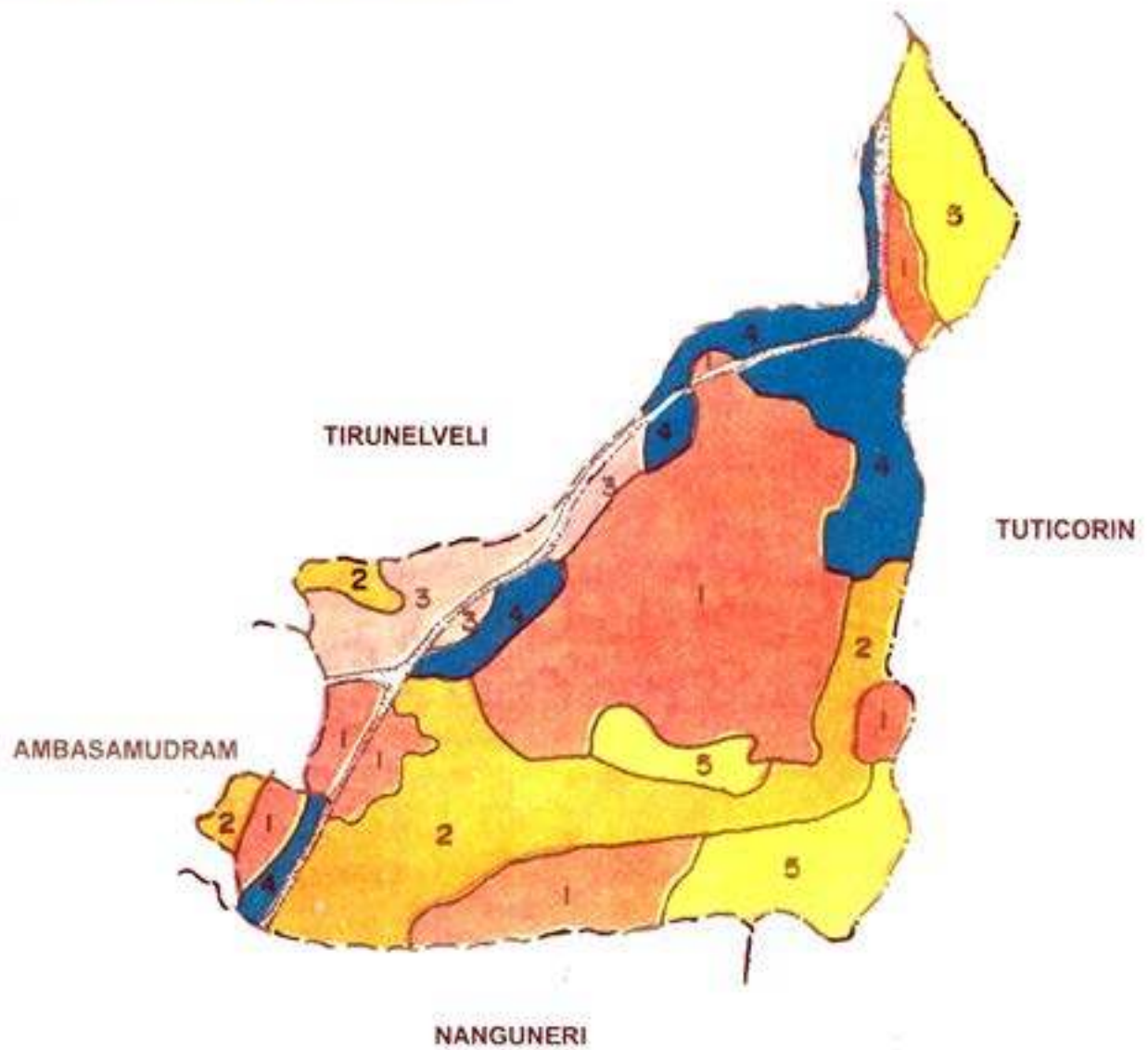
	GOOD
	AVERAGE
	EXTREMELY POOR

CROPS GROWN

PALAYAMCOTTAI TALUK

Map symbol	Soil series	Crops grown	
		Rainfed	Irrigated
1	Mayamankurichi	Millets Pulses	Paddy Banana Chillies Onion
2	Nanguneri	Minor millets Pulses	—
3	Veeravanallur	Millets Pulses	Paddy Banana Chillies Sugarcane Cotton Pulses
4	Ambasamudram Taruvai	—	Paddy Banana Pulses
5	Tiruvengadam Sivalaperi	Cotton Millets Sunflower Coriander Pulses Chillies	—

CROPS GROWN PALAYAMCOTTAI TALUK



LEGEND

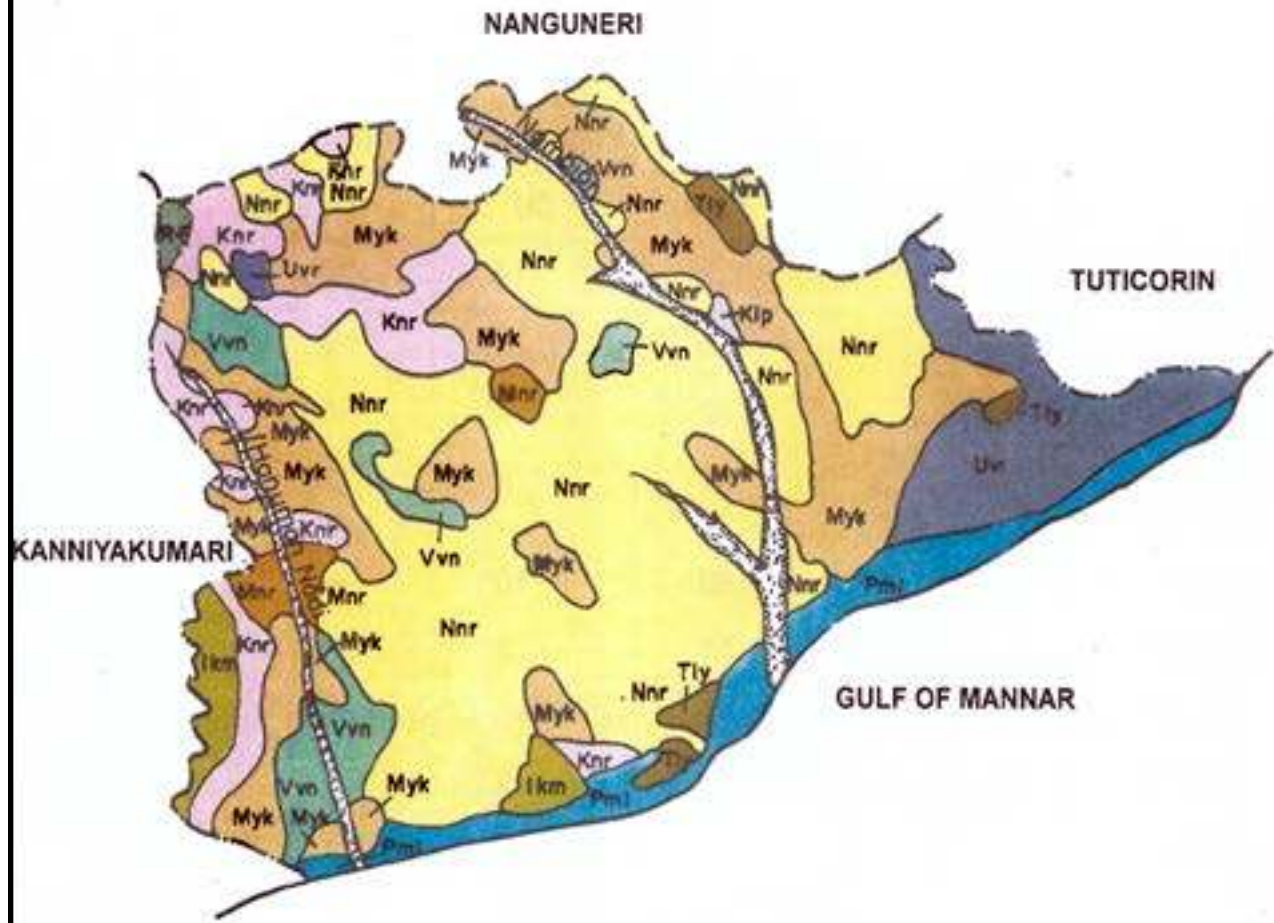


SOILS

RADHAPURAM TALUK

Soil series	Symbol	Extent	
		ha	%
1. Nanguneri	Nnr	38,279	46.40
2. Mayamankurichi	Myk	19,800	23.99
3. Perumanal	Pml	6,096	7.39
4. Kadayanallur	Knr	6,050	7.33
5. Uvari	Uvr	5,020	6.08
6. Veeravanallur	Vvn	4,574	5.54
7. Manur	Mnr	1,035	1.25
8. Idayankulam	lkm	787	0.95
9. Thalaiyuthu	Tly	634	0.77
10. Keelapavoor	Klp	245	0.30
Total		82,520	100.00

SOILS RADHAPURAM TALUK



LEGEND

Nnr	Nanguneri
Myk	Mayamankurichi
Pmc	Perumanal
Knr	Kadayanallur
Uvarl	Uvarl
Vvn	Veerananallur
Mnr	Manur
Ikm	Idayankulam
Tly	Thalaiyuthu
Klp	Keelapavoor

VILLAGE WISE FERTILITY STATUS AND SOIL SERIES

RADHAPURAM TALUK

Name of the village	Fertility status (kg/ac)			Dominant soil series
	Nitrogen	Phosphorus	Potassium	
(1)	(2)	(3)	(4)	(5)
1. Achanpadu	48	10	125	Myk Knr
2. Adangarkulam	55	9	135	Myk Vvn
3. Alaganeri	82	4	115	Nnr
4. Alankinaru Thirumalapuram	48	4	128	Knr Myk
5. Anaikulam	63	10	180	Myk Nnr
6. Aypuvilai	51	3	165	Myk Pml
7. Chettikulam	55	10	148	Nnr
8. Dhanukkarkulam	68	3	125	Nnr Vvn
9. Irukkandurai	59	3	115	Nnr
10. Kananallur	58	5	115	Nnr Myk
11. Isalapuram	63	10	160	Nnr Myk
12. Karaichuttupudur	76	5	215	Uvr
13. Karichuttuvary	80	4	200	Uvr
14. Karungulam	83	4	185	Vvn Knr
15. Kasthuri Rengapuram	63	4	130	Nnr Myk
16. Kudangulam	52	10	143	Nnr Pml
17. Kumbikulam	62	4	120	Nnr Vvn
18. Kumarapuram	88	8	240	Nnr Pml
19. Kuttam	74	6	225	Uvr
20. Kuttaikarungulam	48	3	135	Nnr Myk

(1)	(2)	(3)	(4)	(5)
21. Kovankulam	48	4	115	Myk Nnr
22. Levizipuram	63	4	132	Myk
23. Mahadevankulam	68	5	210	Pml Nnr
24. Mudumottamoli	72	5	220	Uvr
25. Ormangulam	63	10	157	Myk
26. Palavur	49	9	138	Myk Knr
27. Perungudi	52	8	160	Myk Knr
28. Parameswarapuram	76	5	120	Nnr
29. Parivisooriyan	69	4	40	Vvn Myk
30. Pasavali	59	4	133	Pml
31. Panagudi	70	3	115	Myk Knr
32. Radhapuram	65	5	105	Nnr Myk
33. Rahmatpuram	39	4	115	Myk
34. Sadayaneri	48	5	118	Myk
35. Samugarengapuram	59	3	135	Nnr Myk
36. Sundarapandiapuram	78	4	179	Nnr Myk
37. Thandayarkulam	64	3	155	Nnr Myk
38. Therkuvalliur	53	3	125	Knr Nnr
39. Thiruvambalapuram	56	4	140	Nnr Pml
40. Thisayanvilai	78	5	232	Myk Uvr
41. T. Kallikulam	50	12	135	Myk Knr
42. Uthayathur	49	10	125	Nnr
43. Vadakkuvalliyoor	55	4	118	Knr Myk
44. Veppalangulam	63	5	155	Nnr Vvn
45. Vijayapathi	70	3	140	Nnr Tly
46. Visvamitraperi	54	4	128	Nnr Myk

LAND CAPABILITY

RADHAPURAM TALUK

Area (ha)	Land capability classification	Soil series	Limitation	Needs
4,574	II s	Veeravanallur	Mild alkalinity	Addition of organic manures
20,835	III s	Mayamankurichi Manur	Crusting Mild alkalinity	Addition of organic manures
6,837	III se	Kadayanallur Idayankulam	Coarse texture Low CEC Erosion	Addition of tank silt & organic manures Soil conservation
245	III sw	Keelapavoor	Alkalinity Wetness	Selection of crops Addition of iron pyrite Drainage
43,933	IV se	Nanguneri Thalaiyuthu Uvari	Low WHC & CEC Coarse texture Erosion	Selection of crops Addition of tank silt & organic manures Soil conservation
6,096	V se	PerumanaI	Sandy texture Very low WHC & CEC Excessive drainage Erosion	Agro forestry

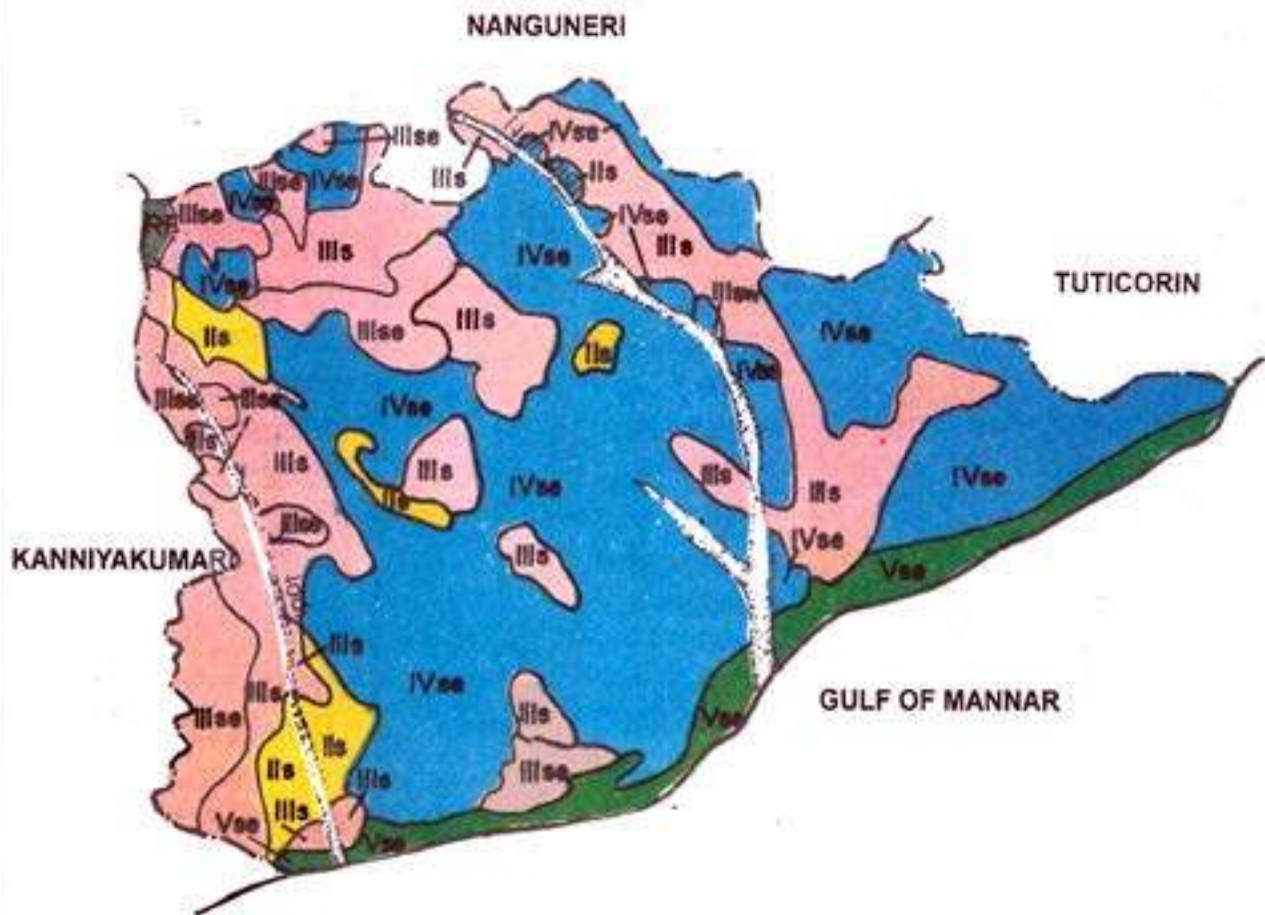
Class

- II** Good cultivable lands that have moderate limitations for sustained use under agriculture
- 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
- V** Non arable lands

Sub class

- s** Root zone limitation
- e** Erosion and run off
- w** Wetness

LAND CAPABILITY RADHAPURAM TALUK



LEGEND CLASS

II	Moderate limitations
III	Severe limitations
IV	Very severe limitations
Non-arable land	

SUB CLASS

- s - Root zone limitation
- e - Erosion hazards
- w - Wetness

LAND IRRIGABILITY

RADHAPURAM TALUK

Area (ha)	Land irrigability classification	Soil series	Limitation
4,574	2 s	Veeravanallur	Mild alkalinity
20,835	3 s	Mayamankurichi Manur	Mild alkalinity Crusting
6,837	3 st	Kadayanallur Idayankulam	Coarse texture Topography
245	3 sd	Keelapavoor	Alkalinity Drainage hazard
43,933	4 st	Nanguneri Thalaiyuthu Uvari	Low WHC & CEC Coarse texture Topography
6,096	5 st	Perumanal	Sandy texture Very low WHC & CEC Excessive drainage Topography

Class

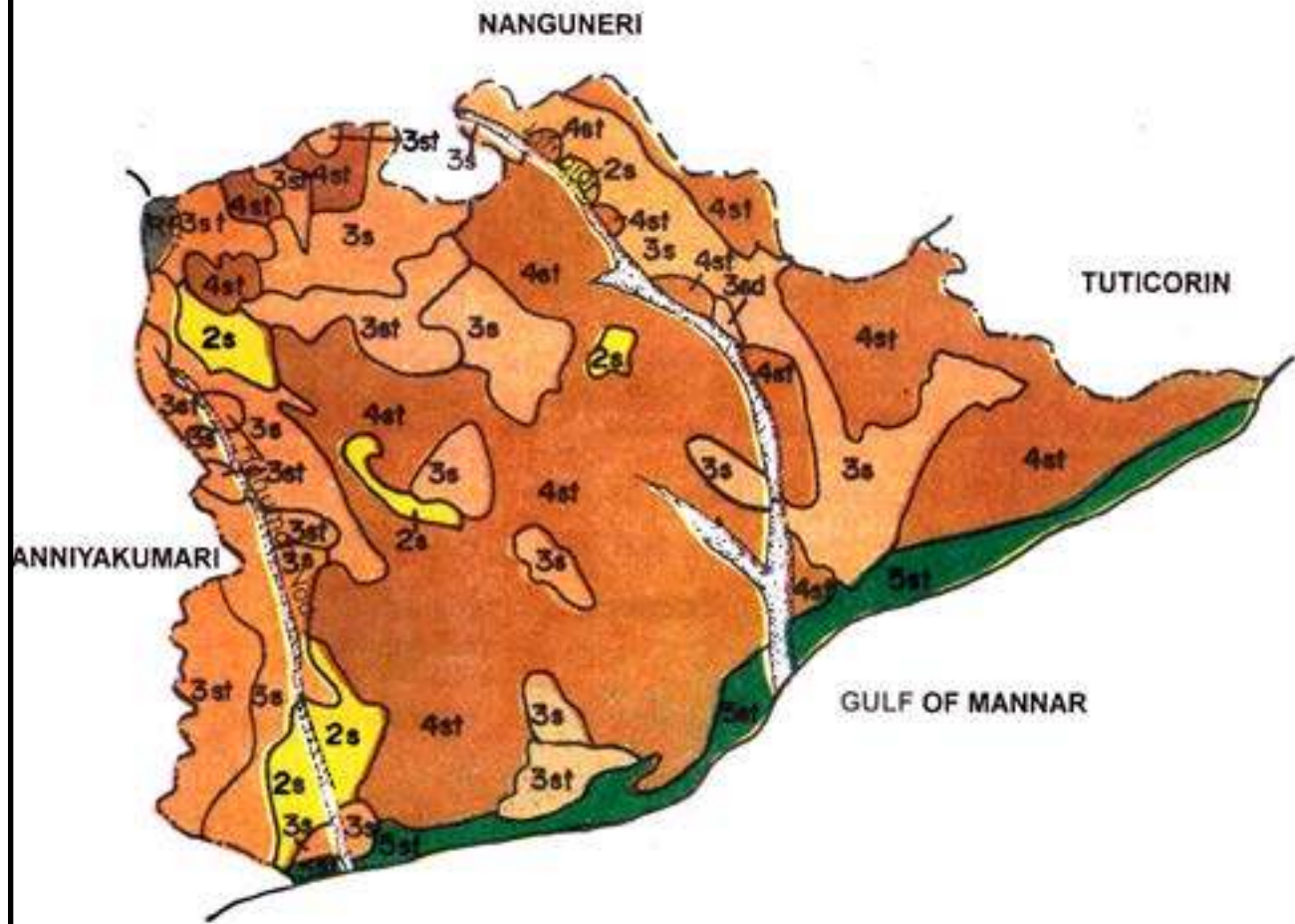
- 2** Lands that have moderate limitations
for sustained use under irrigation
- 3** Lands that have severe limitations
for sustained use under irrigation
- 4** Lands that have very severe limitations
for sustained use under irrigation
- 5** Currently not suitable for irrigation

Sub class

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

LAND IRRIGABILITY

RADHAPURAM TALUK



LEGEND

CLASS

2	Moderate limitations
3	Severe limitations
4	Very severe limitations
5	Non - arable land

SUB CLASS

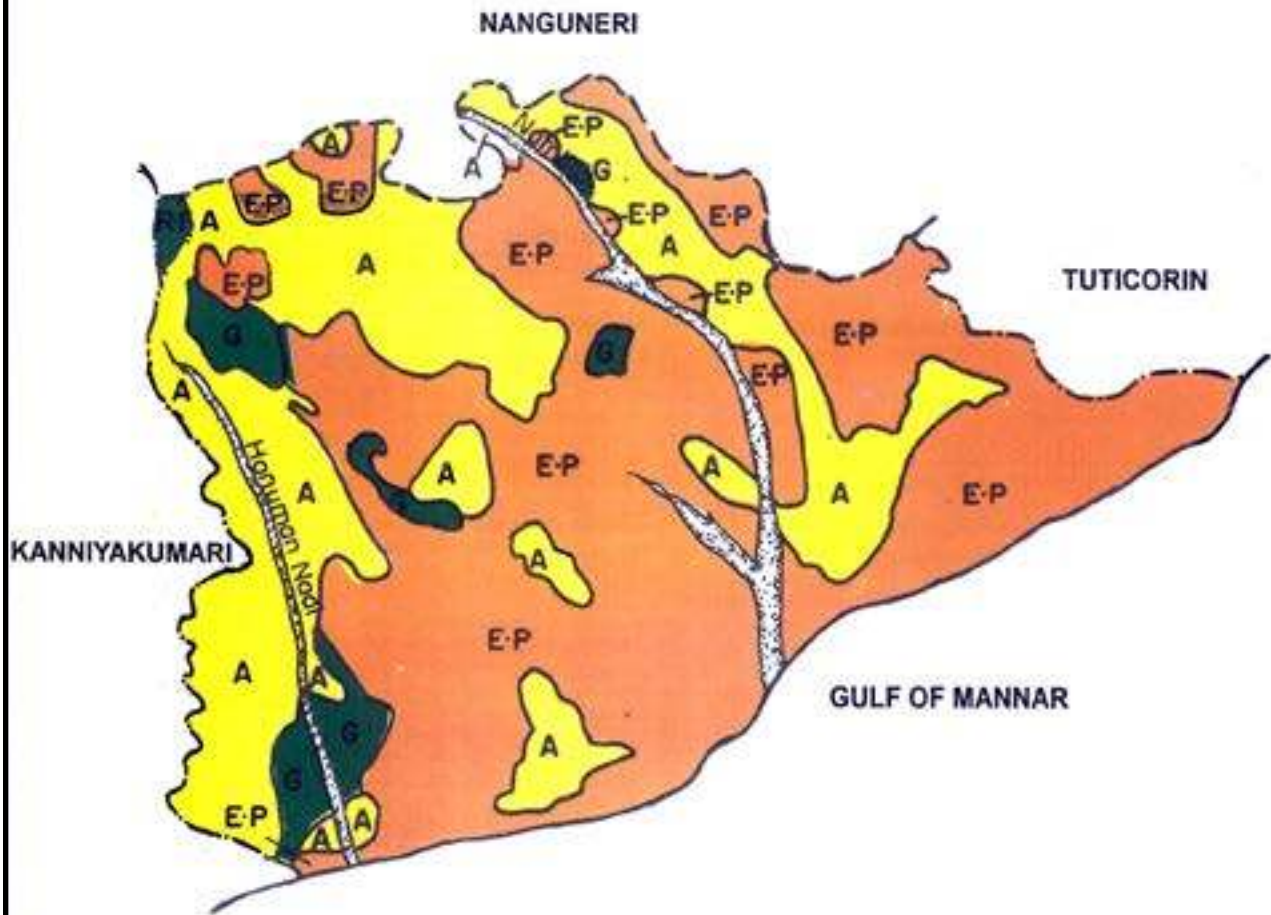
- s - Soil limitation
- t - Topographic limitations
- d - Drainage hazards

SOIL PRODUCTIVITY

RADHAPURAM TALUK

Area (ha)	Productivity		Soil series
	Rating	Grouping	
4,574	35 - 64	Good	Veeravanallur
27,917	20 - 34	Average	Mayamankurichi Kadayanallur Idayankulam Keelapavoor Manur
50,029	0 - 7	Extremely poor	Nanguneri Thalaiyuthu Uvari Perumanal

SOIL PRODUCTIVITY RADHAPURAM TALUK



LEGEND

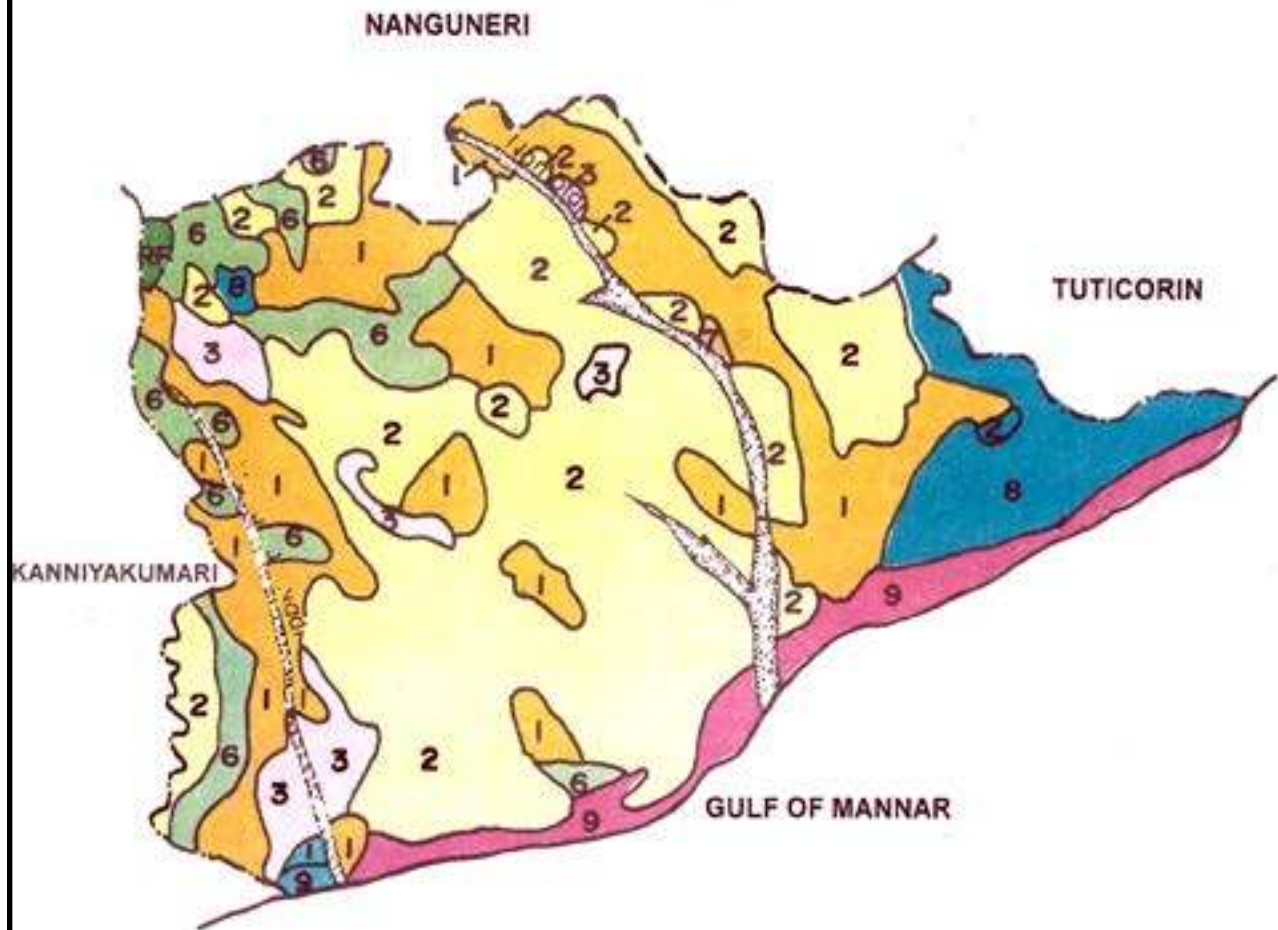
	GOOD
	AVERAGE
	EXTREMELY POOR

CROPS GROWN

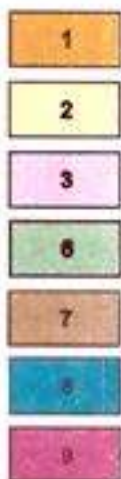
RADHAPURAM TALUK

Map symbol	Soil series	Crops grown	
		Rainfed	Irrigated
1	Mayamankurichi Manur	Millets Pulses	Paddy Banana Chillies Onion
2	Nanguneri Idayankulam Thalaiyuthu	Minor millets Pulses	—
3	Veeravanallur	Millets Pulses	Paddy Banana Chillies Sugarcane Cotton Pulses
6	Kadayanallur	Pulses Millets	Chillies Cotton Groundnut Vegetables Coconut Orchard crops
7	Keelapavoor	Cotton Chillies Millets	Chillies Vegetables
8	Uvari	Cashaw Palmyrah	—
9	Perumanal	Palmyrah	—

CROPS GROWN RADHAPURAM TALUK



LEGEND



SOILS

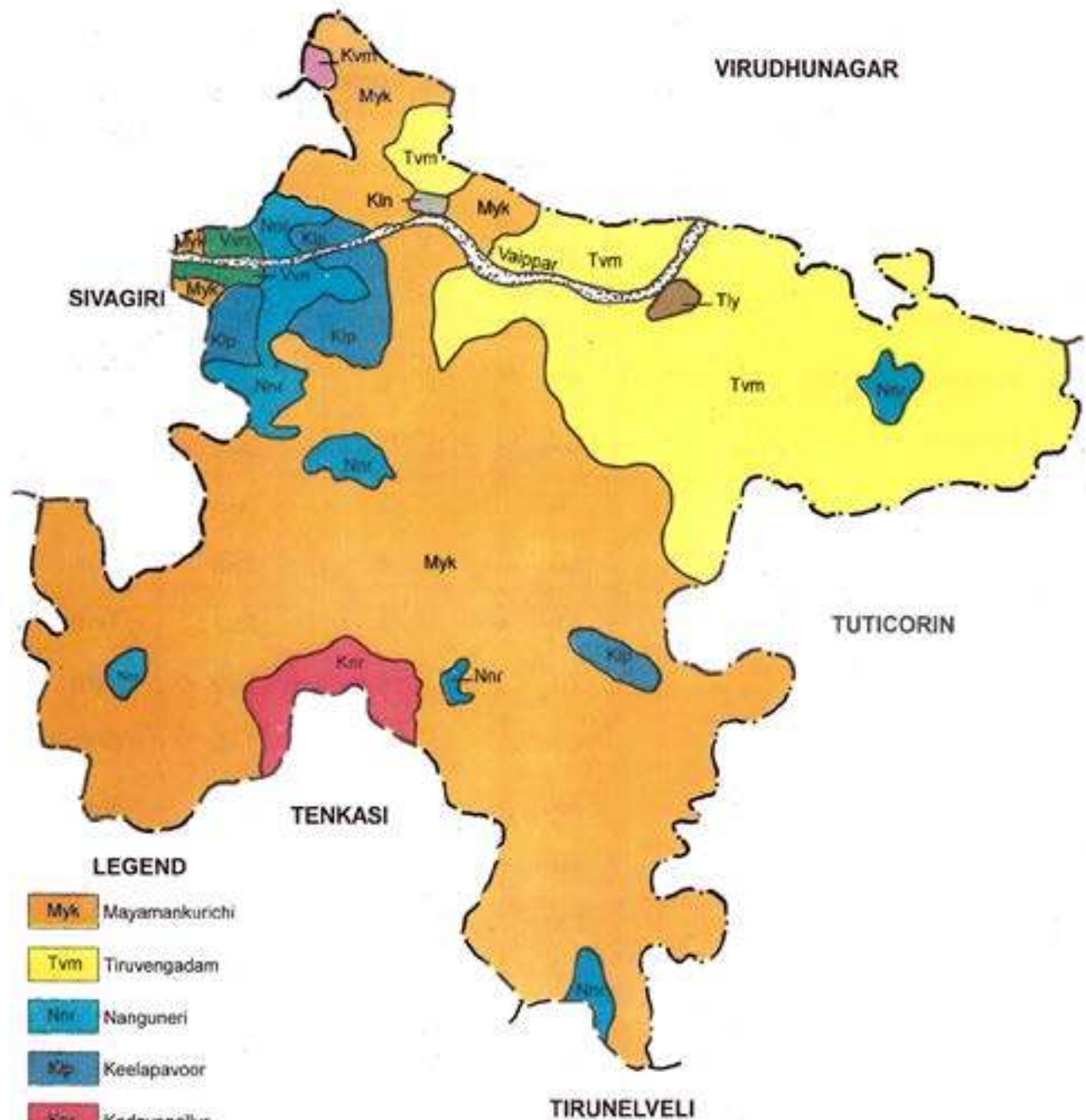
SANKARANKOVIL TALUK

Soil series	Symbol	Extent	
		ha	%
1. Mayamankurichi	Myk	43,150	51.34
2. Tiruvengadam	Tvm	28,928	34.42
3. Nanguneri	Nnr	3,407	4.06
4. Keelapavoor	Klp	2,990	3.56
5. Kadayanallur	Knr	2,971	3.53
6. Veeravanallur	Vvn	1,778	2.11
7. Thalaiyuthu	Tly	321	0.38
8. Karivalam	Kvm	300	0.36
9. Kallurani	Kln	201	0.24
Total		84,046	100.00



SOILS

SANKARANKOVIL TALUK



LEGEND

- Myk Mayamankurichi
- Tvm Tiruvengadam
- Nnr Nanguneri
- Klp Keelapavoor
- Knr Kadayanallur
- Vvn Veeravanallur
- Tly Thalaiyuthu
- Kvm Karivalam
- Kln Kallurani

VILLAGE WISE FERTILITY STATUS AND SOIL SERIES

SANKARANKOIL TALUK

Name of the village	Fertility status (kg/ac)			Dominant soil series
	Nitrogen	Phosphorus	Potassium	
(1)	(2)	(3)	(4)	(5)
1. Achanpatti	80	9	108	Myk
2. Alangulam	70	9	290	Myk Tvm
3. Appaneri	75	4	275	Tvm
4. Ariyanayagipuram	69	6	214	Myk
5. Ayyaneri	84	5	302	Tvm
6. Attipatti	76	3	315	Tvm
7. Alagapuri	56	4	150	Myk
8. Chittirampatti	81	4	295	Tvm
9. Chattrapatti	70	5	290	Tvm
10. Chinnakovilankulam	63	11	145	Knr Myk
11. Chettikulam	58	4	115	Myk
12. Chatramkondan	70	8	220	Myk
13. Devarkulam	75	6	122	Tvm
14. Devarkulam	57	3	295	Myk Nnr
15. Ichenda	68	3	165	Knr Myk
16. Ilayarasanendal	61	4	280	Tvm Nnr
17. Ilandaikulam	62	4	160	Myk Nnr
18. Keelavirasikamani	82	8	167	Myk
19. Kulasekaramangalam	87	4	135	Myk
20. Kurugalpatti	58	4	145	Knr Myk

(1)	(2)	(3)	(4)	(5)
21. Keelanilithanallur	74	7	173	Myk
22. Kalapalankulam	68	9	165	Myk
23. Karisalkulam	87	5	156	Myk
24. Kulakattakuruchi	92	4	305	Tvm
25. Kuruvikulam (North)	81	3	295	Tvm Myk
26. Kurunjakulam	50	4	234	Tvm
27. Kurivikulam (South)	70	6	284	Myk
28. Karisalkulam	49	4	245	Tvm Myk
29. Kalingapatti	73	5	200	Tvm Myk
30. Kallaparkulam	52	9	185	Myk Nnr
31. Kuvalaikanni	63	10	172	Klp Myk
32. Kulasekaraperi	66	10	145	Myk Vvn
33. Karivalamvandanallur	80	12	136	Klp Kvm
34. Karisattan	68	6	160	Myk
35. lakshmiammalpuram	87	6	325	Tvm
36. Madathupatti	87	7	186	Myk
37. Marudappapuram	58	12	163	Myk
38. Melaneelithanallur	69	13	187	Myk Nnr
39. Maruthamkinaru	62	6	125	Myk Klp
40. Moovirundali	97	6	175	Myk
41. Melailandaikulam	72	10	117	Myk
42. Mukkutumalai	92	7	285	Tvm
43. Maiparai	84	4	252	Tvm
44. Magendravadi	68	5	180	Myk Klp
45. A. Madurapuri	91	5	270	Tvm
46. Madurapuri	68	9	192	Myk

(1)	(2)	(3)	(4)	(5)
47. Malayankulam	100	5	135	Myk
48. Manaloor	82	15	215	Myk Klp
49. Naduvakuruchi	97	5	183	Myk
50. Nochikulam	73	4	160	Myk
51. Naduvakurichi (minor)	52	4	130	Knr Myk
52. Nalandula	74	8	173	Tvm Myk
53. Narikudi	81	10	248	Myk
54. Nakkalamuthanpatti	76	3	190	Tvm
55. Naduvapatti	68	4	225	Tvm
56. Naluvasankottai	48	10	220	Myk
57. Punnaivanam	61	4	125	Myk
58. Pattadikattai	62	4	118	Myk Knr
59. Perunkottoor	87	10	207	Myk
60. Poigai	49	3	190	Myk
61. Periyakovilankulam	67	5	211	Myk Knr
62. Puliankulam	83	3	260	Tvm
63. Pitchaithalaivanpatti	63	5	195	Tvm
64. Pillaiyarnatham	69	6	327	Tvm
65. Palankottai	68	6	163	Myk Tvm
66. Periyur	75	3	365	Klp Nnr
67. Perumpathur	98	5	215	Klp Myk
68. Panaiyur	91	115	172	Vvn Nnr
69. Paruvakudi	73	5	137	Myk
70. Padanthapuli	76	3	135	Myk
71. Perumalpatti	83	4	195	Myk Kvm
72. Ramalingapuram	68	5	215	Tvm Myk

(1)	(2)	(3)	(4)	(5)
73. Rengasamudram	83	3	230	Myk
74. Sendamangalam	76	7	262	Myk
75. Saiyumalai	160	6	438	Myk Klp
76. Sundankuruchi	70	5	185	Myk
77. Sundaresapuram	84	5	290	Tvm
78. Sangupatti	133	5	254	Tvm Tly
79. Sevalkulam	63	8	275	Myk Tvm
80. Subbiahpuram	88	6	310	Tvm
81. Sankarankoil	69	9	175	Myk Nnr
82. Therkusankarankoil	82	10	215	Myk
83. Tudianpatti	58	4	230	Myk
84. Thiruvenkadam	63	3	265	Tvm
85. Usilangulam	69	7	165	Myk
86. Veerasikamani	84	11	189	Myk Nnr
87. Vellalankulam	73	6	238	Myk
88. Vadakkupudur	98	7	180	Myk Nnr
89. Veeiruppu	72	5	190	Myk
90. Vadakkupanavadali	58	4	185	Myk
91. Vellappaneri	49	3	285	Myk
92. Vannilkonendal	69	6	165	Myk
93. Vadakkupatti	98	7	180	Tvm Nnr
94. Varaganur	88	4	235	Tvm
95. Vagaikulam	68	4	248	Myk
96. Vallakulam	74	5	265	Tvm
97. Vadikottai	63	4	165	Nnr Myk
98. Vayali	81	10	200	Tvm Klp
99. Valavanathapuram	69	5	25	Myk

LAND CAPABILITY

SANKARANKOVIL TALUK

Area (ha)	Land capability classification	Soil series	Limitation	Needs
1,778	II s	Veeravanallur	Mild alkalinity	Addition of organic manures
43,150	III s	Mayamankurichi	Crusting Mild alkalinity	Addition of organic manures
2,971	III se	Kadayanallur	Coarse texture Low CEC Acidity Erosion	Addition of tank silt, lime & organic manures Soil conservation
32,218	III sw	Tiruvengadam Keelapavoor Karivalam	Alkalinity Wetness	Selection of crops Addition of iron pyrite Drainage
3,929	IV se	Nanguneri Thalaiyuthu Kallurani	Shallow depth Low WHC & CEC Coarse texture Erosion	Selection of crops Addition of tank silt & organic manures Soil conservation

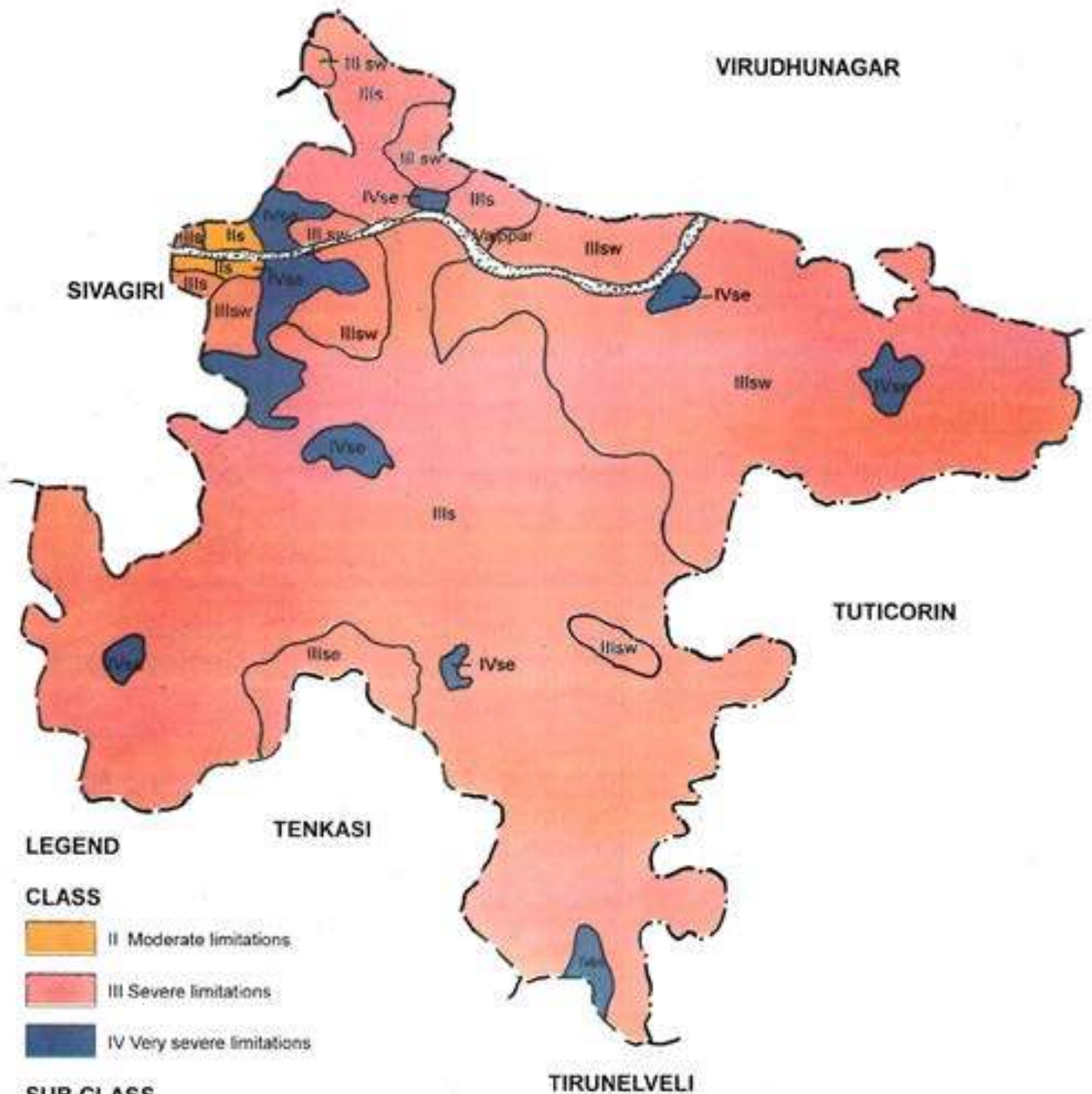
Class

- II** Good cultivable lands that have moderate limitations for sustained use under agriculture
- 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 limitation
- e** Erosion and run off
- w** Wetness

LAND CAPABILITY SANKARANKOVIL TALUK



LAND IRRIGABILITY

SANKARANKOVIL TALUK

Area (ha)	Land irrigability classification	Soil series	Limitation
1,778	2 s	Veeravanallur	Mild alkalinity
43,150	3 s	Mayamankurichi	Mild alkalinity Crusting
2,971	3 st	Kadayanallur	Coarse texture Acidity Topography
32,218	3 sd	Tiruvengadam Keelapavoor Karivalam	Alkalinity Drainage hazard
3,929	4 st	Nanguneri Thalaiyuthu Kallurani	Shallow depth Low WHC Coarse texture Topography

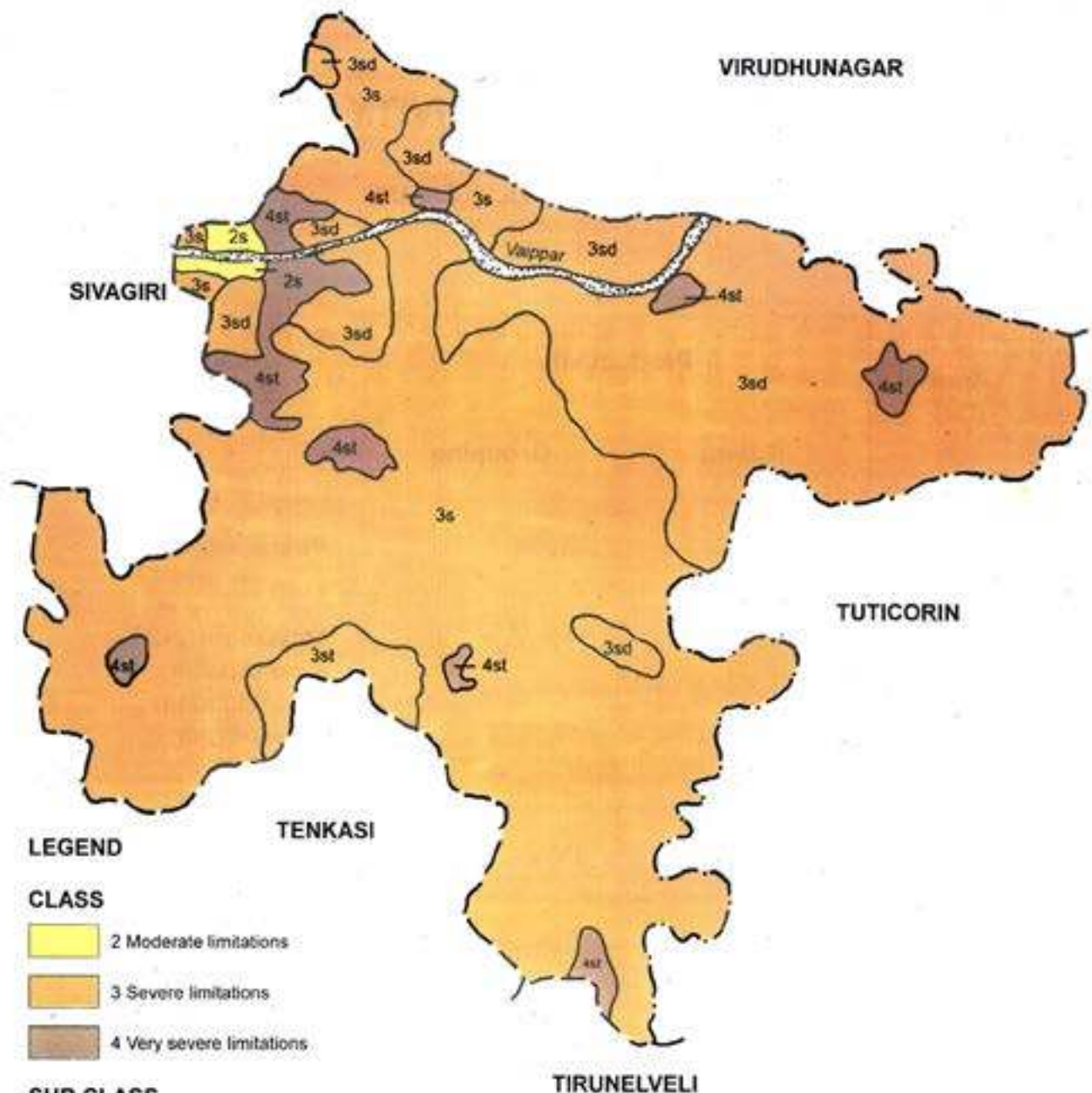
Class

- 2** Lands that have moderate limitations for sustained use under irrigation
- 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
- d** Drainage
- t** Topography

LAND IRRIGABILITY **SANKARANKOVIL TALUK**



LEGEND

CLASS

- 2 Moderate limitations
- 3 Severe limitations
- 4 Very severe limitations

SUB CLASS

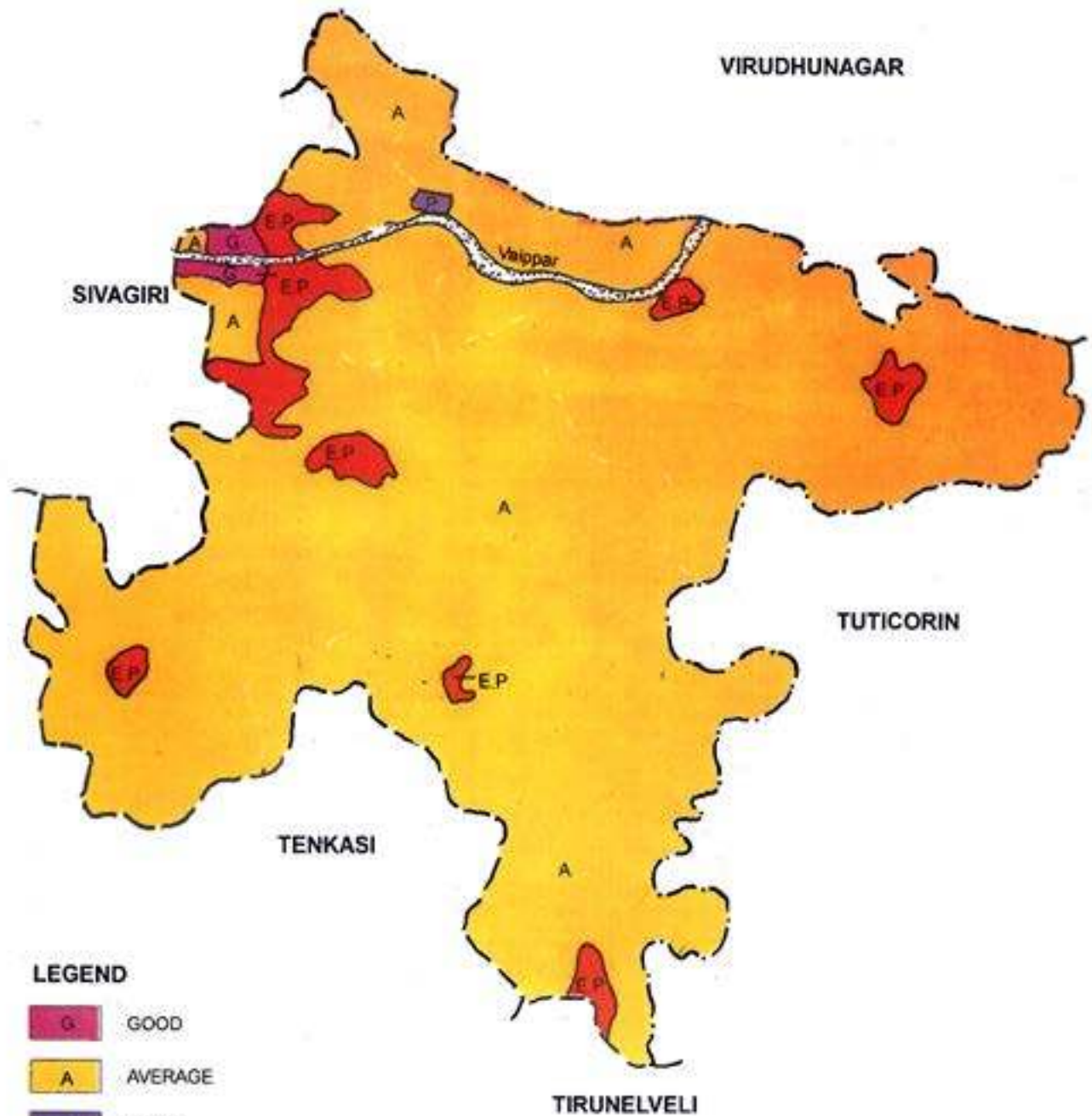
- s - Soil limitations
- t - Topographic limitations
- D - Drainage hazard

SOIL PRODUCTIVITY

SANKARANKOVIL TALUK

Area (ha)	Productivity		Soil series
	Rating	Grouping	
1,778	35 - 64	Good	Veeravanallur
78,339	20 - 34	Average	Mayamankurichi Kadayanallur Tiruvengadam Keelapavoor Karivalam
201	8 - 19	Poor	Kallurani
3,728	0 - 7	Extremely poor	Nanguneri Thalaiyuthu

SOIL PRODUCTIVITY SANKARANKOVIL TALUK



LEGEND

	GOOD
	AVERAGE
	POOR
	EXTREMELY POOR

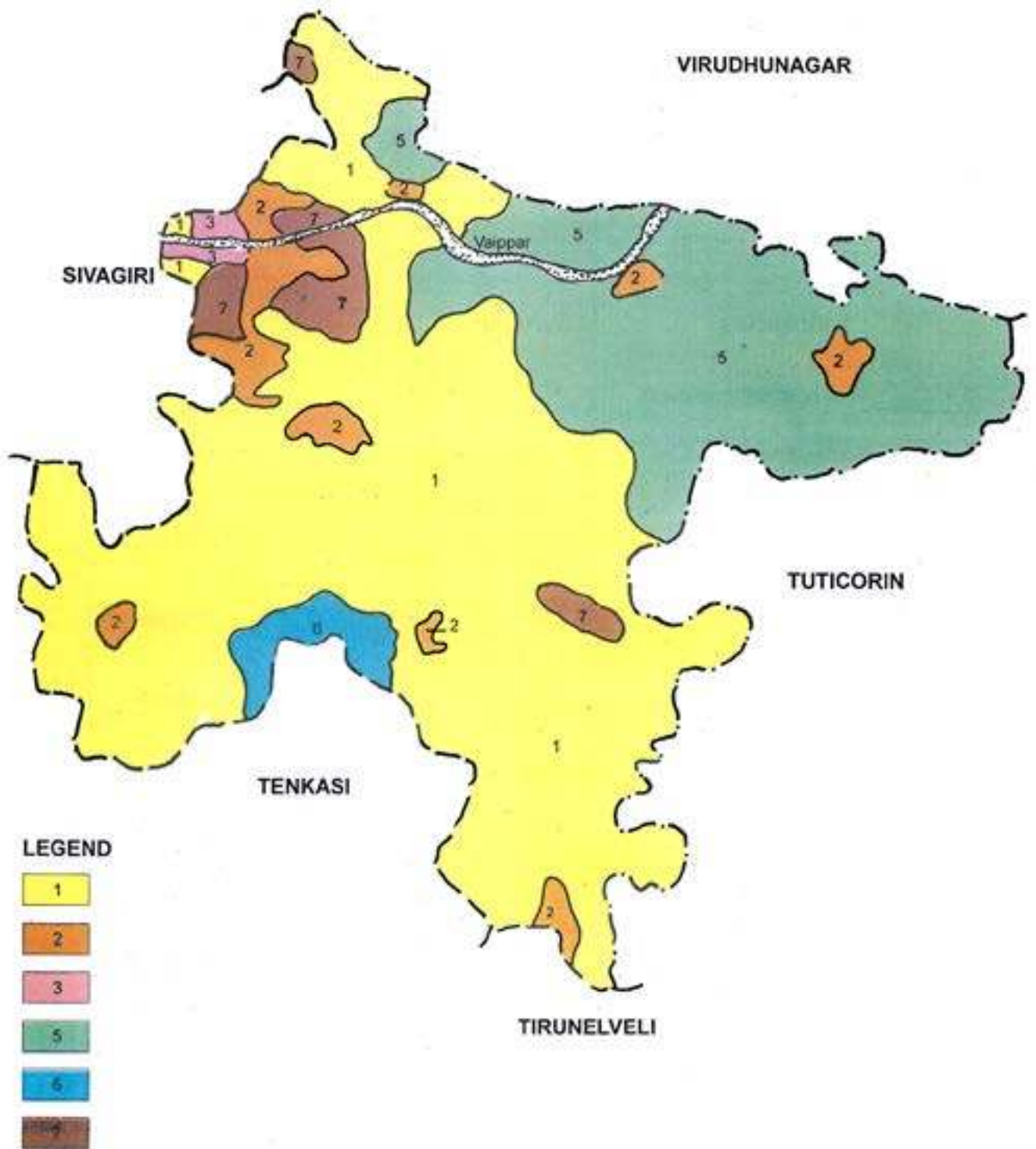
CROPS GROWN

SANKARANKOVIL TALUK

Map symbol	Soil series	Crops grown	
		Rainfed	Irrigated
1	Mayamankurichi	Millets Pulses	Paddy Banana Chillies Onion
2	Nanguneri Thalaiyuthu Kallurani	Minor millets Pulses	—
3	Veeravanallur	Millets Pulses	Paddy Banana Chillies Sugarcane Cotton Pulses
5	Tiruvengadam	Cotton Millets Sunflower Coriander Chillies Pulses	—
6	Kadayanallur	Pulses Millets	Chillies Cotton Groundnut Vegetables Coconut Orchard crops
7	Keelapavoor Karivalam	Cotton Chillies Millets	Chillies Vegetables



CROPS GROWN SANKARANKOVIL TALUK



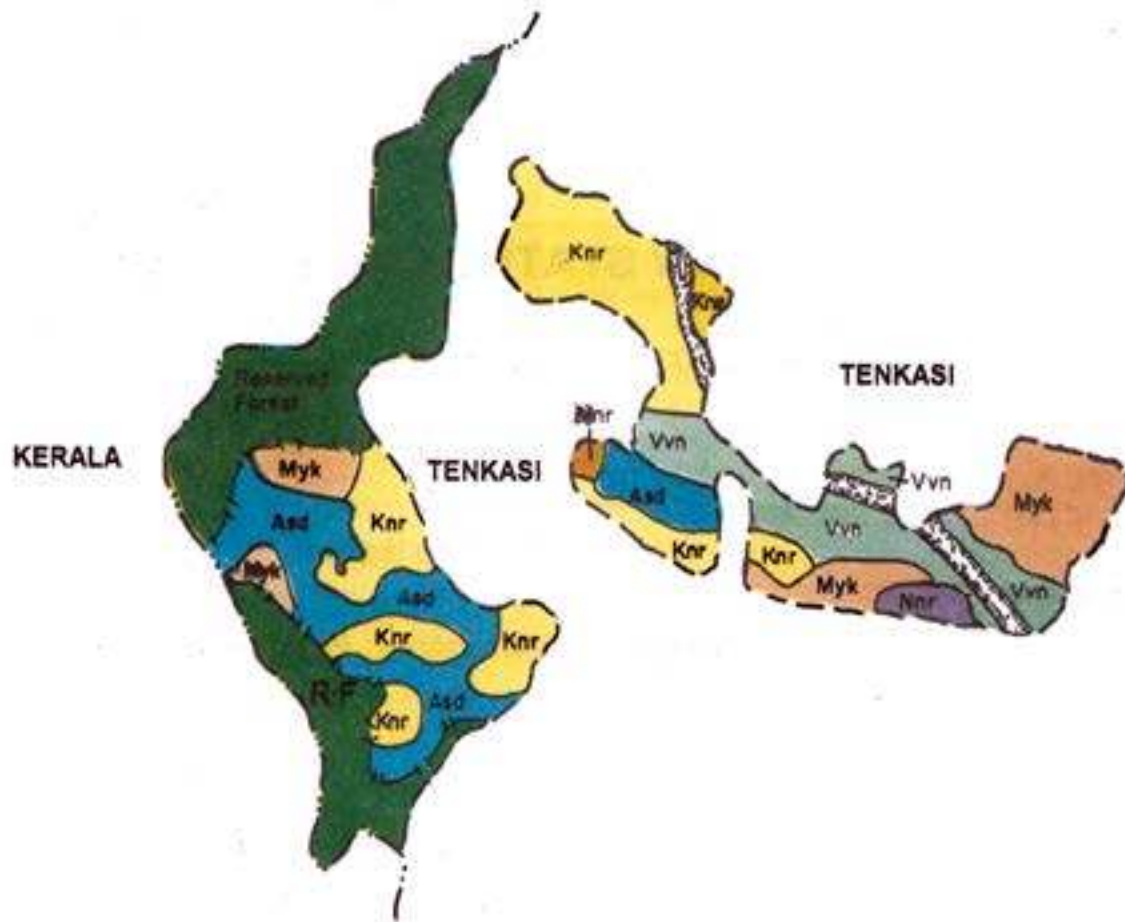
SOILS

SHENCOTTAI TALUK

Soil series	Symbol	Extent	
		ha	%
1. Kadayanallur	Knr	3807	31.06
2. Ambasamudram	Asd	3550	28.97
3. Veeravanallur	Vvn	2204	17.98
4. Mayamankurichi	Myk	1765	14.40
5. Nanguneri	Nnr	488	3.98
6. Manur	Mnr	442	3.61
Total		12,256	100.00



SOILS SHENCOTTAH TALUK



LEGEND

	Knr	Kadayanallur
	Asd	Ambasamudram
	Vvn	Veeravanallur
	Myk	Mayamankurichi
	Nnr	Nanguneri
	Mnr	Manur

VILLAGE WISE FERTILITY STATUS AND SOIL SERIES

SHENCOTTAI TALUK

Name of the village	Fertility status (kg/ac)			Dominant soil series
	Nitrogen	Phosphorus	Potassium	
(1)	(2)	(3)	(4)	(5)
1. Achanpudur	88	5	125	Knr
2. Ayikudi	60	4	145	Vvn Myk
3. Elathur	59	5	115	Vvn Asd
4. Kargudi	93	6	90	Knr Asd
5. Kilangadu	95	10	305	Vvn

(1)	(2)	(3)	(4)	(5)
6. Mekkarai	98	7	398	Myk
7. Pudur	95	6	351	Knr Asd
8. Puliarai	68	10	290	Asd Myk
9. Sambavar Vadagarai	58	9	148	Myk Vvn
10. Shenkottai	71	10	140	Knr Asd

LAND CAPABILITY

SHENCOTTAI TALUK

Area (ha)	Land capability classification	Soil series	Limitation	Needs
2,204	II s	Veeravanallur	Mild alkalinity	Addition of organic manures
2,207	III s	Mayamankurichi Manur	Crusting Mild alkalinity	Addition of organic manures
3,807	III se	Kadayanallur	Coarse texture Low CEC Acidic reaction Erosion	Addition of tank silt, Lime & organic manures Soil conservation
3,550	III sw	Ambasamudram	Crusting Severe wetness	Addition of organic manures Drainage
488	IV se	Nanguneri	Shallow depth Low WHC & CEC Coarse texture Erosion	Selection of crops Addition of tank silt & organic manures Soil conservation

Class

- II** Good cultivable lands that have moderate limitations for sustained use under agriculture
- 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 limitation
- e** Erosion and run off
- w** Wetness

KERALA



CLASS

II	Moderate limitations
III	Severe limitations
IV	Very severe limitation

- s - Root zone limitation
- e - Erosion hazards
- w - Wetness

LAND IRRIGABILITY

SHENCOTTAI TALUK

Area (ha)	Land irrigability classification	Soil series	Limitation
2,204	2 s	Veeravanallur	Mild alkalinity
2,207	3 s	Mayamankurichi Manur	Mild alkalinity Crusting
3,807	3 st	Kadayanallur	Coarse texture Acidity Topography
3,550	3 sd	Ambasamudram	Drainage hazard Crusting
488	4 st	Nanguneri	Shallow depth Low WHC Coarse texture Topography

Class

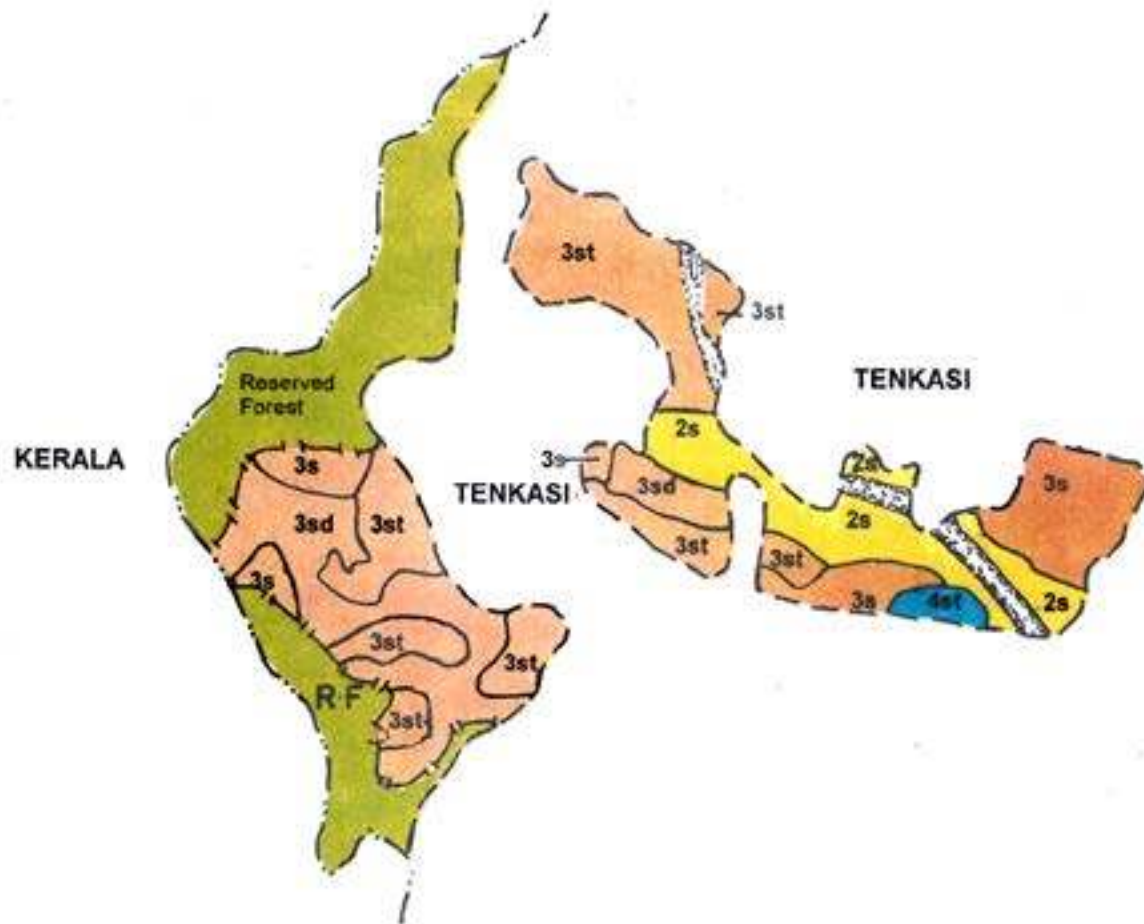
- 2** Lands that have moderate limitations for sustained use under irrigation
- 3** Lands that have severe limitations for sustained use under irrigation
- 4** Lands that have very severe limitations for sustained use under irrigation

Sub class

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



LAND IRRIGABILITY SHENCOTTAH TALUK



LEGEND

CLASS

2	Moderate limitations
3	Severe limitations
4	Very severe limitations

SUB CLASS

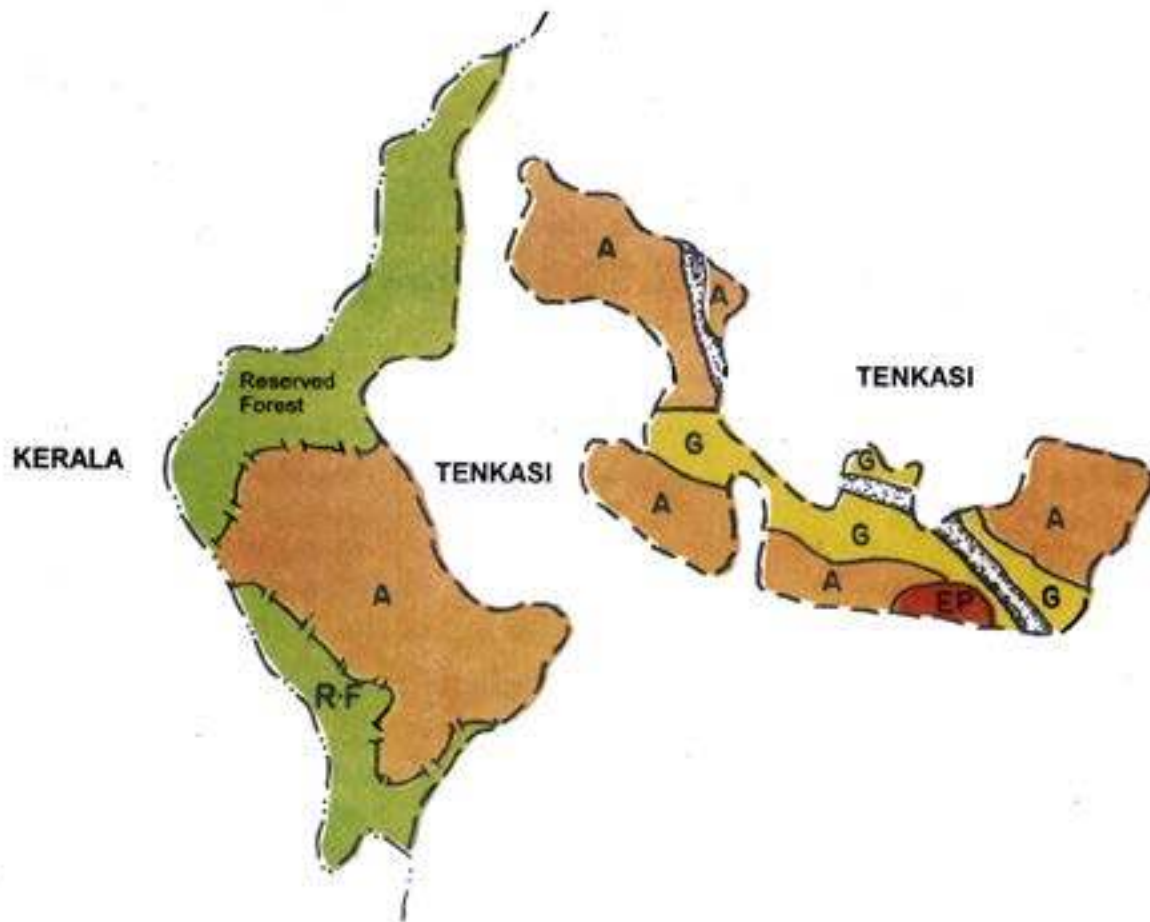
- s - Soil limitation
- t - Topographic limitations
- d - Drainage hazards

SOIL PRODUCTIVITY

SHENCOTTAI TALUK

Area (ha)	Productivity		Soil series
	Rating	Grouping	
2,204	35 - 64	Good	Veeravanallur
9,564	20 - 34	Average	Mayamankurichi Manur Ambasamudram Kadayanallur
488	0 - 7	Extremely poor	Nanguneri

SOIL PRODUCTIVITY SHENCOTTAH TALUK



LEGEND

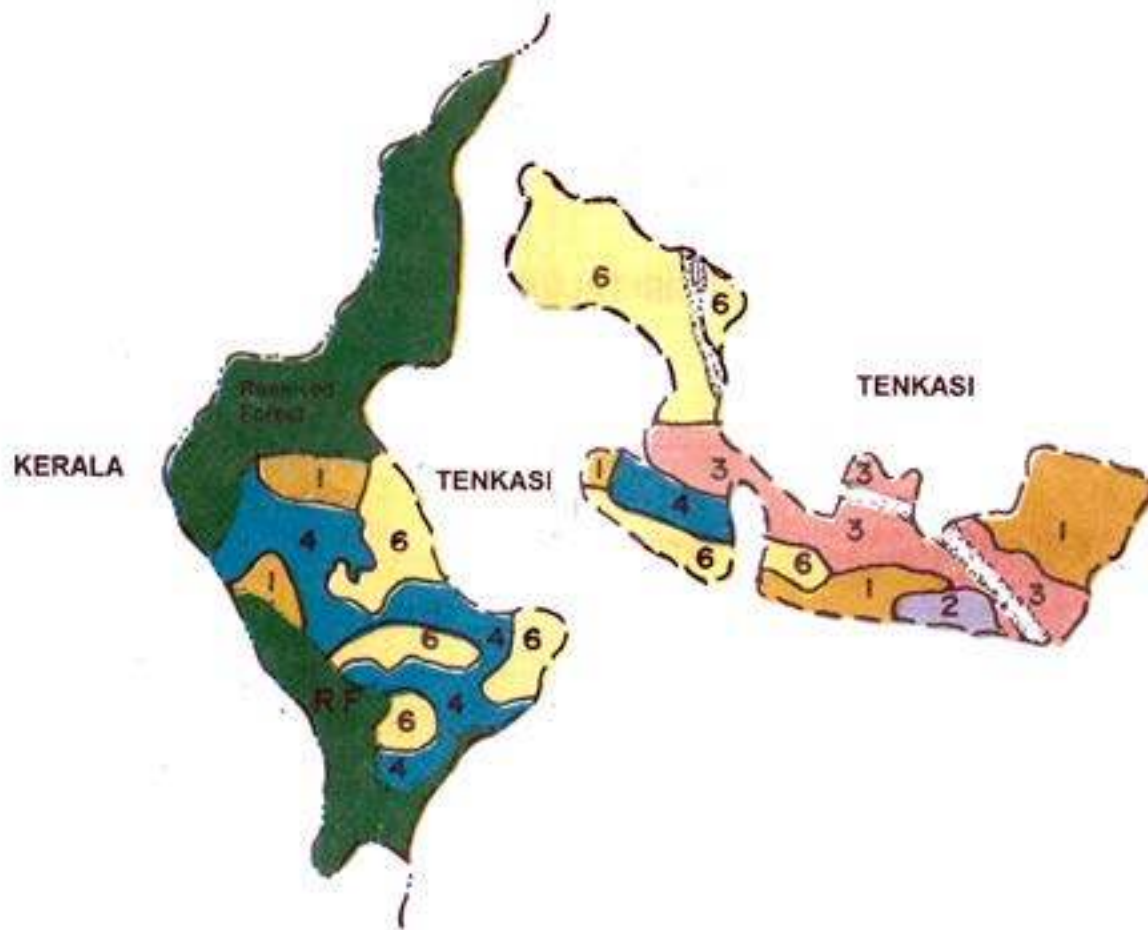
	GOOD
	AVERAGE
	EXTREMELY POOR

CROPS GROWN

SHENCOTTAI TALUK

Map symbol	Soil series	Crops grown	
		Rainfed	Irrigated
1	Mayamankurichi Manur	Millets Pulses	Paddy Banana Chillies Onion
2	Nanguneri	Minor millets Pulses	—
3	Veeravanallur	Millets Pulses	Paddy Banana Chillies Sugarcane Cotton Pulses
4	Ambasamudram	—	Paddy Banana Pulses
6	Kadayanallur	Pulses Millets	Chillies Cotton Groundnut Vegetables Coconut Orchard crops

CROPS GROWN SHENCOTTAH TALUK



LEGEND



SOILS

SIVAGIRI TALUK

Soil series	Symbol	Extent	
		(ha)	%
1. Mayamankurichi	Myk	27,198	83.63
2. Veeravanallur	Vvn	4,040	12.42
3. Nanguneri	Nnr	857	2.64
4. Karivalam	Kvm	250	0.77
5. Keelapavoor	Klp	175	0.54
Total		32,520	100.00

SOILS SIVAGIRI TALUK



LEGEND

-  Mayamankurichi
-  Veeravanallur
-  Nanguneri
-  Karivalam
-  Keelapavoor

VILLAGE WISE FERTILITY STATUS AND SOIL SERIES

SIVAGIRI TALUK

Name of the Village (1)	Fertility status. (kg / ac)			Dominant soil series (5)
	Nitrogen (2)	Phosphorus (3)	Potassium (4)	
1. Alangulam	66	10	150	Myk
2. Ariyur	68	11	171	Nnr, Myk
3. Chinthamani	77	10	160	Vvn, Myk
4. Darukapuram	65	11	120	Myk, Nnr
5. Gudalur	88	10	130	Myk, Vvn
6. Kovilpatti	58	5	160	Myk
7. Malayadikuruchi	77	10	135	Myk, Nnr
8. Melpuliyangudi	76	10	165	Myk, Vvn
9. Nagaram	49	7	160	Myk
10. Naranapuram	88	12	130	Myk, Vvn
11. Nelkatumseval	70	13	115	Myk, Klp
12. Pattakurichi	68	13	118	Myk, Nnr
13. Puliangudy	73	10	148	Vvn, Myk

(1)	(2)	(3)	(4)	(5)
14. Ramanathapuram	77	9	120	Myk
15. Ramasamypuram	58	9	120	Myk
16. Rayagiri	58	10	115	Myk
17. Sankaraperi	81	9	160	Myk
18. Sivagiri	70	10	125	Myk
19. Subramaniapuram	88	3	169	Vvn
20. Talaivankottai	70	9	178	Myk, Vvn
21. Tenmalai	61	5	180	Myk, Nnr
22. Thirumala Naickenpatti	61	10	178	Myk, Vvn
23. Tirumalapuram	68	12	140	Myk
24. Vasudevanallur	91	9	465	Myk, Vvn
25. Viswanathaperi	53	4	160	Myk, Vvn

LAND CAPABILITY

SIVAGIRI TALUK

Area (ha)	Land capability classification	Soil series	Limitation	Needs
4,040	II s	Veeravanallur	Mild alkalinity	Addition of organic manures
27,198	III s	Mayamankurichi	Crusting, Mild alkalinity	Addition of organic manures
425	III sw	Keelapavoor, Karivalam	Alkalinity, Wetness	Selection of crops, Addition of iron pyrite, Drainage
857	IV se	Nanguneri	Shallow depth, Low WHC & CEC, Coarse texture, Erosion	Selection of crops, Addition of tank silt & organic manures, soil conservation

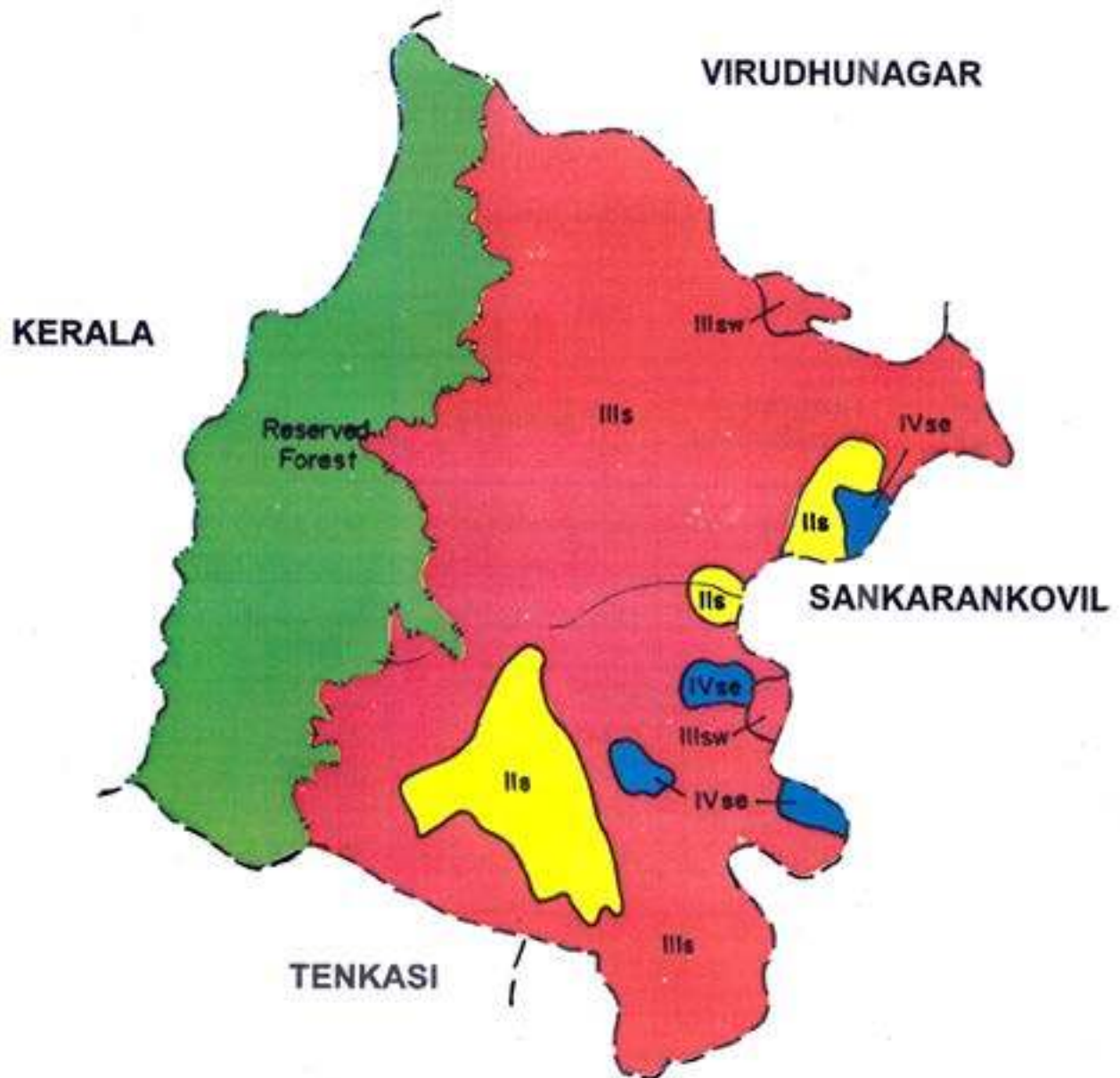
Class

- II** Good cultivable lands that have moderate limitations for sustained use under agriculture
- 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 limitation
- e** Erosion and run off
- w** Wetness

LAND CAPABILITY SIVAGIRI TALUK



LEGEND CLASS

	II Moderate limitations
	III Severe limitations
	IV Very Severe limitations

SUBCLASS

s - Root Zone limitation
e - Erosion hazards
w - Wetness

LAND IRRIGABILITY

SIVAGIRI TALUK

Area (ha)	Irrigability classification	Soil series	Limitation
4,040	2 s	Veeravanallur	Mild alkalinity
27,198	3 s	Mayamankurichi	Mild alkalinity, crusting
425	3 sd	Keelapavoor, Karivalam	Alkalinity, Drainage hazard
857	4 st	Nanguneri	Shallow depth, Low WHC, coarse texture, Topography

Class

- 2** Lands that have moderate limitations for sustained use under irrigation
- 3** Lands that have severe limitations for sustained use under irrigation
- 4** Lands that have very severe limitations for sustained use under irrigation

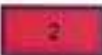
Sub class

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

LAND IRRIGABILITY SIVAGIRI TALUK



LEGEND CLASS

- | | |
|---|-------------------------|
|  | Moderate limitations |
|  | Severe limitations |
|  | Very Severe limitations |

SUBCLASS

- s - soil limitations
t - Topographic limitations
d - Drainage hazards

SOIL PRODUCTIVITY

SIVAGIRI TALUK

Area (ha)	Productivity		Soil series
	Rating	Grouping	
4,040	35 - 64	Good	Veeravanallur
27,623	20 - 34	Average	Mayamankurichi, Keelapavoor, Karivalam
857	0 - 7	Extremely poor	Nanguneri

SOIL PRODUCTIVITY SIVAGIRI TALUK



LEGEND CLASS

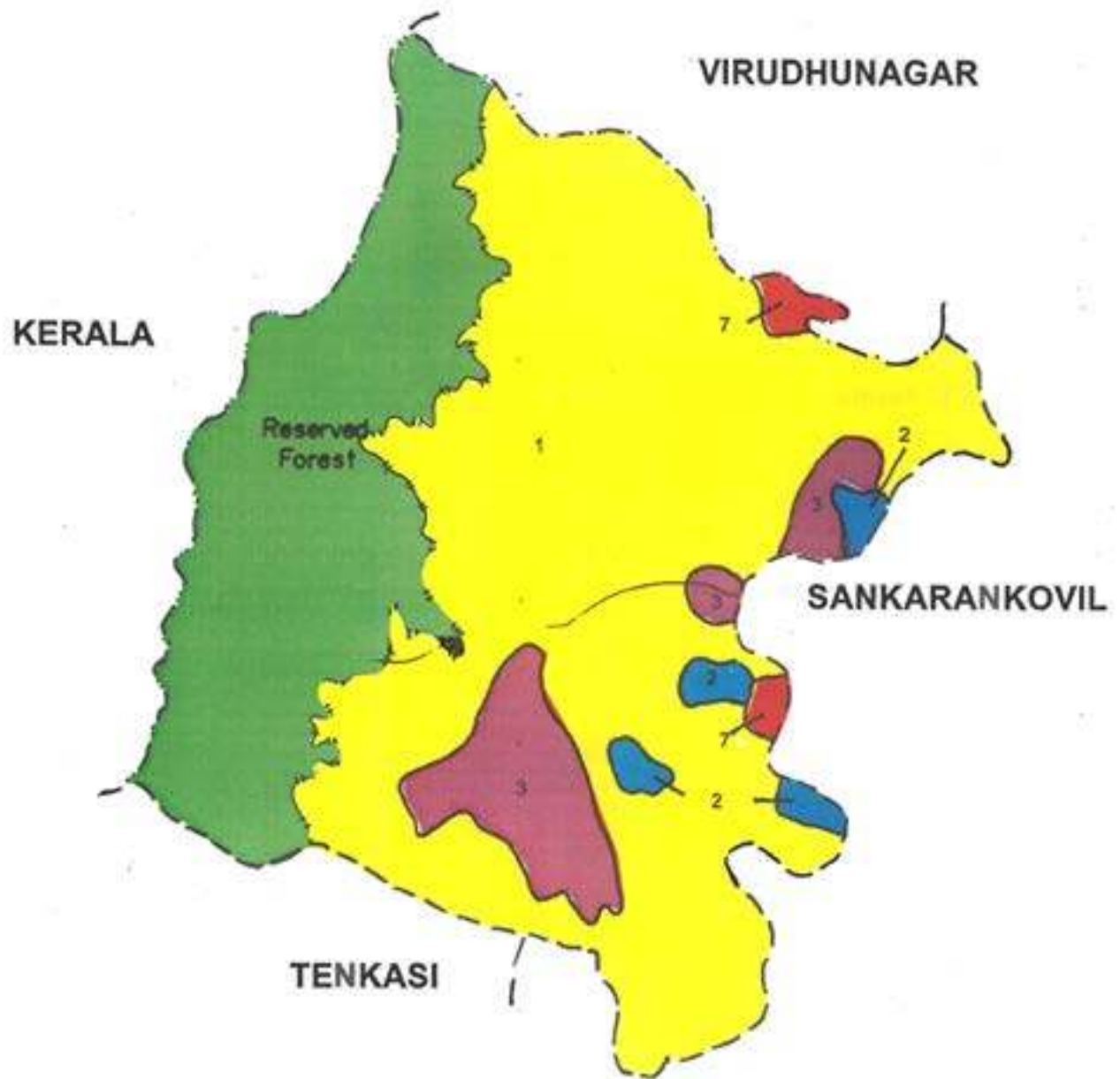
	GOOD
	AVERAGE
	EXTREMELY POOR

CROPS GROWN

SIVAGIRI TALUK

Map Symbol	Soil series	Crops grown	
		Rainfed	Irrigated
1	Mayamankurichi	Millets, Pulses	Paddy, Banana, Chillies, Onion
2	Nanguneri	Minor Millets, Pulses	—
3	Veeravanallur	Millets, Pulses	Paddy, Banana, Chillies, Sugarcane, Cotton, Pulses
7	Keelapavoor, Karivalam	Cotton, Chillies Millets	Chillies, Vegetables

CROPS GROWN SIVAGIRI TALUK



LEGEND

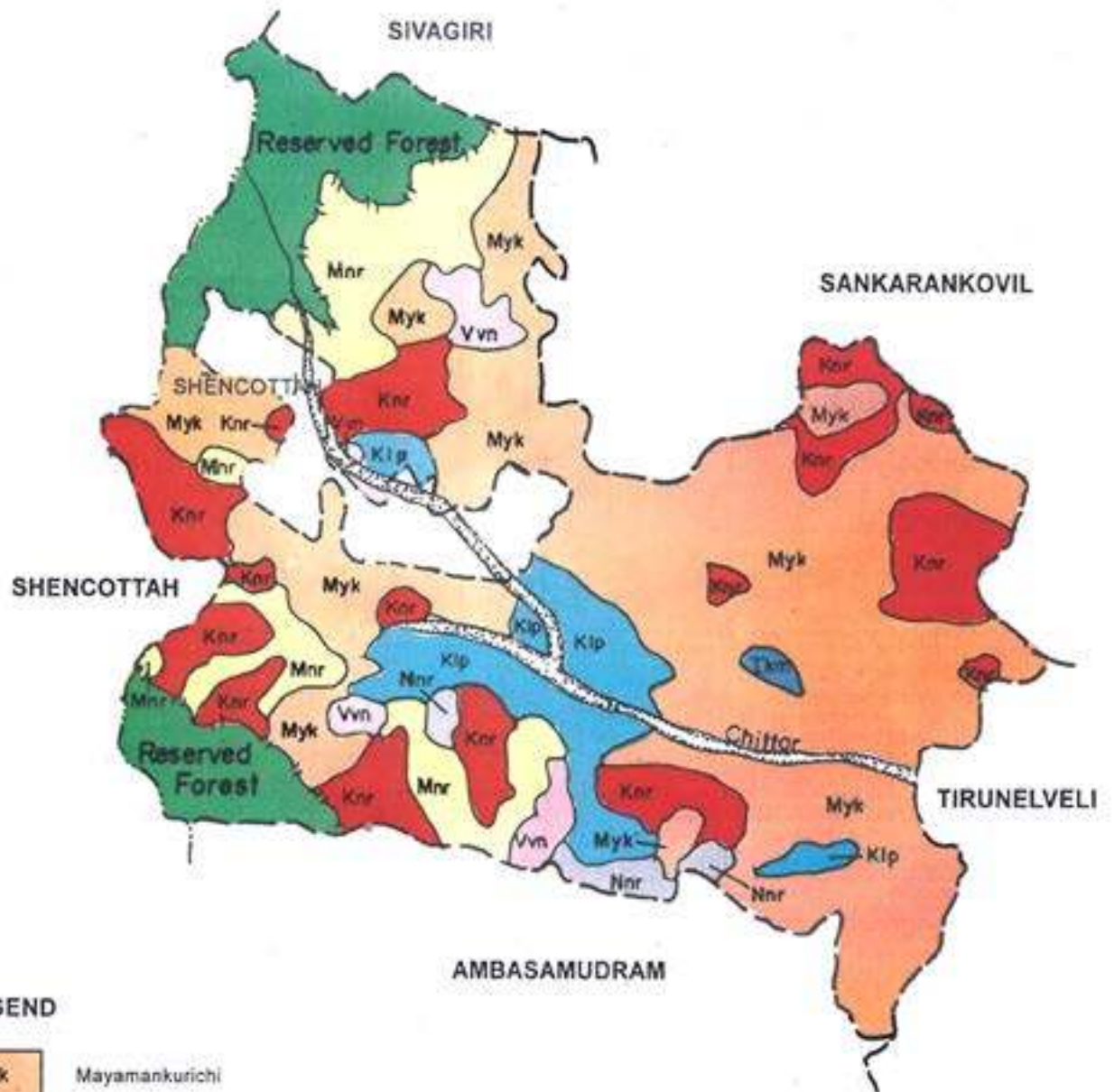


SOILS

TENKASI TALUK

Soil series	Symbol	Extent	
		(ha)	%
1. Mayamankurichi	Myk	48,470	59.74
2. Kadayanallur	Knr	14,106	17.38
3. Keelapavoor	Klp	8,866	10.92
4. Manur	Mnr	6,356	7.83
5. Veeravanallur	Vvn	1,867	2.30
6. Nanguneri	Nnr	1,200	1.48
7. Idayankulam	lkm	281	0.35
Total		81,146	100.00

SOILS TENKASI TALUK



LEGEND

Myk	Mayamankurichi
Knr	Kadayanallur
Klp	Keelapavoor
Mnr	Manur
Vvn	Veeravanallur
Nnr	Nanguneri
Idm	Idayankulam

VILLAGE WISE FERTILITY STATUS AND SOIL SERIES

TENKASI TALUK

Name of the Village (1)	Fertility status (kg / ac)			Dominant soil series (5)
	Notrogen (2)	Phosphorus (3)	Potassium (4)	
1. Achankuttam	79	10	158	Myk, Klp
2. Agaram	78	10	170	Myk, Klp
3. Alangulam	83	14	171	Myk, Knr
4. Anaikulam	81	12	165	Myk
5. Andipatti	75	5	138	Nnr, Myk
6. Avudaiyanur	70	10	170	Mnr, Knr
7. Ayirapperi	63	9	175	Myk, Vvn
8. Ayyanarkulam	70	11	190	Myk
9. Balabadraramapuram	71	7	142	Myk, Knr
10. Boganallur	58	5	166	Myk, Vvn
11. Chokkampatti	69	12	168	Mnr, Myk
12. Gunaramanallur	58	11	148	Klp, Knr
13. Idaikal	72	9	180	Knr, Klp
14. Ilanji	62	10	148	Knr, Mnr
15. Kadayanallur	67	10	169	Mnr, Knr
16. Kambaneri Pudukudi	79	11	155	Myk, Knr
17. Kanakkupillaivalasai	58	10	165	Knr, Myk
18. Kodikurichi	66	5	150	Myk
19. Krishnapuram	63	11	185	Mnr, Myk
20. Kasidarmam	58	13	185	Knr, Mnr
21. Keelapavoor	62	10	169	Klp, Knr
22. Kuthukalvalasai	48	4	140	Myk, Knr

(1)		(2)	(3)	(4)	(5)	
23.	Kutrallam	58	5	143	Mnr,	Knr
24.	Kunnakudi	73	11	144	Mnr,	Knr
25.	Kulayaneri	56	10	169	Myk,	Knr
26.	Kulasekarapatti	58	10	165	Klp,	Knr
27.	Kallurani	63	11	148	Knr,	Nnr
28.	Kaluneerkulam	84	11	190	Knr,	Myk
29.	Kaduvetti	58	4	110	Myk	
30.	Kilakalangal	70	5	194	Myk,	Knr
31.	Kurichampatti	56	5	115	Myk,	Knr
32.	Karuvanda	76	4	170	Myk,	Knr
33.	Kavalakurichi	81	4	140	Myk	
34.	Kasikkuvaithan	72	6	150	Myk,	lkm
35.	Kidarankulam	78	5	150	Myk	
36.	Kadayaneri	66	5	115	Myk	
37.	Kanagasababathiperi	62	10	169	Myk	
38.	Mathalamparai	76	11	158	Knr,	Myk
39.	Marandai	82	4	170	Myk	
40.	Mayamankuruchi	70	5	120	Myk,	Knr
41.	Melagaram	77	5	165	Mnr,	Knr
42.	Melapavur	75	10	159	Klp,	Knr
43.	Melakalangal	58	11	150	Myk	
44.	Melamarudappapuram	62	10	120	Myk,	Knr

(1)	(2)	(3)	(4)	(5)
45. Minnadiseri	85	4	158	Myk, Mnr
46. Marukkalankulam	55	12	135	Myk, Knr
47. Muthammalpuram	63	10	155	Knr, Myk
48. Nainaragaram	55	11	160	Klp, Vvn
49. Naranapuram	47	11	115	Myk
50. Navaneethakrishnapuram	56	11	216	Myk
51. Nagalkadu	48	5	125	Knr
52. Neduvayal	71	11	170	Knr, Vvn
53. Nettoor	51	12	133	Myk
54. Panpoli	63	9	175	Mnr, Knr
55. Payapathu	82	10	154	Mnr, Myk
56. Pattakurichi	56	14	120	Myk, Klp
57. Pethanadarpatti	70	4	135	Vvn, Mnr
58. Periapillaivalasai	69	13	180	Knr
59. Piranoor	70	3	165	Knr
60. Poigai	60	12	150	Myk
61. Poolangulam	81	5	213	Klp, Nnr
62. Puliur	69	4	140	Myk, Knr
63. Sillaripuravu	68	5	146	Knr
64. Sivalarkulam	70	11	135	Myk, Klp
65. Sivagurunathapuram	58	10	180	Klp, Myk
66. Sundarapandiapuram	65	12	120	Myk, Klp

(1)	(2)	(3)	(4)	(5)
67. Subbiapuram	78	5	120	Myk
68. Surandai	82	4	168	Myk, Klp
69. Surandai	88	9	267	Klp
70. Rajagopalaperi	81	11	183	Myk, Klp
71. Tenkasi	56	11	115	Myk, Mnr
72. Thenpothai	82	16	168	Knr
73. Thippanpatti	69	5	135	Knr, Mnr
74. Thirusitrambalam	63	13	150	Myk, Klp
75. Tuttikulam	58	12	115	Myk, Knr
76. Uthumalai	76	14	185	Knr, Myk
77. Urmelalagiyan	57	14	165	Myk, Knr
78. Vadagaraimelpidagai	69	10	137	Myk, Knr
79. Vadagarai Keelpidagai	43	12	138	Myk, Knr
80. Vadakkukavalakurichi	49	13	135	Myk, Knr
81. Vadi	52	10	150	Myk, Mnr
82. Vairavankulam	71	13	148	Mnr, Myk
83. Vallakal	74	6	132	Klp
84. Vallam	79	12	155	knr, Mnr
85. Veerakeralampudur	85	11	146	Klp, Myk
86. Veeranam	61	11	146	Myk, lkm

LAND CAPABILITY

TENKASI TALUK

Area (ha)	Land capability classification	Soil series	Limitation	Needs
1,867	II s	Veeravanallur	Mild alkalinity	Addition of organic manures
54,826	III s	Mayamankurichi, Manur	Crusting, Mild alkalinity	Addition of organic manures
14,387	III se	Kadayanallur, Idayankulam	Coarse texture LOW CEC Erosion	Addition of tank silt & organic manures, Soil conservation
8,866	III sw	Keelapavoor	Alkalinity, Wetness	Selection of Crops, Addition of iron pyrite, Drainage
1,200	IV se	Nanguneri	Shallow depth, Low WHC & CEC, Coarse texture, Erosion	Selection of crops, Addition of tank silt & organic manures, Soil conservation

Class

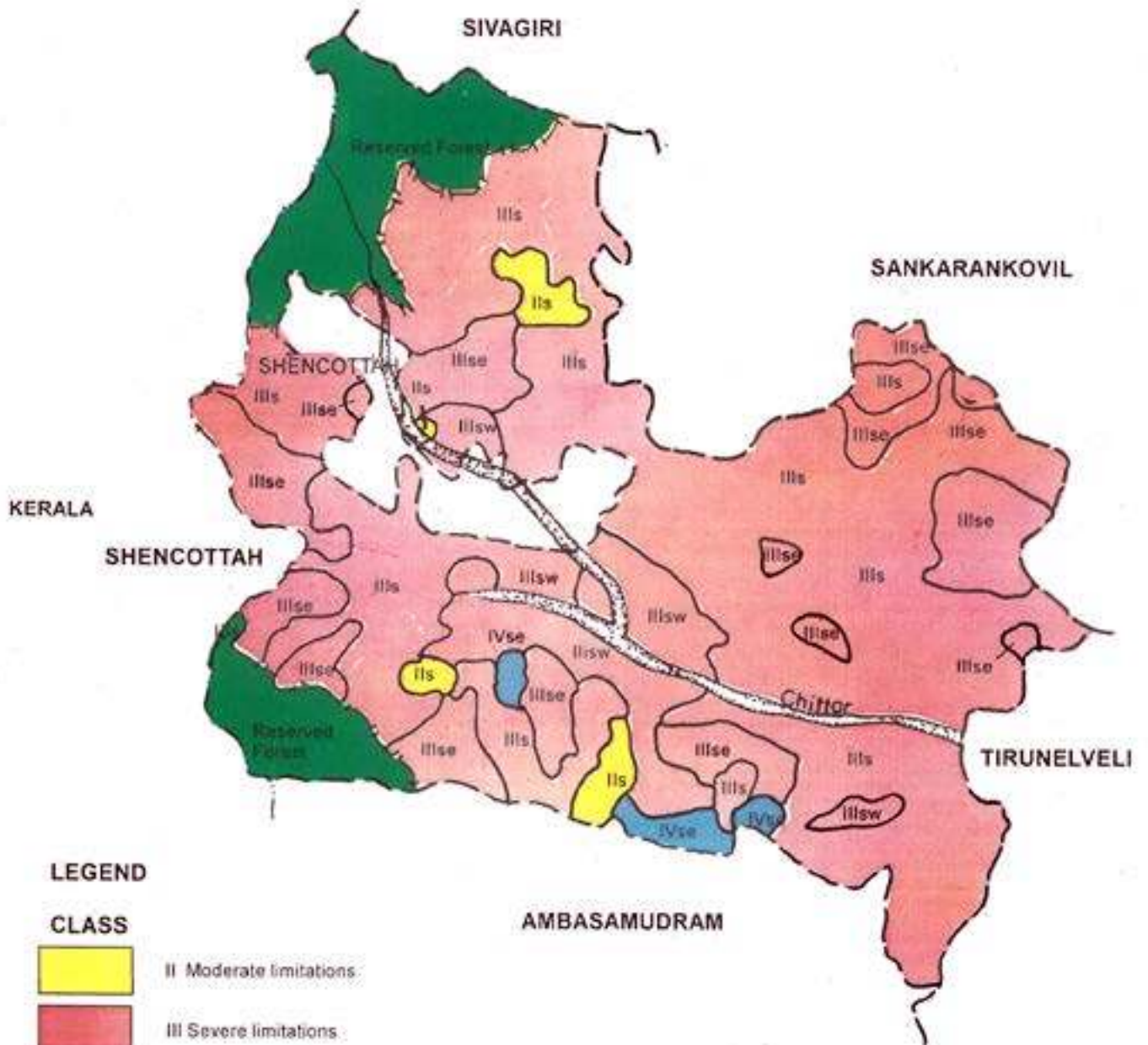
- II** Good cultivable lands that have moderate limitations for sustained use under agriculture
- III** Moderately good cultivable lands that have severe limitations for sustained use under agriculture
- IV** Lands that have very severe limitations for sustained use under agriculture

Sub class

- s** Root zone limitation
- e** Erosion and run off
- w** Wetness

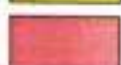
LAND CAPABILITY

TENKASI TALUK



LEGEND

CLASS

	II Moderate limitations
	III Severe limitations
	IV Very severe limitations

SUB CLASS

- s - Root zone limitations
- e - Erosion hazards
- w - Wetness

LAND IRRIGABILITY

TENKASI TALUK

Area (ha)	Irrigability classification	Soil series	Limitation
1,867	2 s	Veeravanallur	Mild alkalinity
54,826	3 s	Mayamankurichi, Manur	Mild alkalinity, crusting
14,387	3 st	Kadayanallur, Idayankulam	Coarse texture, Topography
8,866	3 sd	Keelpavoor	Alkalinity, Drainage hazard
1,200	4 st	Nanguneri	Shallow depth, Low WHC, coarse, texture, Topography

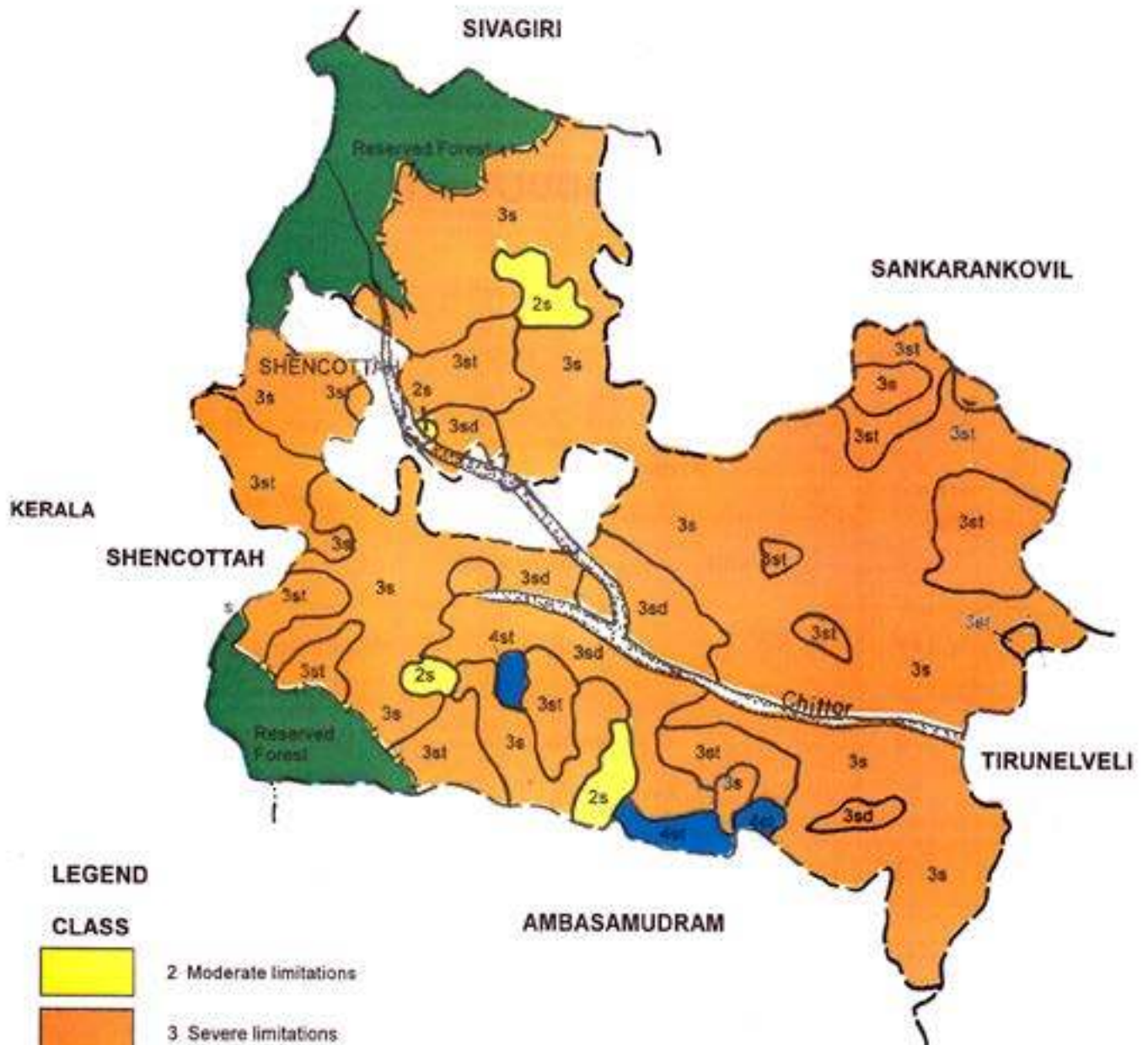
Class

- 2** Lands that have moderate limitations for sustained use under irrigation
- 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
- d** Drainage
- t** Topography

LAND IRRIGABILITY TENKASI TALUK



LEGEND

CLASS

- 2 Moderate limitations
- 3 Severe limitations
- 4 Very severe limitations

SUB CLASS

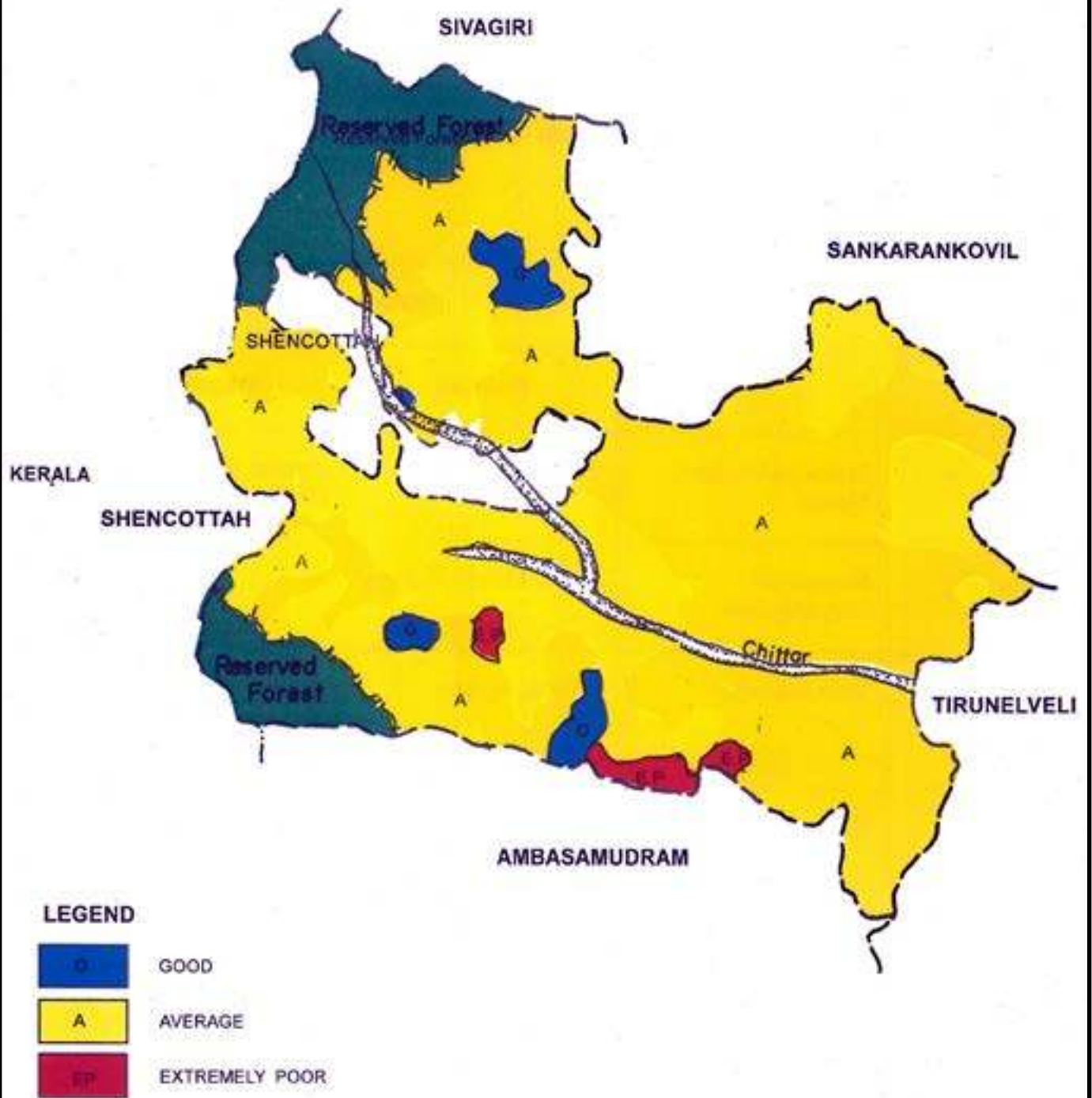
- s - Soil limitation
- t - Topographic limitations
- d - Drainage hazards

SOIL PRODUCTIVITY

TENKASI TALUK

Area (ha)	Productivity		Soil series
	Rating	Grouping	
1,867	35 - 64	Good	Veeravanallur
78,079	20 - 34	Average	Mayamankurichi, Kadayanallur, Keelapavoor, Manur, Idayankulam
1,200	0 - 7	Extremely poor	Nanguneri

SOIL PRODUCTIVITY TENKASI TALUK

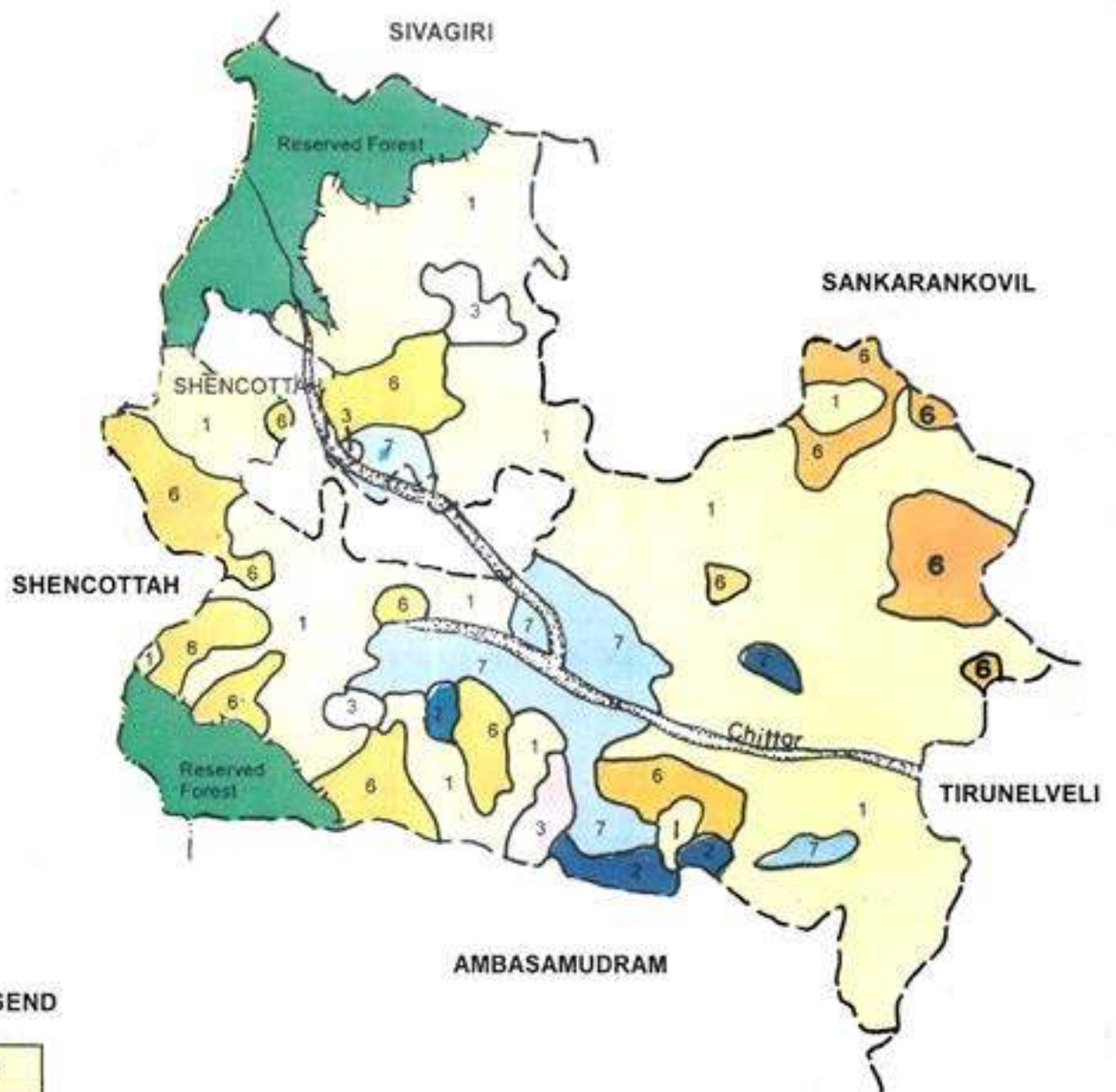


CROPS GROWN

TENKASI TALUK

Map Symbol	Soil series	Crops grown	
		Rainfed	Irrigated
1	Mayamankurichi, Manur	Millets, Pulses	Paddy, Banana, Chillies, Onion
2	Nanguneri, Idayankulam	Minor Millets, Pulses	—
3	Veeravanallur	Millets, Pulses	Paddy, Banana, Chillies, Sugarcane, Cotton, Pulses
6	Kadayanallur	Pulses, Millets	Chillies, Cotton, Groundnut, Vegetables, Coconut, Orchard crops
7	Keelapavoor	Cotton, chillies, Millets	Chillies, Vegetables

CROPS GROWN TENKASI TALUK



LEGEND



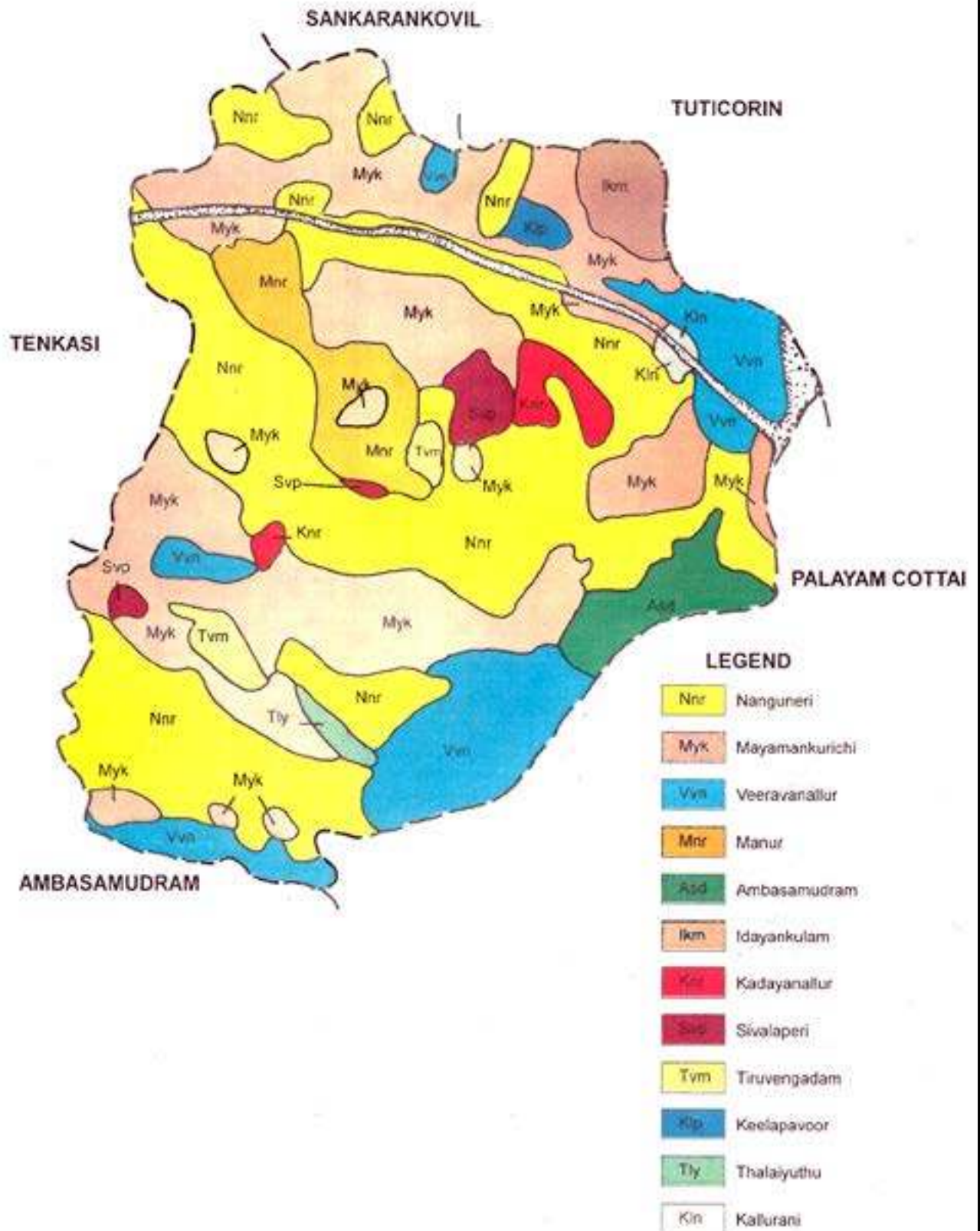
SOILS

TIRUNELVELI TALUK

Soil series	Symbol	Extent	
		(ha)	%
1. Nanguneri	Nnr	18,118	34.71
2. Mayamankurichi	Myk	16,987	32.55
3. Veeravanallur	Vvn	6,319	12.11
4. Manur	Mnr	2,690	5.15
5. Ambasamudram	Asd	2,138	4.10
6. Idayankulam	lkm	1,529	2.93
7. Kadayanallur	Knr	1,137	2.18
8. Sivalaperi	Svp	882	1.69
9. Tiruvengadam	Tvm	822	1.58
10. Keelapavoor	Klp	646	1.24
11. Thalaiyuthu	Tly	520	0.99
12. Kallurani	Kln	400	0.77
Total		52,188	100.00



SOILS TIRUNELVELI TALUK



VILLAGE WISE FERTILITY STATUS AND SOIL SERIES

TIRUNELVELI TALUK

Name of the Village		Fertility status (kg / ac)			Dominant soil series
		Notrogen	Phosphorus	Potassium	
(1)		(2)	(3)	(4)	(5)
1.	Anandakrishnapuram	88	9	160	Vvn
2.	Alagiapandiapuram	77	8	129	Myk, Nnr
3.	Alaganeri	81	10	145	Vvn
4.	Abisekapatti	70	11	85	Myk, Nnr
5.	Alageneri	76	12	155	Nnr
6.	Alangaraperi	55	10	110	Nnr, Myk
7.	Chittarchatram	59	4	138	Klp, Nnr
8.	Gangaigondan	61	5	128	Vvn, Kln
9.	Chelianallur	50	9	147	Nnr, Klp
10.	Ettankulam	46	12	125	Myk, Mnr
11.	Karungadu	92	10	175	Vvn
12.	Kandanagaram	71	11	181	Nnr, Myk
13.	Kodaganallur	53	10	176	Nnr, Vvn
14.	Karaiyiruppu	58	10	145	Myk, Vvn
15.	Karuvanallur	58	12	125	Myk, Vvn
16.	Kurichikulam	64	11	138	Nnr, Myk
17.	Kanarpatti	63	11	160	Myk, Nnr
18.	Kattarankulam	68	12	115	Myk, Nnr
19.	Kuppakurichi	59	10	137	Vvn, Nnr
20.	Kalakurichi	69	11	156	Vvn

(1)	(2)	(3)	(4)	(5)
21. Karuvelangulam	75	11	156	Nnr
22. Kattampali	49	5	131	Nnr, Vvn
23. Kalakudi	55	10	149	Mnr, Myk
24. Melakallur	61	9	154	Nnr, Myk
25. Madavakurichi	66	12	150	Nnr, Mnr
26. Manur	111	12	137	Mnr, Myk
27. Mahamudaiyarkulam	59	8	95	Myk
28. Nanjankulam	58	11	135	Nnr, Tvm
29. Narasinganallur	90	12	315	Nnr, Vvn
30. Naranammalpuram	77	10	280	Nnr, Myk
31. Palavoor	102	11	312	Nnr, Vvn
32. Pettai	98	9	190	Vvn, Nnr
33. Puthur	94	11	229	Nnr, Myk
34. Pallikottai	63	10	105	Myk, Svp
35. Prancheri	58	8	141	Myk, lkm
36. Pattinalamperi	58	13	145	Myk
37. Palamadai	75	14	145	Asd, Svp
38. Ramalinganeri	81	13	160	Myk
39. Ramayanpatti	76	10	115	Myk
40. Rajavallipuram	99	13	148	Vvn, Asd

(1)	(2)	(3)	(4)	(5)
41. Sethurayanputhur	70	12	120	Myk, Nnr
42. Sutthamalli	81	6	326	Nnr, Vvn
43. Sangamthiradu	80	10	275	Nnr, Vvn
44. Sivanyarkulam	70	10	115	Nnr, Myk
45. Sindupundurair	86	13	150	Vvn, Asd
46. Sirukkankurichi	75	10	150	Myk, Tvm
47. Seethaparpanallur	65	11	140	Myk, Vvn
48. Thulukkankulam	68	11	135	Myk, Nnr
49. Thirupanikarisalkulam	78	13	225	Nnr, Tvm
50. Thatchanallur	84	12	165	Vvn, Asd
51. Therkupatti	89	11	176	Nnr, Myk
52. Thenkulam	82	9	125	Nnr, Knr
53. Thalaiyuthu	76	10	415	Nnr, Tly
54. Uganthanpatti	81	10	285	Nnr, Myk
55. Ukkirankottai	97	10	104	Myk, Nnr
56. Udayaneri	78	11	160	Vvn
57. Vadugampatti	69	9	190	Nnr, Tvm
58. Vellalankulam	58	10	110	Myk, Nnr
59. Vellalankulam	85	12	145	Myk, Tvm
60. Vagaikulam	76	10	163	Nnr, Myk

(1)	(2)	(3)	(4)	(5)
61. Veppankulam	78	10	165	Myk
62. Vettarankulam	80	10	120	Myk
63. Thenpattu	99	14	160	Vvn, Asd
64. Pillayankattalai	81	10	148	Nnr
65. Tirunelveli	90	14	185	Vvn, Asd
66. Melaveeraragavapuram	78	8	115	Vvn, Asd
67. Kandiaperi	91	10	146	Nnr, Vvn
68. Samugarengankattalai	70	11	125	Nnr, Myk
69. Thirupaninallapuram	68	11	280	Tvm, Myk
70. Thulukkapatti	88	11	145	Nnr
71. Thuvvarasi	60	10	115	Myk
72. Vagaikulam	78	9	437	Myk
73. Manimoorthysivaram	70	9	130	Vvn
74. Arugankulam	68	3	215	Vvn
75. Mavadi	56	4	185	Mnr, Tvm
76. Pillayarkulam	65	4	180	Myk, Nnr
77. Kattali Udayaneri	58	3	215	Nnr, Vvn
78. Theneerkulam	76	4	220	Nnr, Vvn

LAND CAPABILITY

TIRUNELVELI TALUK

Area (ha)	Land capability classification	Soil series	Limitation	Needs
6,319	II s	Veeravanallur	Mild alkalinity	Addition of organic manures
19,677	III s	Mayamankurichi, Manur	Crusting, Mild alkalinity	Addition of Organic manures
2,666	III se	Kadayanallur, Idayankulam	Coarse texture, Low CEC, Erosion	Addition of tank silt & organic manures, Soil conservation
4,488	III sw	Tiruvengadam, Ambasamudram, Keelapavoor, Sivalaperi	Alkalinity, Wetness	Selection of crops, Drainage
19,038	IV se	Nanguneri, Thalaiyuthu, Kallurani	Shallow depth, Low WHC & CEC, Coarse texture, Erosion	Selection of crops, Addition of tank silt & organic manures, Soil conservation

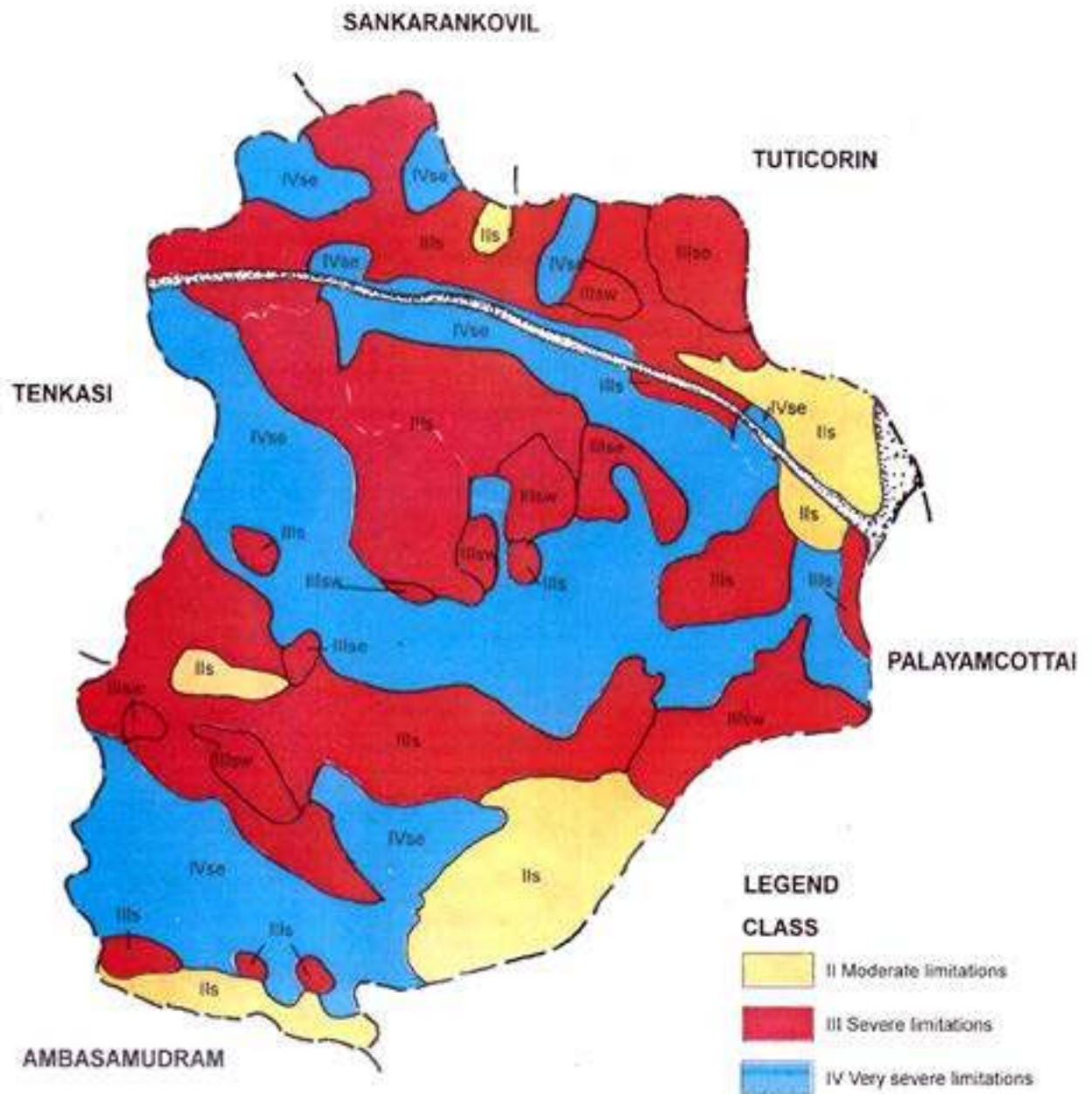
Class

- II** Good cultivable lands that have moderate limitations for sustained use under agriculture
- 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 limitation
- e** Erosion and run off
- w** Wetness

LAND CAPABILITY TIRUNELVELI TALUK



LAND IRRIGABILITY

TIRUNELVELI TALUK

Area (ha)	Irrigability classification	Soil series	Limitation
6,319	2 s	Veeravanallur	Mild alkalinity
19,677	3 s	Mayamankurichi, Manur	Mild alkalinity, crusting
2,666	3 st	Kadayanallur, Idayankulam	Coarse texture, Topography
4,488	3 sd	Tiruvengadam, Ambasamudram, Keelapavoor, Sivalaperi	Alkalinity, Drainage hazard
19,038	4 st	Nanguneri, Thalaiyuthu, Kallurani	Shallow depth, Low WHC, coarse texture, Topography

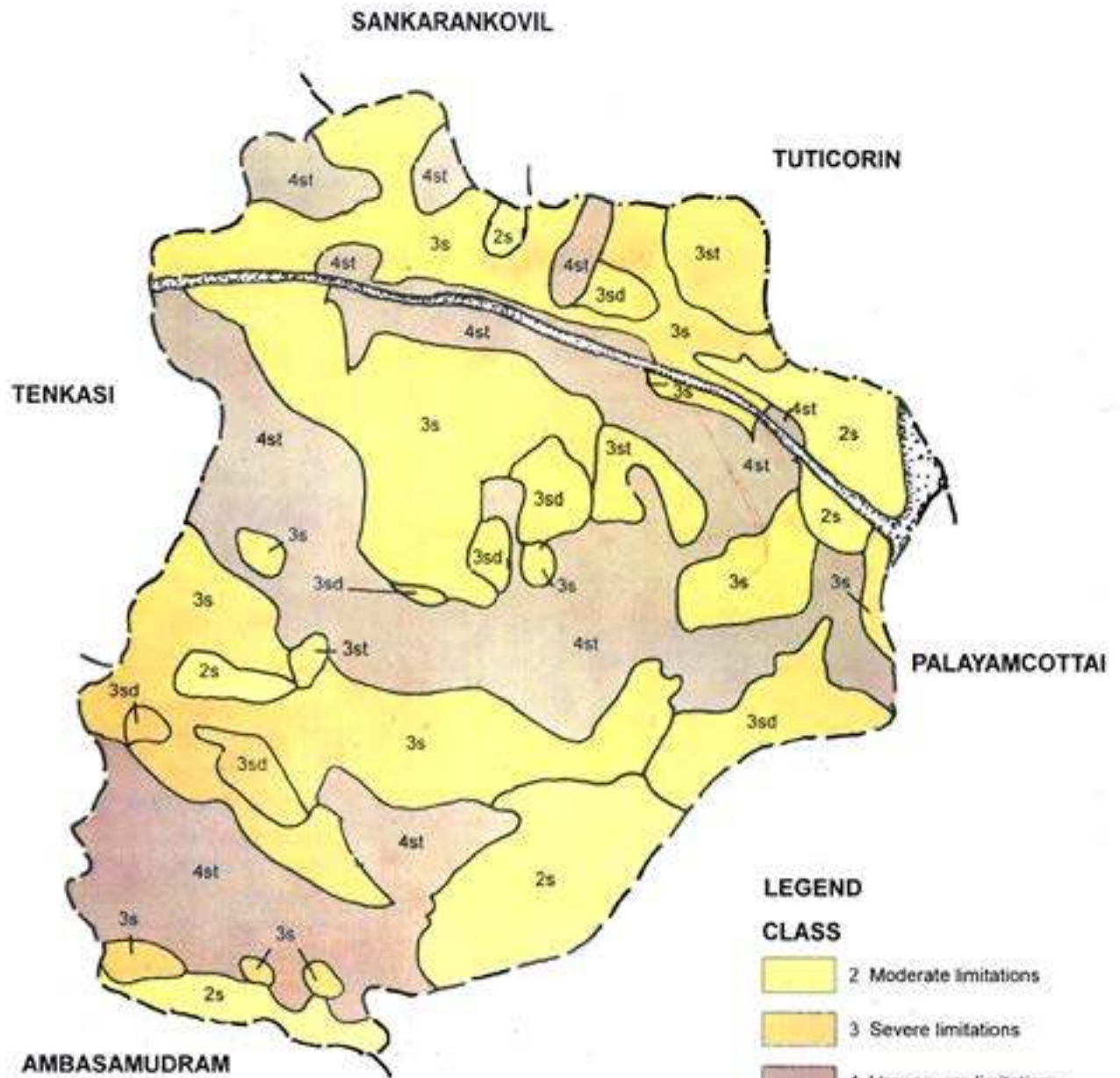
Class

- 2** Lands that have moderate limitations for sustained use under irrigation
- 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
- d** Drainage
- t** Topography

LAND IRRIGABILITY TIRUNELVELI TALUK



LEGEND

CLASS

- 2 Moderate limitations
- 3 Severe limitations
- 4 Very severe limitations

SUB CLASS

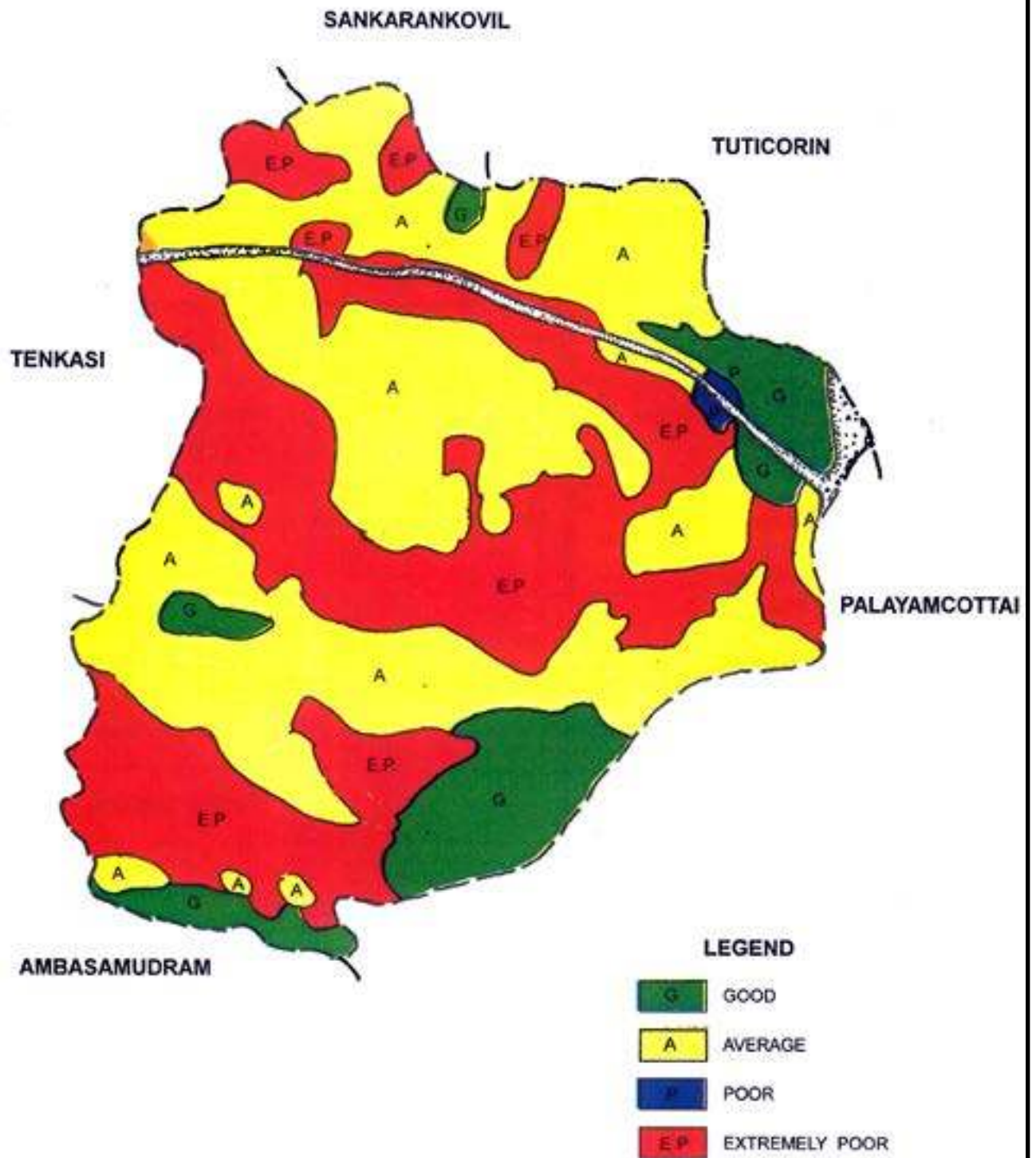
- s - Soil limitations
- t - Topographic limitation
- d - Drainage hazards

SOIL PRODUCTIVITY

TIRUNELVELI TALUK

Area (ha)	Productivity		Soil series
	Rating	Grouping	
6,319	35 - 64	Good	Veeravanallur
26,831	20 - 34	Average	Mayamankurichi, Tiruvengadam, Kadayanallur, Ambasamudram, Keelapavoor, Idayankulam, Manur, Sivalaperi
400	8 - 19	Poor	Kallurani
18,638	0 - 7	Extremely poor	Nanguneri, Thalaiyuthu

SOIL PRODUCTIVITY TIRUNELVELI TALUK

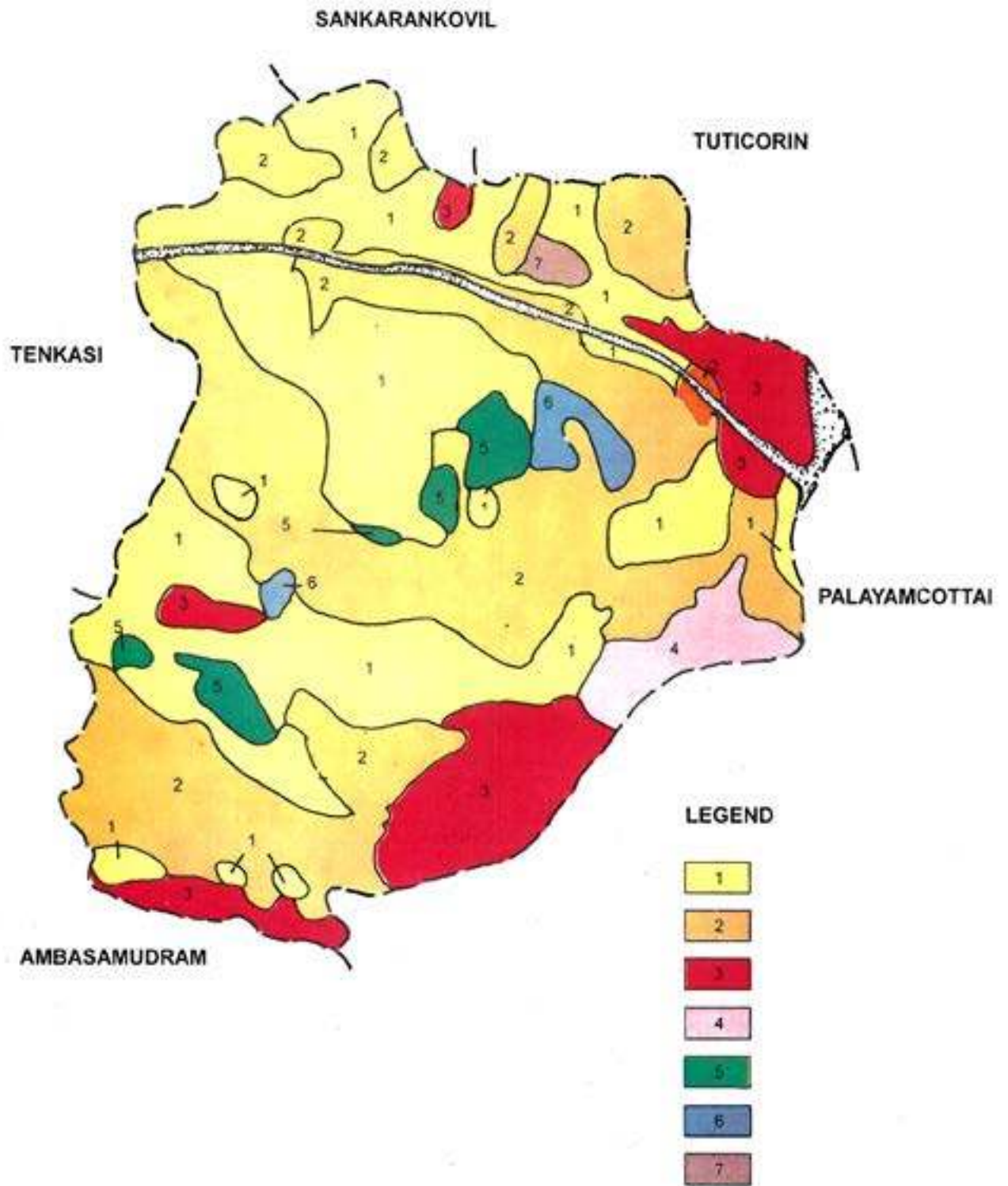


CROPS GROWN

TIRUNELVELI TALUK

Map Symbol	Soil series	Crops grown	
		Rainfed	Irrigated
1	Mayamankurichi, Manur	Millets, Pulses	Paddy, Banana, Chillies, Onion
2	Nanguneri, Idayankulam, Thalaiyuthu, Kallurani	Minor millets, Pulses	—
3	Veeravanallur	Millets, Pulses	Paddy, Banana, Chillies, Sugarcane, Cotton, Pulses
4	Ambasamudram	—	Paddy, Banana, Pulses
5	Tiruvengadam, Sivalaperi	Cotton, Millets, Sunflower, Coriander, Chillies, Pulses	—
6	Kadayanallur	Pulses, Millets	Chillies, Cotton, Groundnut, Vegetables, Coconut, Orchard crops
7	Keelapavoor	Cotton, Chillies, Millets	Chillies, Vegetables

CROPS GROWN TIRUNELVELI TALUK



CONTRIBUTORS

1. **Concept** : **Dr. A. Dhanapalan Mosi**
Addl. Director of Agriculture (Res) (Retd)

S. Lakshminarayanan
Addl. Director of Agriculture (Res) (Retd)

Syed Nazeer Peeran
Addl. Director of Agriculture (Res) Chennai
2. **Source** :
 - i) **Soils Resources of Tirunelveli district**
M. Janakiraman T. Devadoss K. Sivakubramaniam
District Report No. PLC 2/89-90
Published by Soil Survey and Land Use Organisation, Palayamcottai
 - ii) **Village level fertility status**
Assistant Soil Chemist Soil Testing Laboratory Kovilpatti
 - iii) **Micronutrient Status**
Assistant Soil Chemist Soil Testing Laboratory Kovilpatti
3. **Script & Maps
Compilation** : **M. Duraipandian** Agricultural Officer
J. Janakiraman Agricultural Officer
S. Viswanathan Agricultural Officer
4. **Cartography** : **N. Mutharasu** Junior Draughting Officer
A.S. Meena Assistant Draughtsman
5. **Editing** : **M. Athimoolam** Assistant Agricultural Chemist
6. **Approval** : **P.R. Ramachandran** Joint Director of Agriculture (Res)

