



SOIL ATLAS **THIRUVARUR DISTRICT**



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

1998



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வீரய்யாண்டி எஸ். ஆறுமுகம்
வேளாண்மைத் துறை அமைச்சர்



தலைமைச் செயலகம்
சென்னை 600 009

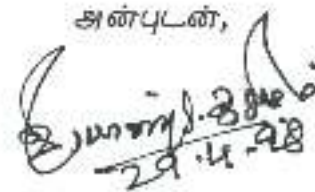
அணிந்துரை

தமிழ்நாடு வேளாண்மைத் துறையில் உள்ள வேதியியல் பிரிவு தமிழக வேளாண் பெருங்குடி மண்ணின் தேவையை அறிந்து மண்வள தொகுப்பேடுஒன்று 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, விவசாய அலுவலர்களுக்கும் மிகவும் பயன் உள்ளதாக இருக்கும் என நம்புகிறேன்.

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

அன்புடன்,


29.4.2023





நா. ஆதிமுலம், தி.ஆ.ப.
அரசு செயலர்

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அணிந்துரை

மண்வளமும் மனித வளமும் ஒரு நாட்டிற்கு இன்றியமையாதன ஆகும். இன்னும் சொல்லப்போனால் நிலத்து மண் ஆனது மனிதச்சரிதையின் பிரதிபலிப்பு ஆகும். ஏனெனில் அதுவே மனித நாகரீகத்தின் மாட்சியையும் வீழ்ச்சியையும் எடுத்துரைப்பதாக இருந்து வந்துள்ளது. இதற்குச் சரித்திரச் சான்றுகளும் பல உண்டு. இப்படித்தான் பெருமை படைத்த மண்வளம் பற்றிய விவரங்களை நெறிப்படுத்தி அண்டியோர்க்குப் பயன் அளிக்கும் வகையில் அறையச் செய்வது காலத்தின் 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 16 மாவட்டங்களுக்கும் தனித்தனியே மண்வளத் தொகுப்புகள் தயாரிக்கப்பட்டன. ஆயினும் அவை வரைவு நகல்களாகவே இருந்து வந்துள்ளன. அதனால் அதன் பயனை நுகர மிகச் சிலருக்கே வாய்ப்பு கிட்டியது.

இத்தொகுப்பேட்டில் விரலிக்கீட்களும் விவரங்கள் சரிய திட்டமிடலுக்கு அடித்தளமாக அமைகின்றன. ஓரிடத்தில் நிலவும் தட்பவெப்ப நிலை, பாசன வளம், பயிர் சாகுபடி விவரங்கள், மண் வகைகள் அவற்றின் விளைதிறன், ஏற்புறைய பயிர்கள் பற்றிய விளக்கங்கள் இடம்பெற்றுள்ளன. ஆக இவற்றின் அடிப்படையில் அமுல்படுத்தப்படும் உற்பத்திப் பெருக்குத் திட்டங்கள் அபரிமித வெற்றி அளிப்பதில் ஆச்சரியமில்லை. உதாரணமாக அண்மையில் மணிகண்டம் ஒன்றியத்தில் நிறைவேற்றப்பட்ட வேளாண் வரலியியல் வளிமண்டலத் திட்டத்தினைச் சொல்வலாம். இத்திட்டத்தின் முதன்மைச் செயல் அம்சமாக இப்பகுதி நிலங்கள் நெறிப்படுத்தப்பட்டன. இத்தகைய அணுகுமுறையினால் களர்த்தன்மை உறைய இப்பகுதி நிலங்களில் சீர்த்திருத்தம் மேற்கொண்டபின் மகதவரனது எக்டேருக்கு 400 கிலோ முதல் 700 கிலோ வரை உயர்ந்துள்ளது என்பது பெருமைக்குரியதாகும்.

மீக்க பயன் அளிக்கவல்ல இத்தொகுப்பேட்டு விவரங்களை உற்பத்தி முனைவோர் அனைவரும் பெற்றிட இதனை அச்சிடும் பணிக்கு ரூ. 10.5 இலட்சம் அனுமதித்து தமிழ்நாடு அரசு ஆணையிட்டுள்ளது. அதன் தொடர் நிகழ்வாகவே ஏட்டளவில் இருந்த இத்தொகுப்புகள் வண்ணமிரு வடிவடனும், விவரப்பொலிவுடனும் அச்சேறி தற்போது நற்பயன் அளிக்கத் தலை பெற்றுள்ளன. வேளாண்மை இயக்குநராக அன்று நான் துவக்கிய பணி, செயலராகப் பொறுப்பேற்றுள்ள இந்நாளில் மலர்ந்து மீளிரவது குறித்து மட்டற்ற மகிழ்ச்சி அடைகிறேன். அத்துடன் இத்தொகுப்பேட்டுவிவரங்கள் துண் திட்டமிடல், ஏறுமுகத் திட்டம் போன்றவற்றிற்கும் ஆதாரமாய் அமைகின்றன. புதிய சாதனைகளைத் தொடுவோரை வள்ளுவர்,

வாரிப்பெருக்கி வளம்கட்டு உற்றவை
ஆராய் வான் எனப் பெருமைப்படுத்துவார்.

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

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

(ஓ.யி) நா. ஆதிமுலம்
அரசு செயலர்
வேளாண்மைத்துறை

டாக்டர். க. அருள்மொழி, இ.ஆ.ப.
வேளாண்மை இயக்குநர்



சேப்பாக்கம்
சென்னை 600 005

அணிந்துரை

நில மடத்தை நமக்கு அளித்துள்ள இயற்கை வளங்களில் மிக முதன்மையானது 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 கருவகி வரும் சாகுபடிப் பரப்பு ஆகியவை இவற்றுள் அடங்கும். இந்த வகையில் பல மண்வகையீடு முயற்சிகள் தேசிய அளவிலும், மாநில அளவிலும் எடுக்கப்பட்டுவந்துள்ளன. அந்நாட்களில் சென்னை இராஜதானியில் நடத்தப்பட்ட மண்வகையீடுமுயற்சி இதன் துவக்கம் எனலாம். இதுவும் பின்னர் நடத்தப்பட்ட திட்டங்களும், குறிப்பிட்ட நோக்கத்திற்காகவே அமல் செய்யப்பட்டன. இதன் உச்சக்கட்டமாக 1960 ம் ஆண்டில் தரமான மண்வகையீடுத் திட்டம் ஒன்று மண்வகைகளின் தன்மைகளை விரிவாகவும் விளக்கமாகவும் கூர்ந்தாய்வு செய்திட அறிமுகம் செய்யப்பட்டது.

தமிழ்நாட்டு மண்வள ஆதாரங்களை விளக்கும் வரைபடங்கள் தயாரிக்கும் பணியில் வேளாண் துறையின் வகையீடு அலகுகள் பணிக்கப்பட்டன. இவைகள் நடத்திய துவக்க மண்வகையீடு மூலம் பெறப்பட்ட மண்வள ஆதார விவரங்கள் மாவட்ட வாரியாகத் தொகுக்கப்பட்டன. இவை மாவட்ட வளர்ச்சிக்கான திட்டமிடலுக்கு உதவுகரமாக அமைந்துள்ளன. எனினும் வெறும் வரைவு ஏடுகளாகவே இருந்து வந்த இத்தொகுப்பேடுகளை அனைவரும் பெற்றிடும் வகையில் அச்சுப் பதித்து வெளியிட தமிழ்நாடு அரசு 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, தட்பவெப்பக்குழல், பயிர் வகைகள் விளைதிறன் ஆகிய விவரங்களின் அடிப்படையில் கிராம அளவிலான நுண் திட்டமிடல், ஏறுமுக வளர்ச்சித்திட்டம், பத்துறை பங்கேற்புத் திட்டம் போன்ற முயற்சிகள் அமல் செய்யப்படுவதற்கான திட்டங்களை அடையாளம் காண இத்தொகுப்பேடு பெரிதும் உதவும்.

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

(ஒ.ம.) க. அருள்மொழி
வேளாண்மை இயக்குநர்

THIRUVARUR

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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 forms the basic tool for agricultural development programmes and provides information on characteristics and location of the different kinds of soils and their management potentials as well as their 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

THIRUVARUR DISTRICT

Thiruvavarur district is bounded on the north by Thanjavur and Nagapattinam districts, south by Palk Strait, east by Nagapattinam district and west by Thanjavur district.

Geocode :

North latitude : $10^{\circ} 20'$ to $11^{\circ} 02'$

East longitude : $79^{\circ} 18'$ to $79^{\circ} 50'$

Agro ecological region :

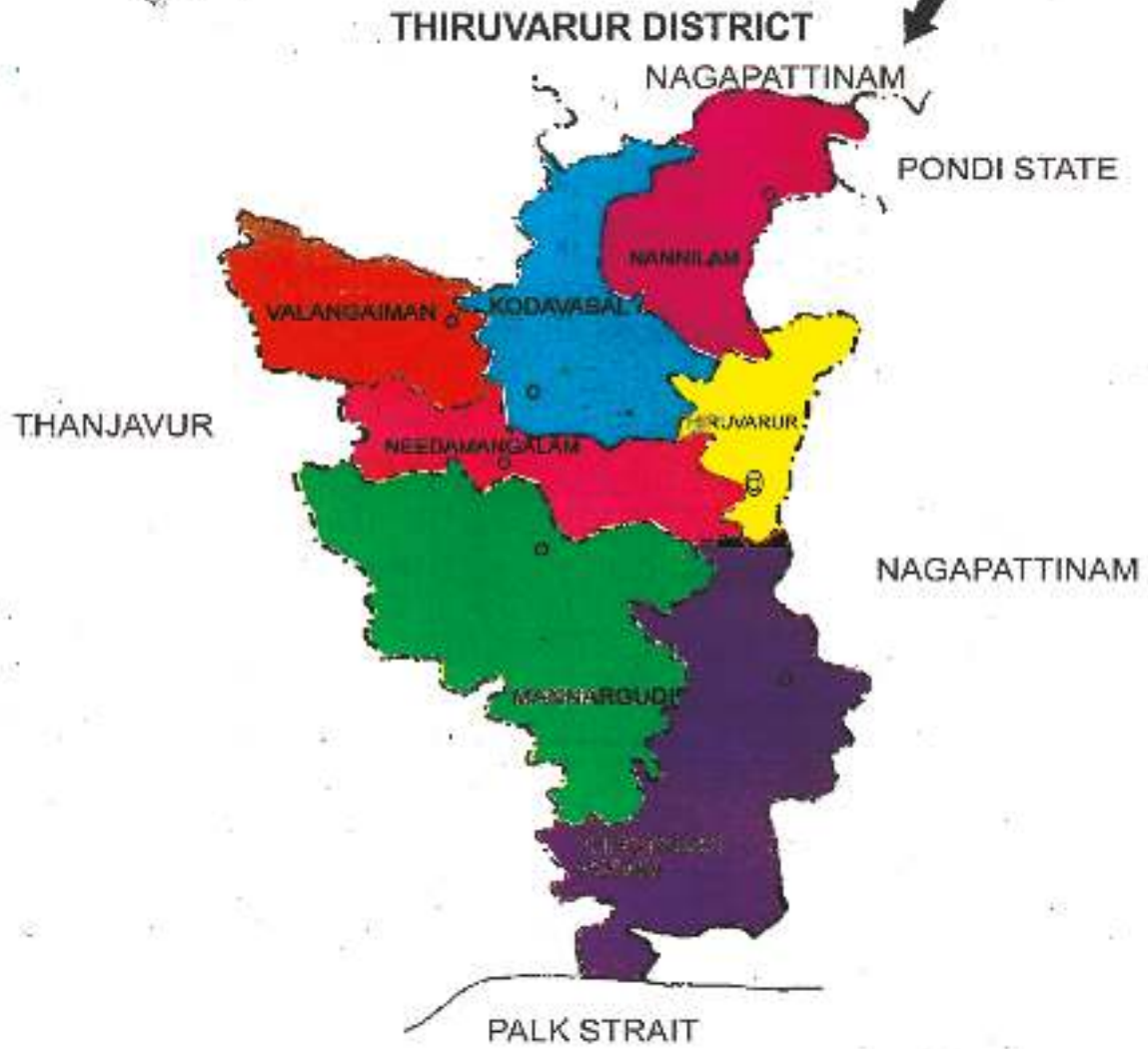
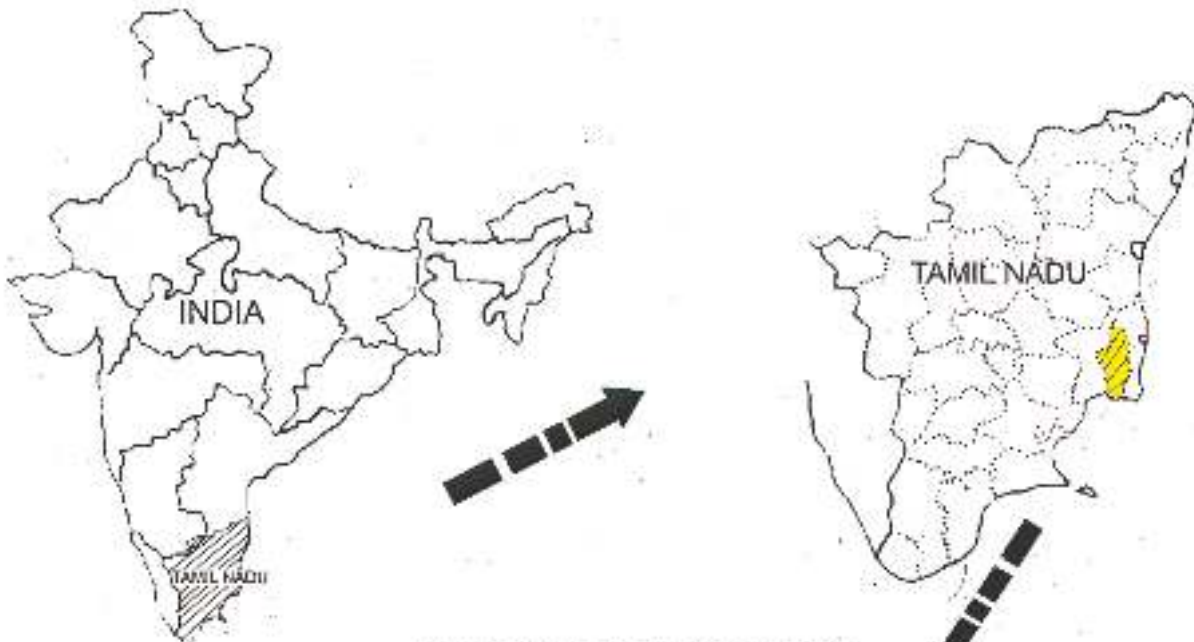
Region 18 Coastal eco-system - Eastern coastal plain, hot subhumid and semi-arid eco-region with a crop growing period of 90 to 210⁺ days.

Region 8 Semi-arid eco-system - eastern ghats Tamilnadu upland, hot semi-arid eco region with a crop growing period of 90 to 150 days.

Agroclimatic zone : Sub zone - IV - Cauvery delta zone.

LOCATION MAP

THIRUVARUR DISTRICT



TALUKS AND PANCHAYAT UNIONS

THIRUVARUR DISTRICT

Sl. No.	Taluks	Panchayat unions
1.	Thiruvapur	Thiruvapur
2.	Mannargudi	Mannargudi & Kottur
3.	Needamangalam	Needamangalam
4.	Thiruthuraipoonai	Thiruthuraipoonai & Muthupettai
5.	Nannilam	Nannilam
6.	Kodavasal	Kodavasal & Koradacheri
7.	Valangaiman	Valangaiman

TALUKS & UNIONS

THIRUVARUR DISTRICT



REFERENCE

- STATE BOUNDARY -----
- DISTRICT BOUNDARY - - - - -
- TALUK BOUNDARY - - - - -
- UNION BOUNDARY
- COASTAL BOUNDARY _____
- DISTRICT HEAD QUARTER ■

ROADS AND RAILWAYS

THIRUVARUR DISTRICT

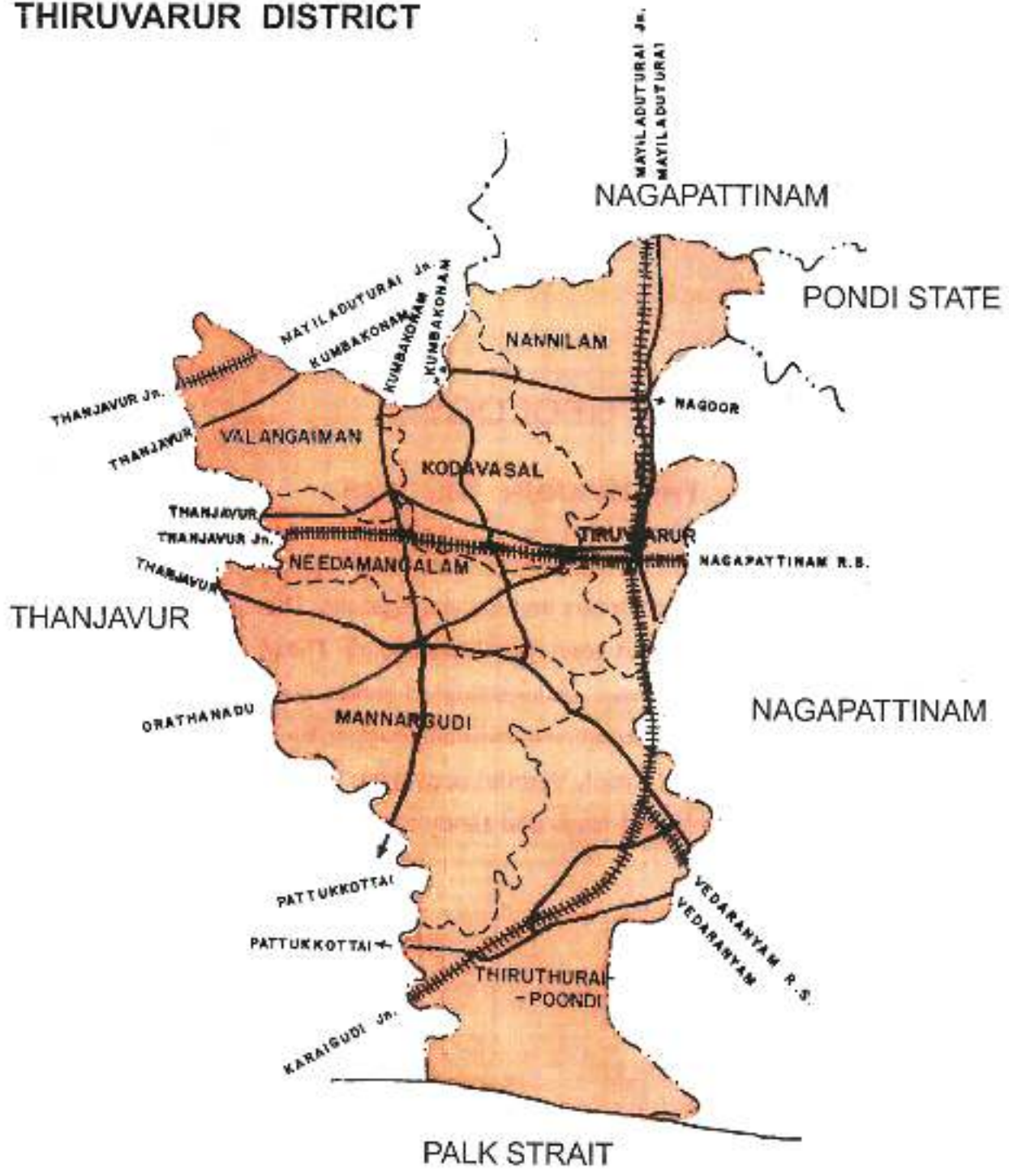
Thiruvavarur district is well connected with a net work of roads and railways. The total length of the road in the district is 1,039 km with concrete, black topped, metalled and non-metalled roads. The important roads are as follows :

1. The State highways road connecting Tiruchirapalli and Nagapattinam is passing through the district head quarters, Thiruvavarur.
2. The major district roads connect Thiruvavarur with all taluk head quarters.

The district is served by metre gauge railways (Southern Railways) to a total length of 149km with 25 railway stations. The railway junctions are Thiruvavarur, Peralam, Thiruthuraiipoondi and Needamangalam.

ROADS & RAILWAYS

THIRUVARUR DISTRICT



||||| METRE GAUGE
— ROADS

GEOLOGY

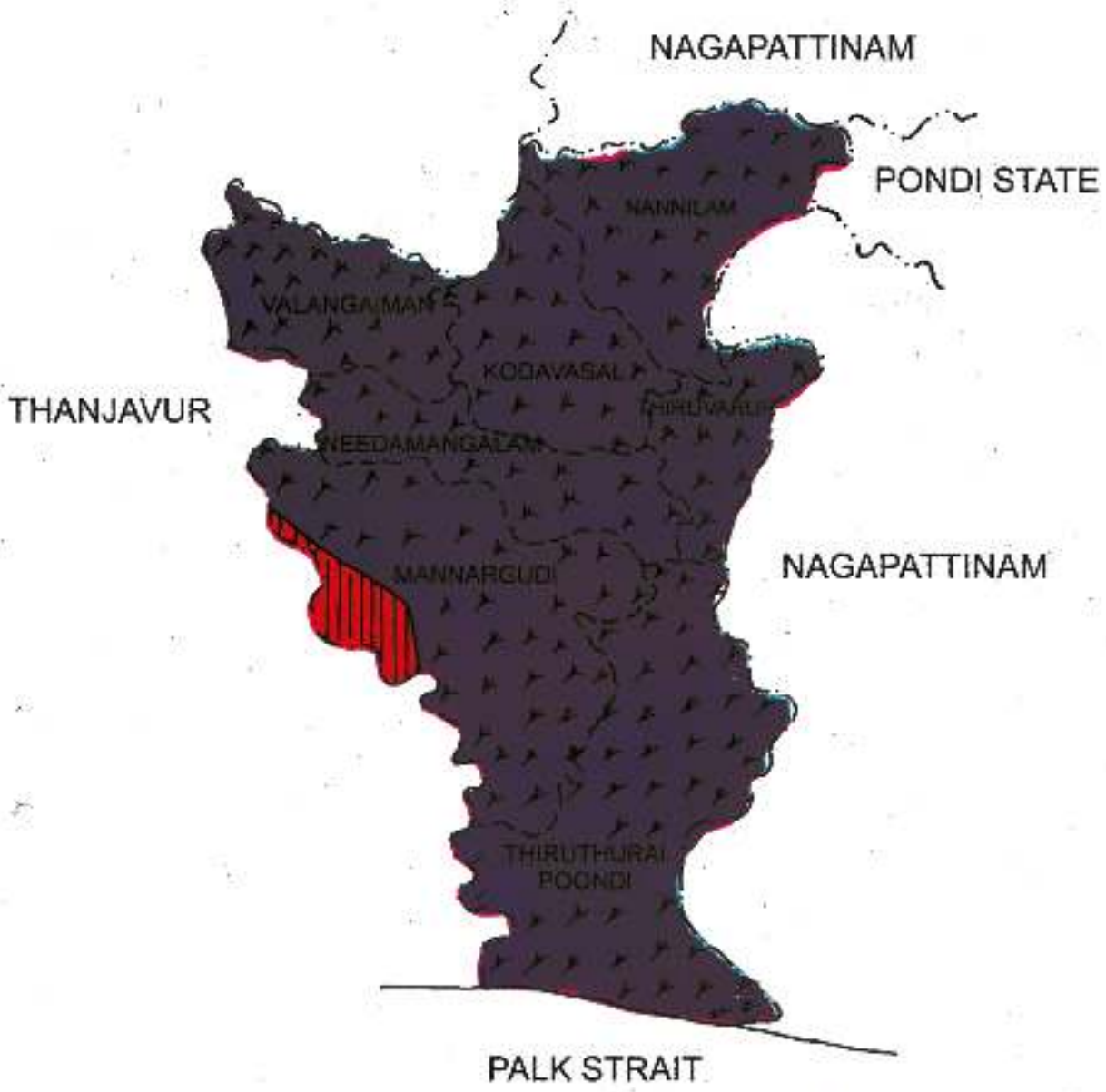
THIRUVARUR DISTRICT

Thiruvavarur district is made up of Tertiary and Alluvial deposits. The Cuddalore sand stones of Tertiary age are well developed as best seen near Mannargudi. These sand stones are covered by a thin layer of wind blown sandy clays, unconsolidated sands, clay bound sands and mottled clays with lignite seams. This Tertiary formation is invariably capped by laterite. The Alluvial deposits of the river Cauvery and its tributaries (mainly Vennar) lie over the Tertiary sand stone. They consists of medium to firm sands, gravelly sands, clays and sandy clays. The thickness of these formations range from 30m to 400m.





GEOLOGY

THIRUVARUR DISTRICT



GEOLOGY

-  ALLUVIUM
-  CUDDALORE SAND STONE

PHYSIOGRAPHY

THIRUVARUR DISTRICT

This district is essentially a deltaic terrain and the elevation is between 15 and 35 metres. It is sloping towards the east. The fall is about 15 metres over a distance of 30km.

Using the available thematic maps dealing with geology, physiography and geomorphology and study of literature, agro climatic region first level physiography division namely P - Coastal plain was established for this district.

The second and third level subdivisions are accomplished considering regional physiography that expresses the integrated effect of geology, terrain and environmental conditions.

- P** Coastal plain.
- Pe** East Coast plain.
- Pec** Tamilnadu east coastal plain.

Further subdivisions made on the basis of differences in local conditions such as landscape elements together with image characteristics pertaining to tone, texture, colour etc.,

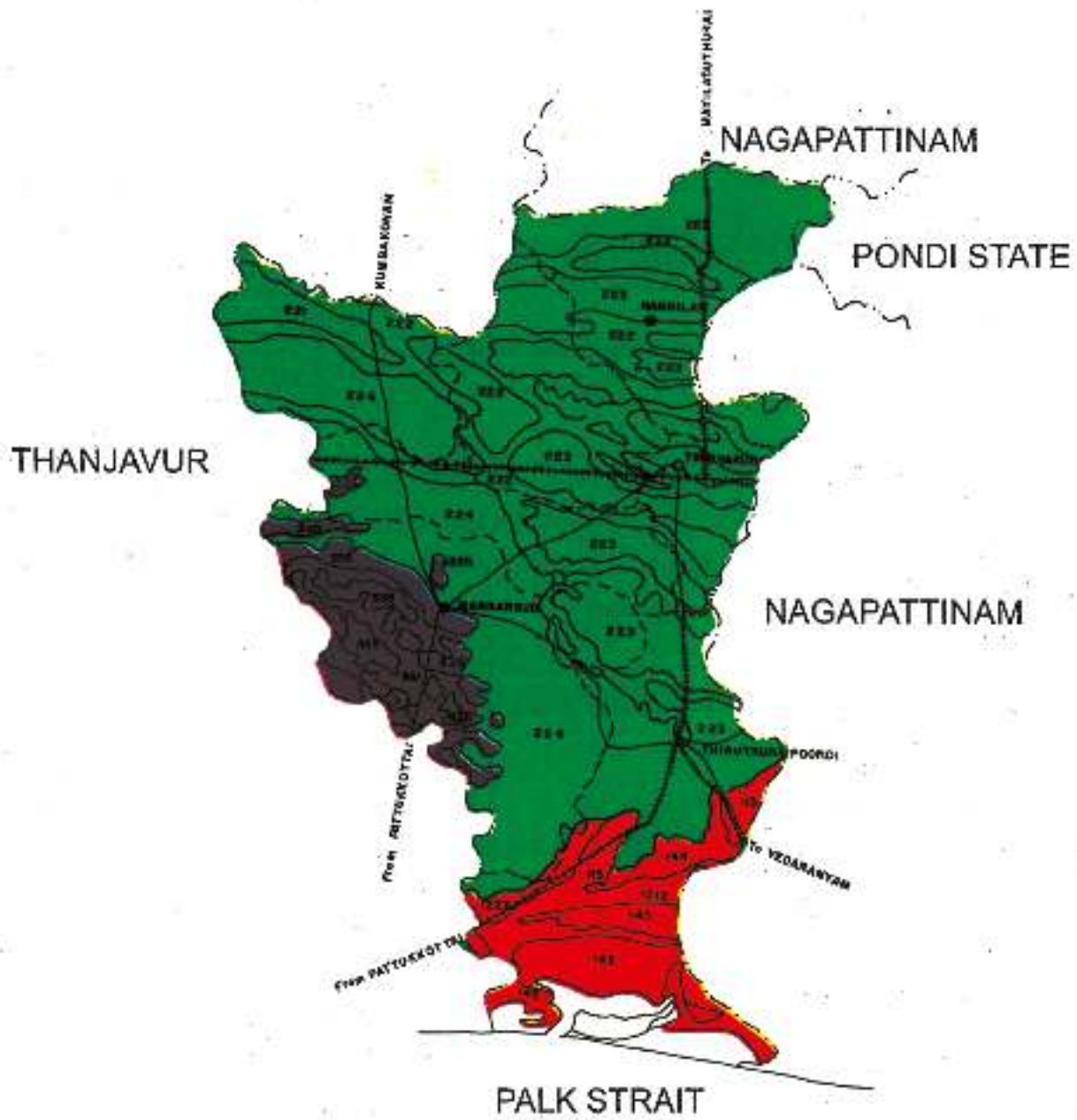
- Pec. 1** Marine land form.
 - 1 1 3 Flat lands.
 - 1 2 2 8 Sandy plain.
 - 1 2 1 2 Sand dunes / sandy ridges.
 - 1 4 5 Swampy and marshy.

- Pec. 2** Riverine land form.
 - 2 2 2 & 2 2 3 Deltaic plain.

- Pec. 3** Laterite land form.
 - 3 3 5 - Gently sloping
 - 3 6 1 - Valley / low land.

PHYSIOGRAPHY

THIRUVARUR DISTRICT



LEGEND

- Pec Tamilnadu East Coast Plain
- Pec-1 Marine land form (113, 145, 1212 & 1227)
- Pec-2 Riverine land form (221, 222, 223 & 224)
- Pec-3 Laterite land form (335 & 361)

RIVER BASINS - WATERSHEDS

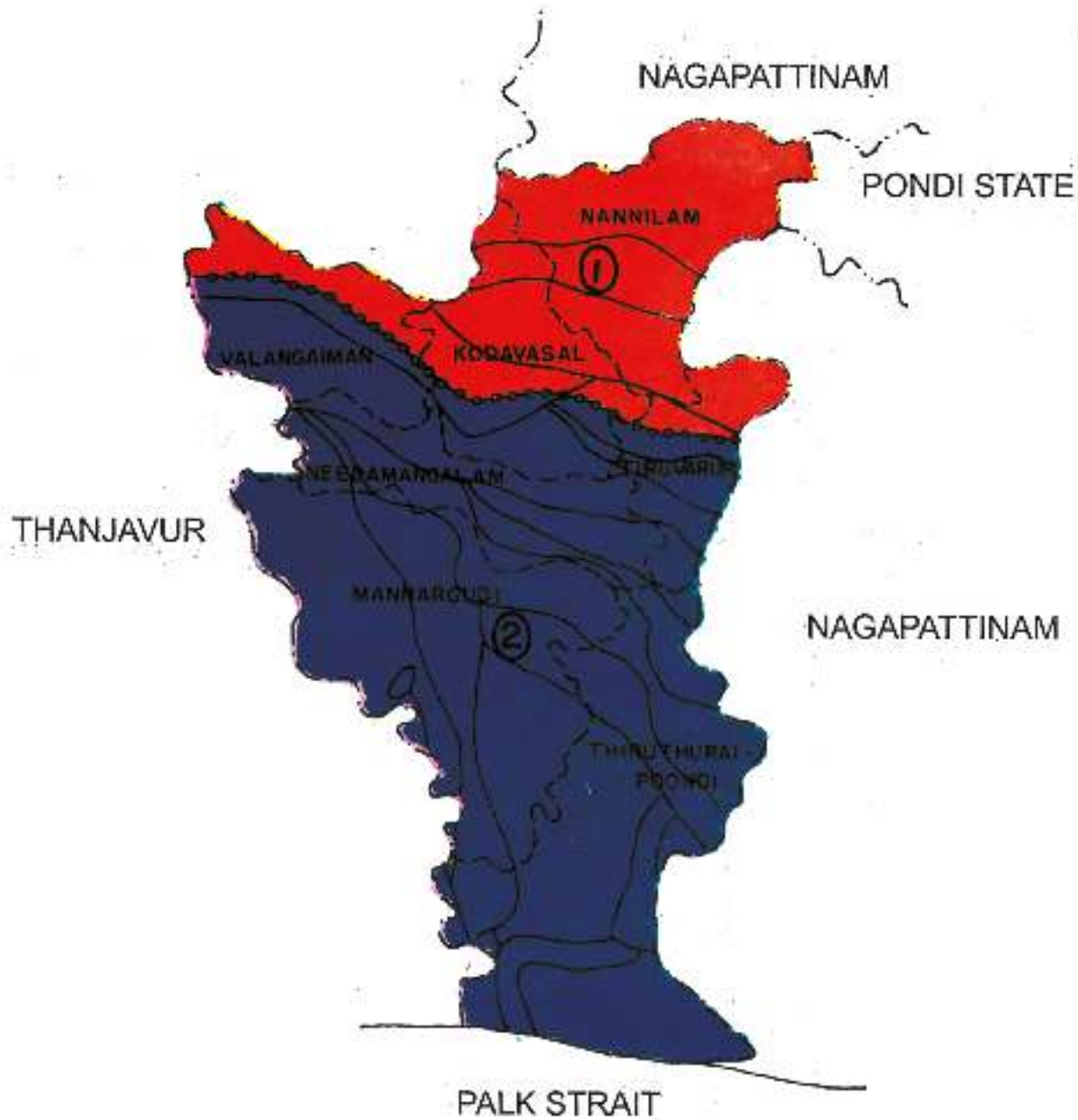
THIRUVARUR DISTRICT

Three important tributaries of river Cauvery are flowing through Thiruvarur district which substantially benefit the agricultural activity. The Cauvery and Vennar areas are called as Old Delta, whereas the Grand Anaicut Canal area is called as the New Delta. The taluks benefitted by the three important rivers of this district are as follows :

River basins	Taluks
1. Cauvery	Nannilam, parts of Valangaiman, Kodavasal and Thiruvarur.
2. Vennar	Thiruthuraipoondi, Needamangalam and parts of Thiruvarur, Kodavasal, Valangaiman and Mannargudi
3. Grand Anaicut canal	Very small extent of Mannargudi and Valangaiman

RIVER BASIN & WATER SHED

THIRUVARUR DISTRICT



-  Basin Boundary
-  River
-  Cauvery Basin
-  Vennar Basin

RAINFALL - DISTRIBUTION

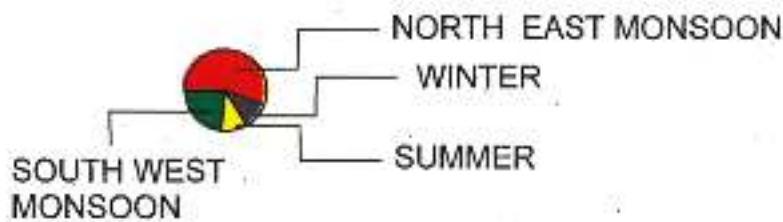
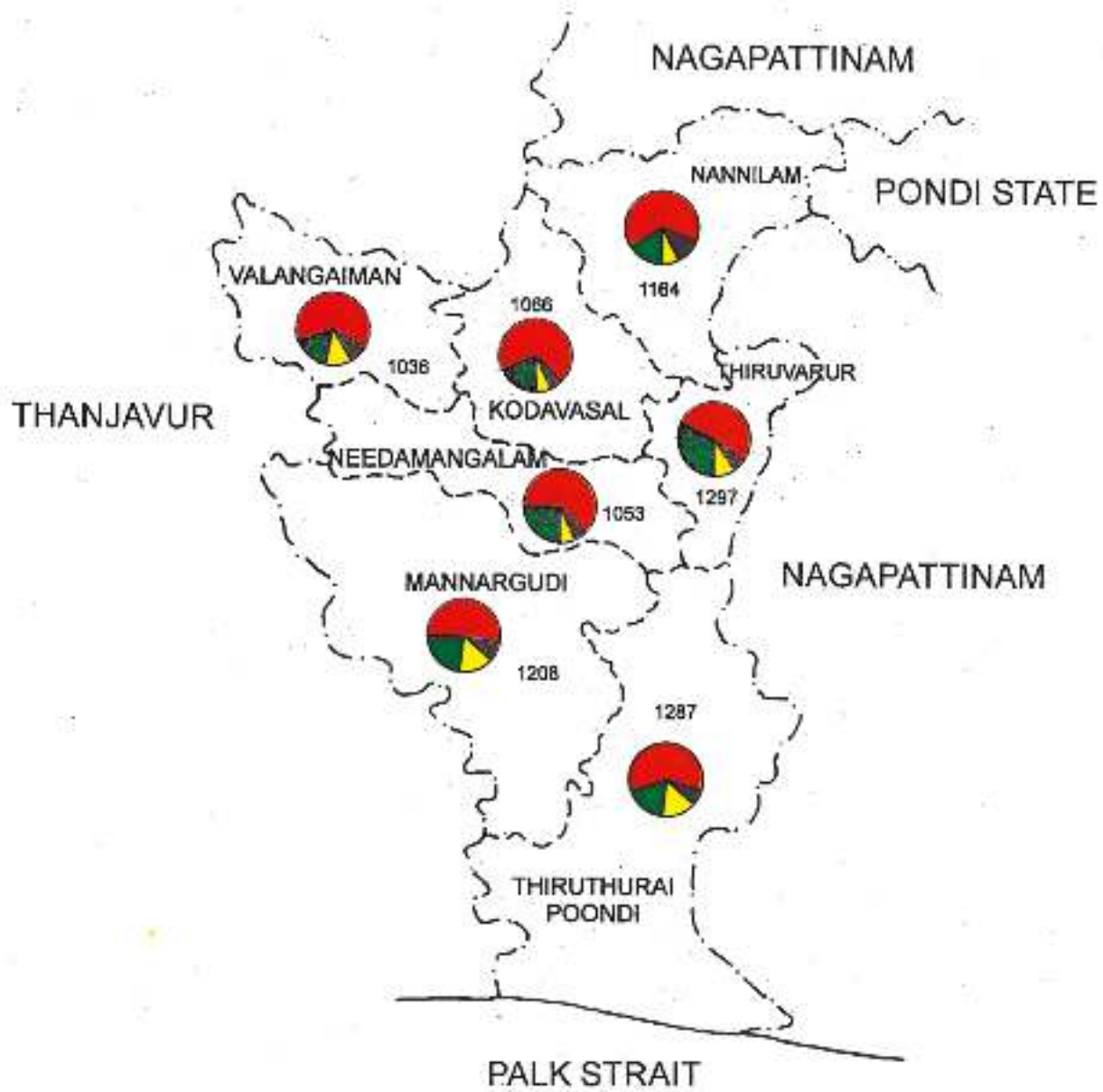
THIRUVARUR DISTRICT

The distribution pattern of rainfall in the different taluks of Thiruvapur district over a period of 70 years (1927-1996) is furnished in the table.

Sl. No.	Taluks	Mean annual rainfall (mm)	Seasonal rainfall							
			S.W. Monsoon		N.E. Monsoon		Winter		Summer	
			mm	%	mm	%	mm	%	mm	%
1.	Thiruvapur	1,297	467	36	695	54	36	3	99	7
2.	Nannilam	1,164	224	21	854	74	28	2	38	3
3.	Kodavasal	1,066	212	20	769	72	30	3	55	5
4.	Thiruthuraiipoondi	1,287	303	23	899	70	21	2	64	5
5.	Mannargudi	1,208	303	25	789	65	21	2	95	8
6.	Needamangalam	1,053	250	24	737	70	18	2	48	4
7.	Valangaiman	1,036	214	20	595	58	23	2	204	20

RAINFALL

THIRUVARUR DISTRICT



1208mm MEAN ANNUAL RAINFALL

TEMPERATURE

THIRUVARUR DISTRICT

The atmospheric temperature data recorded over a period of 70 years (1927-1996) was computed. The mean maximum and the mean minimum temperatures were arrived at and presented in the form of a graph. From the graph, it is seen that the hot months are April, May and June with the maximum temperature ranging from 35 to 36°C and the cool months being November, December and January with the minimum temperature ranging from 23 to 24°C. The atmospheric temperature was used for the calculation of the soil temperature by deducting 5°C. The soil temperature will give an idea about the soil moisture.

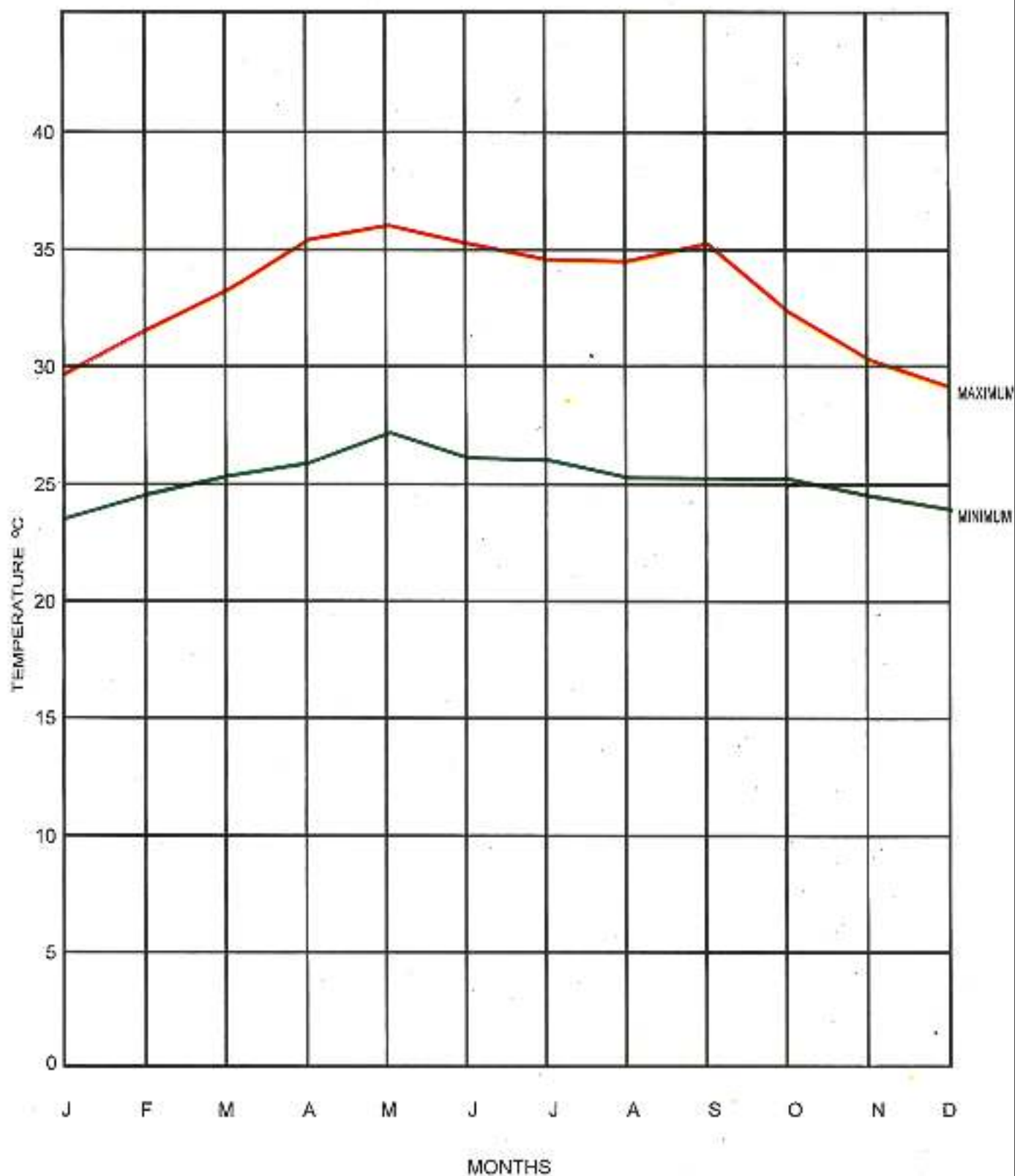
Soil Moisture regime : USTIC.

USTIC Moisture regime : The Ustic (L. Ustus - burnt, implying dryness) moisture regime is one that is limited but is present at a time when conditions are suitable for plant growth. The soil is dry in some or all parts for 90 or more cumulative days per year. But, the moisture control section is moist in some part either for more than 180 cumulative days per year or for 90 or more consecutive days. In tropical and subtropical regions, the moisture regime is USTIC if there is atleast one rainy season of three months or more.

Sl. No.	Months	Temperature (°C)		
		Maximum	Minimum	Mean
1.	January	29	23	26.0
2.	February	31	24	27.5
3.	March	33	25	29.0
4.	April	35	26	30.5
5.	May	36	26	31.5
6.	June	35	25	30.5
7.	July	34	26	30.0
8.	August	34	25	29.5
9.	September	34	25	29.5
10.	October	32	25	28.5
11.	November	30	24	27
12.	December	29	23	26

TEMPERATURE

THIRUVARUR DISTRICT



OMBROTHERMIC DATA

THIRUVARUR DISTRICT

The mean monthly rainfall and temperature of Thiruvapur district for a period of 70 years (1927-96) are furnished in the form of an Ombrothermic diagram.

Sl. No.	Month	Mean Rainfall (mm.)	Mean Temperature (°C)
1.	January	55	26
2.	February	16	28
3.	March	19	29
4.	April	38	31
5.	May	53	32
6.	June	35	31
7.	July	56	30
8.	August	113	30
9.	September	101	30
10.	October	200	29
11.	November	284	27
12.	December	170	26

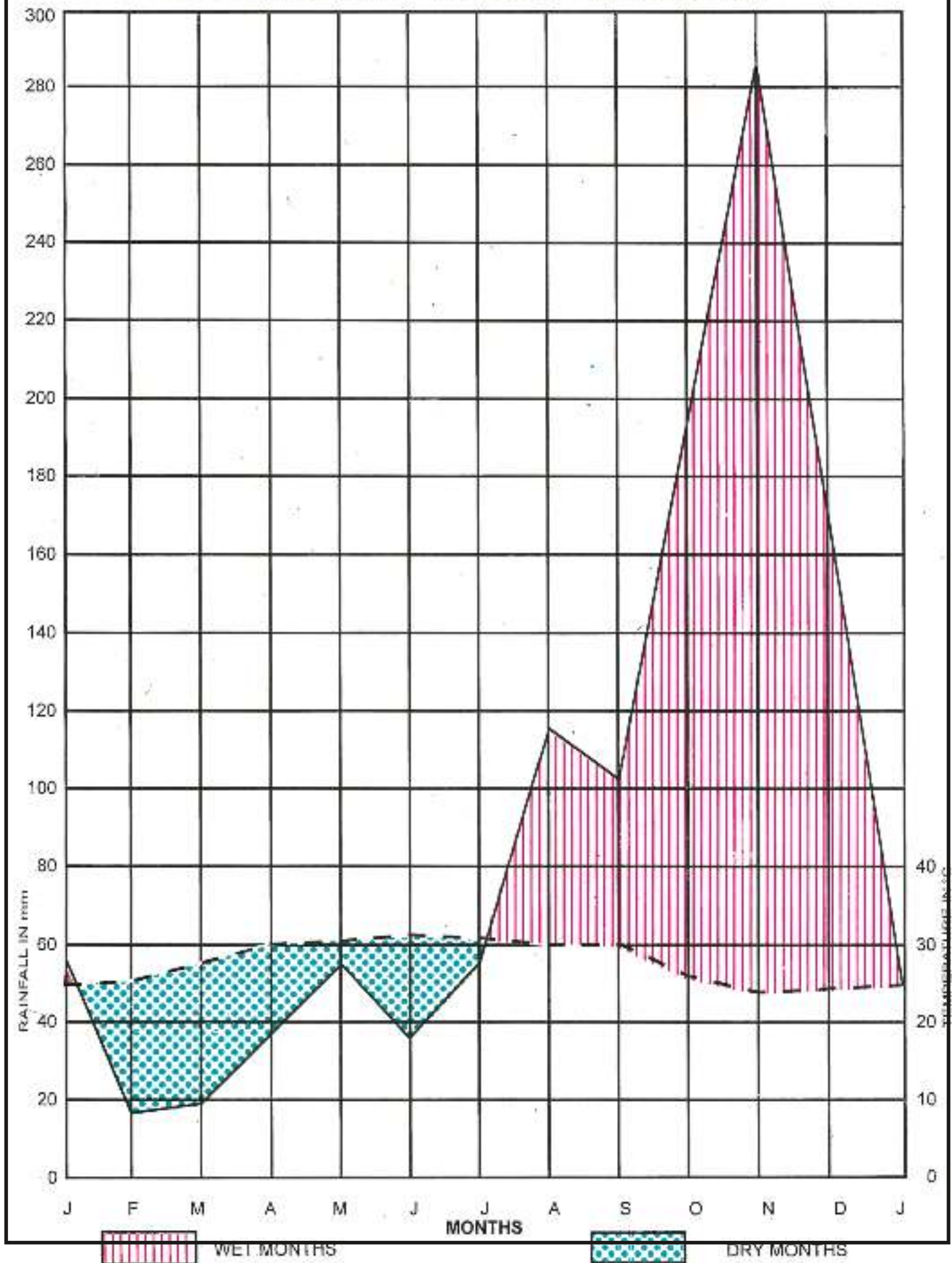
Season	(mm)
Winter (January & February)	71
Summer (March to May)	86
South West Monsoon (June to September)	305
North East Monsoon (October to December)	654
Total	1,140

TEMPERATURE REGIME

Mean annual temperature is above 22°C and the difference between the mean summer (April, May, June) and the mean winter (November, December, January) temperature is less than 5°C thus falling under "ISOHYPERThERMiC" soil temperature regime.

The Ombrothermic diagram reveals the wet and dry periods. Agricultural activities can be programmed accordingly.

OMBROTHERMIC DIAGRAM



TALUK WISE LAND USE PATTERN

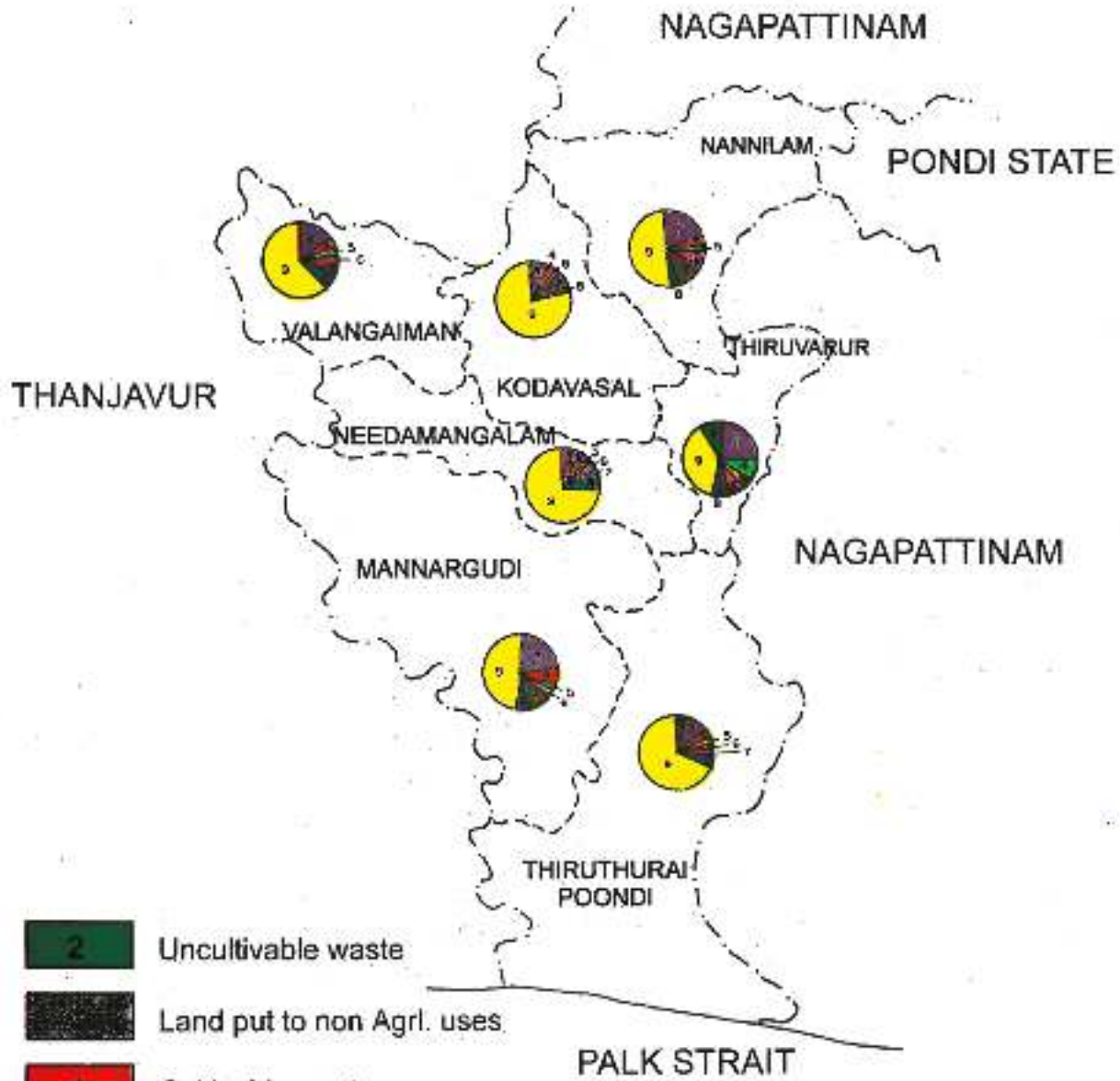
THIRUVARUR DISTRICT






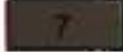


Unit : Hectares

Sl. No.	Particulars	Man nar gudl	Needa man galam	Thiru thurai poondi	Thiru varur	Nan nilam	Koda - vasal	Valan - gaiman	Total Extent (ha)	% to total
	Total geographical area	56,605	22,826	39,750	14,216	24,560	28,231	27,115	2,13,303	100.00
1.	Forest	—	—	—	—	—	—	—	11,200	5.3
2.	Uncultivable waste	—	—	809	102	—	—	—	911	0.4
3.	Land put to non agr. uses	12,832	3,510	4,933	2,791	7,617	2,238	4,193	3,8114	17.9
4.	Cultivable waste	1,753	673	722	651	431	412	617	5,259	.2.5
5.	Permanent pasture	308	122	213	35	115	—	38	831	0.4
6.	Land under trees not included under net area sown	153	351	166	63	535	65	4	1337	17.9
7.	Current fallows	3,444	347	525	303	3,940	2,267	1,113	11,937	5.5
8.	Other fallows	2,464	862	2,614	106	195	209	915	7,365	3.5
9.	Net area sown	35,651	16,961	18,568	10,165	11,727	23,040	20,235	1,38,347	63.9

LAND USE PATTERN

THIRUVARUR DISTRICT



-  2 Uncultivable waste
-  3 Land put to non Agrl. uses
-  4 Cultivable waste
-  5 Permanent pasture
-  6 Land under tree crops
-  7 Current fallows
-  8 Other fallows
-  9 Net area sown

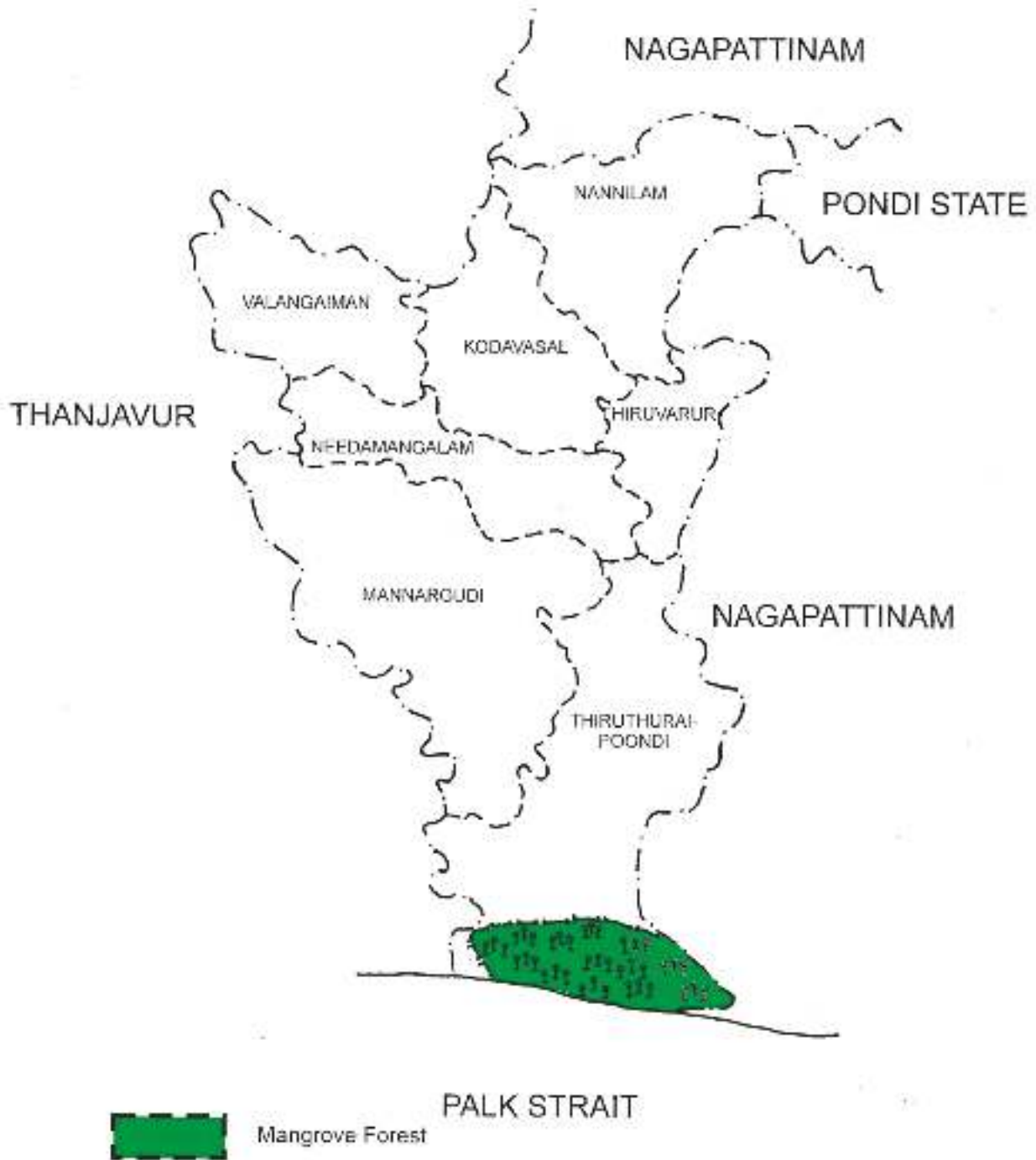
FORESTS

THIRUVARUR DISTRICT

The Thiruvavarur district is poor in forest wealth. The total forest area of the district is about 11,200 ha. which represents 5.2 per cent of the total area. The type of the forest is tropical deciduous (mangrove) and is distributed in Thiruthuraipoondi taluk

FORESTS

THIRUVARUR DISTRICT



CROP AREA

THIRUVARUR DISTRICT

This district is essentially a deltaic plain comprising of old and new delta. The old delta have a net work of canals and channels of the river Cauvery (Nannilam, parts of Valangaiman, Kodavasal and Thiruvarur taluks) and Vennar (Thiruthuraipoondi, Needamangalam and parts of Thiruvarur, Kodavasal, Valangaiman and Mannargudi taluks). A small extent (part of Mannargudi and Valangaiman taluks) of new deltaic area is irrigated by Grand Anaicut canal. Tapping of ground water is done considerably in this area to advance the first cropping season, Kuruvai, to avoid damage due to the north east monsoon and to accomodate the two crops namely Kuruvai and Thaladi.

The soils of the new deltaic area are amenable for wide variety of crops such as Coconut, Mango, Groundnut and Paddy. Summer crops like Pulses, Cotton, Gingelly, Soybean and Groundnut are grown in this area, under irrigated conditions. Cultivation of Oil palm is also gaining momentum in this district wherever assured water supply and drainage facilities are available.

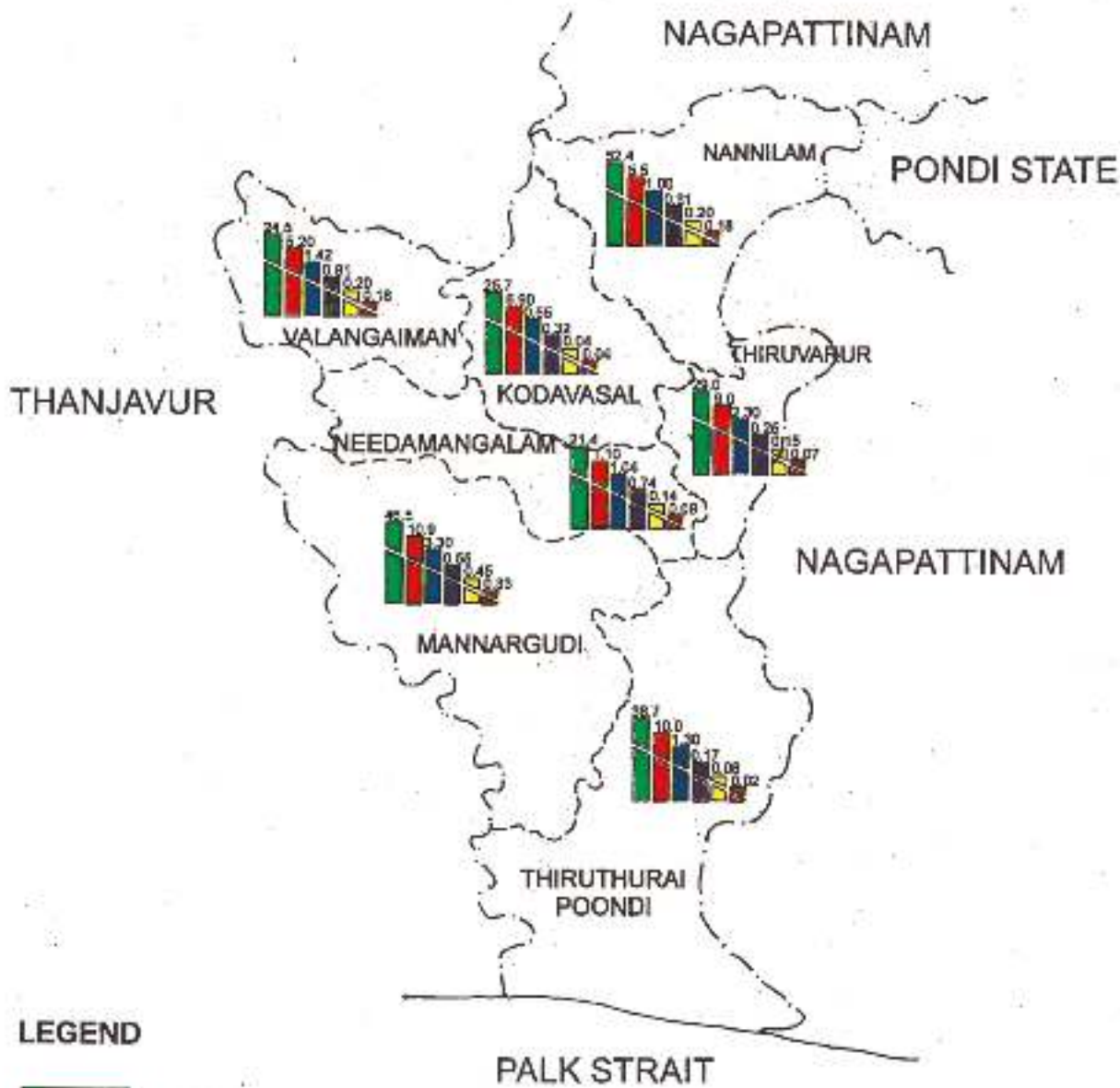
AREA UNDER DIFFERENT CROPS (Thousand hectares)

Sl. No.	Taluks	Paddy	Pulses	Oil seeds	Millets	Sugar cane	Other crops	Total
1.	Kodavasal	25.70	6.90	0.55	0.04	0.32	0.04	33.55
2.	Mannargudi	46.50	10.90	3.30	0.45	0.33	0.65	62.13
3.	Nannilam	52.40	5.50	1.00	0.18	0.20	0.31	59.59
4.	Needamangalam	21.40	1.04	1.10	0.14	0.74	0.09	24.51
5.	Thiruthuraipoondi	38.70	10.00	1.30	0.08	0.02	0.17	50.27
6.	Valangaiman	24.50	5.20	0.81	0.20	0.18	1.42	32.31
7.	Thiruvarur	29.00	9.00	2.30	0.15	0.07	0.25	40.77
	Total	238.20	48.54	10.36	1.24	1.86	2.93	303.13









CROP AREA

THIRUVARUR DISTRICT



LEGEND

-  PADDY
-  PULSES
-  OIL SEEDS
-  MILLETS
-  SUGAR CANE
-  OTHER CROPS

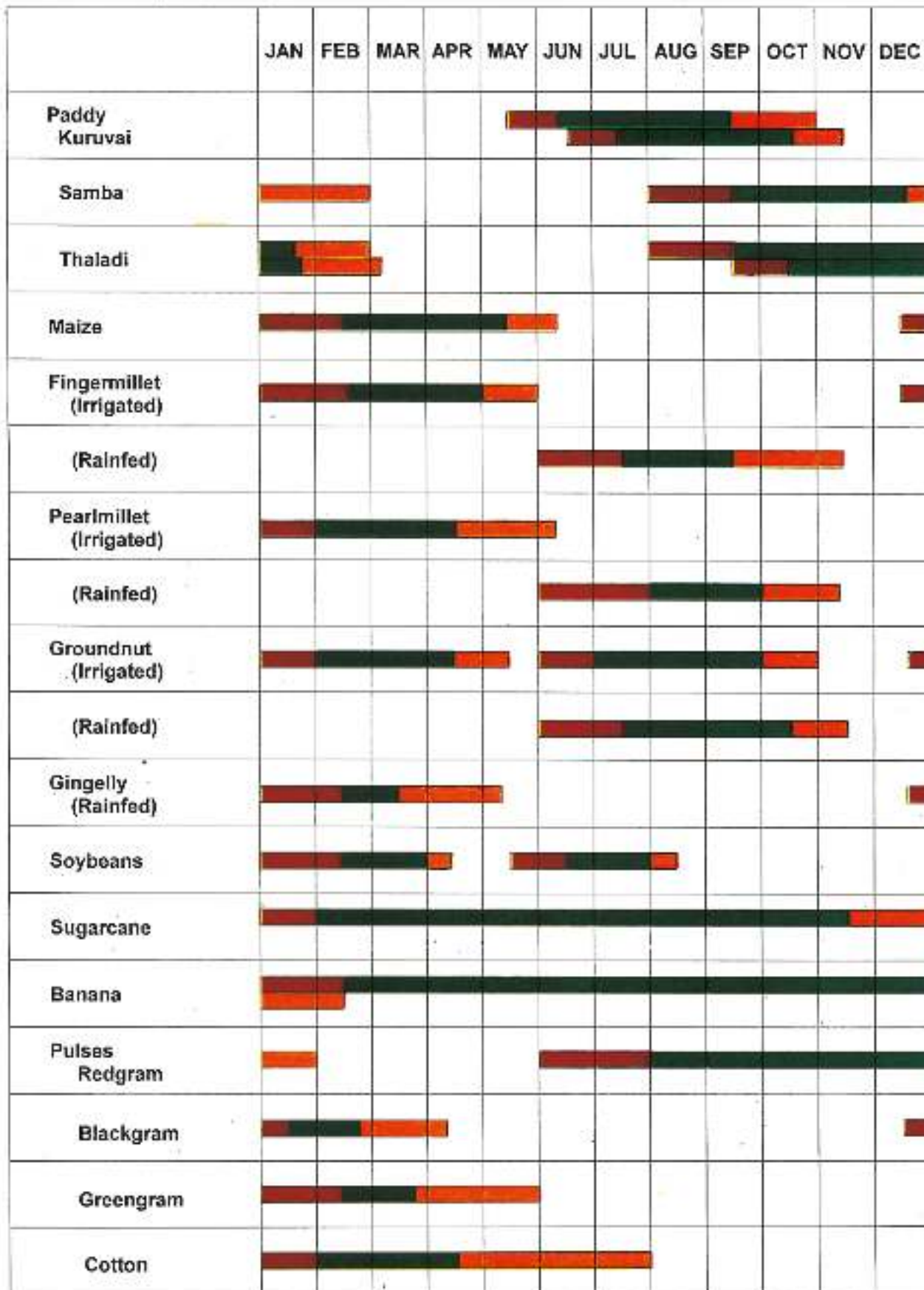
CROPPING CALENDAR


THIRUVARUR DISTRICT

The major crops cultivated in Thiruvannur district are Paddy, Pulses and Sugarcane. Besides this Soybean, Banana, Groundnut and Gingelly are also grown. Paddy is grown in three seasons, viz., kuruvai, samba and thaladi. Pulses like Blackgram and Greengram and other cash crops like cotton and Gingelly are grown in rice fallows. Irrigated paddy is grown wherever water is available. In some areas, semi dry (direct sown) paddy is also cultivated.

CROPPING CALENDAR

THIRUVARUR DISTRICT



 Sowing (Stage)

 Vegetative (Stage)

 Harvest (Stage)

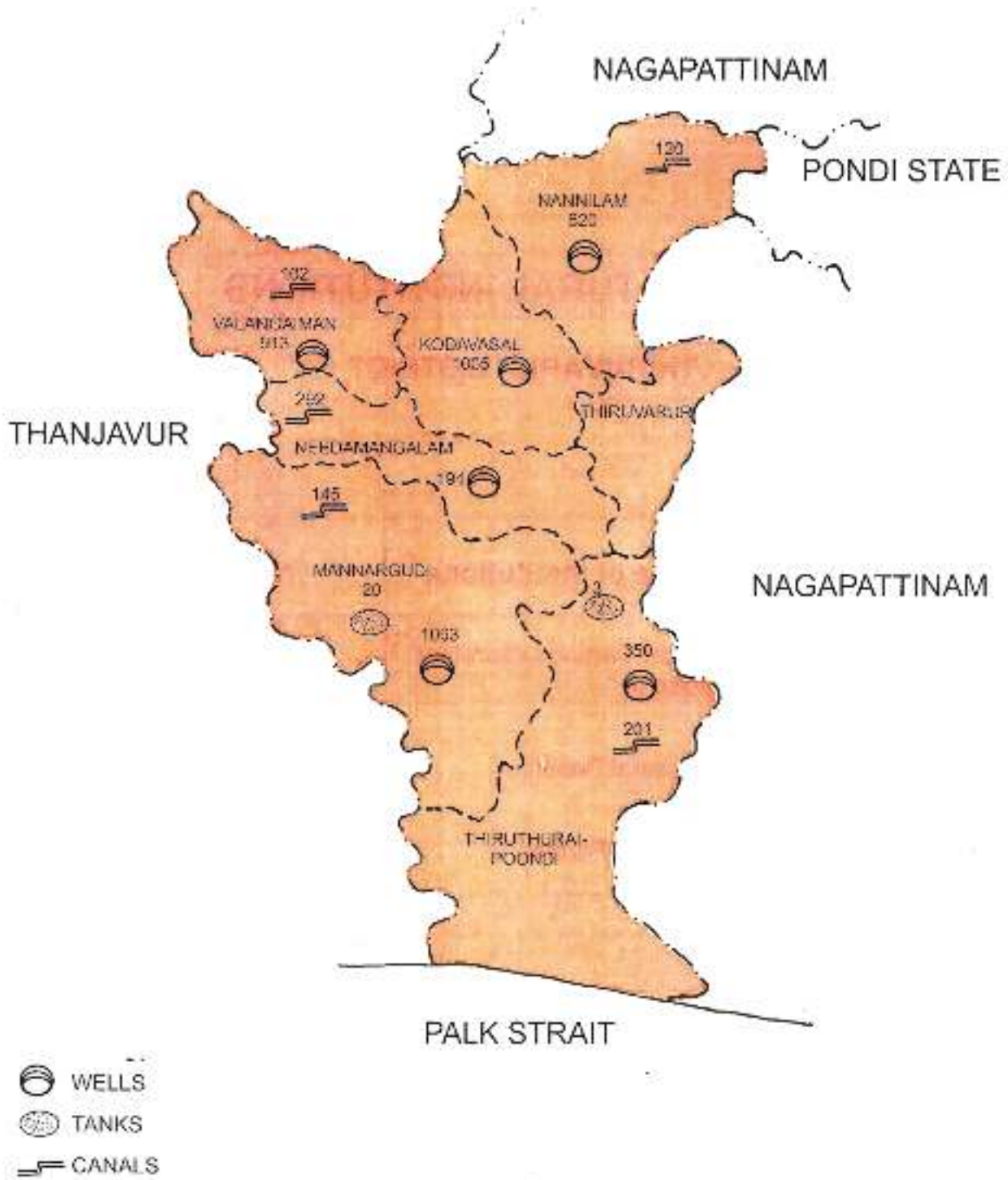
SOURCES OF IRRIGATION

THIRUVARUR DISTRICT

Sl. No.	Taluks	Sources of irrigation		
		Canal length (km)	Wells (Nos.)	Tanks (Nos.)
1.	Thiruvavarur	79	465	—
2.	Nannilam	120	820	—
3.	Kodavasal	102	1,005	—
4.	Valangaiman	102	913	—
5.	Needamangalam	292	194	—
6.	Mannargudi	145	1,063	20
7.	Thiruthuraiipoondi	201	350	3
Total		1,041	4,810	23

SOURCES OF IRRIGATION

THIRUVARUR DISTRICT



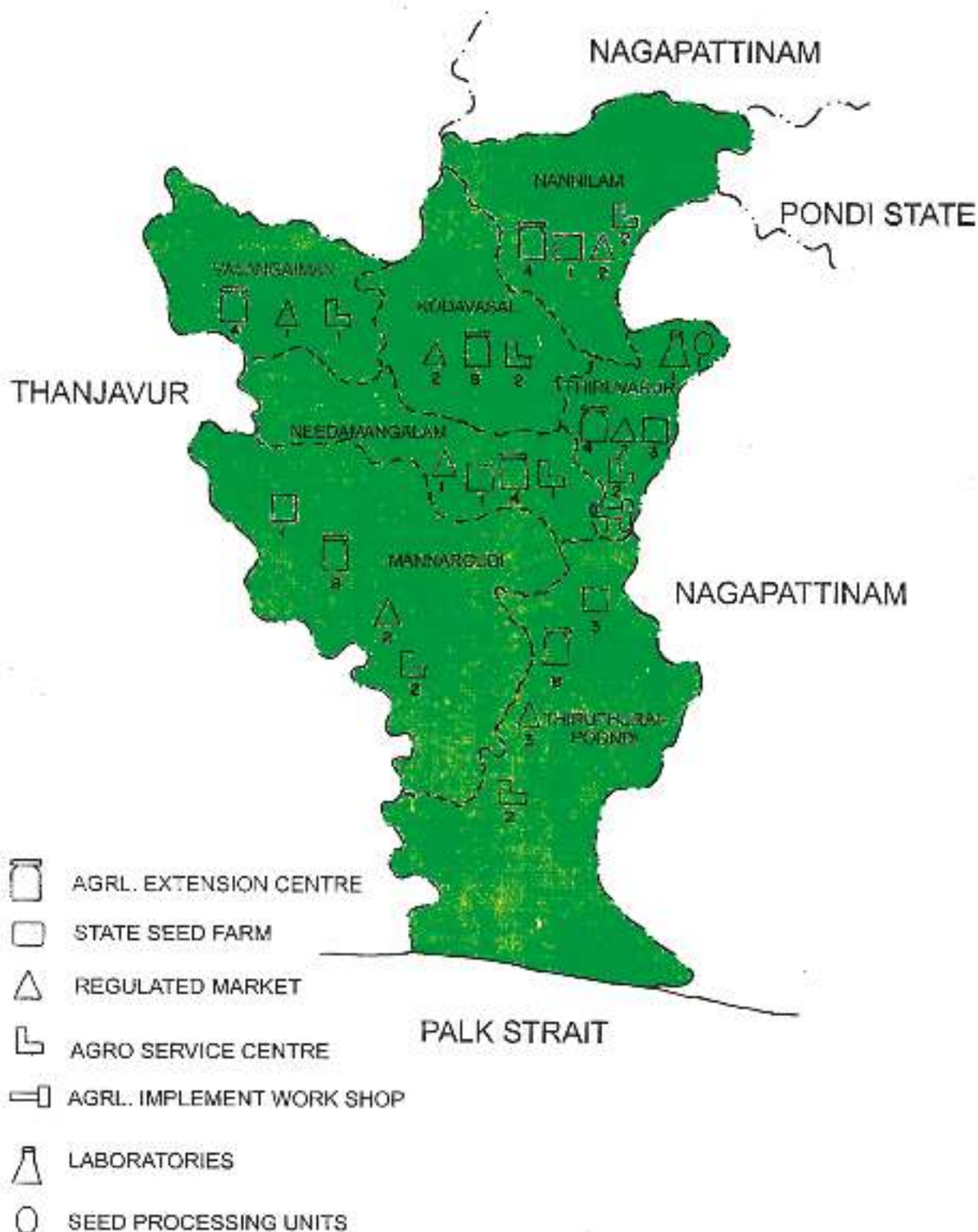
AGRICULTURAL INSTITUTIONS

THIRUVARUR DISTRICT

S.No.	Name of institutions	Nos.
1.	Fertilizer Testing Laboratory , Thiruvapur	1
2.	Agricultural Depots	40
3.	State Seed Farms	9

AGRICULTURAL INSTITUTIONS

THIRUVARUR DISTRICT



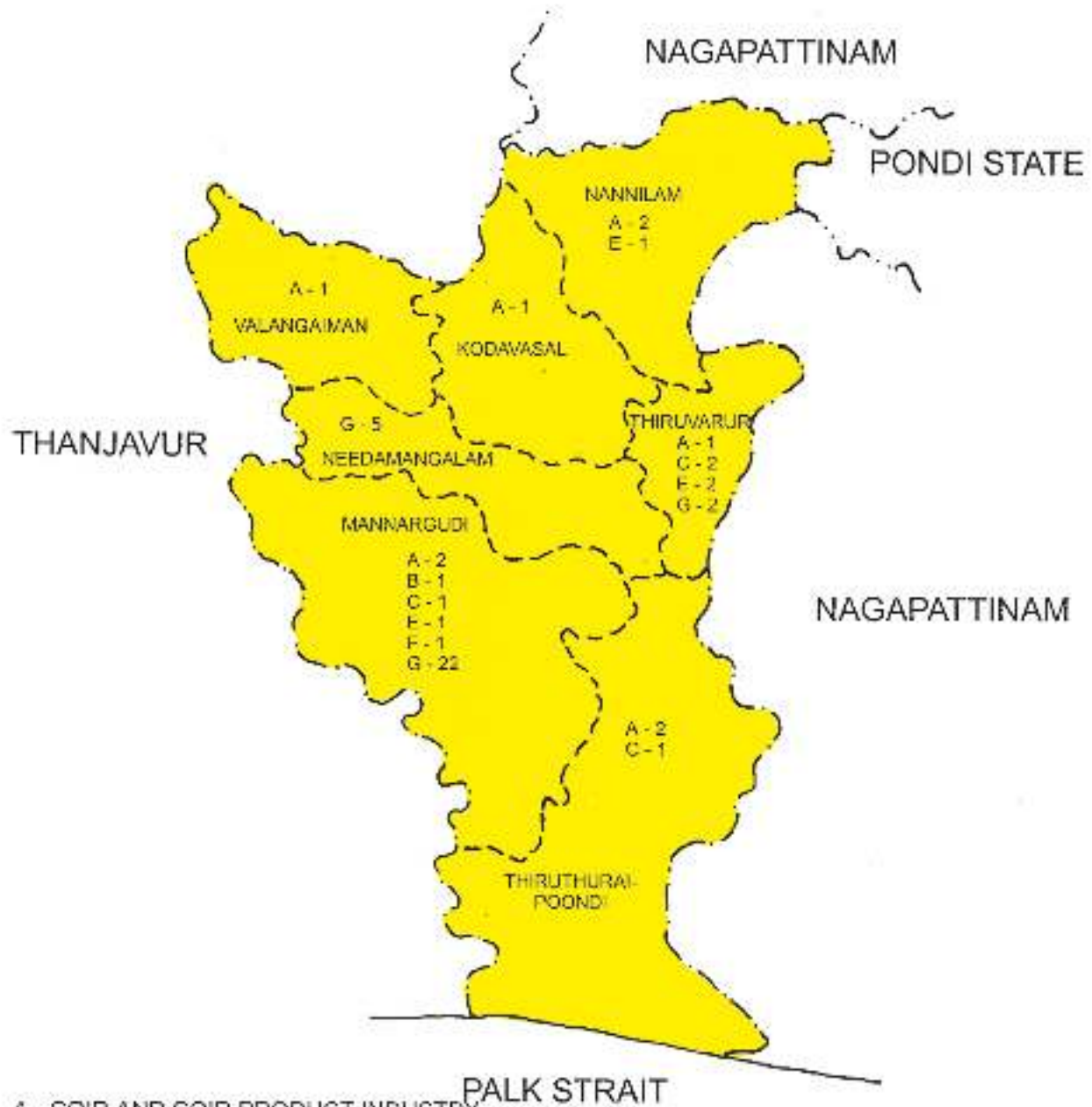
AGRO INDUSTRIES

THIRUVARUR DISTRICT

Sl. No.	Name of Industries	Map symbol	Total Nos.
1.	Coir & Coir Product Industries	A	9
2.	Straw board Industries	B	1
3.	Chewing tobacco Industries	C	4
4.	Modern Rice Mill	E	4
5.	Sugar Factory	F	1
6.	Oil Centres	G	29

AGRO INDUSTRIES

THIRUVARUR DISTRICT



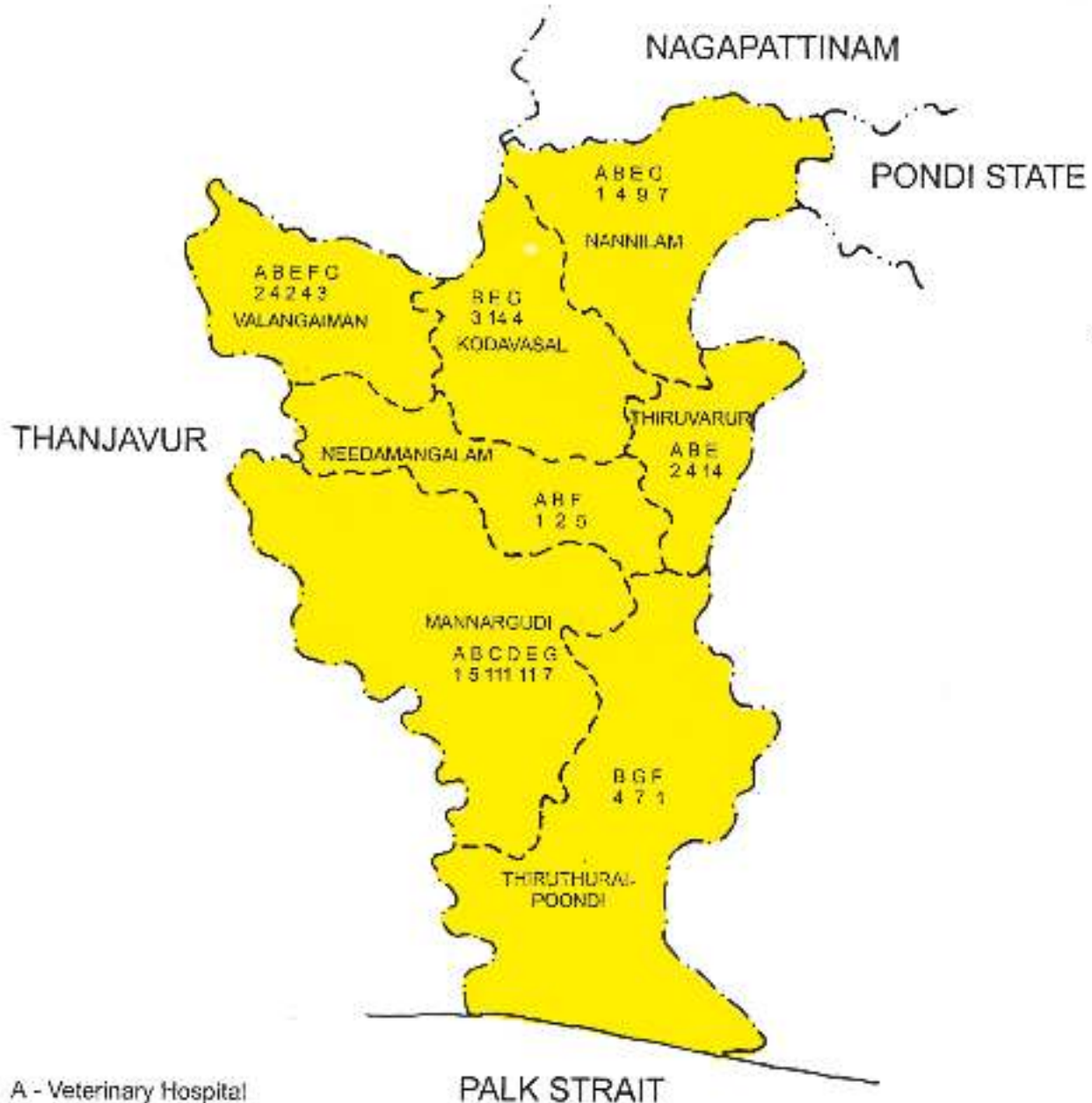
- A - COIR AND COIR PRODUCT INDUSTRY
- B - STRAW BOARD INDUSTRY
- C - CHEWING TOBACCO INDUSTRY
- E - MODERN RICE MILL
- F - SUGAR FACTORY
- G - OIL CENTRES

ANIMAL HUSBANDRY INSTITUTIONS

THIRUVARUR DISTRICT

Sl. No.	Name of Institutions	Map symbol	Total numbers
1.	Veterinary hospitals	A	7
2.	Veterinary dispensary	B	26
3.	Clinician centres	C	1
4.	Mobile veterinary dispensary	D	11
5.	Key village sub centres	E	53
6.	Intensive cattle development sub centres	K	9
7.	Animal husbandry sub centres	G	28
8.	Live stock farm	H	1

ANIMAL HUSBANDRY INSTITUTION THIRUVARUR DISTRICT



- A - Veterinary Hospital
- B - Veterinary Dispensary
- C - Mobile Veterinary Dispensary
- E - Key Village Scheme Sub-Centre
- F - Intensive Cattle Development Sub-Centre
- G - Animal Husbandry Sub-Center
- H - Live Stock Farm
- I - Poultry Extension Centre

SOILS

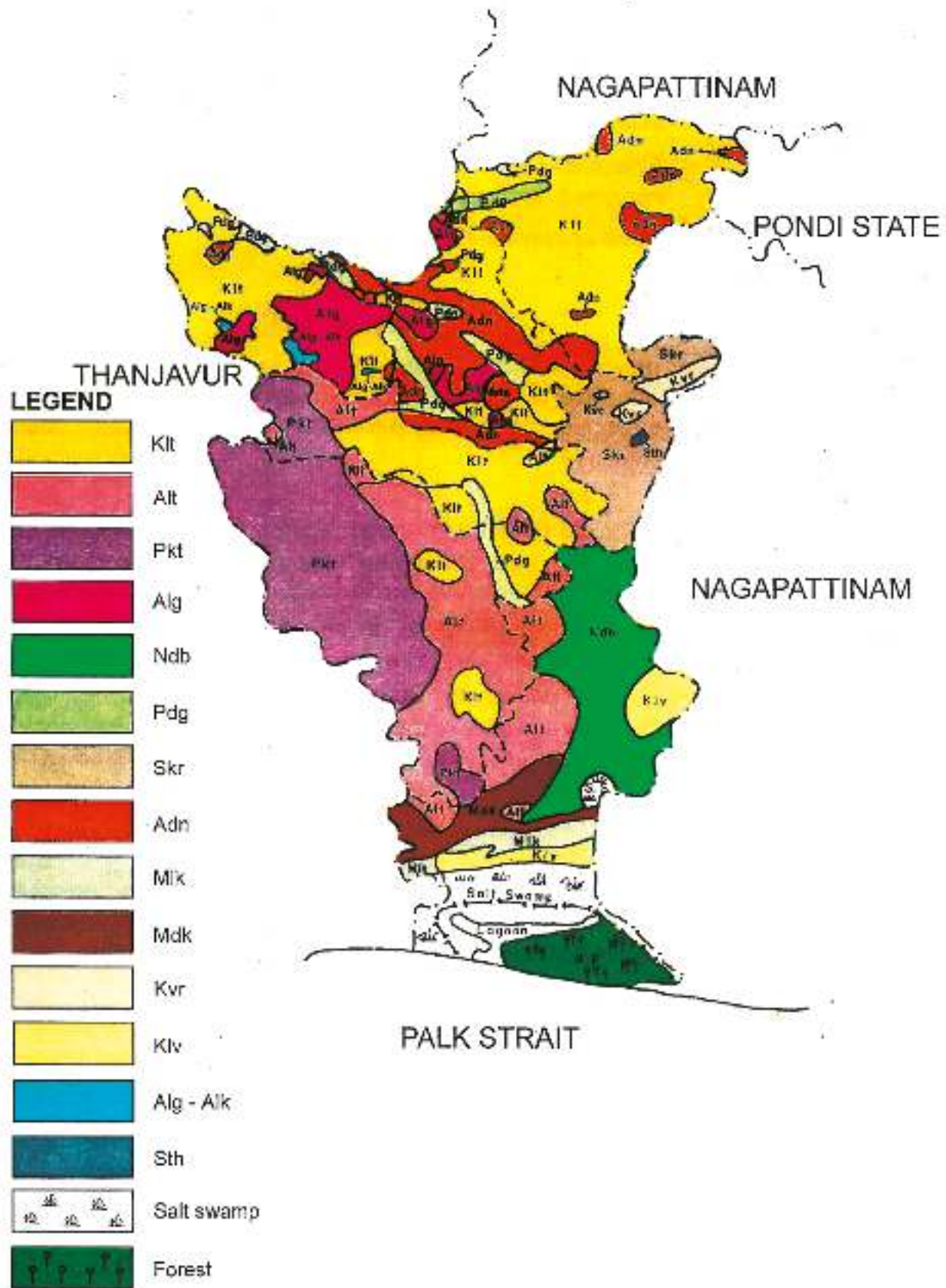
THIRUVARUR DISTRICT

In this district, thirteen soil series were identified and mapped. The distribution of the various soils series are given below :

Sl. No.	Soil series	Map symbol	Extent (ha)	% to total
1.	Kalathur	Kit	61,823	28.98
2.	Alathur	Alt	36,522	17.12
3.	Pattukkottai	Pkt	31,568	14.80
4.	Alangudi	Alg	14,187	6.65
5.	Nedumbalam	Ndb	12,567	5.89
6.	Padugai	Pdg	11,305	5.30
7.	Sikar	Skr	11,856	5.56
8.	Adhanur	Adn	9,275	4.35
9.	Melkadu	MIK	4,400	2.06
10.	Madukkur	Mdk	2,967	1.39
11.	Kivalur	Kvr	2,192	1.03
12.	Kallivayal	Klv	1,535	0.72
13.	Alangudi-Alkaline	Alg-Alk	404	0.19
14.	Sethi	Sth	168	0.08
15.	Swamps	—	511	0.24
16.	Salt swamp (including reserve forest)	—	12,023	5.68
	Total		2,13,303	100.00

SOILS

THIRUVARUR DISTRICT



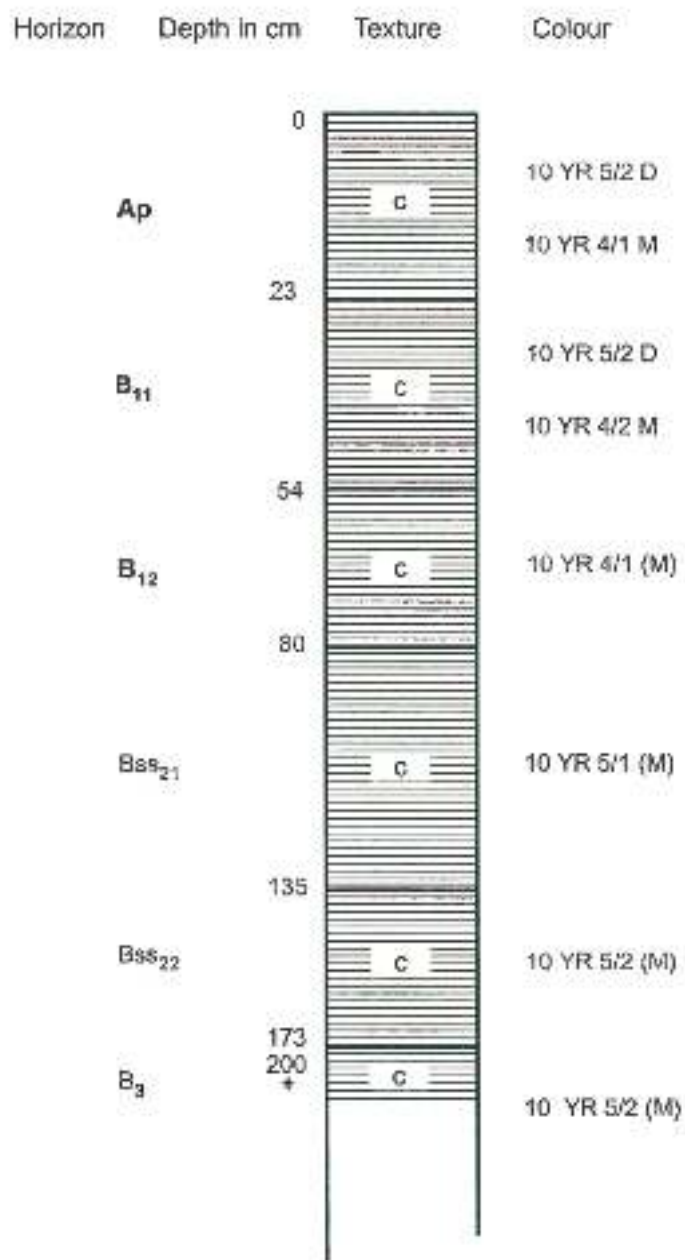
KALATHUR SOIL SERIES

- Brief description** : Kalathur series consists of very dark grey brown, very deep, calcareous, fine textured Cauvery river alluvium
- Physiography** : Tamilnadu east coast plain - riverine land form (away from the river course) of deltaic plain.
- Drainage** : Poorly drained.
- Taxonomy** : Fine, calcareous, montmorillonitic, isohyperthermic, very deep Typic Haplusterts.
- Typifying pedon** : Kalathur-clay - cultivated.

Profile description :

Horizon	Depth(cm)	Description
Ap	0-23	Dark grey (10YR 4/1m); clay; strong coarse subangular blocky; very hard firm sticky and plastic; brownish yellow root hair mottlings; many fine to medium roots; slow permeability; gradual smooth boundary; pH 7.4;
B ₁₁	23-54	Greyish brown (10YR 4/2m); clay; coarse strong subangular blocky; very hard firm very sticky and very plastic; few fine roots; slow permeability; few small round to irregular calcium and manganese concretions; gradual smooth boundary; pH 7.6;
B ₁₂	54-80	Dark grey (10YR 4/m); clay; strong coarse subangular blocky; very hard firm very sticky and plastic; few fine roots; slow permeability; many small round to irregular calcium and manganese concretions; gradual smooth boundary; pH 7.8;
B _{ss21}	80-135	Grey (10YR 5/1m); clay; coarse strong angular blocky; hard firm very sticky and very plastic; few very fine roots; slow permeability; intersecting slickensides; common large irregular calcium and manganese concretions; clear smooth boundary; pH 7.6;
B _{ss22}	135-173	Greyish brown (10YR 5/2m); clay; coarse strong angular blocky; hard very sticky and plastic; few fine roots; slow permeability; intersecting slickensides; common large irregular calcium and manganese concretions; abrupt irregular boundary; pH 7.8.
B ₃	173-200	Greyish brown (10YR 5/2m); clay; coarse strong subangular blocky; hard firm sticky and plastic; slow permeability; many large irregular calcium and manganese concretions; slow permeability; pH 7.6.

KALATHUR SERIES



Klt

ALATHUR SOIL SERIES

Brief description : These are greyish brown, fine loamy, very deep., strongly calcareous, moderately alkaline soils occurring at the bottom of the Cauvery - Mettur project area.

Physiography : Tamilnadu east coast plain - laterite depression of gently sloping land.

Drainage : Poorly drained.

Taxonomy : Fine loamy, calcareous, mixed, isohyperthermic, very deep Vertic Haplustalfs.

Typifying pedon : Alathur - sandy clay loam-cultivated fallow.

Profile description :

Horizon	Depth (cm)	Description
A1	0-16	Dark grey (10YR 4/2m); sandy clay loam; moderate coarse subangular blocky; hard friable slightly sticky and non plastic; many very fine to fine roots; moderate permeability; clear smooth boundary; pH ^H 7.8;
B1	16-23	Brownish yellow (10YR (6/6m); sandy clay loam; moderated coarse subangular blocky; faint yellow common medium mottlings; very hard friable sticky and non plastic; many very fine to fine roots; few very fine tubular pores; slow permeability; clear wavy boundary; pH ^H 8.2;
B ₁₂₁	23-89	Greyish brown (10YR 5/2m); sandy clay loam; moderate coarse subangular blocky; prominent black and yellow many fine mottlings; very hard friable sticky and non plastic; common fine roots; common very fine tubular pores; slow permeability; few round to irregular small hard iron and calcium concretions; thin broken clay films; abrupt irregular boundary; pH ^H 8.3;
B ₁₂₂	89-135 ⁺	Greyish brown (10YR 5/2m); sandy clay loam; moderate medium subangular blocky; distinct black and yellow many fine mottlings; friable slightly sticky and non plastic; few very fine roots; few very fine tubular pores; thin broken clay films; slow permeability; many large irregular hard iron and calcium concretions; pH ^H 8.5.

ALATHUR SERIES

Horizon	Depth in cm	Texture	Colour
A₁	0	sl - scl	10 YR 6/2 D
	16		10 YR 4/2 M
B₁	16	scl	10 YR 6/4 D
	23		10 YR 6/6 M
Bt₂₁	69	scl	10 YR 5/2 (M)
	69		10 YR 5/2 (M)
Bt₂₂	135	scl	10 YR 5/2 (M)
	135		10 YR 5/2 (M)

Alt

PATTUKKOTTAI SOIL SERIES

Brief description : They include pale brown, very deep, fine loamy, noncalcareous soils occupying the top portion of the gently sloping Cauvery - Mettur project area.

Physiography : Tamilnadu east coast plain - gently sloping land of laterite land form.

Drainage : Well drained.

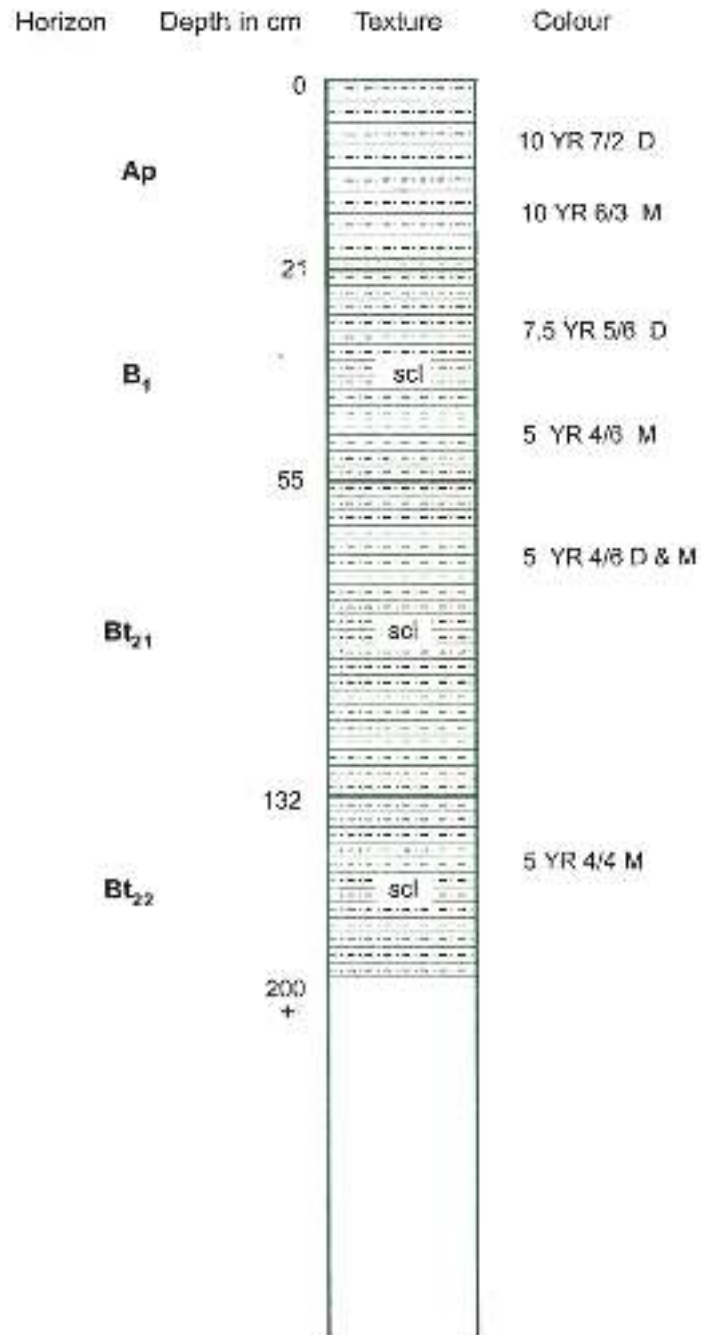
Taxonomy : Fine loamy, mixed, isohyperthermic, very deep Ultic Haplustalfs.

Typifying pedon : Pattukottai - loamy sand-fallow.

Profile description :

Horizon	Depth (cm)	Description
A ₁	0-21	Pale brown (10YR 6/3m); loamy sand; structureless; single grained; loose very friable nonsticky and nonplastic; many very fine roots; very rapid permeability; clear smooth boundary; p ^H 6.8;
B ₁	21-55	Yellowish red (5YR 4/6m); sandy clay loam; strong coarse subangular blocky; extremely hard firm slightly sticky and nonplastic; common very fine to medium roots; common fine to medium random tubular pores; rapid permeability; diffused smooth boundary; p ^H 6.2;
B ₁₂₁	55-132	Yellowish red (5YR 4/6m); sandy clay loam; strong coarse subangular blocky; hard friable slightly sticky and nonplastic; common very fine to medium roots; many medium tubular pores; thin patchy cutans; rapid permeability; diffused irregular boundary; p ^H 6.9;
B ₁₂₂	132-200	Reddish brown (5YR 4/4m); sandy clay loam; strong coarse subangular blocky; hard friable slightly sticky and slightly plastic; distinct many medium very dark greyish brown mottlings; small irregular fine soft concretions; few fine roots; common very fine tubular pores; thin patchy cutans; rapid permeability; p ^H 7.5.

PATTUKKOTTAI SERIES



Pkt

ALANGUDI SOIL SERIES

- Brief description : These soils consists of very dark grey brown, fine, very deep, calcareous, poorly drained Cauvery alluvium. It occurs in pockets away from the river beds when the river takes wide curves.
- Physiography : Tamilnadu east coast plain - riverine flat land form.
- Drainage : Poorly drained.
- Taxonomy : Fine, calcareous, montmorillonitic, isohyperthermic, very deep Typic Haplusterts.
- Typifying pedon : Alangudi - sandy clay loam - cultivated

Profile description :

Horizon	Depth (cm)	Description
Ap	0-15	Greyish brown (10YR 5/2d); dark greyish brown (10YR 4/2m); sandy clay loam; moderate coarse subangular blocky; hard friable slightly sticky and slightly plastic; common very fine round pores; moderately rapid permeability; diffused irregular boundary; p ^H 9.0;
B ₁	15-45	Greyish brown (10YR 5/2m); sandy clay loam; moderate coarse subangular blocky; hard friable slightly sticky and slightly plastic; few large round to irregular concretions; many fine to medium round pores; moderate permeability; diffused irregular boundary; p ^H 9.0;
B _{ss21}	45-84	Greyish brown (10YR 5/2m); sandy clay loam; moderate coarse subangular blocky; hard friable slightly sticky and slightly plastic; few large round to irregular concretions; prominent intersecting slickensides; few medium roundpores; moderate permeability; clear wavy boundary; p ^H 8.9;
B _{ss22}	84-140	Light yellowish grey (10YR 6/2m); clay loam; moderate coarse subangular blocky; hard friable sticky and plastic; few large to irregular concretions; prominent intersecting slickensides; slight effervescence; few medium round pores; poor permeability; diffused iregular boundary; p ^H 8.9;
B ₃	140-185 ⁺	Grey (10YR 6/1m); clay loam; moderate coarse subangular blocky; hard friable sticky and plastic; effervescence; moderate permeability; p ^H 9.2.

ALANGUDI SERIES

Horizon	Depth in cm	Texture	Colour
Ap	0		10 YR 5/2 D
		scl	
	15		10 YR 4/2 M
B ₁			10 YR 6/2 D
		scl	
	45		10 YR 5/2 M
Bss ₂₁			10 YR 4/2 D
		scl	
	84		10 YR 5/2 M
Bss ₂₂			10 YR 5/2 D
		cl	
	140		10 YR 6/2 M
B ₃			10 YR 6/2 D
		cl	
	165		10 YR 6/1 M
	+		
		Alg	

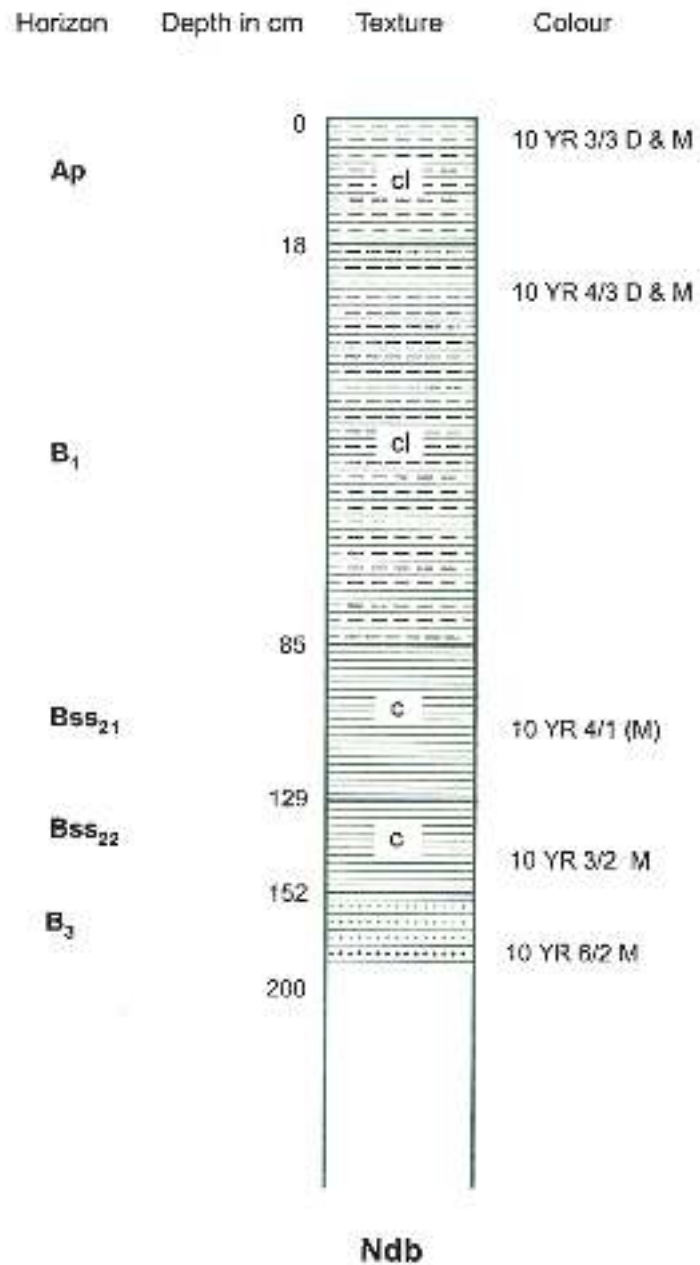
NEDUMBALAM SOIL SERIES

- Brief description** : They are grey brown, clayey, very deep, calcareous, saline alluvial soils laid over laterite land form.
- Physiography** : Tamilnadu east coast plain-low lands of laterite land form.
- Drainage** : Poorly drained.
- Taxonomy** : Fine, calcareous, mixed, isohyperthermic, very deep Typic Haplusterts
- Typifying Pedon** : Nedumbalam - clay loam-cultivated.

Profile description :

Horizon	Depth (cm)	Description
Ap	0-18	Dark brown (10YR 3/3m); clay loam; strong coarse subangular blocky; very hard firm very sticky and plastic; many very fine roots; few very fine tubular pores; very slow permeability; diffused smooth boundary; pH 8.0;
B ₁	18-85	Dark brown (10YR 4/3m); clay loam; strong coarse subangular blocky; very hard firm sticky and plastic; common fine roots; few very fine pores; very slow permeability; few small round to irregular hard iron concretions; abrupt wavy boundary; pH 8.0;
B _{ss21}	85-129	Dark grey (10YR 4/1m); clay; strong very coarse subangular blocky; faint yellow and brown common medium mottlings.; firm very sticky and plastic; common medium roots; few very fine tubular pores; very slow permeability; few small round to irregular hard iron concretions; prominent intersecting slickensides; clear smooth boundary; pH 7.7;
B _{ss22}	129-152	Very dark greyish brown (10YR 3/2m); clay; strong very coarse subangular blocky firm very sticky and very plastic; faint red and brown common medium mottlings; prominent slickensides clear smooth boundary; pH 7.8;
B ₃	152-200	Light brownish grey (10YR 6/2m); silty clay; moderate weak subangular blocky hard firm very sticky and plastic; yellowish red (5YR 4/8) many medium distinct mottlings; very slow permeability; effervescence; pH 7.6.

NEDUMBALAM SERIES



PADUGAI SOIL SERIES

- Brief description : Padugai series consists of brown, very deep, fine loamy, young soils lying near the rivers conspicuous by their stratified layers.
- Physiography : Tamilnadu east coast plain-almost flat lands of riverine land form.
- Drainage : Moderately well drained.
- Taxonomy : Fine loamy, mixed, isohyperthermic, very deep Typic Ustifluvents.
- Typifying pedon : Padugai - sandy clay loam-cultivated.

Profile description :

Horizon	Depth (cm)	Description
A _p	0-32	Brown (10YR 4/3m); sandy clay loam; moderate medium subangular blocky; friable slightly sticky and nonplastic; faint common medium black mottlings; many fine to medium roots; common very fine random tubular pores; moderate permeability; abrupt smooth boundary; pH 6.8;
A ₁₂	32-63	Brownish yellow (10YR 6/6m); sandy clay loam; moderate medium subangular blocky; friable slightly sticky and non-plastic; few fine roots; few fine tubular random pores; moderate permeability; abrupt smooth boundary; pH 7.0;
A ₁₃	63-83	Dark greyish brown (10YR 4/2m); sandy clay; strong medium subangular blocky; firm sticky and plastic; faint few fine root hair mottlings; few medium roots; few medium tubular pores; moderate permeability; gradual irregular boundary; pH 7.1;
A ₁₄	83-140	Dark brown (10YR 3/3m); sandy clay; strong moderate sub-angular blocky; firm sticky and plastic; faint common medium black root hair mottlings; few medium random tubular pores; moderate permeability; clear irregular boundary; pH 7.3;
A ₁₅	140-163	Yellowish brown (10YR 5/6m); sandy loam; weak fine subangular blocky; friable nonsticky nonplastic; few medium random tubular pores; rapid permeability; abrupt smooth boundary; pH 7.1;
C ₁	163-200	Reddish yellow (7.5YR 6/6m); sand; structureless; friable nonsticky and nonplastic; very rapid permeability; pH 7.5.

PADUGAI SERIES

Horizon	Depth in cm	Texture	Colour
	0		
A_p		sci	10 YR 4/3 (M)
	32		
A₁₂		sci	10 YR 6/6 (M)
	63		
A₁₃		sc	10 YR 4/2 (M)
	83		
A₁₄		sc	10 YR 3/3 (M)
	140		
A₁₆		sl	10 YR 5/6 (M)
	163		
C₁	200	s	7.5 YR 6/6 (M)

Pdg

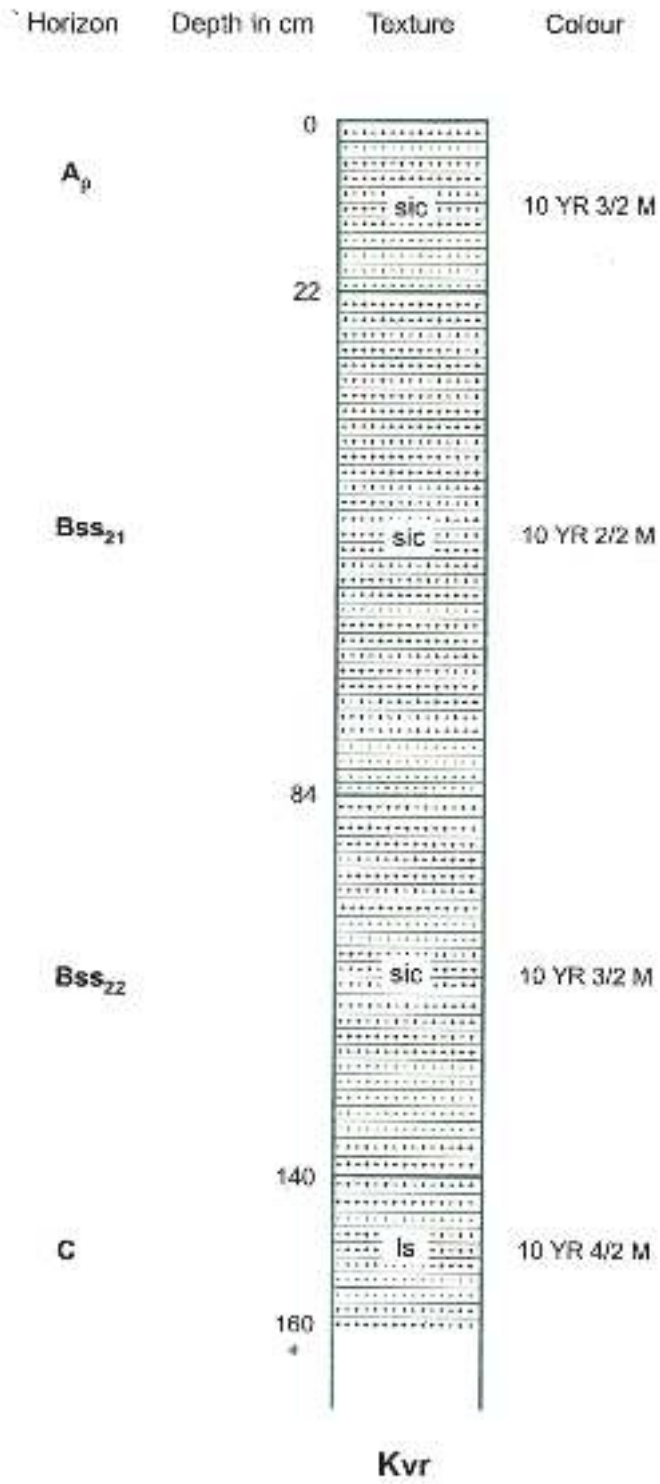
SIKAR SOIL SERIES

- Brief description : Sikar series consists of very dark greyish brown, fine textured, very deep, mildly calcareous alluvial soils with manganese concretions
- Physiography : Tamilnadu east coast plain - riverine land form- deltaic plain.
- Drainage : Moderately drained.
- Taxonomy : Fine, calcareous, montmorillonitic, isohyperthermic, very deep Typic Haplusterts.
- Typifying pedon : Sikar - silty clay - cultivated

Profile description :

Horizon	Depth (cm)	Description
A _p	0-22	Very dark greyish brown (10YR 3/2m) ; silty clay, coarse strong subangular blocky; very hard firm sticky and plastic; few fine pores; many fine roots; moderately slow permeability; clear smooth boundary; pH ^H 7.8;
B _{ss21}	22-84	Very dark greyish brown (10YR 2/2m); silty clay; coarse strong subangular blocky; very hard very firm very sticky very plastic; non intersecting slickensides; few micro pores; very few iron concretions coated with lime; very few fine roots; slow permeability; clear smooth boundary; pH ^H 8.1;
B _{ss22}	84-140	Very dark greyish brown (10YR3/2m); silty clay; medium moderate angular blocky; very hard very firm very plastic very sticky; intersecting slickensides; few micropores; slow permeability; very few iron concretions coated with lime; abrupt smooth boundary; pH ^H 8.0;
C	140-160 ⁺	Dark greyish brown (10YR 4/2m); loamy sand; fine weak subangular blocky; few dark yellowish brown mottlings; friable nonsticky and nonplastic; very rapid permeability; pH ^H 8.2.

SIKAR SERIES



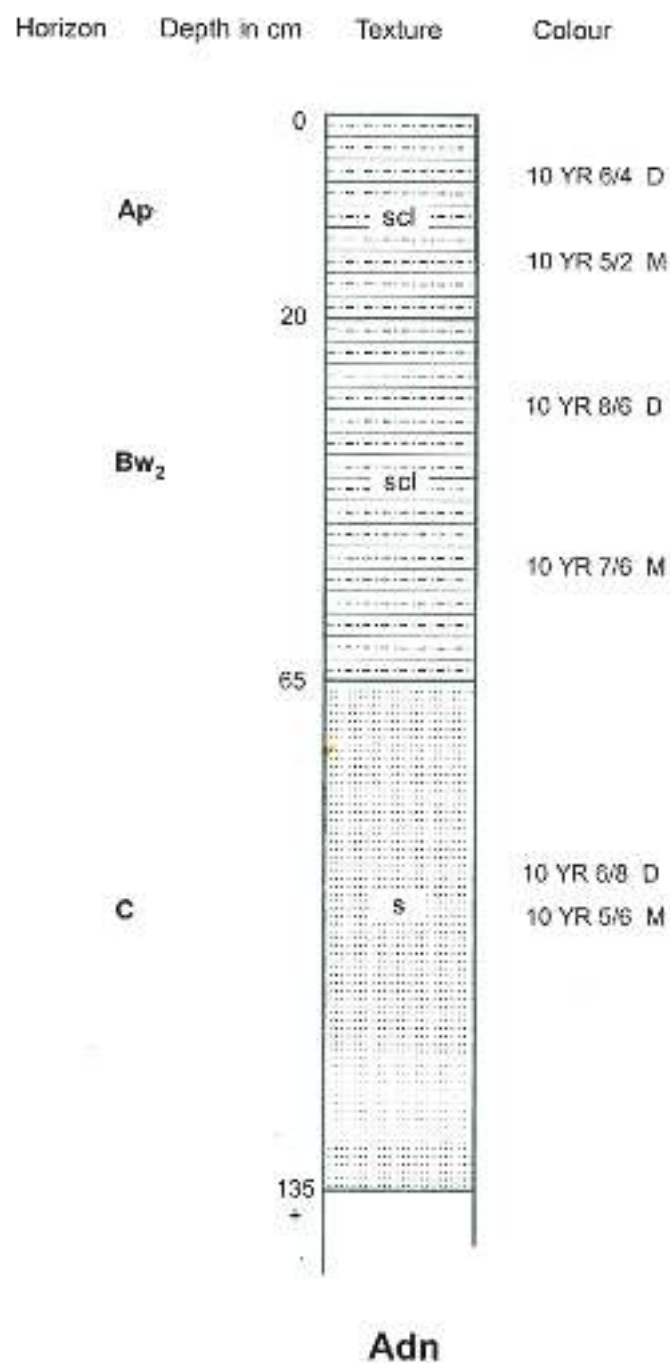
ADHANUR SOIL SERIES

- Brief description** : Adhanur series comprises of dark grey brown to dark yellowish brown, loamy textured soils derived from Cauvery alluvium.
The soils are very deep, non-calcareous, having sand layer within 100cm.
- Physiography** : Tamilnadu east coast plain - riverine flat land form.
- Drainage** : Moderately drained.
- Taxonomy** : Fine loamy, mixed, isohyperthermic, deep, Vertic Ustropepts.
- Typifying pedon** : Adhanur - sandy clay loam-cultivated.

Profile description :

Horizon	Depth (cm)	Description
Ap	0-20	Greyish brown (10YR 5/2m); sandy clay loam; moderate medium subangular blocky; distinct brown many fine to medium mottlings, very hard firm slightly sticky and slightly plastic; many fine to medium roots; common fine to medium tubular pores; moderately rapid permeability; few small round to irregular concretions; diffused irregular boundary; pH ^H 7.2;
B _w 2	20-65	Yellow (10 YR 7/6m); sandy clay loam; moderate medium to coarse subangular blocky; distinct common fine to coarse mottlings: hard firm-slightly sticky and slightly plastic; few fine to medium roots; fine to medium tubular pores; moderately rapid permeability, few small round to irregular concretions; clear wavy boundary; pH ^H 7.8;
C	65 - 135+	Yellowish brown (10YR 5/6m); sand; structureless; distinct common fine to coarse mottlings; loose very friable nonsticky and non plastic; rapid permeability; pH ^H 7.1.

ADHANUR SERIES



MELKADU SOIL SERIES

- Brief description : These are dark brown, very deep, sandy, calcareous coastal alluvial soils.
- Physiography : Tamilnadu east coast plain-marine land form - sandy plain proximity to coast.
- Drainage : Well drained.
- Taxonomy : Sandy, calcareous, mixed, isohyperthermic, very deep Aquic Udifluvents
- Typifying pedon : Melkadu - loamy sand-fallow.

Profile description :

Horizon	Depth (cm)	Description
A ₁₁	0-13	Yellow (10YR 7/6m); loamy sand; fine weak subangular blocky; loose friable nonsticky nonplastic; many fine roots; few very fine pores; rapid permeability; clear wavy boundary; p ^H 7.6;
A ₁₂	13-45	Dark yellowish brown (10YR 4/4m); loamy sand; weak fine subangular blocky; very friable nonsticky nonplastic; slight effervescence; common fine roots; few fine pores; rapid permeability; gradual wavy boundary; p ^H 7.4;
A ₁₃	45-55	Yellowish brown (10YR 5/6m); sandy clay loam; fine weak subangular blocky; friable nonsticky nonplastic; strong effervescence; common fine roots; few very fine pores; rapid permeability; clear wavy boundary; p ^H 7.5;
A ₁₄	55 - 130	Brownish yellow (10YR 6/6m); sandy loam; weak fine subangular blocky; very friable nonsticky nonplastic; very dark greyish brown (10YR 3/2) few medium distinct mottlings; strong effervescence; common fine roots; moderately rapid permeability; clear smooth boundary; p ^H 8.6;
A ₁₅	130-173	Very pale brown (10YR 8/3m); sandy loam; weak fine subangular blocky; loose nonsticky nonplastic; very dark greyish brown (10YR 3/2) few medium distinct mottlings; strong effervescence; rapid permeability; clear smooth boundary; p ^H 8.6;
A ₁₆	173-200	Very pale brown (10YR 8/4m); sand; structureless; loose nonsticky nonplastic; brownish yellow (10YR 6/8) common fine faint mottlings; strong effervescence; rapid permeability; p ^H 8.6.

MELKADU SERIES

Horizon	Depth in cm	Texture	Colour
A ₁₁	0	ls	10 YR 7/6 (M)
	13		
A ₁₂	13	ls	10 YR 4/4 (M)
	45		
A ₁₃	45	scl	10 YR 5/6 M
	55		
A ₁₄	55	sl	10 YR 6/6 M
	130		
A ₁₆	130	sl	10 YR 8/3 M
	173		
A ₁₅	173	s	10 YR 8/4 M
	200 +		

Mik

MADUKKUR SOIL SERIES

- Brief description** : Madukkur series consists of very deep brown soils derived from laterite parent material. The soils occupy the middle portion of the gently sloping land of Cauvery - Mettur project area.
- Physiography** : Tamilnadu east coast plain - laterite land form.
- Drainage** : Moderately drained
- Taxonomy** : Fine loamy, mixed, isohyperthermic, very deep Udic Haplustalfs
- Typifying pedon** : Madukkur - sandy loam-cultivated

Profile description :

Horizon	Depth (cm)	Description
Ap	0-14	Greyish brown (10YR 5/2m); sandy loam; fine weak subangular blocky; very friable nonsticky and nonplastic; many fine to medium roots; rapid permeability; abrupt smooth boundary; pH ^H 6.6;
B ₁	14-40	Yellowish brown (10YR 5/4m) ; sandy clay loam; strong coarse subangular blocky; hard firm slightly sticky and slightly plastic; distinct strong brown and very dark grey few medium mottlings; very few fine tubular pores; slow permeability; diffused wavy boundary; pH ^H 6.4;
B _{t21}	40-72	Yellowish brown (10YR 5/6m);sandy clay loam; coarse strong subangular blocky; very hard firm slightly sticky and slightly plastic; prominent common medium to coarse mottling; very few fine roots; common very fine tubular pores; slow permeability; many small hard irregular iron and manganese concretions; clear wavy boundary; pH ^H 6.8;
B _{t22}	72-138	Yellowish brown (10YR 5/6m); sandy clay loam; coarse strong subangular blocky; hard firm slightly sticky and slightly plastic; prominent many coarse mottlings; few very fine tabular pores; slow permeability; clear wavy boundary; pH ^H 6.4;
B ₃	138-200+	Light grey (10YR 7/2m); sandy clay loam; coarse strong subangular blocky; firm slightly sticky and slightly plastic; prominent many coarse mottlings; slow permeability; pH ^H 6.3.

MADUKKUR SERIES

Horizon	Depth in cm	Texture	Colour
Ap	0	sl	10 YR 7/2 D
	14		10 YR 5/2 M
B ₁		scl	10 YR 6/6 D
	40		10 YR 5/4 M
Bt ₂₁		scl	10 YR 6/4 D
	72		10 YR 5/6 M
Bt ₂₂		scl	10 YR 7/2 D
			10 YR
B ₃	138		10 YR 7/2 D
	200 +	scl	10 YR 7/2 M

Mdk

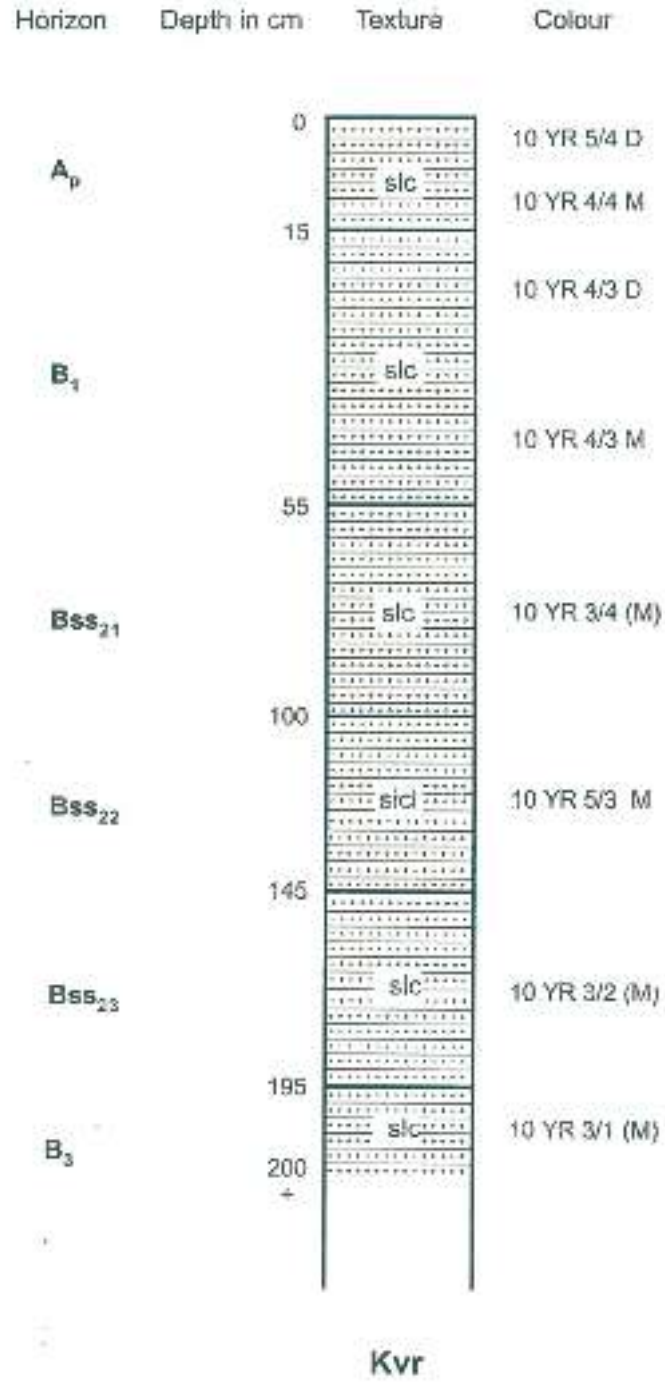
KIVALUR SOIL SERIES

- Brief description:** These consists of dark yellowish brown, very deep, heavy textured, slightly saline alluvial soils.
- Physiography :** Tamilnadu east coast plain - riverine land form - deltaic plain..
- Drainage :** Moderately drained
- Taxonomy :** Fine, montmorillonitic, isohyperthermic, very deep Typic Haplusterts.
- Typifying pedon:** Kivalur - silty clay-cultivated

Profile description :

Horizon	Depth (cm)	Description
A _p	0-15	Dark yellowish brown (10YR 4/4m); silty clay, coarse strong subangular blocky; hard firm sticky and slightly plastic; many fine to medium roots; many very fine tubular pores; slow permeability; deep cracks; clear smooth boundary; pH ^H 6.9;
B ₁	15-55	Dark brown (10YR 4/3m); silty clay; strong coarse subangular blocky; very hard firm sticky and slightly plastic; strong brown (7.5YR 5/8) few fine faint mottling; small irregular few hard iron and manganese concretions; very few very fine roots; common very fine tubular pores; slow permeability; gradual wavy boundary; pH ^H 7.8;
B _{ss21}	55-100	Dark yellowish brown (10YR 3/4m); silty clay; moderate medium subangular blocky; hard friable very sticky and very plastic; strong brown (7.5YR 5/8) few fine faint iron and manganese mottles; small irregular few hard iron - manganese concretions. few fine tubular pores; prominent intersecting slickensides; slow permeability; gradual smooth boundary; pH ^H 8.0;
B _{ss22}	100-145	Brown (10YR 5/3m);silty clay loam; moderate medium subangular blocky; hard friable sticky and plastic; strong brown; (7.5YR 5/6), common medium distinct mottlings; small irregular few hard iron concretions; slow permeability; prominent intersecting slickensides; abrupt wavy boundary; pH ^H 8.3;
B ₃	145-200	Very dark greyish brown (10YR 3/2m); silty clay; moderate medium subangular blocky; hard friable very sticky and plastic; strong brown (7.5YR 5/8m); common medium prominent mottlings : very slow permeability; gradual smooth boundary; pH ^H 8.0.

KIVALUR SERIES



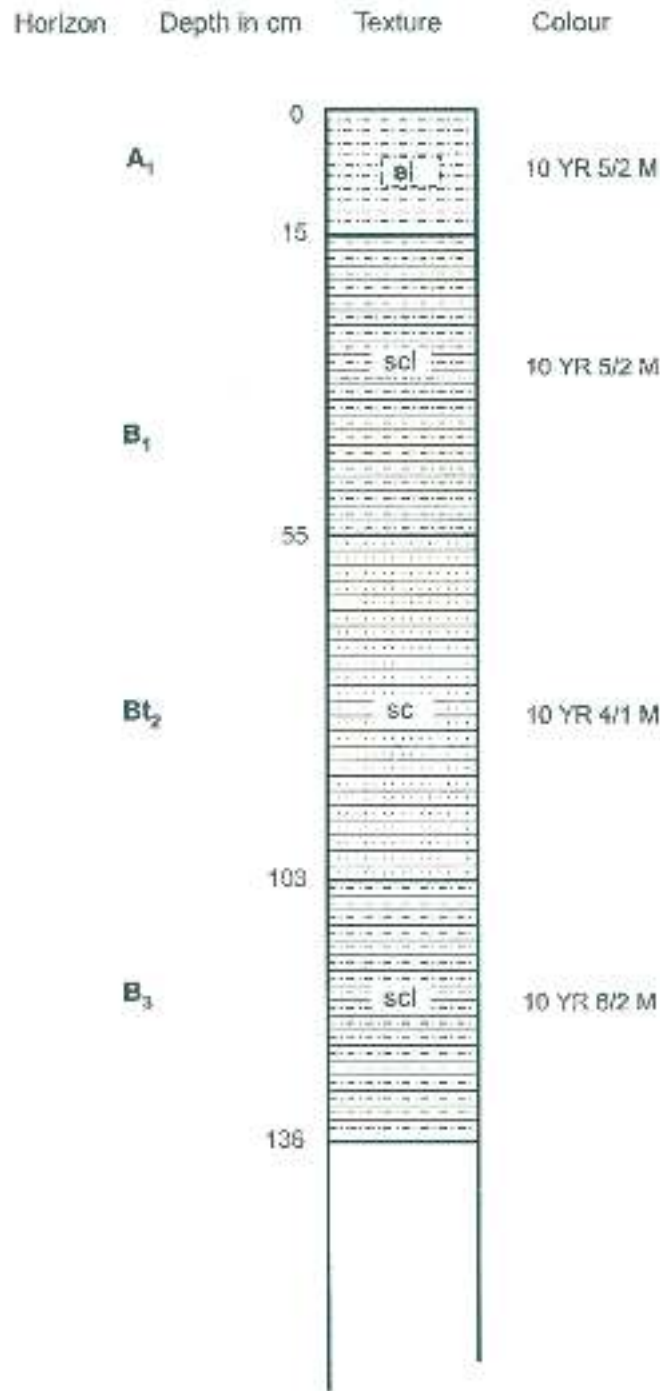
KALLIVAYAL SOIL SERIES

- Brief description** : These are dark brown, very deep, fine loamy, calcareous, saline and mildly alkaline soils derived from the coastal alluvium.
- Physiography** : Tamilnadu east coast plain-marine land form - swamp and marshy lands.
- Drainage** : Poorly drained
- Taxonomy** : Fine loamy , calcareous, mixed, isohyperthermic, very deep Aquic Haplustalfs.
- Typifying pedon** : Kallivayal - sandy loam-fallow.

Profile description :

Horizon	Depth (cm)	Description
A ₁	0-15	Greyish brown (10YR 5/2m); sandy loam; moderate medium subangular blocky; slightly hard friable nonsticky nonplastic; rapid permeability; many fine roots; fine common pores; clear smooth boundary; pH ^H 7.8;
B ₁	15-55	Greyish brown (10YR 5/2m); sandy clay loam; moderate medium subangular blocky; slightly hard friable slightly sticky and slightly plastic; moderate permeability; grey and yellow mottlings; few fine roots; fine common pores; slightly saline and alkaline; gradual smooth boundary; pH ^H 8.3;
B _{t2}	55-103	Dark grey (10YR 4/1m); sandy clay; coarse strong angular blocky; hard firm sticky and slightly plastic; fine common grey and yellow mottles; thin patchy clay films; slow permeability; few fine lime concretions; slightly saline and alkaline; few fine pores; clear smooth boundary; pH ^H 8.5;
B ₃	103-135	Light brownish grey (10YR 6/2m); sandy clay loam; medium moderate angular blocky; hard firm slightly sticky and slightly plastic; slow permeability; many large lime concretions; saline and alkaline; pH ^H 8.7.

KALLIVAYAL SERIES



Klv

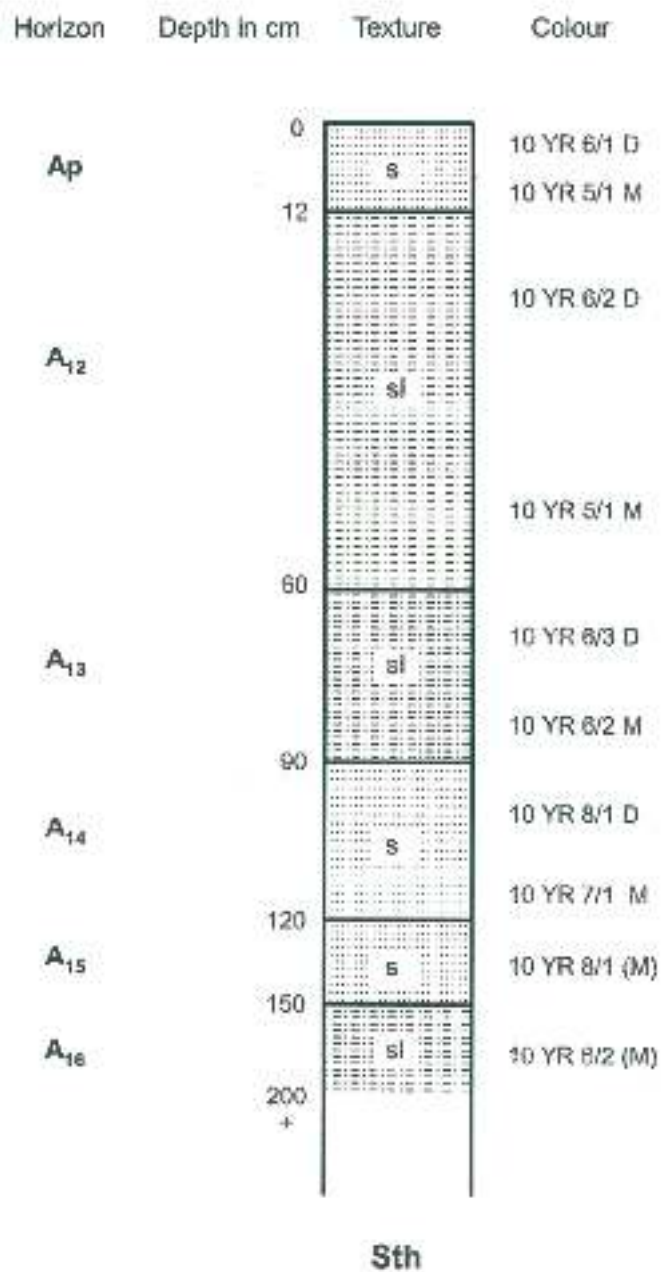
SETHI SOIL SERIES

- Brief descriptions : They include grey, saline and alkaline, very deep sandy soils distributed on very gently sloping land along coastal belt.
- Physiography : Tamilnadu east coast plain - marine land form sandy plain proximity to coast.
- Drainage : Moderately drained.
- Taxonomy : Coarse loamy, calcareous, mixed, isohyperthermic, very deep Typic Ustifluvents.
- Typifying pedon : Sethi - sand - cultivated.

Profile description :

Horizon	Depth (cm)	Description
A _p	0 - 12	Grey (10 YR 6/1 m); sand; structureless single grained; loose very friable nonsticky nonplastic; very rapid permeability; common fine roots; diffused smooth boundary; pH 7.7;
A ₁₂	12 - 60	Light brownish grey (10 YR 6/2 m); sandy loam; weak medium subangular blocky; hard friable nonsticky nonplastic; very rapid permeability; few fine to coarse roots; gradual smooth boundary; pH 7.6;
A ₁₃	60 - 90	Light brownish grey (10 YR 6/2 m); sandy loam; weak medium subangular blocky; hard friable nonsticky and nonplastic; rapid permeability; very dark brown (10 YR 2/3) few fine faint mottlings; few hard small irregular iron concretions coated with lime; moderate effervescence; few medium roots; abrupt smooth boundary; pH 8.1;
A ₁₄	90 - 120	Light grey (10 YR 7/1 m); sand; structureless single grained; loose friable nonsticky nonplastic; very rapid permeability; very dark brown (10 YR 2/3) few fine faint mottlings; few hard small irregular iron concretions coated with lime; moderate effervescence; few medium roots; diffused smooth boundary; pH 8.2;
A ₁₅	120 - 150	Light grey (10 YR 8/1 m); sand; structureless single grained; loose very friable nonsticky nonplastic; rapid permeability; very dark brown (10 YR 2/3) few fine faint mottlings; few soft calcium concretions weak effervescence; few medium roots; diffused smooth boundary; pH 8.8;
A ₁₆	150 - 200	Light brownish grey (10 YR 6/2 m); sandy loam; weak fine subangular blocky; loose friable nonsticky nonplastic; rapid permeability; dark brown (10 YR 3/3) few fine faint mottlings; many small hard irregular iron concretions; strong effervescence; few coarse roots; pH 9.1.

SETHI SERIES



LAND CAPABILITY CLASSIFICATION

THIRUVARUR DISTRICT

Land Capability Classification show the suitability of soils for agricultural uses. The groupings are made according to the soil limitations and the risks of damage when they are used. This classification system evaluates the soils based on the inherent soil characteristics (soil depth, texture, structure, concretions, reaction and permeability), external land features (slope, erosion, stoniness et.,) that limits the use of land, and environmental factors (rainfall and temperature).

The grouping of soils into capability classes is primarily done on the basis of their capability to produce common cultivated crops and pastures without deterioration over a long period of time.

The capability classes are designated by Roman numerals I to VIII. In addition, the subclasses (limitations) like topography (t), soils (s), wetness (w), climate (c) and erosion (e) are shown by suffixing small letters to the land capability classes. The numerals indicate progressively greater limitations and narrower choices for a practical use.

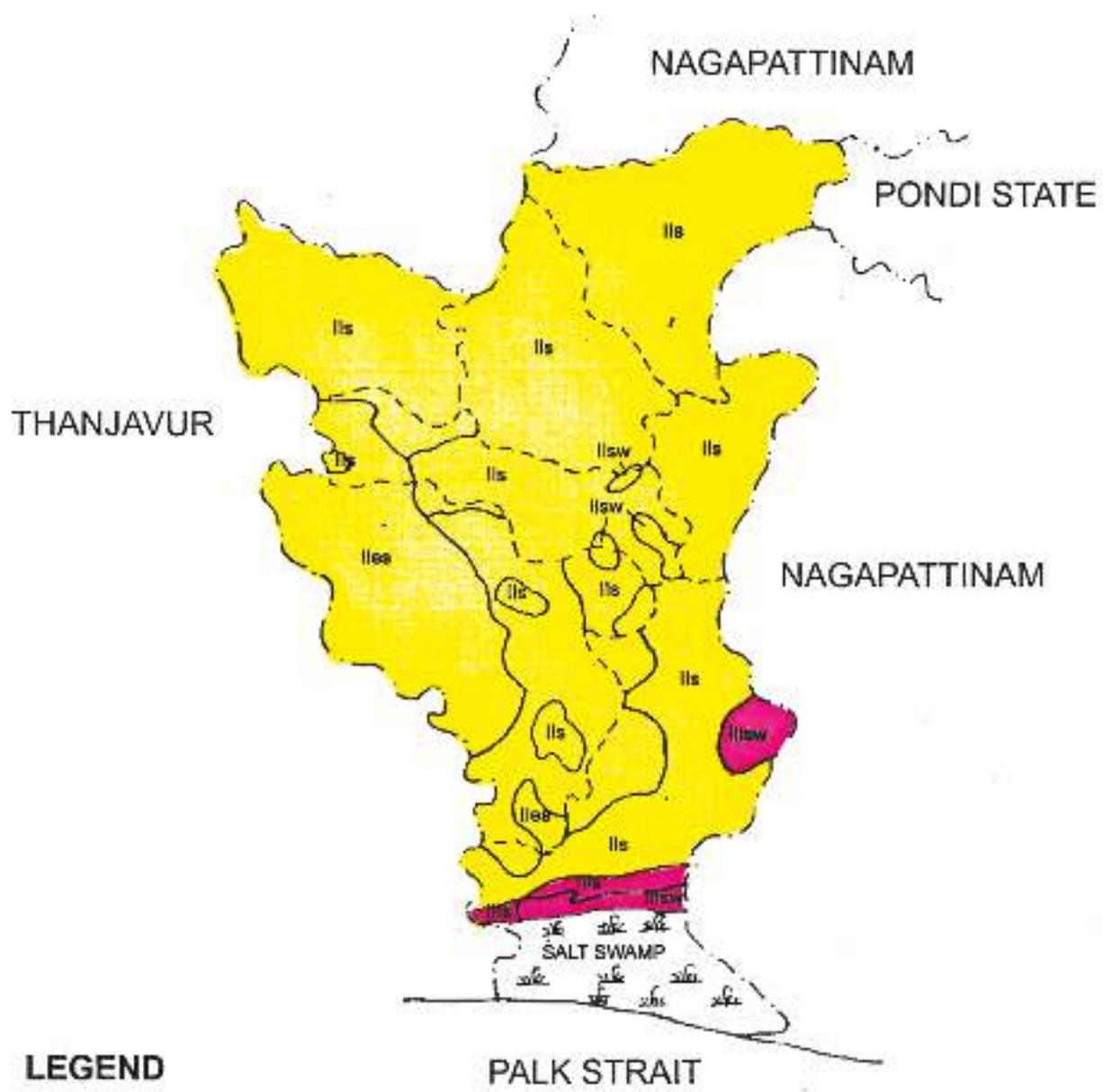
LAND CAPABILITY CLASSIFICATION FOR THIRUVARUR DISTRICT

Sl. No.	Land Capability Classification (LCC)	Soil series	Extent (ha)	% to total
1.	II - lands that have moderate limitations for sustained use under agriculture.			
	II _s - soil limitations	Kalathur, Alangudi, Adhanur, Padugai, Madukkur, Nedumbalam, Kivalur & Sikar.	1,26,576	63.0
	II _{sw} - soil and wetness associated limitations	Alathur	36,522	18.2
	II _{es} - erosion and soil limitations	Pattukkottai	31,568	15.7
2.	III - Lands that have severe limitations for sustained use under agriculture.			
	III _s - soil limitations	Melkadu & Sethi.	4,568	2.3
	III _{sw} - soil and wetness associated limitations.	Kallivayal	1,535	0.8
		Total	1,00,769	100.0



LAND CAPABILITY

THIRUVARUR DISTRICT



LEGEND

CLASS

- II - Moderate limitation
- III - Severe limitation

SUBCLASS

- s - soil limitation
- w - wetness limitation
- e - erosion limitation

LAND IRRIGABILITY CLASSIFICATION

THIRUVARUR DISTRICT

Land Irrigability Classification is concerned with predicting the behaviour of the soils under the greatly altered water regime brought about by the introduction of irrigation. Land features like topography, slope, water - table, drainage and soil factors such as depth, texture, permeability, water holding capacity, salinity, alkalinity and erosion status are the main factors considered for working out the irrigability classes. The land irrigability classes are denoted by the numbers from 1 to 6, the limitations progressively increasing with the increase in number.

Classes 1 to 4 - Irrigable land with limitation increasing progressively for sustained use under irrigation.

Class 5 - Unsuitable temporarily for irrigation.

Class 6 - Not suitable for irrigation.

The numbers are suffixed with small letters showing the limitations like topography (t), soil (s) and drainage(d).

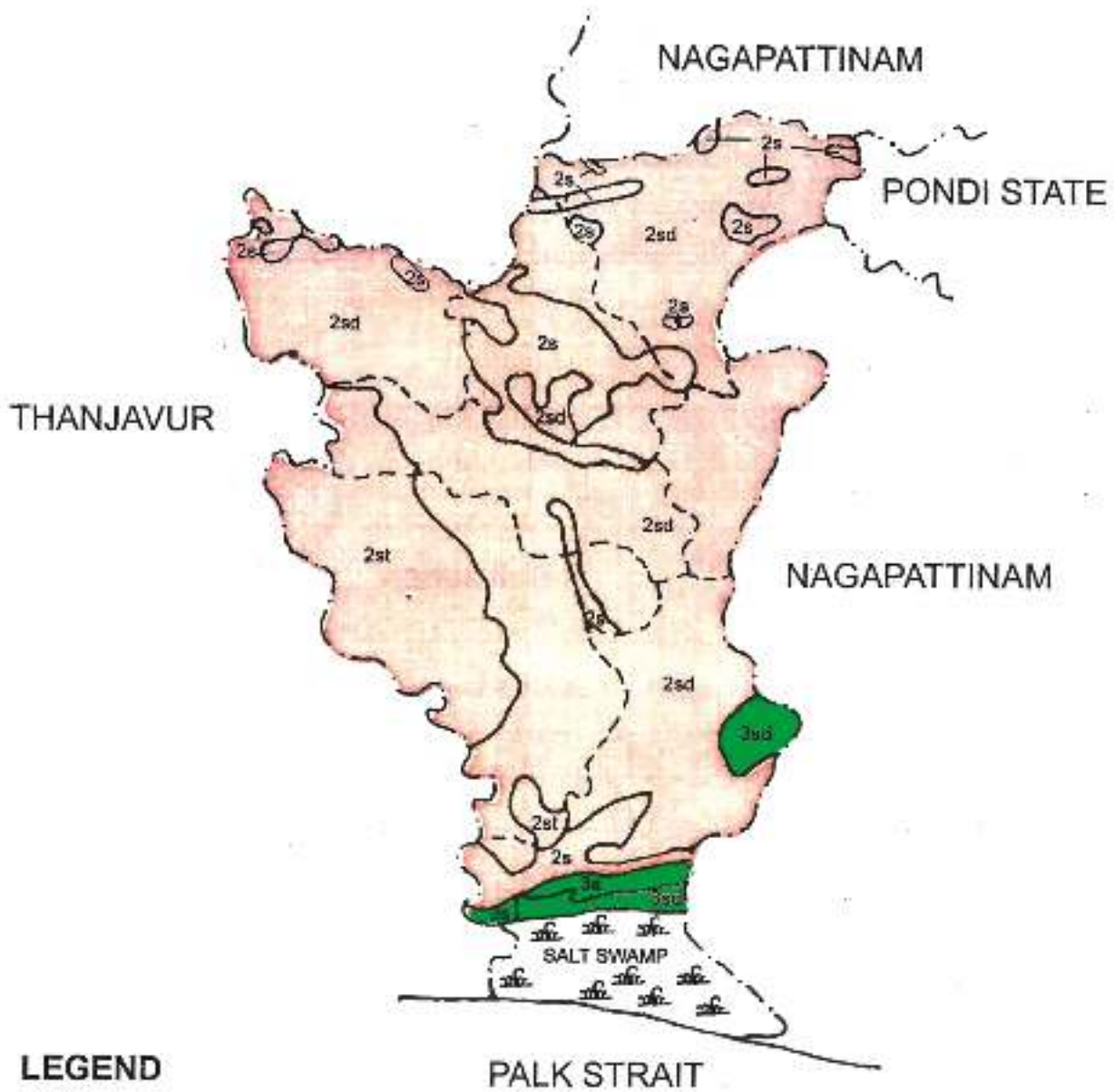
LAND IRRIGABILITY CLASSIFICATION FOR THIRUVARUR DISTRICT

Sl.No.	Land Irrigability Classification (LIC)	Soil series	Extent (ha)	% to total
1.	2 - Lands that have moderate soil limitations for sustained use under irrigation.			
	2s - Soil limitations.	Madukkur, Adhanur & Padugai.	23,547	11.7
	2st - Soil and topography limitations.	Pattukkottai.	31,568	15.7
	2sd - Soil and drainage limitations.	Kalathur, Alangudi, Kivalur, Sikar, Nedumbalam and Alathur.	1,39,551	69.5
2.	3 - Lands that have severe soil limitations for sustained use under irrigation.			
	3s - Soil limitations.	Melkadu, Sethi	4,568	2.3
	3sd - Soil and drainage limitations.	Kallivayal.	1,535	0.8
		Total	2,00,769	100.00





LAND IRRIGABILITY

THIRUVARUR DISTRICT



LEGEND

CLASS

-  2 - Moderate limitation
-  3 - Severe limitation

SUBCLASS

- s - soil limitation
- t - topographical limitation
- d - drainage limitation

SOIL PRODUCTIVITY

THIRUVARUR DISTRICT

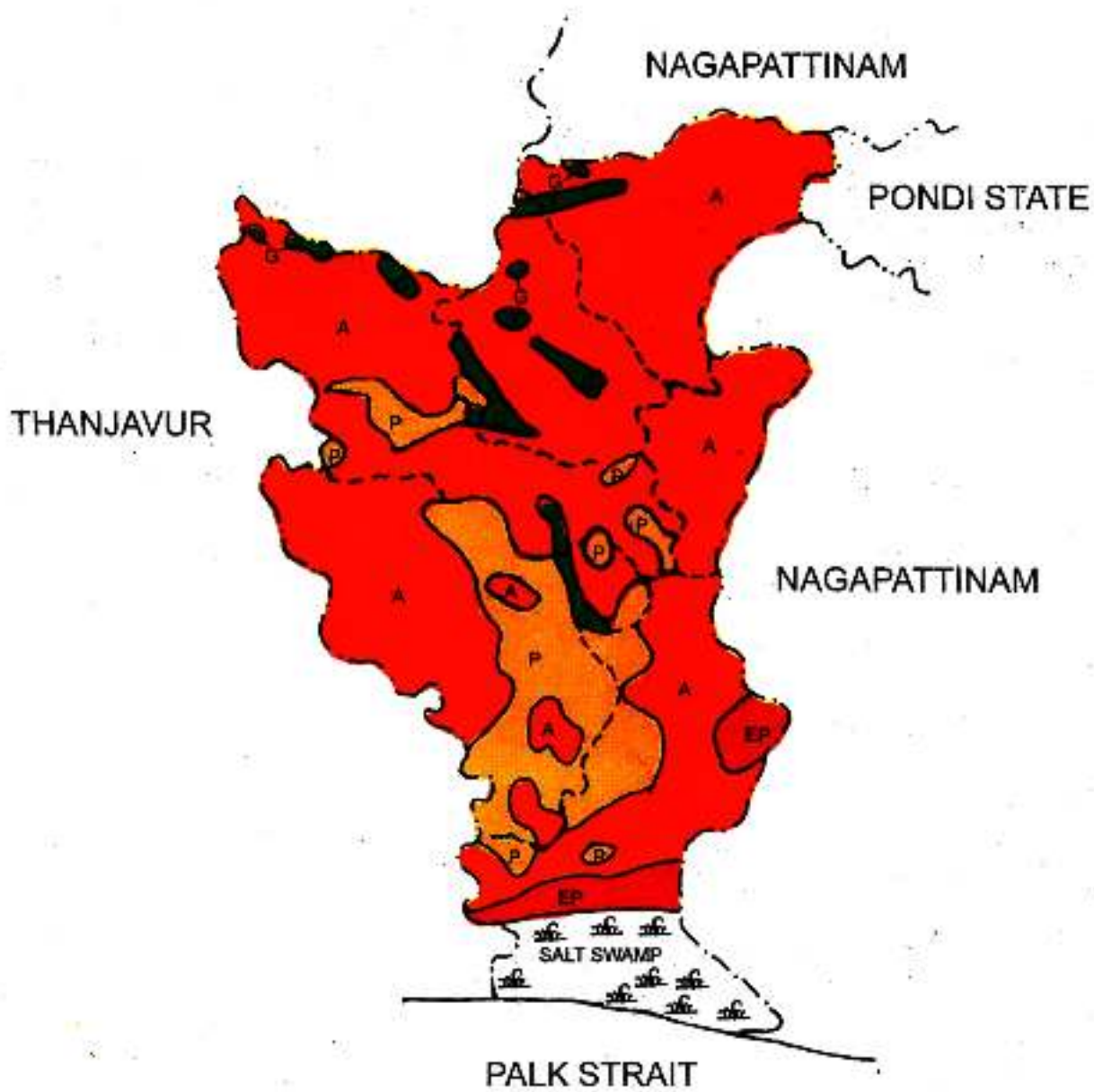
Riquier *et al.* (1970) proposed the method for working out the productivity rating of the soils taking into consideration the important soil properties such as depth, base saturation, texture and structure, organic matter content, mineral reserve and soil moisture. Five productivity classes were recognized by him. This method was adopted to work out the productivity rating of the soils of the district.

PRODUCTIVITY RATINGS FOR THE SOILS OF THIRUVARUR DISTRICT

Sl. No.	Ratings	Productivity classes	Soil series	Extent (ha)	% to total
1.	0 - 7	Extremely poor (EP)	Kallivayal and Melkadu	5,935	3.0
2.	8 - 19	Poor (P)	Alathur, Sethi	36,690	18.2
3.	20 - 34	Average (A)	Kalathur, Adhanur, Aiangudi, Pattukottai, Madukkur, Nedumbalam, Kivalur & Sikar	1,46,839	73.2
4.	25 - 64	Good (G)	Padugai	1,305	5.6
5.	65 - 100	Excellent (E)	—	—	—
Total				2,00,769	100.0

SOIL PRODUCTIVITY

THIRUVARUR DISTRICT



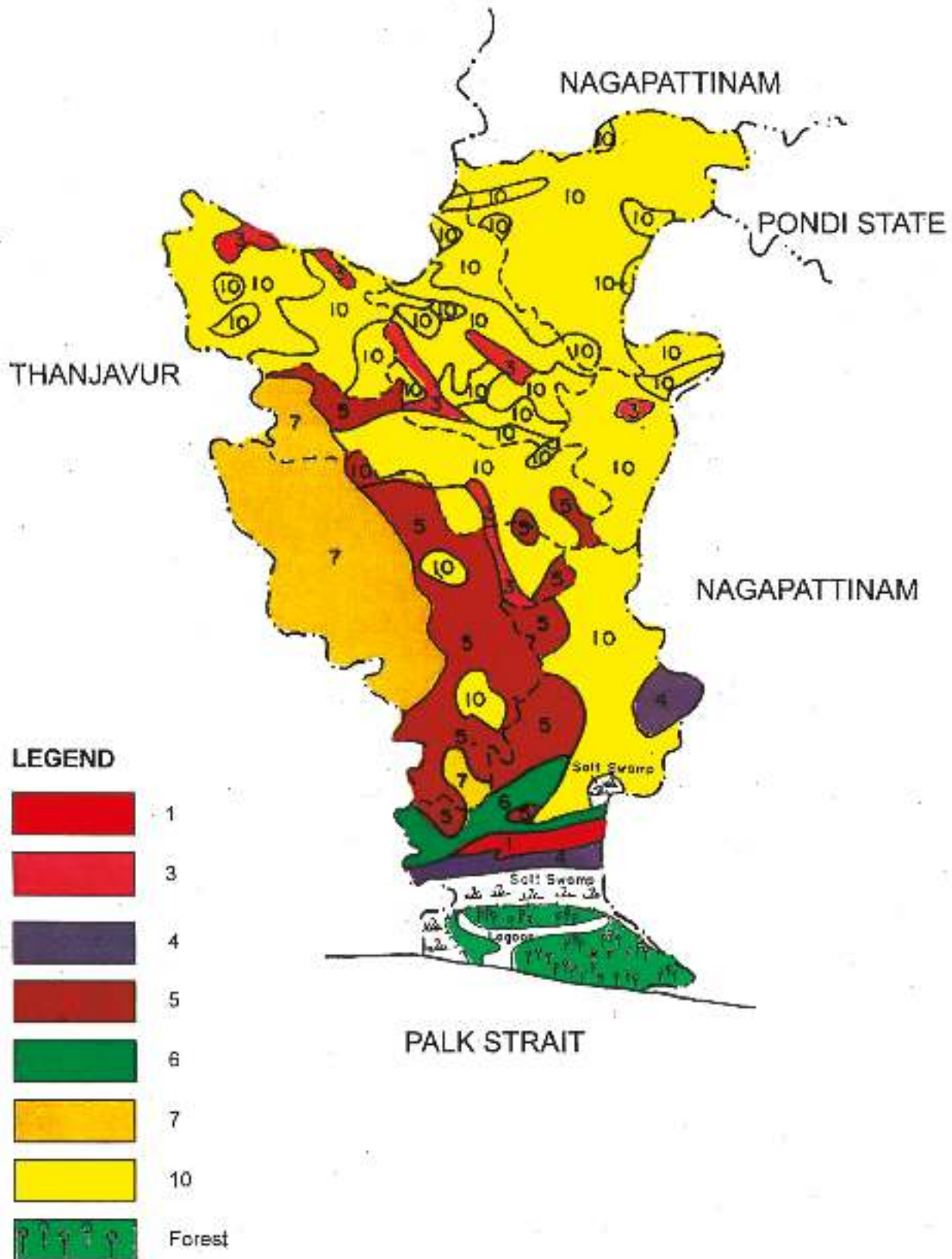
-  GOOD (G)
-  AVERAGE (A)
-  POOR (P)
-  EXTREMELY POOR (EP)

CROPS GROWN

THIRUVARUR DISTRICT

Sl. No.	Crops grown		Map symbol	Soil series
	Irrigated	Rainfed		
1.	Gingelly & Tobacco	Groundnut & Casuarina	1	Melkadu
2.	Banana, Sugarcane, Vegetables, flowers and Paddy	Groundnut, Gingelly and Eucalyptus	3	Padugai
3.	Paddy and Pulses	—	4	Kallivayal
4.	Paddy and Sugarcane and Millets	—	5	Alathur
5.	Groundnut, Gingelly, Paddy, Millets and Chillies.	Groundnut and Millets	6	Madukkur
6.	Groundnut, Gingelly, Vegetables and Chillies.	Groundnut, Coconut, Fruit trees, Eucalyptus and Casuarina.	7	Pattukkottai
7.	Paddy, Sugarcane and Cotton	Pulses	10	Adhanur, Alangudy, Kalathur, Kivalur, Nedumbalam & Sikar

CROPS GROWN THIRUVARUR DISTRICT



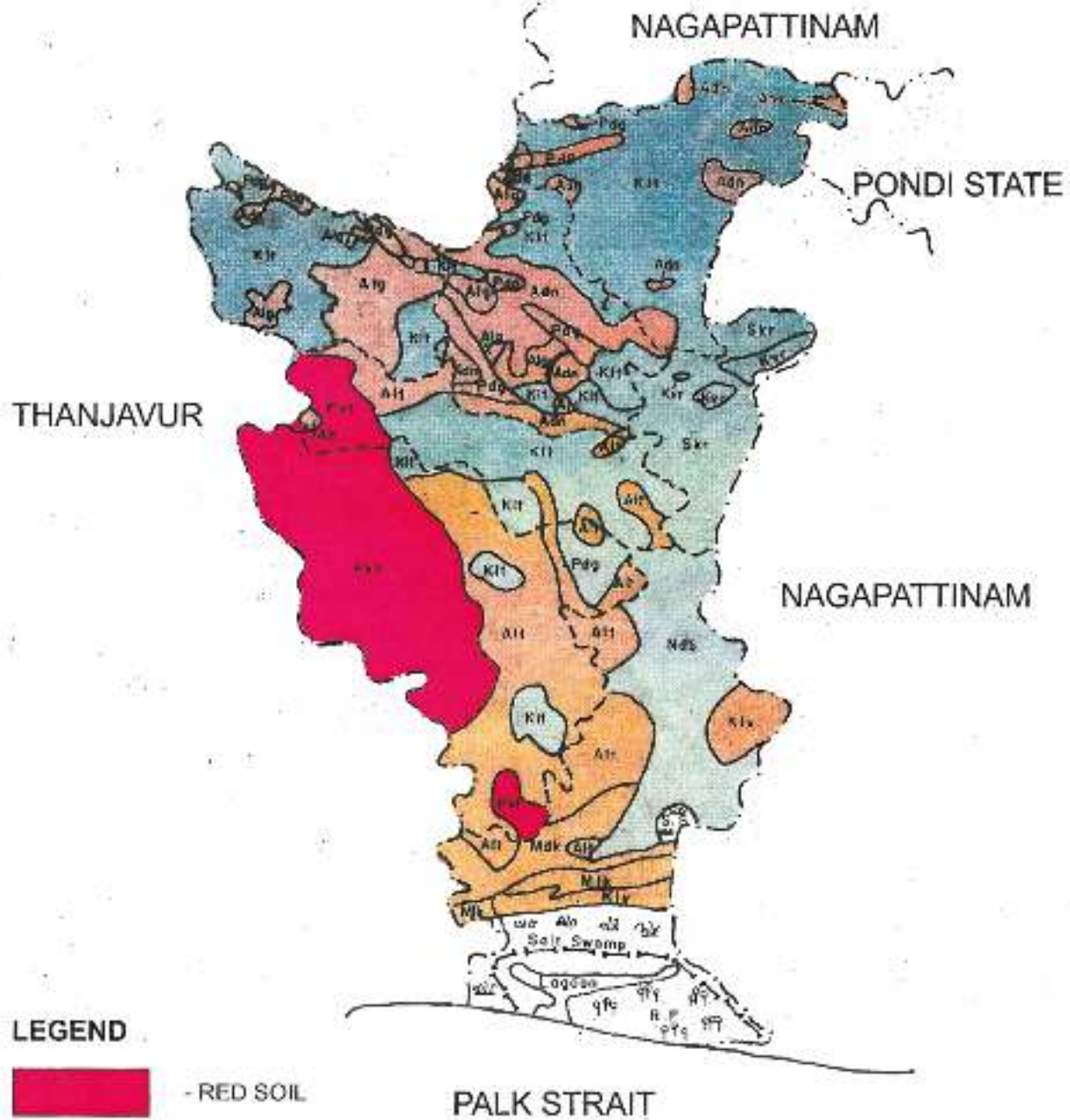
SOIL COLOUR

THIRUVARUR DISTRICT

Soil colour	Soil series	Extent (ha)	% to total
Red	Pattukkottai	31,568	15.7
Black	Kalathur, Sikar, Kivalur and Nedumbalam.	88,438	44.0
Brown	Padugai, Melkadu, Adhanur, Madukkur, Alathur, Kallivayal, Alangudi, Alangudi - Alkaline and Sethi.	80,763	40.3
Total		2,00,769	100.0

SOIL COLOUR

THIRUVARUR DISTRICT



EFFECTIVE SOIL DEPTH

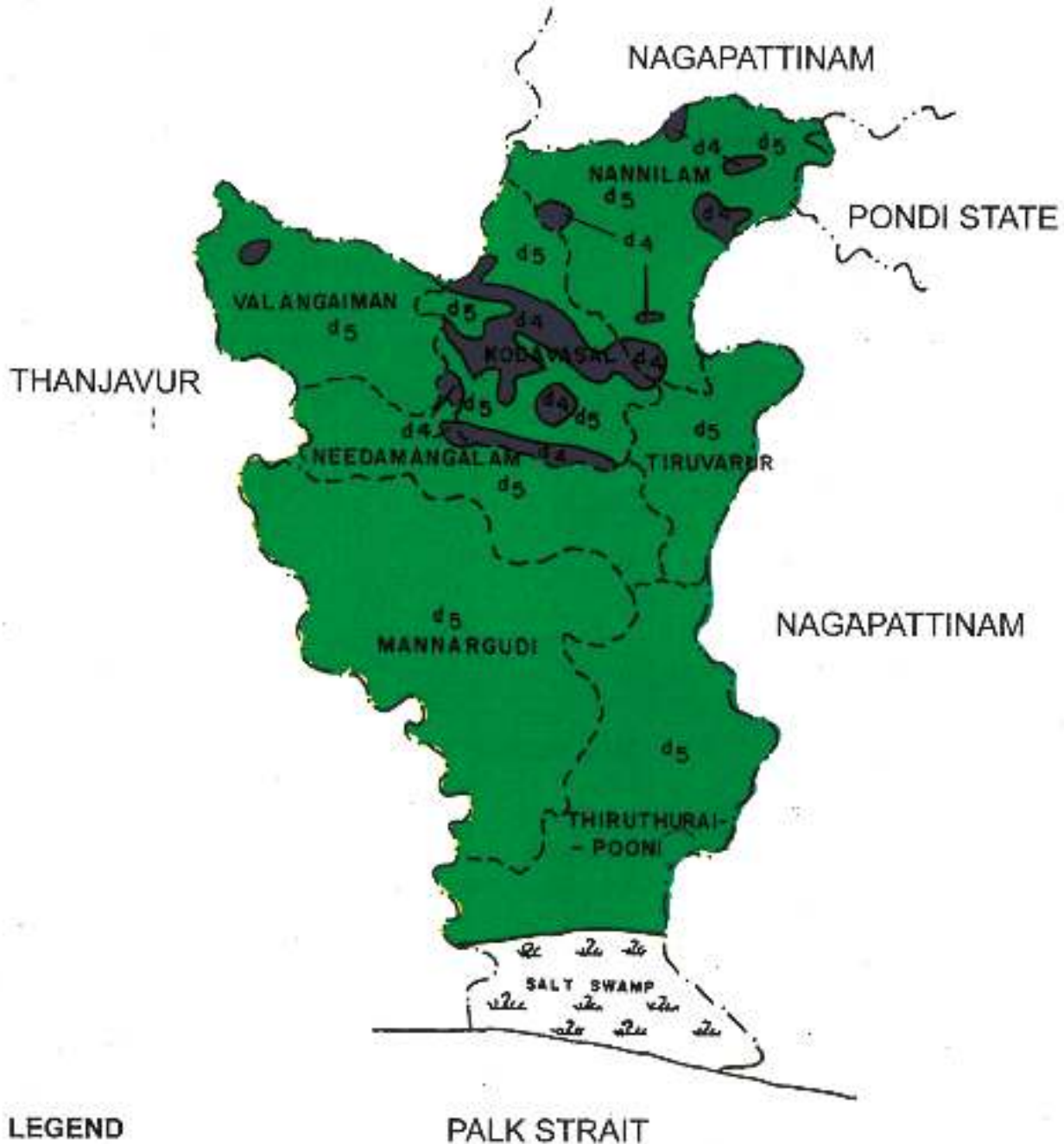
THIRUVARUR DISTRICT

- * Effective soil depth refers to the depth of solum.
- * Depth of soil is reduced by presence of parent material - solid rock, water table, salinity, alkalinity etc.,
- * Depth of soil has a bearing on the following
 - good holding of roots
 - root contact and soil volume
 - moisture content
 - quantum of nutrients
 - choice of crop varieties

Effective soil depth	Soil series	Extent (ha)	% to total
Deep (d ₄ - 50 to 100 cm)	Adhanur	9,275	4.6
Very deep (d ₅ - more than 100 cm)	Kalathur, Alangudi, Kivalur, Kallivayal, Sikar, Melkadu, Pattukkottai, Madukkur, Alathur, Nedumbalam, Padugai and Sethi.	1,91,494	95.4
Total		2,00,769	100.0

EFFECTIVE SOIL DEPTH

THIRUVARUR DISTRICT



LEGEND

-  Very Deep
-  Deep

SOIL TEXTURE

THIRUVARUR DISTRICT

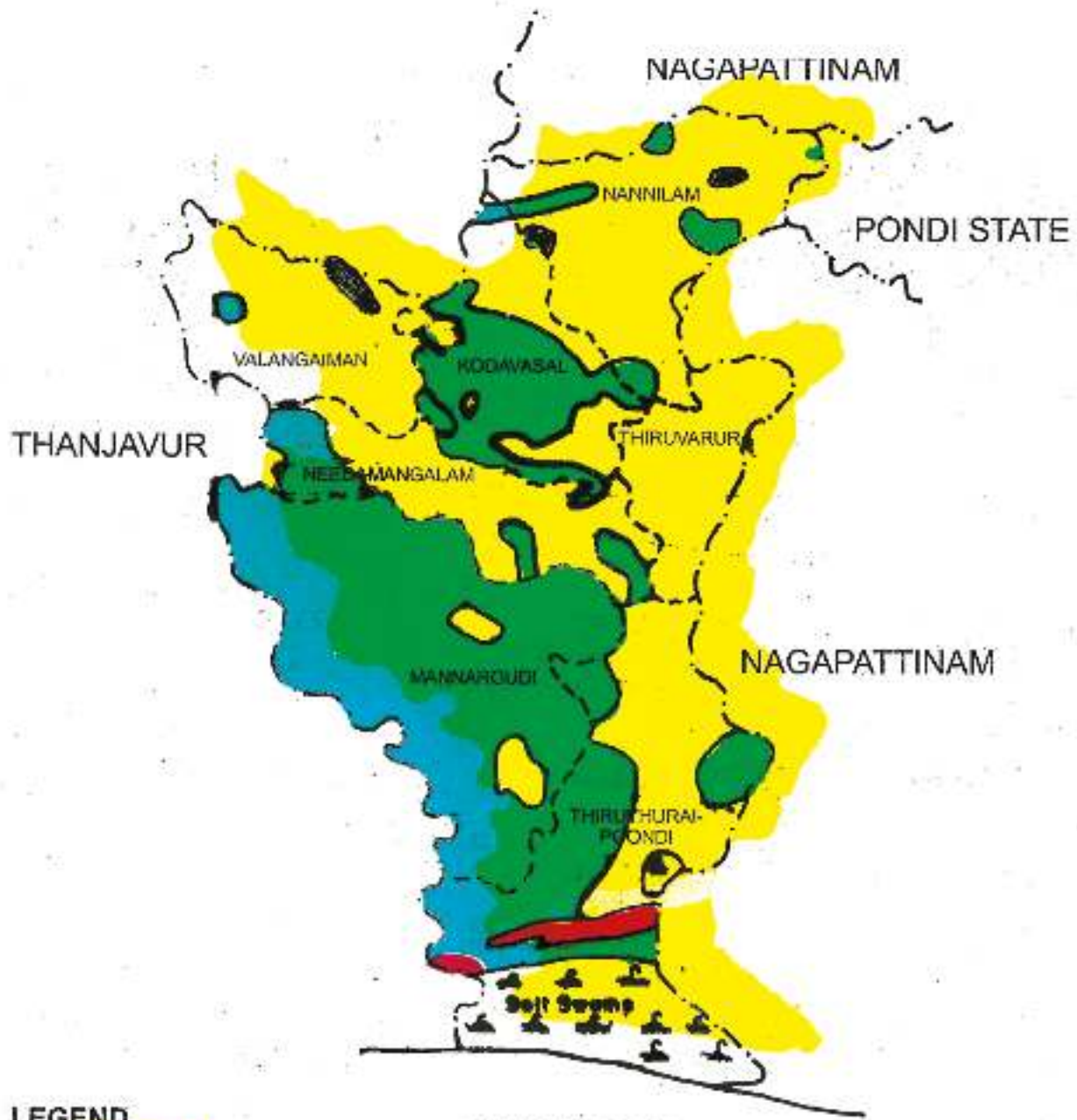
Texture indicates the relative proportion of various sizes of primary soil particles such as sand, silt and clay. Texture of the soil have a definite bearing on the following.

- aeration
- nutrient holding capacity
- moisture
- drainage characteristics
- amenability for cultural operations
- loss of applied nutrients
- choice of crops




Textural class	Soil series	Extent (ha)	% to total
Fine. (soils with high clay content)	Kalathur, Alangudi, Nedumbalam, Sikar and Kivalur	1,03,029	51.3
Fine loamy. (Soils with moderate clay content)	Adhanur, Pattukkottai, Alathur, Padugai, Kallivayal, Madukkur and Sethi.	93,340	46.5
Sandy (open textured - skeletal)	Melkadu	4,400	2.2
Total		2,00,769	100.0

SOIL TEXTURE

THIRUVARUR DISTRICT



LEGEND

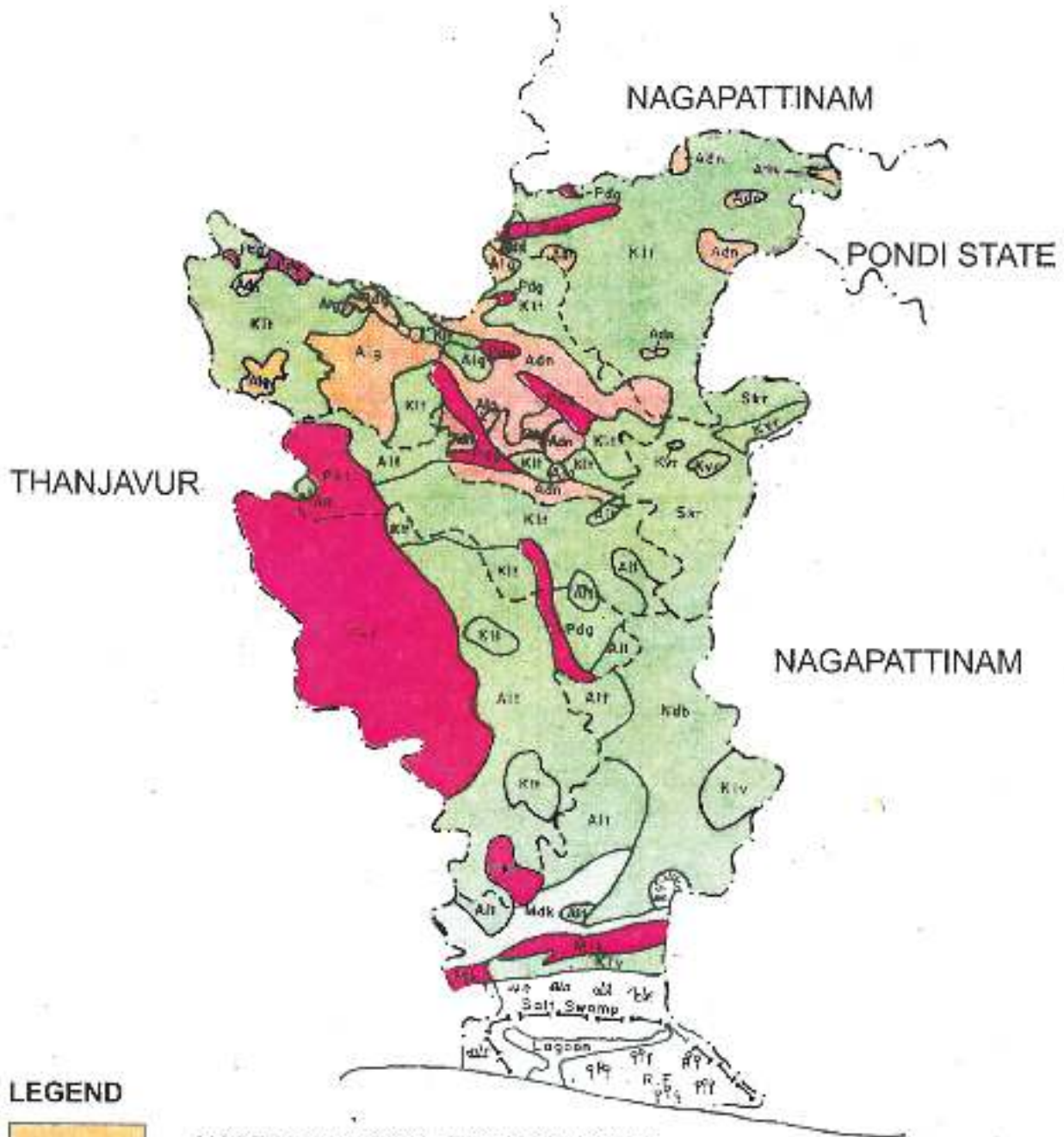
-  Fine
-  Fine loamy
-  Sandy

PERMEABILITY





THIRUVARUR DISTRICT

Permeability class	Soil series	Extent (ha)	% to total
Slow (S)	Alathur, Kallivayal, Kalathur, Sikar, Kivalur and Nedumbalam.	1,26,495	63.0
Moderately slow (MS)	Adhanur, Alangudi and Alangudi - Alkaline	23,866	11.9
Moderately rapid (MR)	Madukkur	2,967	1.5
Rapid (R)	Padugai, Melkadu, Pattukkottai and Sethi.	47,441	23.6
Total		2,00,769	100.0

PERMEABILITY THIRUVARUR DISTRICT



LEGEND

-  - MODERATELY SLOW PALK STRAIT
-  - SLOW
-  - MODERATELY RAPID
-  - RAPID

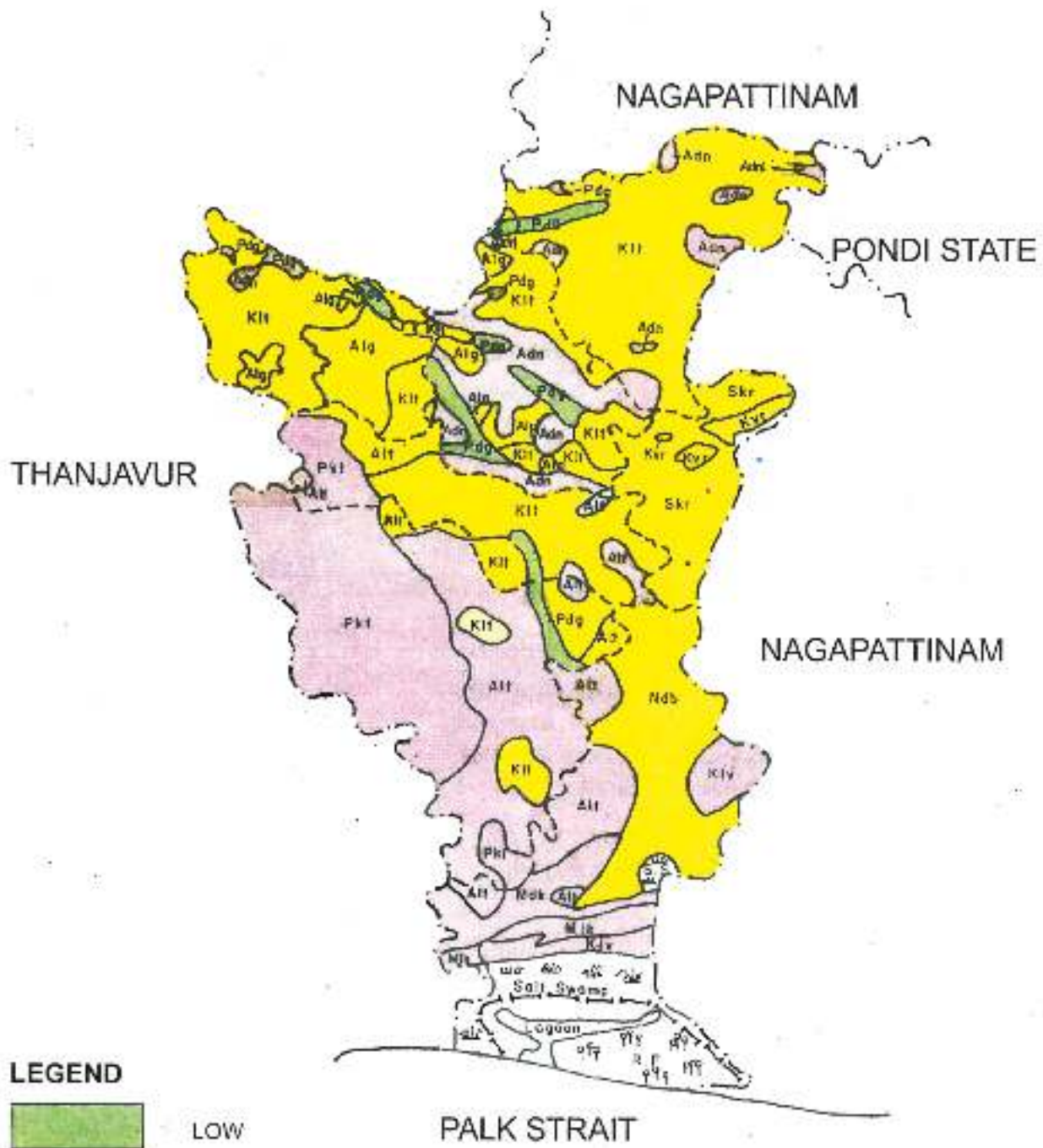
WATER HOLDING CAPACITY (WHC)

THIRUVARUR DISTRICT




WHC category	Soil series	Extent (ha)	% to total
Low (upto 20%)	Padugal	11,305	5.6
Medium (21 - 50%)	Adhanur, Melkadu, Madukkur Pattukkottai Alathur, Sethi and Kallivayal.	86,435	43.1
High (above 50%)	Kalathur, Kivalur, Nedumbalam, Alangudi, Alangudi - Alkaline and Sikar.	1,03,029	51.3
Total		2,00,769	100.0

WATER HOLDING CAPACITY

THIRUVARUR DISTRICT



LEGEND

-  LOW
-  MEDIUM
-  HIGH

EROSION

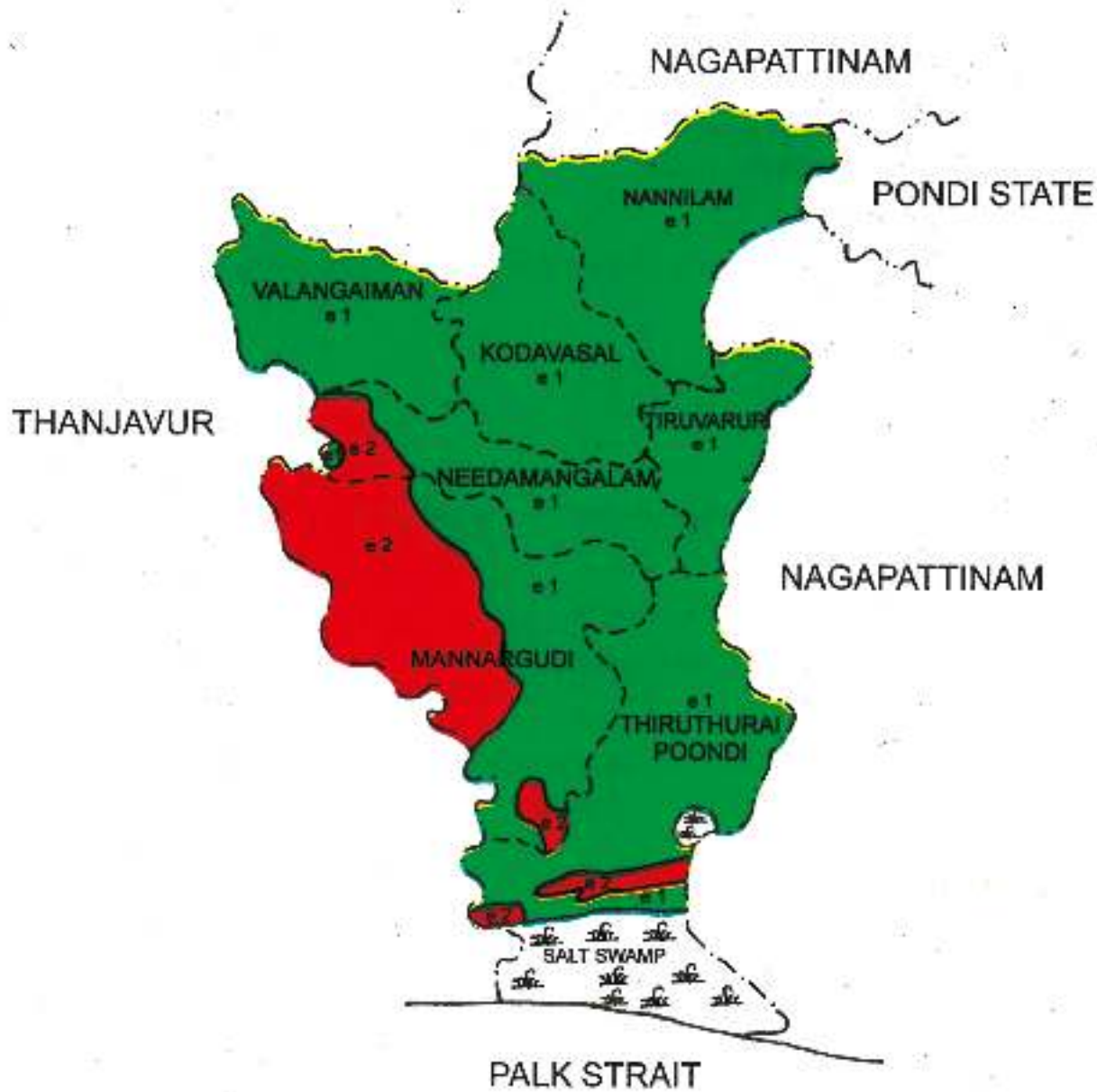
THIRUVARUR DISTRICT

- * Erosion is the removal of top fertile soil through wind or water. If by wind, wind erosion and if by water, sheet erosion. Sheet erosion is the starting point to ravines.
- * Erosion reduces the soil depth faster, takes away soil and along with it plant nutrients.



Erosion type	Soil series	Extent (ha)	% to total
Slight / no erosion (e ₁)	Kalathur, Madukkur, Alathur, Adhanur, Kallivayal, Alangudi, Nedumbalam, Sikar, Kivalur, Padugai and Sethi.	1,64,801	82.1
Moderate (e ₂)	Pattukkottai and Melkadu.	35,968	17.9
Total		2,00,769	100.0

EROSION

THIRUVARUR DISTRICT



LEGEND

-  Slight / no erosion
-  Moderate

CALCAREOUSNESS

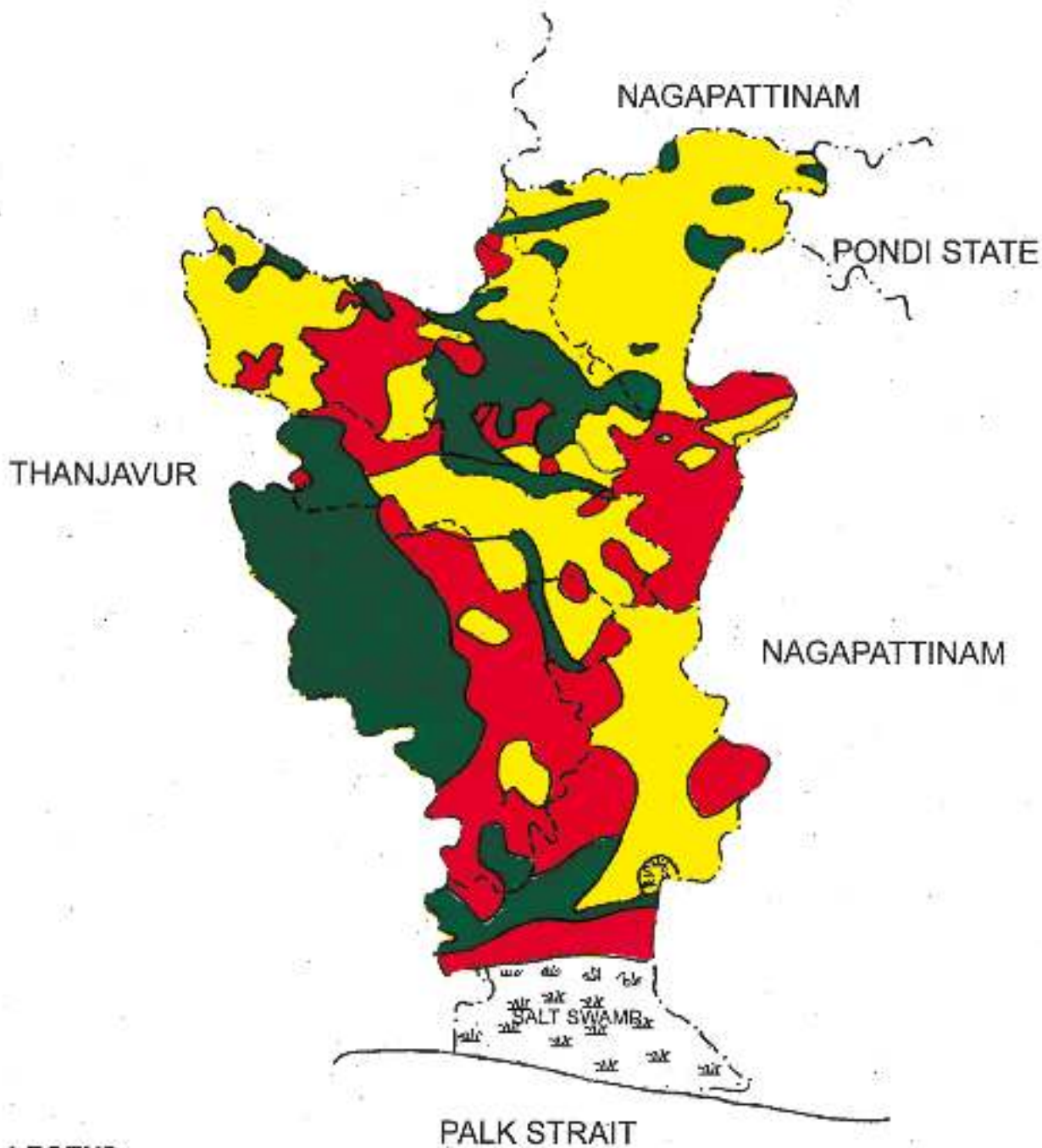
THIRUVARUR DISTRICT

- * Calcareousness in soil refers to insoluble calcium carbonate which may be present in the surface or subsurface or both.
- * Insoluble calcium carbonate is present in the soil in the following forms.
 - concretions
 - powdery
 - beds
- * Calcareousness of soil have a marked effect on the following:
 - Volatalisation loss of applied N.
 - Reduced availability of K and Mg.
 - Phosphorus fixation
 - Deficiencies of Zinc, Iron, Manganese and Boron.

Calcareousness Class	Soil series	Extent (ha)	% to total
Nil	Padugai, Adhanur, Pattukkottai, Madukkur and Sethi.	55,283	27.6
Mild	Kalathur, Nedumbalam and Kivalur.	76,582	38.2
Strong	Alangudi, Alathur, Sikar, Melkadu and Kallivayal.	68,904	34.3
Total		2,00,769	100.0

CALCAREOUSNESS

THIRUVARUR DISTRICT



LEGEND

-  NIL
-  MILD
-  HIGH

SALINITY

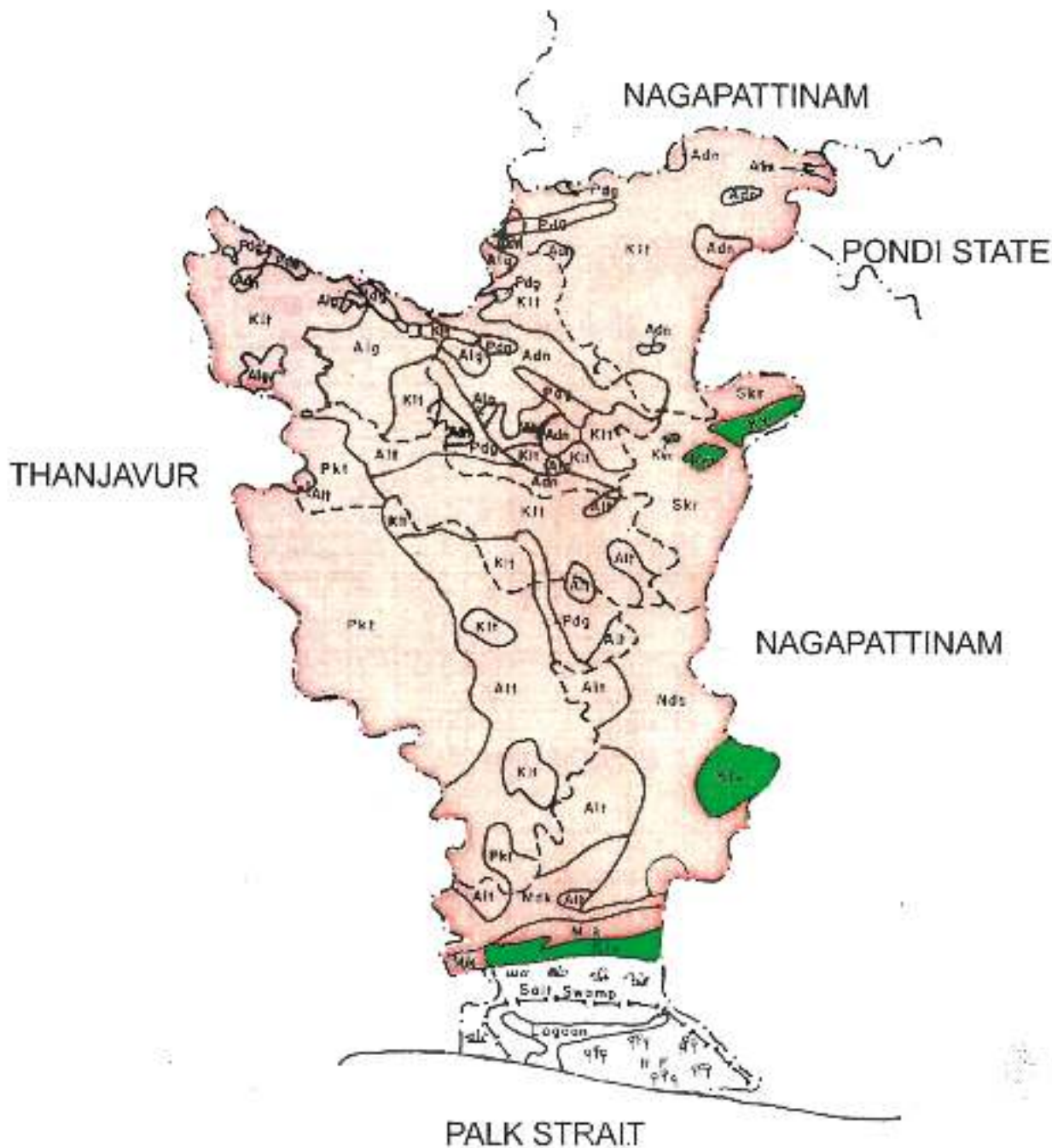
THIRUVARUR DISTRICT

Salinity category	Soil series	Extent (ha)	% to total
Saline	Kallivayal and Kivalur	3,727	1.9
Non - Saline	Padugai, Melkadu, Adhanur, Madukkur, Pattukkottai, Kalathur, Sikar, Alangudi, Alangudi - Alkaline, Alathur, Sethi and Nedumbalam.	1,97,042	98.1
Total		2,00,769	100.0



SALINITY

THIRUVARUR DISTRICT



LEGEND



SALINE



NON - SALINE

SOIL REACTION (p^H)

THIRUVARUR DISTRICT

Category	Soil series	Extent (ha)	% to total
Slightly acidic (6.1 - 6.5)	Pattukkottai	31,568	15.7
Neutral (6.6 - 7.5)	Padugai, Adhanur and Madukkur.	23,547	11.7
Mildly alkaline (7.6 - 8.0)	Kalathur, Kivalur, Nedumbalam and Sethi.	76,750	38.3
Moderately alkaline (8.1 - 8.5)	Melkadu, Alathur, Kallivayal, Sikar, Alangudi and Alangudi - Alkaline.	68,904	34.3
Total		2,00,769	100.0

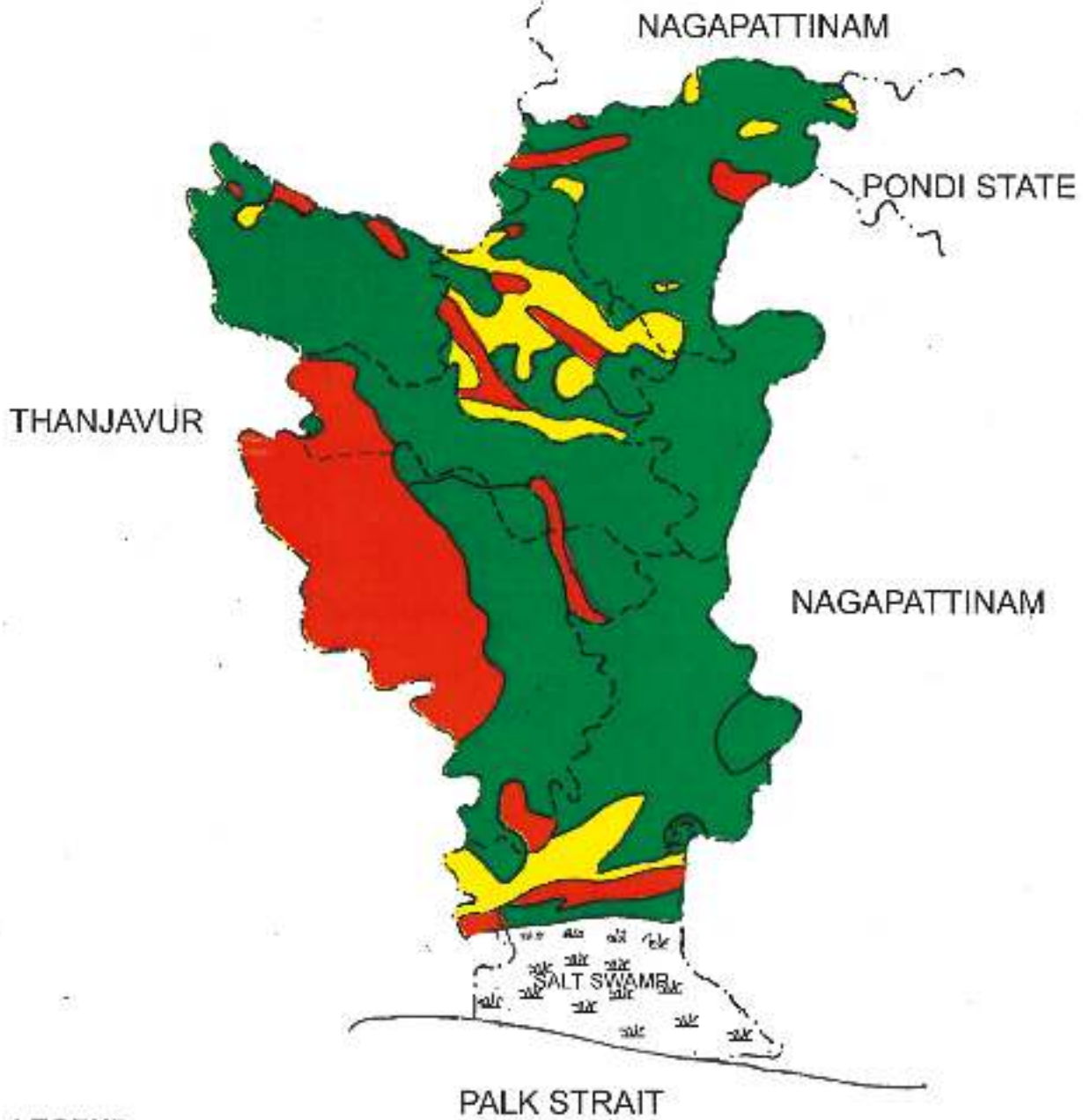
CATION EXCHANGE CAPACITY (CEC)

THIRUVARUR DISTRICT

- * Cation Exchange Capacity (CEC) of soils is mainly related to clay content, clay minerology and organic matter content. Nutrients are retained by clay and organic matter.
- * Cation Exchange Capacity (CEC) of soil has a definite bearing on the following:
 - loss of applied nutrients
 - time and method of application of fertilizers
 - fertilizer use efficiency
 - native fertility of soils.

CEC category	Soil series	Extent (ha)	% to total
Low	Pattukkottai, Melkadu, Padugai & Sethi.	47,441	23.6
Medium	Madukkur & Adhanur,	12,242	6.1
High	Kalathur, Alangudi, Nedumbalam, Sikar, Kivalur, Alathur & Kallivayal.	1,41,086	70.3
Total		2,00,769	100.00

CATION EXCHANGE CAPACITY (CEC) THIRUVARUR DISTRICT



LEGEND



LOW



MEDIUM



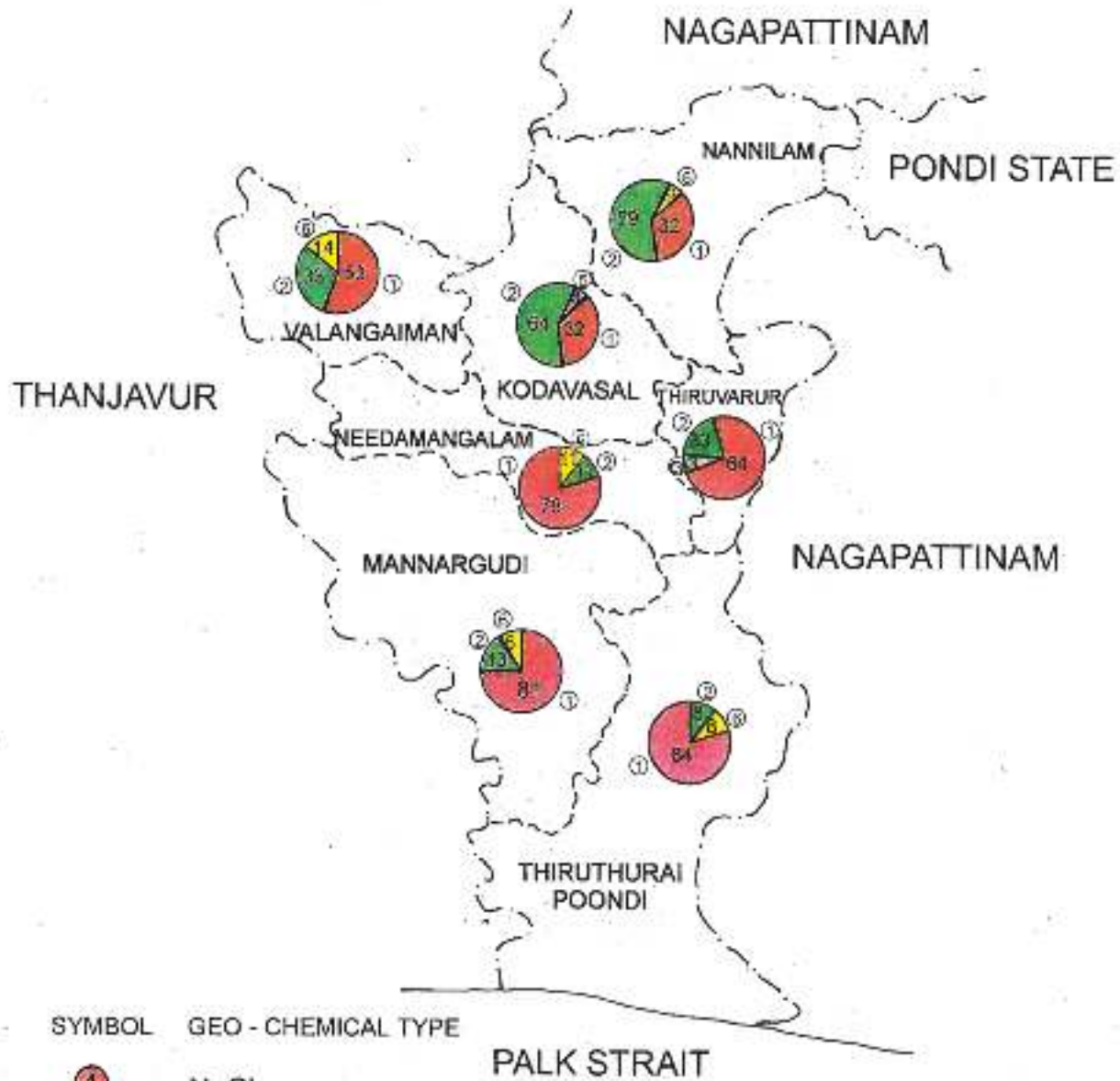
HIGH

QUALITY OF IRRIGATION WATER

THIRUVARUR DISTRICT

Sl. No.	Taluk	Geo - Chemical type (% to total)					
		NaCl	NaHCO ₃	NaCl / NaHCO ₃	MgCl ₂	Mg (HCO ₃) ₂	Others
1.	Thiruvarur	64	33	3	—	—	—
2.	Mannargudi	81	13	—	—	—	6
3.	Valangaiman	53	33	—	—	—	14
4.	Needamangalam	78	11	—	—	—	11
5.	Kodavasal	32	64	—	—	4	—
6.	Thiruthuraipoondi	84	8	—	—	—	8
7.	Nannilam	32	59	—	—	—	9

QUALITY OF IRRIGATION WATER THIRUVARUR DISTRICT



SYMBOL GEO - CHEMICAL TYPE

- ① NaCl
- ② NaHCO₃
- ③ NaCl / NaHCO₃
- ⑤ Mg (HCO₃)₂
- ⑥ Others

PALK STRAIT

SOILS

KODAVASAL TALUK

Sl. No.	Soil series	Extent (ha)	% to total
1.	Kalathur (KIt)	9,089	32.2
2.	Adhanur (Adn.)	6,698	23.7
3.	Alangudi (Alg)	4,937	17.5
4.	Padugai (Pdg)	7,507	26.6
Total		28,231	100.00

REVENUE VILLAGEWISE SOIL DISTRIBUTION
KODAVASAL TALUK
THIRUVARUR DISTRICT

Sl. No.	Village No.	Village name	Soil distribution (%)
1. Thiruveezhimazhalai firka			
1.	1	Vayalur	Klt 90, Pdg 10
2.	1/1	Vadamattam	Klt 90, Pdg 10
3.	2	Paravakkarai	Klt 100
4.	3	Thiruveezhimazhalai	Klt 60, Pdg 30, Adn 10
5.	4	Vilagam	Klt 80, Pdg 20
6.	5	Anniyur	Klt 70, Pdg 15, Adn 15
7.	6	Serukudi	Klt 100
8.	7	Vadukakudi	Klt 95, Pdg 5
9.	8	Thiruppamburam	Klt 100
10.	9	Surakkayur	Klt 100
11.	10	Killiyur	Klt 100
12.	11	Alathur	Klt 90, Alt 10
13.	12	Sarafojirajapuram	Klt 75, Pdg 25
14.	13	Vellai Adambar	Klt 100
15.	14	Vishnupuram	Klt 70, Pdg 30
16.	15	Maruthuvakkudi	Pdg 70, Klt 30
17.	16	Surguneswarapuram	Klt 90, Pdg 10
18.	17	Kadalangudi	Klt 45, Pdg 35, Adn 20
19.	18	Pudukkudi	Adn 90, Klt 10
20.	19	Kandaramanickam	Klt 85, Alg 10, Adn 5
21.	20	Koonthalur	Klt 70, Adn 30
22.	21	Manavalanallur	Klt 65, Pdg 35
23.	22	Thethiyur	Klt 85, Pdg 15
24.	23	Adambarukkadai	Klt 100
25.	24	Seethakkamangalam	Klt 100

Sl. No.	Village No.	Village name	Soil distribution (%)
26.	25	Melaramansethi	Klt 95, Adn 5
27.	26	Pradhabaramapuram	Adn 95, Klt 5
28.	27	Puliyancheri	Klt 80, Adn 20
29.	28	Vikkrapandiyam	Klt 100
30.	29	Sethinipuram	Klt 100
31.	30	Thiruvidachery	Klt 85, Adn 15
32.	31	Paruthiyur	Klt 70, Alg 20, Adn 10
33.	32	Sithadi	Klt 55, Alg 45
34.	33	Adippuliyur	Klt 40, Alg 20, Pdg 20, Adn 20
35.	34	Serukalathur	Klt 60, Pdg 40
36.	35	Vadaver	Klt 100
37.	41	Sengalipuram	Klt 65, Adn 35
38.	42	Annavasal	Adn 100
39.	43	Perumangalam	Klt 80, Adn 20
40.	44	Kodavasal	Adn 65, Klt 30, Pdg 5
41.	49	Agaraogai	Alg 50, Klt 30, Adn 20
42.	50	Arasur	Alg 60, Klt 20, Adn 20
43.	51	Manjakkudi	Adn 35, Pdg 25, Alg 25, Klt 15
44.	52	Pudukkudi	Adn 55, Pdg 45
2. Thirukkannamangai firka			
45.	30	Naranamangalam	Klt 100
46.	37	Neduncheri	Klt 100
47.	38	Neikuppai	Klt 100
48.	39	Semmangudi	Klt 65, Adn 35
49.	40	Perumpannaiyur	Adn 50, Klt 35, Pdg 15
50.	53	Simizhi	Adn 85, Pdg 15

Sl. No.	Village No.	Village name	Soil distribution (%)
51.	54	Kappanamangalam	Adn 75, Pdg 15, Alg 10
52.	55	Enkan	Adn 50, Pdg 50
53.	56	Arasavanankadu	Adn 95, Alg 5
54.	57	Deepamkudi	Klt 70, Adn 30
55.	58	Keerangudi	Klt 95, Adn 5
56.	59	Pulavanallur	Adn 60, Pdg 25, Klt 15
57.	60	Manakkal	Adn 40, Alg 30, Pdg 25, Klt 5
58.	61	Ammaiyappan	Klt 40, Pdg 30, Adn 30
59.	62	Vadakandam	Adn 75, Pdg 25
60.	63	Thirukkannamangal	Adn 75, Pdg 25
61.	64	Agarathirunallur	Adn 60, Pdg 35, Klt 5
62.	65	Kattur	Pdg 40, Klt 35, Adn 25
63.	66	Ilavankarkudi	Adn 15, Klt 40, Pdg 35, Alg 10
64.	70	Karaiyapalaiyur	Adn 70, Pdg 30
65.	71	Neikuppai	Adn 70, Pdg 30
3. Koradacheri firka			
66.	45	Manapparavai	Klt 45, Pdg 35, Adn 20
67.	46	Aladikkaruppur	Klt 40, Alg 35, Pdg 25
68.	47	Melappalaiyur	Klt 40, Alg 35, Pdg 25
69.	48	Thirukkudi	Alg 90, Klt 10
70.	72	Keezhapalaiyur	Adn 90, Alg 10
71.	73	Uthirankudi	Alg 70, Adn 30
72.	74	Elaiyur	Adn 60, Alg 30, Pdg 10
73.	75	Thirukkalampur	Pdg 45, Adn 40, Alg 15
74.	76	Sellur	Adn 55, Alg 45
75.	77	Melaathichamangalam	Adn 95, Alg 5
76.	78	Arpar	Adn 80, Pdg 15, Alg 5

Sl. No.	Village No.	Village name	Soil distribution (%)
77.	79	Valavanallur	Alg 50, Adn 30, Pdg 20
78.	80	Abivirutheeswaram	Adn 60, Pdg 25, Alg 15
79.	81	Kamugakudi	Adn 50, Klt 30, Pdg 20
80.	82	Viswanathapuram	Adn 60, Pdg 25, Alg 15
81.	83	Paththoor	Pdg 55, Alg 45
82.	84	Mangudi	Adn 45, Pdg 25, Alg 30
83.	92	Kalathur	Adn 75, Pdg 20, Alg 5
84.	93	Thiruvidadasal	Pdg 55, Adn 45
4. Kulikkarai firka			
85.	67	Aanaivadapathi	Klt 75, Alg 20, Adn 5
86.	68	Kavanur	Pdg 50, Adn 40, Klt 10
87.	69	Aaikudi	Adn 50, Alg 35, Pdg 15
88.	85	Oorkudi	Adn 45, Alg 35, Pdg 20
89.	86	Krishnankottagam	Adn 75, Alg 25
90.	87	Athicholamangalam	Alg 100
91.	88	Nattuvarakkudi	Adn 70, Alg 30
92.	89	Melathirumathikkunnam	Adn 95, Alg 5
93.	90	Nalil ondru	Alg 80, Adn 10, Klt 10
94.	91	Perumalagaram	Alg 50, Adn 35, Pdg 15
95.	94	Musiriyam	Klt 75, Alg 5, Pdg 20
96.	95	Thittanimuttam	Pdg 65, Adn 35
97.	96	Idaiyapuram	Pdg 65, Adn 35
98.	97	Kankoduthavanitham	Alg 50, Klt 50
99.	98	Melaradhanallur	Adn 95, Klt 5
100.	99	Erukkattur	Klt 75, Adn 25
101.	100	Paruthiyur	Klt 90, Alg 10
102.	101	Thiyagarajapuram	Klt 75, Adn 25
103.	102	Kamalapuram	Klt 75, Adn 20, Alg 5
104.	103	Kulikkarai	Alg 60, Klt 25, Pdg 15
105.	104	Perunatharakkudi	Alg 80, Pdg 10, Klt 10
106.	105	Devarkandanallur	Alg 35, Klt 35, Pdg 30

FERTILITY INDICES FOR THE VILLAGES IN KODAVASAL TALUK

THIRUVARUR DISTRICT

Sl. No.	Village No.	Name of village	Fertility Indices (Kg/ac)		
			N	P ₂ O ₅	K ₂ O
1.	1	Vayalur	49	38	366
2.	3	Thiruvizhimazhalai	49	58	121
3.	5	Anniyur	49	67	77
4.	11	Alathur	49	46	155
5.	15	Maruthuvakkudi	57	113	577
6.	16	Surguneswarapuram	49	93	639
7.	20	Koonthalur	49	35	69
8.	21	Manavalanallur	49	41	160
9.	22	Thethiyur	49	33	184
10.	17	Kadalangudi	49	122	24
11.	19	Kandaramanickam	49	13	76
12.	29	Sethinipuram	49	56	273
13.	30	Thiruvidadcheri	49	88	324
14.	35	Vadaver	49	69	233
15.	41	Sengalipuram	113	15	200
16.	44	Kodavasal	51	43	219
17.	49	Agaraogai	49	67	295
18.	37	Neduncheri	65	207	183
19.	39	Semmangudi	57	29	124
20.	53	Simizhi	57	47	226
21.	55	Engan	61	44	81

Sl. No.	Village No.	Name of village	Fertility Indices (Kg/ac)		
			N	P ₂ O ₅	K ₂ O
22.	57	Deepamkudi	49	66	119
23.	60	Manakkal	61	285	353
24.	62	Vadakandam	57	17	552
25.	63	Thirukkannamangai	57	32	198
26.	65	Kattur	49	105	383
27.	70	Karaiyapalaiyur	57	189	378
28.	75	Thirukkalampur	57	11	528
29.	78	Arpar	57	10	85
30.	83	Paththoor	57	47	148
31.	92	Kalathur	57	34	276
32.	93	Thiruvudavasal	57	28	316
33.	67	Annaivadapathi	49	213	257
34.	68	Kavanur	65	135	140
35.	87	Athicholamangalam	49	58	77
36.	95	Thittanimuttam	57	223	148
37.	97	Kannkoduthavanithan	49	14	155
38.	98	Melarathanallur	57	62	149
39.	99	Erukkattur	49	49	233
40.	100	Paruthiyur	49	96	152
41.	102	Kamalapuram	49	69	238
42.	103	Kulikkurai	49	28	48
43.	104	Perunatharakkudi	57	217	600

LAND CAPABILITY CLASSIFICATION

KODAVASAL TALUK

Sl. No.	Soil series	Class, sub-class	Extent (ha)	% to total	Soil limitations	Special needs
1.	Kalathur	II s -Lands that have moderate limitations for sustained use under agriculture	28,231	100	Heavy texture, drainage, calcareousness and alkalinity	Drainage improvement soil breeding etc.,
2.	Adhanur	II s - do -			- do -	Drainage improvement
3.	Padugai	II s - do -			Surface run off	Conservation irrigation methods
4.	Alangudi	II s - do -			Heavy texture, excess wetness, poor drainage, calcareousness and alkalinity	Drainage improvement, soil breeding etc.,
Total			28,231	100		

LAND CAPABILITY

KODAVASAL TALUK

MAYILADUTHURAI



KUMBAKONAM

NANNILAM

VALANGAIMAN

LEGEND

CLASS



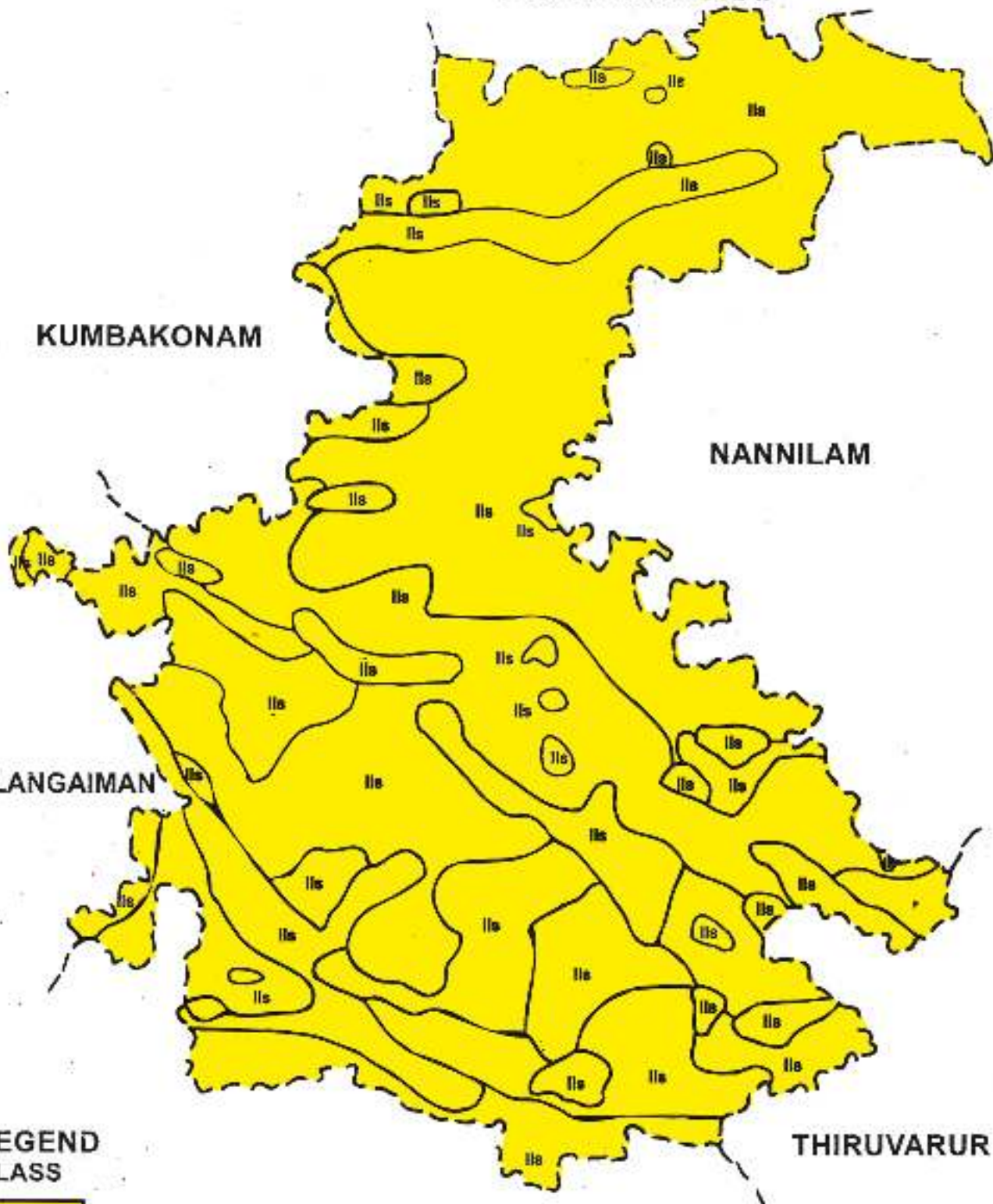
Moderate limitation

SUBCLASS

s - soil limitation

THIRUVARUR

NEEDAMANGALAM



LAND IRRIGABILITY CLASSIFICATION

KODAVASAL TALUK

Sl. No.	Soil series	Class, sub-class	Extent (ha)	% to total	Soil limitations
1.	Kalathur Adhanur Padugai Alangudi	2sd - Lands that have moderate limitations for sustained use under irrigation	28,231	100	Drainage and permeability
Total			28,231	100	

LAND IRRIGABILITY

KODAVASAL TALUK

MAYILADUTHURAI



KUMBAKONAM

NANNILAM

VALANGAIMAN

THIRUVARUR

LEGEND CLASS



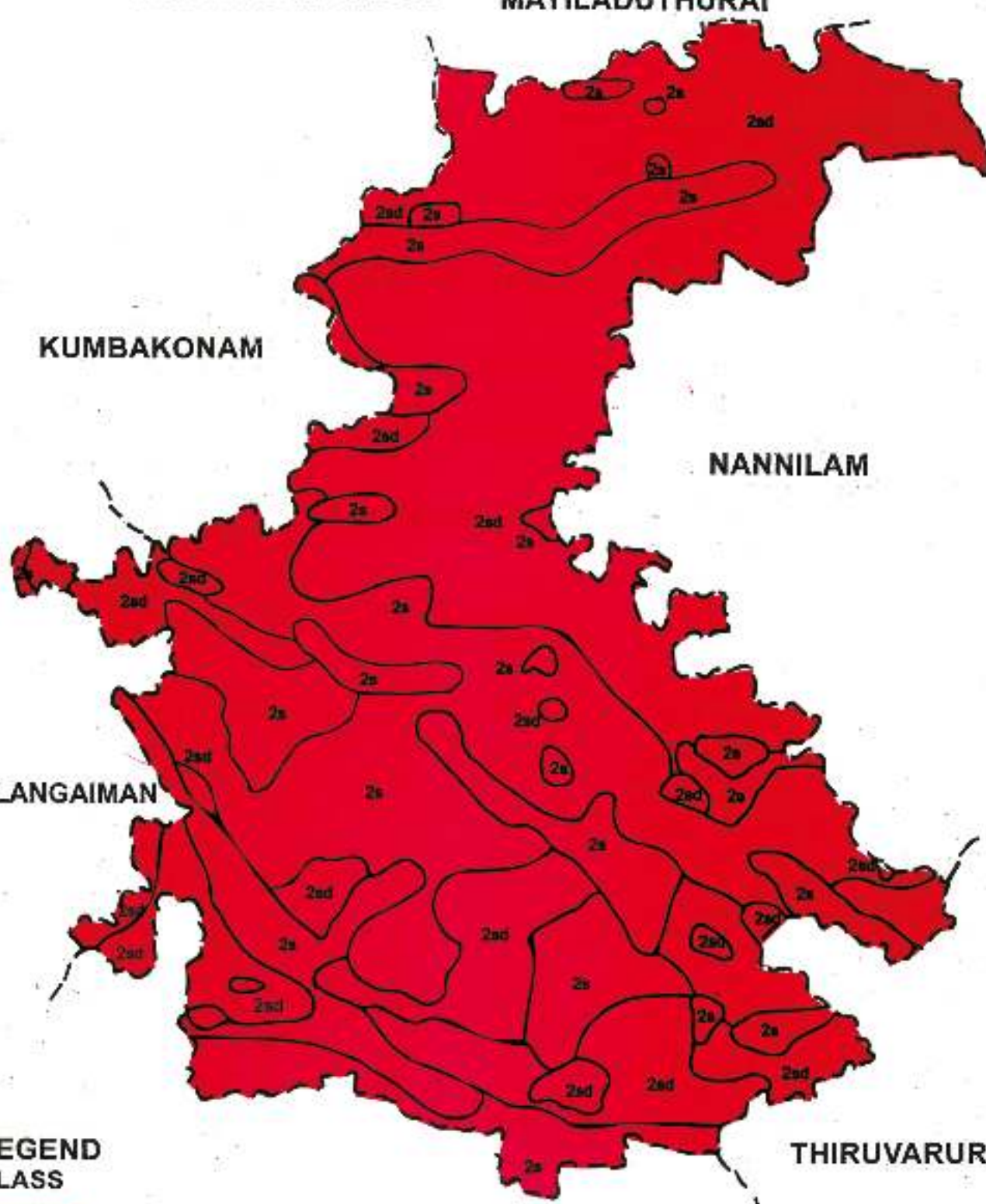
2 Moderate limitation

SUBCLASS

s - soil limitation

d - drainage limitation

NEEDAMANGALAM



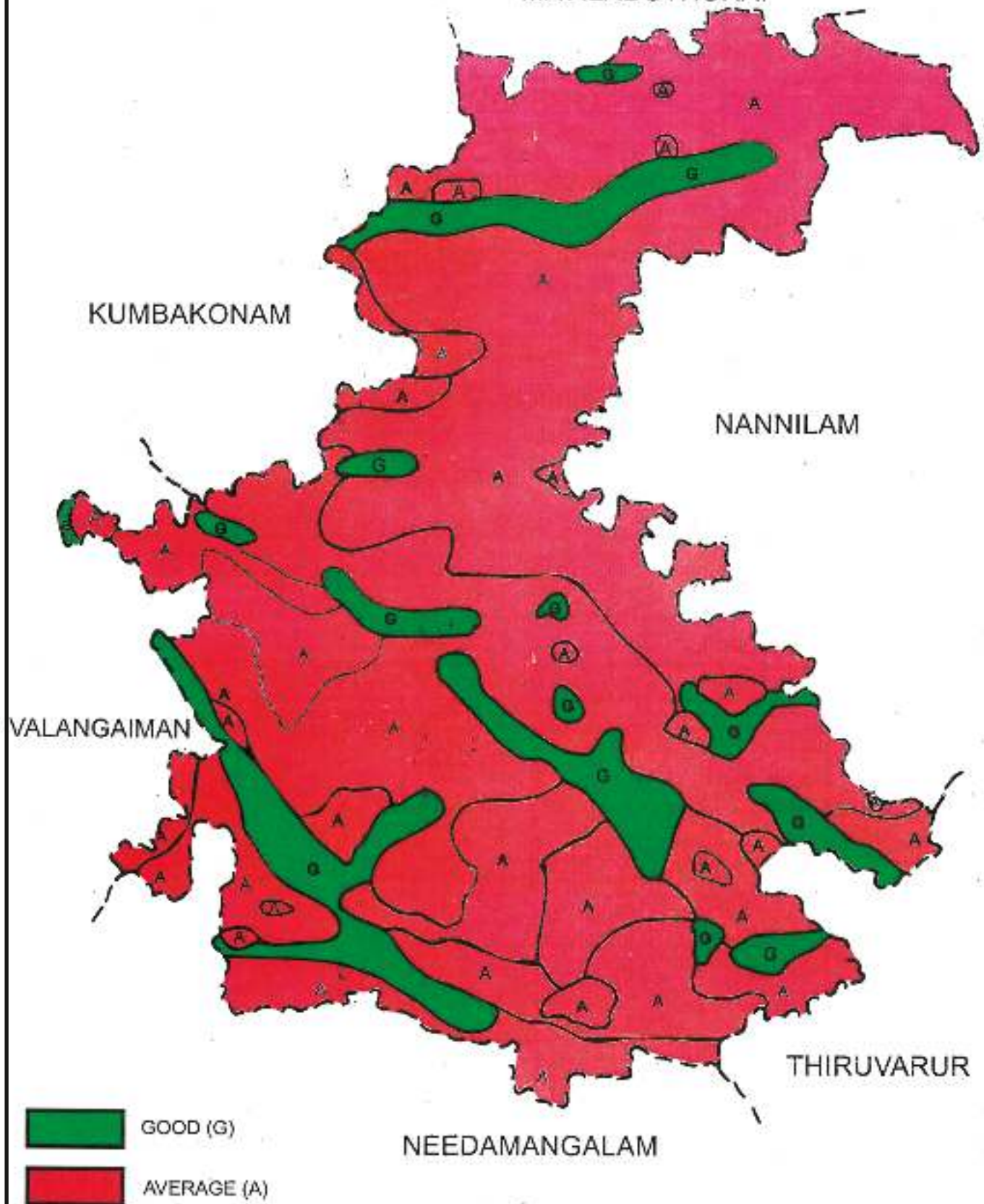
SOIL PRODUCTIVITY

KODAVASAL TALUK

Sl. No.	Rating	Productivity classes	Soil series	Extent (ha)	% to total
1.	20 - 34	Average (A)	Kalathur, Adhanur & Alangudi	20,724	73.4
2.	35 - 64	Good (G)	Padugai	7,507	26.6
Total				28,231	100.0

SOIL PRODUCTIVITY

KODAVASAL TALUK MAYILADUTHURAI



CROPS GROWN

KODAVASAL TALUK

Sl. No.	Crops grown		Map symbol	Soil series
	Irrigated	Rainfed		
1.	Paddy, Sugarcane & Cotton	Pulses	10	Kalathur
2.	Paddy, Sugarcane & Cotton	Pulses	10	Adhanur
3.	Paddy, Sugarcane & Cotton	Pulses	10	Alangudi
4.	Banana, Sugarcane, Vegetables, Flowers & Paddy	Groundnut Gingelly Eucalyptus	3	Padugai

CROPS GROWN

KODAVASAL TALUK

MAYILADUTHURAI

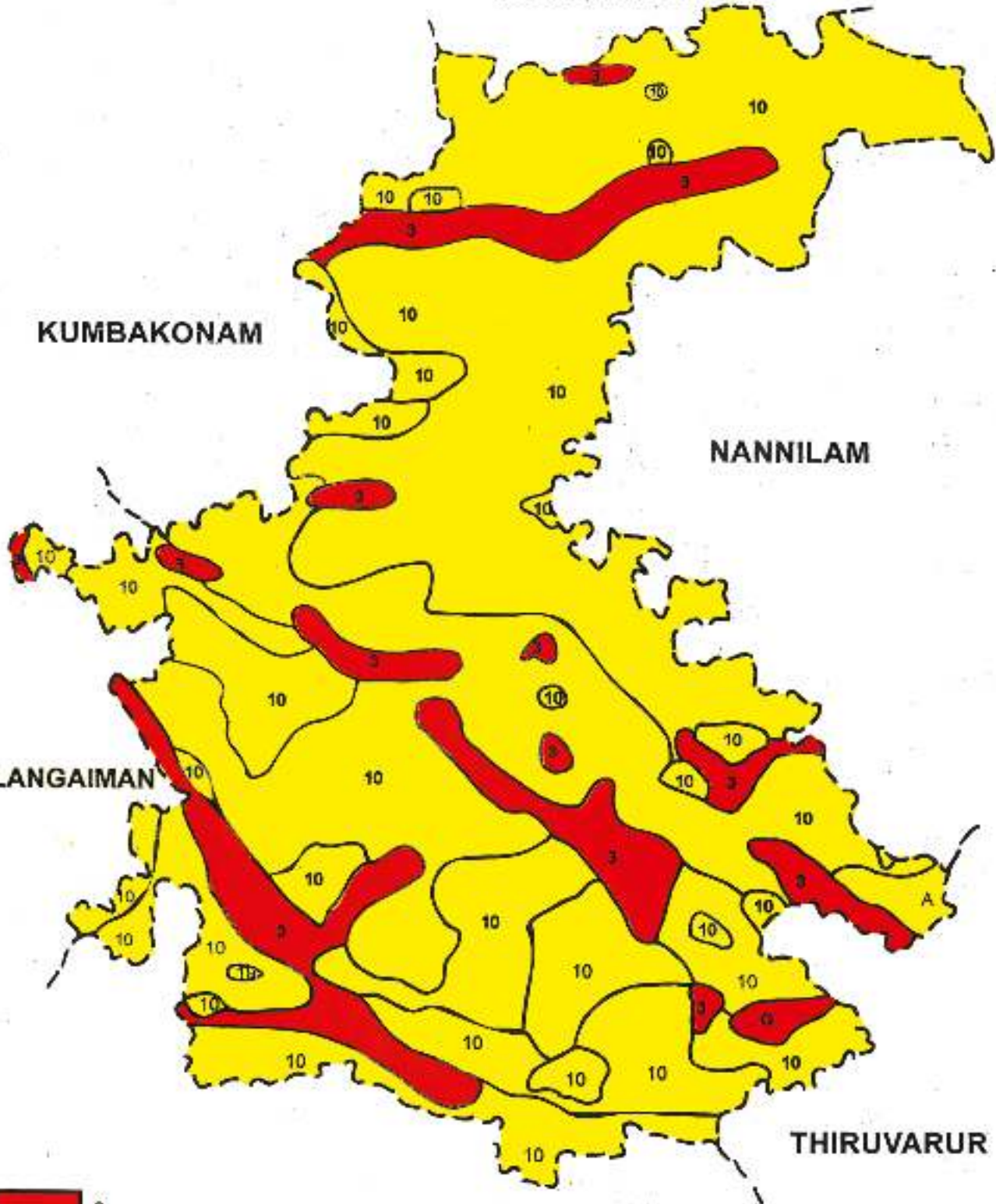
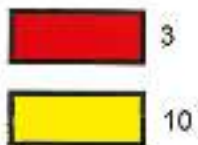
KUMBAKONAM

NANNILAM

VALANGAIMAN

THIRUVARUR

NEEDAMANGALAM



SOILS

MANNARGUDI TALUK

Sl. No.	Soil series	Extent (ha)	% to total
1.	Kalathur (Klt)	6,704	11 . 90
2.	Pattukottai (Pkt)	27,796	49 . 10
3.	Padugai (Pdg)	298	0 . 50
4.	Alathur (Alt)	21,807	38 . 50
Total		56,605	100 . 00



SOILS

MANNARGUDI TALUK

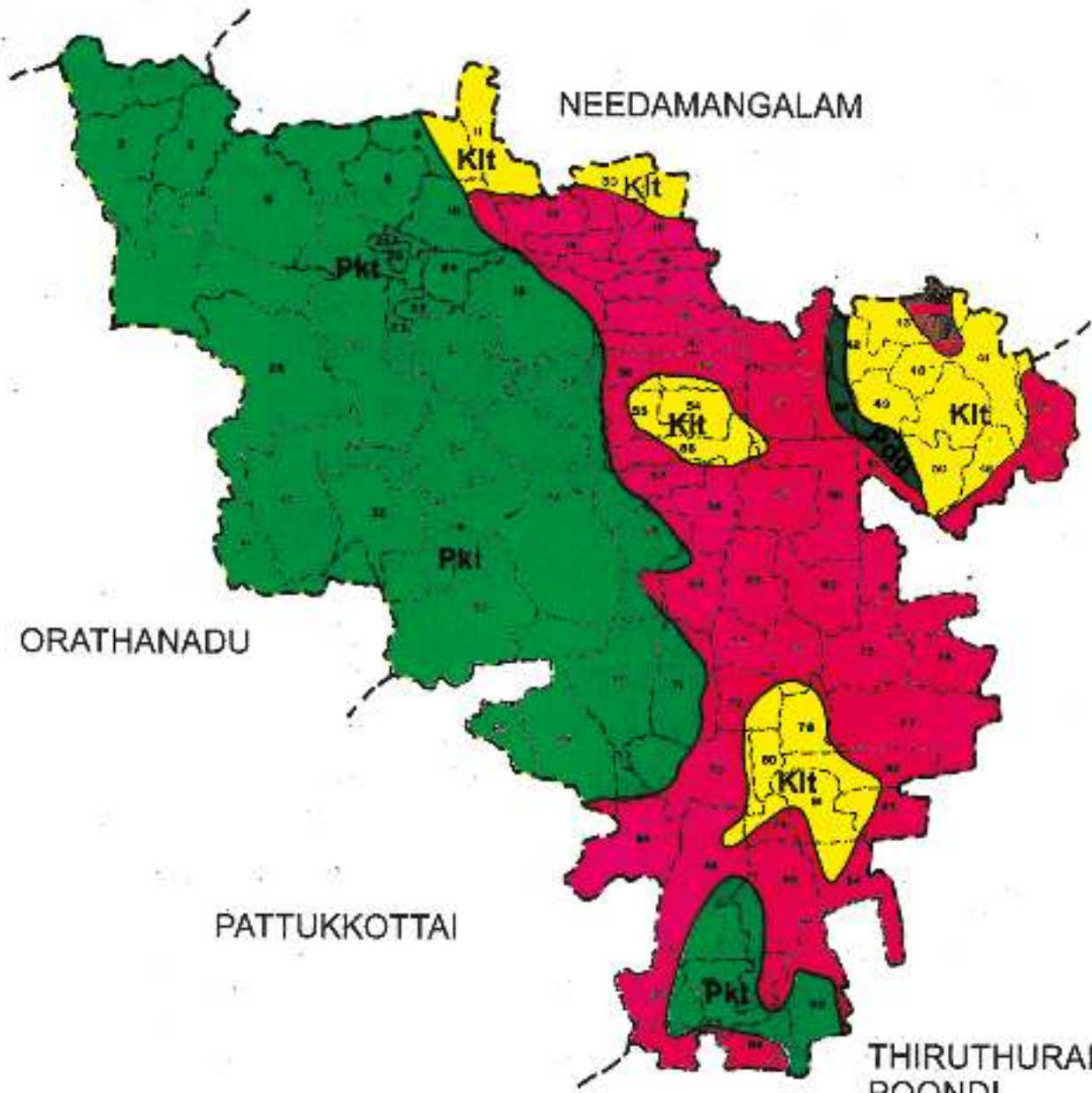
VALANGAIMAN

NEEDAMANGALAM

ORATHANADU

PATTUKKOTTAI

THIRUTHURAI
POONDI



REVENUE VILLAGEWISE SOIL DISTRIBUTION
MANNARGUDI TALUK
THIRUVARUR DISTRICT

Sl. No.	Village No.	Village name	Soil distribution (%)
1. Vaduvur firka			
1.	1	Moovarkottai	Pkt 100
2.	2	Vaduvur Vadapathi	Pkt 100
3.	3	Vaduvur Melpathi	Pkt 100
4.	4	Vaduvur Agraharam	Pkt 100
5.	5	Vaduvur Thenpathi Part I	Pkt 100
6.	6	Vaduvur Thenpathi part II	Pkt 100
7.	5 - 1	Karakottai	Pkt 100
8.	6	Edamelaiyur Part I	Pkt 100
9.	6	Edamelaiyur Part II	Pkt 100
10.	6	Edamelaiyur Part III	Pkt 100
11.	7	Edakeelaiyur Part I	Pkt 100
12.	7	Edakeelaiyur Part II	Pkt 100
13.	27	Sirumangalam - 1	Pkt 100
14.	27	Sirumangalam - 2	Pkt 100
15.	27 - 1	Attikkottai	Pkt 100
16.	28	Peraiyur Part - 1	Pkt 100
17.	28	Peraiyur Part - 2	Pkt 100
18.	28	Peraiyur Part - 3	Pkt 100
19.	28	Peraiyur Part - 4	Pkt 100
2. Mannargudi firka			
20.	8	Paruthikkottai	Pkt 100
21.	10 - 3	Rasalikkudikadu	Pkt 75, Alt 25
22.	9	Kalanchi Medu	Kit 55, Pkt 45
23.	10	Moovanallur	Pkt 60, Alt 30, Kit 10

Sl. No.	Village No.	Village name	Soil distribution (%)
24.	10 - 1	Andikkulam	Pkt 75, Alt 20
25.	10 - 2	Melavasal Narasimmachari	Pkt 75, Alt 20, Klt 5
26.	11	Vadakaravayal	Klt 85, Alt 15
27.	12	Pamani	Alt 95, Alt 5
28.	13	Karnavur	Klt 55, Pkt 45
29.	14	Aravathur	Alt 95, Klt 5
30.	15	Savalakkaran	Alt 65, Pkt 35
31.	16	Ramapuram	Alt 100
32.	17	Kailasanathar koil	Alt 100
33.	18	Muthal shethi	Alt 100
34.	19	Mannargudi	Town
35.	19 - 1	Neelakanda Kade Rao Thottam	Pkt 100
36.	19 - 2	Bikagi Madike Rao Thottam	Pkt 100
37.	19 - 3	Jamal sahib Thottam	Pkt 100
38.	19 - 4	Semmangulam	Pkt 100
39.	19 - 5	Rengamavuthan Thottam	Pkt 100
40.	20	Gopralayam	Pkt 100
41.	21	Neduvakkottai	Pkt 100
42.	22	Kumarapuram	Pkt 100
43.	23	Karikkottai	Pkt 100
44.	24	Melavasal	Pkt 100
45.	24 - 1	Kakiyakka Thottam	Pkt 100
46.	24 - 2	Melvasal Municipal Limit	Pkt 100
47.	25	Kallarampethi	Pkt 100
48.	26	Idayarampethi	Pkt 100
49.	27	Asesam	Pkt 100

Sl. No.	Village No.	Village name	Soil distribution(%)
3. Ullikottai firka			
50.	29	Nemmell	Klt 85, Alt 15
51.	30	Karuvakurichi Part I	Pkt 100
52.	30	Karuvakurichi Part II	Pkt 100
53.	31	Thanikottai	Pkt 100
54.	32	Mahadevapattinam Part I	Pkt 100
55.	32	Mahadevapattinam Part II	Pkt 100
56.	33	Thiruppalakudi Part I	Pkt 100
57.	33	Thiruppalakudi Part II	Pkt 100
58.	33	Thiruppalakudi Part III	Pkt 100
59.	34	Ullikottai Part I	Pkt 100
60.	34	Ullikottai Part II	Pkt 100
61.	35	Koopachikottai	Pkt 100
62.	35 - 1	Rasambalpuram	Pkt 100
63.	35 - 2	Paravakkottai Part I	Pkt 100
64.	35 - 2	Paravakkottai Part II	Pkt 100
65.	36	Painganadu	Pkt 100
66.	36 - 1	Thulasendirapuram	Pkt 100
67.	36 - 2	Sundarakottai	Pkt 100
68.	36 - 3	Edayanatham	Pkt 100
4. Thalaiyamangalam firka			
69.	38	Serankulam	Alt 80, Klt 20
70.	39	Nalamsethi	Alt 75, Klt 25
71.	40	Moonamsethi	Alt 100
72.	54	Nemmeli	Klt 80 Alt 20
73.	55	Maravakadu	Klt 55 Alt 45
74.	56	Vadapathi	Klt 55 Alt 45
75.	57	Thenpathi	Alt 60 Pkt 40
76.	58	Ethakudi	Alt 90 Pkt 10
77.	64	Kurichi	Alt 90, Pkt 10

Sl. No.	Village No.	Village name	Soil distribution (%)
78.	65	Thalaiyamangalam	Pkt 70, Alt 30
79.	66	Vallur	Pkt 100
80.	66 - 1	Radhanarasimmapuram	Pkt 100
81.	67	Thirumakottai Part I	Pkt 90, Alt 10
82.	67	Thirumakottai Part II	Pkt 90, Alt 10
83.	68	Melanatham	Pkt 100
84.	69	Elavanoor	Alt 80, Pkt 20
85.	70 - 1	Palayakottai - Parasapuram	Alt 100
86.	71	Thenparai	Pkt 75, Alt 25
87.	72	Keluvathur	Alt 65, Klt 35
88.	73	Orathur	Alt 100
89.	74	Nallur	Alt 85, Klt 15

5. Kottur firka

90.	41	Mazhavarayanallur	Alt 85, Pdg 15
91.	42	Kunniyur	Alt 86, Pdg 15
92.	43	Pallivarthy	Alt 55, Klt 45
93.	44	Vikrapandiyam	Klt 80 Alt 20
94.	45	Alathur	Alt 90, Klt 10
95.	46	Puluthikudi	Alt 65, Klt 35
96.	47	Erulneeki	Klt 100
97.	48	Sethamangalam	Klt 90, Alt 10
98.	49	Nemmeli	Klt 85 Alt 15
99.	50	Kottur	Klt 65, Pdg 25, Alt 10
100.	51	Kottur thottam	Alt 55, Pdg 45
101.	52	Athichapuram	Alt 70, Pdg 30
102.	53	Kandamangalam	Alt 95, Klt 5
103.	59	Renganathapuram	Alt 100
104.	60	Paniyur	Alt 95, Klt 5

Sl. No.	Village No.	Village name	Soil distribution(%)
105.	60 - 1	Nokkan - ukkadai	Alt 100
106.	61	Karuppu kilar	Alt 100
107.	62	Vattar	Alt 100
108.	63	Paingkattur	Alt 100
109.	75	Arkarai kottagam	Alt 95, Pkt 5
110.	76	Thirukkalar	Alt 100
6. Palaiyur firka			
111.	70	Palaiyur	Alt 60, Klt 30
112.	77	Kurichimoolai Part I	Alt 95, Klt 5
113.	77	Kurichimoolai Part II	Alt 95, Klt 5
114.	77 - 1	Narayanapuram Kalappal	Alt 95, Klt 5
115.	78	Vengathankudi	Klt 85, Alt 15
116.	79	Manamkathankottagam	Alt 80, Klt 20
117.	80	Peruvidaimarudhur	Klt 100
118.	81	Therkkun?nallur	Klt 80, Alt 20
119.	82	Naruvelikalappan	Alt 75, Klt 25
120.	83	Kulamanikkam	Alt 75, Klt 25
121.	84	Devadhanam	Alt 70, Klt 30
122.	85	Mannukkumundan	Alt 70, Klt 30
123.	86	Perugevazhdhan Part I	Alt 55, Pkt 35 Klt 10
124.	86	Peruguvazhdhan Part II	Alt 55, Pkt 35, Klt 10
125.	87	Serukalathur	Alt 60, Pkt 40
126.	88	Sithamalli	Pkt 70, Alt 30
127.	89	Nochiyur	Alt 60, Pkt 40
128.	90	Puthagaram	Pkt 55, Alt 45

FERTILITY INDICES FOR THE VILLAGES IN MANNARGUDI TALUK

THIRUVARUR DISTRICT

Sl. No.	Village No.	Name of village	Fertility Indices (Kg/ac)		
			N	P ₂ O ₅	K ₂ O
1.	2	Vaduvur Vadapathi	57	01	255
2.	5	Vaduvur Thenpathi Part - I	53	39	145
3.	5-1	Karakottai	57	90	200
4.	6	Edamelaiyur Part - I	57	71	59
5.	7	Edakeelaiyur Part - I	53	120	546
6.	27	Serumangalam - I	53	29	64
7.	27 - 1	Attikkottai	57	235	422
8.	10	Moovanallur	53	28	91
9.	13	Karnavur	53	111	196
10.	14	Aravathur	57	130	145

Sl. No.	Village No.	Name of village	Fertility Indices (Kg/ac)		
			N	P ₂ O ₅	K ₂ O
11.	16	Ramapuram	57	78	179
12.	17	Kailasanathar koil	53	24	86
13.	18	Muthalsetti	61	26	120
14.	23	Karikkottai	57	146	230
15.	30	Karuvakurichi Part - I	57	38	133
16.	31	Thanikottai	57	71	244
17.	32	Mahadevapattinam Part - I	53	70	31
18.	33	Thiruppalakudi Part - I	57	85	155
19.	34	Ullikottai Part - I	53	24	93
20.	35	Koopachikottai	45	41	248
21.	35 - 2	Paravakkottai Part - I	53	59	247
22.	36 - 1	Thulasendirapuram	61	66	41
23.	36 - 2	Sundarakottai	53	100	57
24.	36 - 3	Edayanatham	53	28	255
25.	38	Serankulam	53	40	122

Sl. No.	Village No.	Name of village	Fertility Indices (Kg/ac)		
			N	P ₂ O ₅	K ₂ O
26.	56	Vadapathi	49	23	133
27.	64	Kurichi	57	38	190
28.	65	Thalayamangalam	53	37	289
29.	67	Thirumakkottai Part - I	45	55	71
30.	67	Thirumakkottai Part - II	45	17	125
31.	73	Orathur	57	37	178
32.	74	Nallur	57	30	84
33.	41	Mazhavarayanallur	53	75	173
34.	46	Pulithikudi	53	21	176
35.	52	Athichapuram	53	50	94
36.	59	Renganathapuram	53	81	83
37.	62	Vattar	53	64	160
38.	70	Palaiyur	53	71	180
39.	84	Devadhanam	57	162	403
40.	88	Sithamalli	53	64	123

LAND CAPABILITY CLASSIFICATION

MANNARGUDI TALUK

Sl. No.	Soil Series	Class, sub-class	Extent (ha)	% to total	Soil limitations	Special needs
1.	Kalathur	II s - Lands that have moderate limitations for sustained use under agriculture.	6,704	11.9	Heavy texture, drainage, calcareousness and alkalinity	Drainage improvement and soil breeding
2.	Pattukkottai	II es. - do -	28,094	49.6	Erosion, surface run off	Conservation irrigation methods soil breeding etc.,
3.	Padugai	II es. - do -			Surface run off	-do-
4.	Alathur	II sw. - do -	21,807	38.5	Heavy texture, drainage problems, salinity / alkalinity	Cultivation of suitable crops, drainage improvement.
		Total	56,605	100		

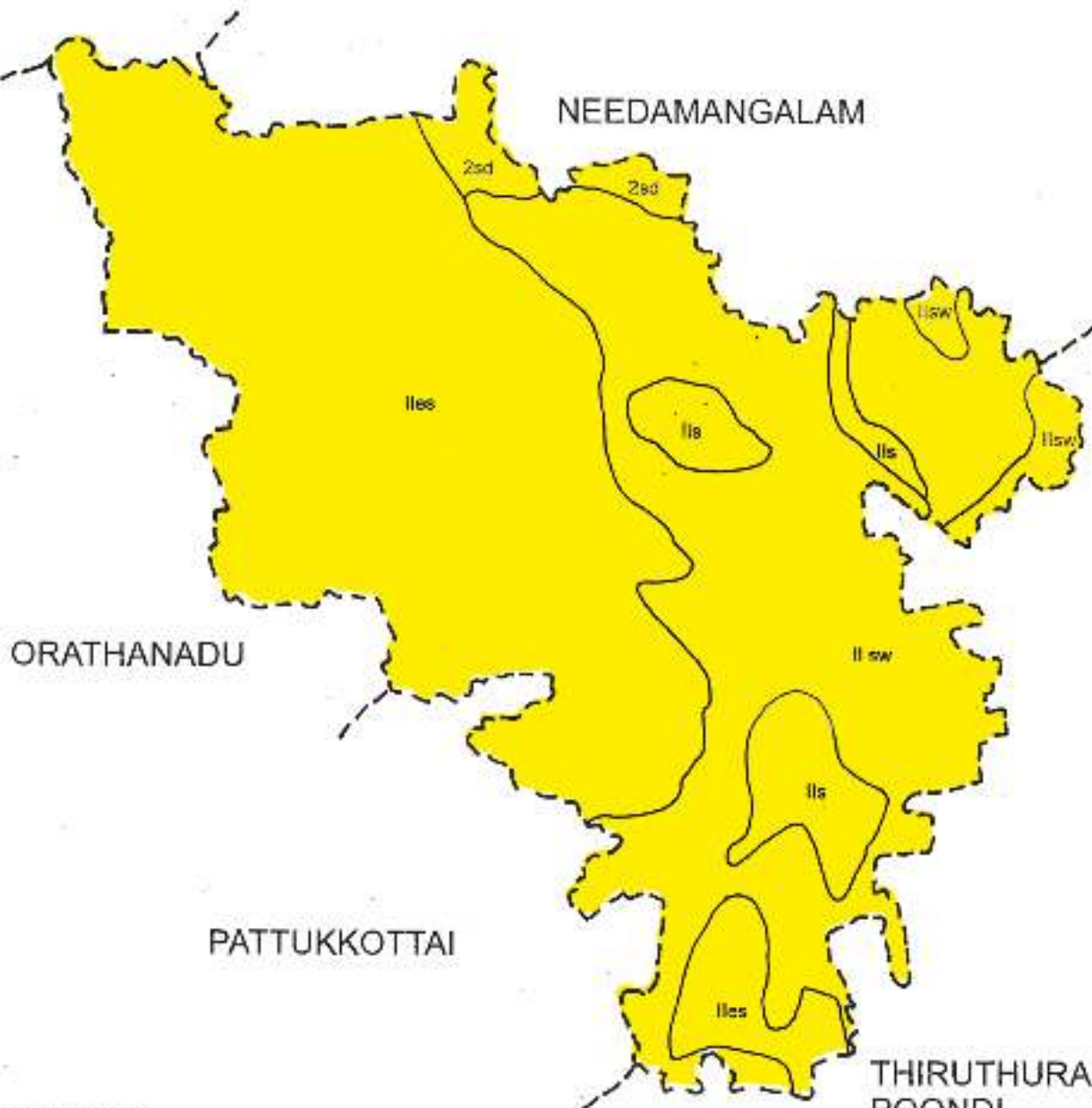


LAND CAPABILITY

MANNARGUDI TALUK

VALANGAIMAN

NEEDAMANGALAM



LEGEND

CLASS

 II Moderate limitation

SUBCLASS

s - soil limitation

e - erosion limitation

w - wetness limitation

LAND IRRIGABILITY CLASSIFICATION

MANNARGUDI TALUK

Sl. No.	Soil series	Class, sub-class	Extent (ha)	% to total	Soil limitations
1.	Kalathur & Alathur	2sd - Lands that have moderate limitations for sustained use under irrigation.	28,511	50.4	Drainage & permeability
2.	Pattukkottai & Padugai	2st - Lands that have moderate limitations for sustained use under irrigation.	28,094	49.6	Topography & erosion
Total			56,605	100	



LAND IRRIGABILITY

MANNARGUDI TALUK

VALANGAIMAN

NEEDAMANGALAM

ORATHANADU

PATTUKKOTTAI

THIRUTHURAI
POONDI

LEGEND

CLASS

 2 - Moderate limitation

SUBCLASS

s - soil limitation

t - topography limitation

d - drainage limitation



SOIL PRODUCTIVITY

MANNARGUDI TALUK

Sl. No.	Rating	Productivity classes	Soil series	Extent (ha)	% to total
1.	8-19	Poor (P)	Alathur	21,807	38.5
2.	20-34	Average (A)	Kalathur	34,500	61.0
3.	20-34	Average (A)	Pattukkottai		
4.	35-64	Good (G)	Padugai	298	0.5
			Total	56,605	100.0



SOIL PRODUCTIVITY

MANNARGURI TALUK

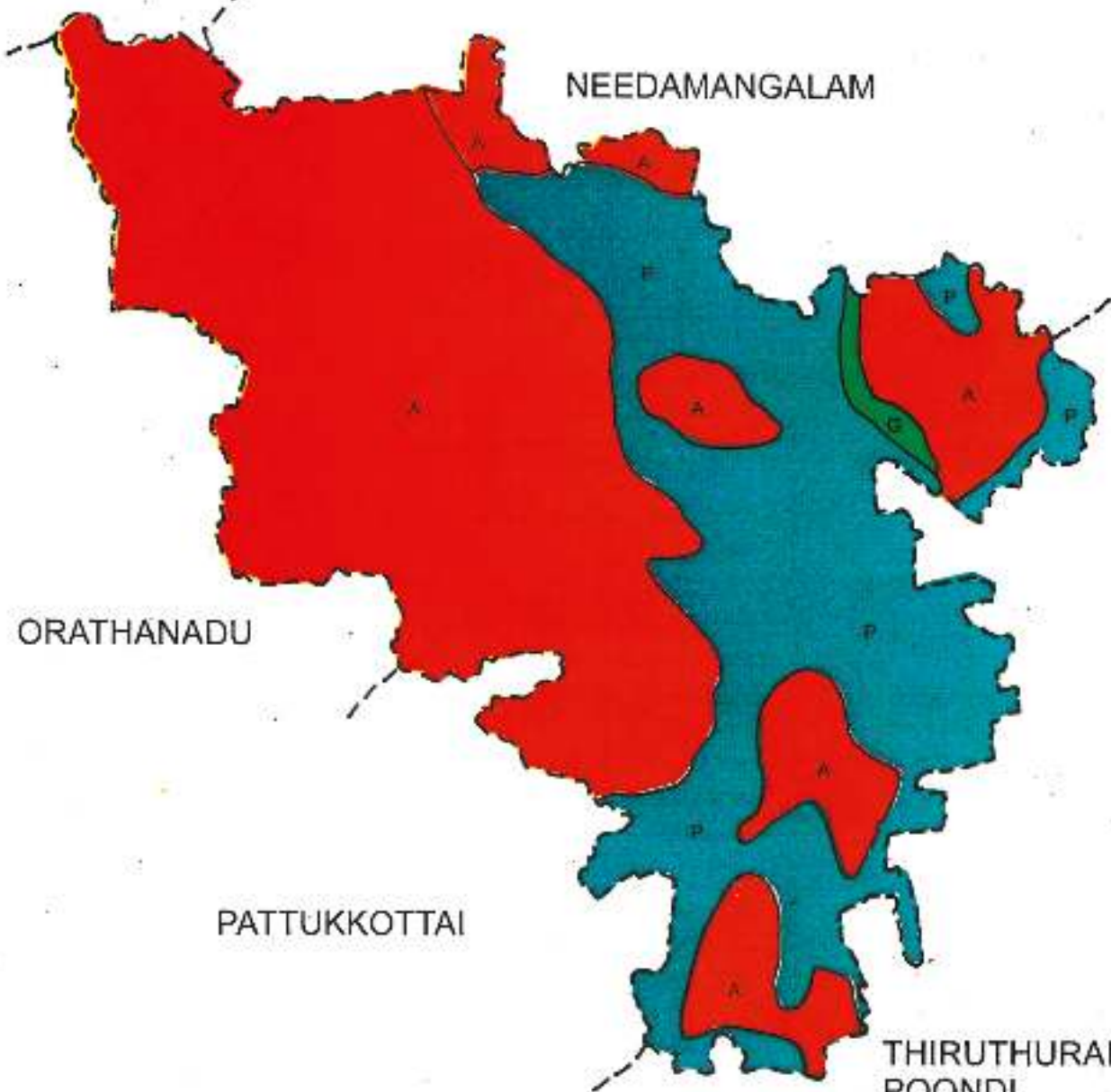
VALANGAIMAN

NEEDAMANGALAM

ORATHANADU

PATTUKKOTTAI

THIRUTHURAI
POONDI



CROPS GROWN

MANNARGUDI TALUK

Sl. No.	Crops grown		Map symbol	Soil series
	Irrigated	Rainfed		
1.	Paddy, Sugarcane & Cotton.	Pulses	10	Kalathur
2.	Groundnut, Gingelly, Vegetables & Chillies.	Groundnut, Coconut, Fruit tres, Eucalyptus & Casuarina.	7	Pattukkottai
3.	Banana, Sugarcane, Vegetables, Flowers & Paddy.	Groundnut, Gingelly & Eucalyptus.	3	Padugai
4.	Paddy	—	5	Alathur



CROPS GROWN

MANNARGUDI TALUK

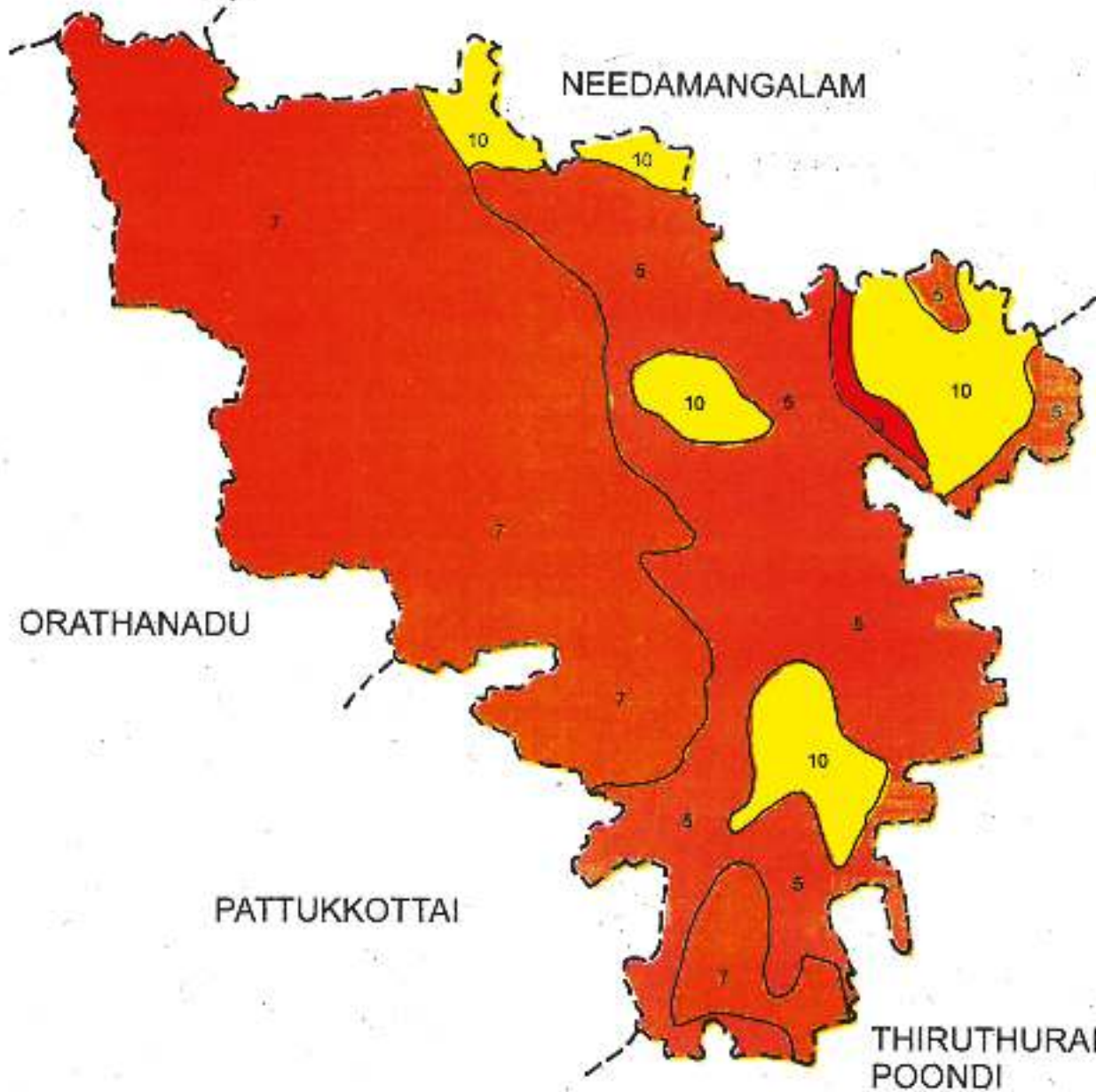
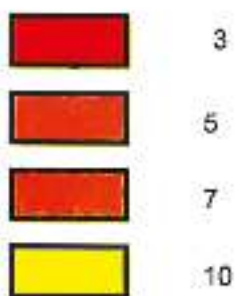
VALANGAIMAN

NEEDAMANGALAM

ORATHANADU

PATTUKKOTTAI

THIRUTHURAI
POONDI

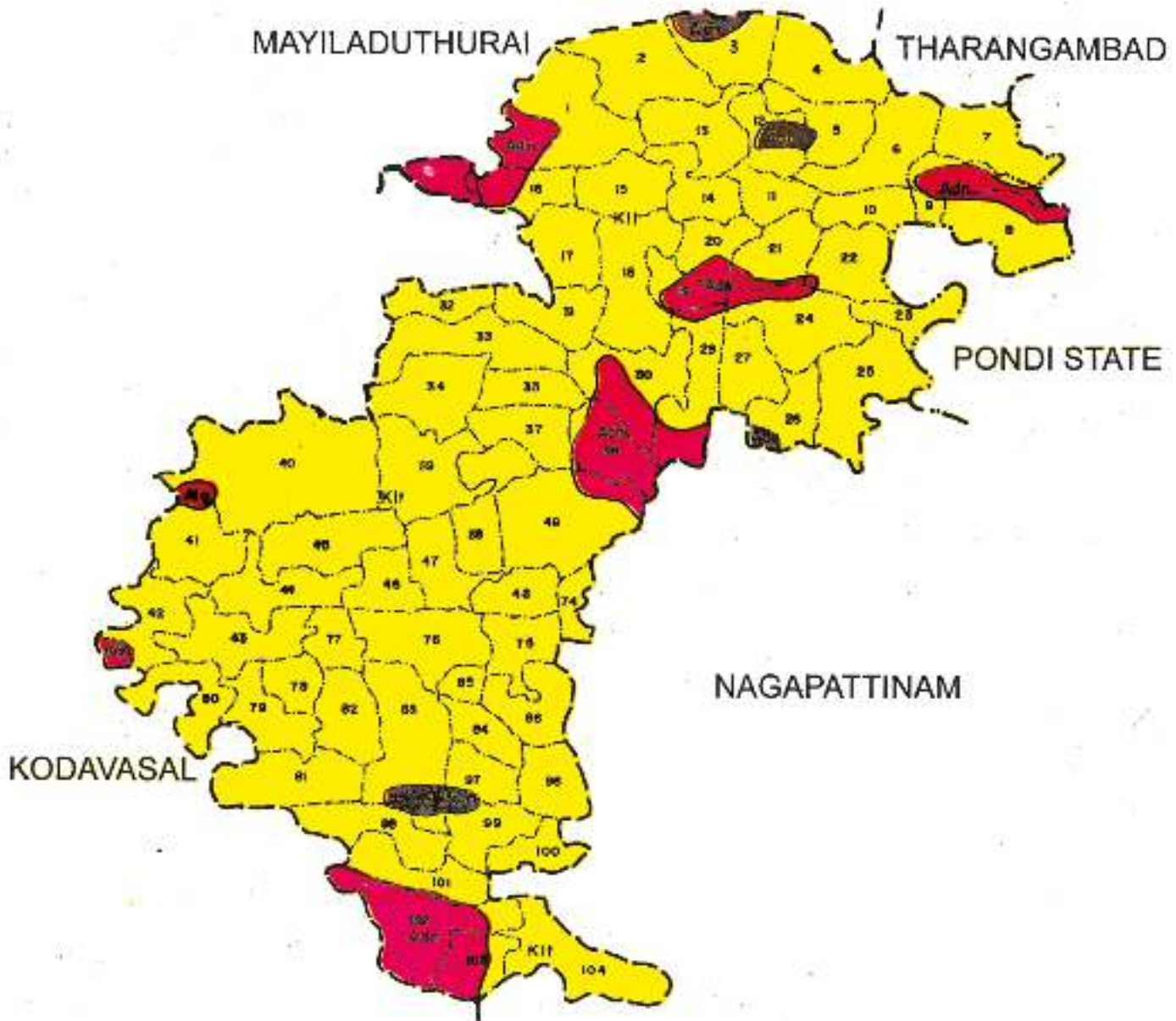


SOILS**NANNILAM TALUK**

Sl. No.	Soil series	Extent (ha)	% to total
1.	Kalathur (Klt)	21,653	88.2
2.	Adhanur (Adn)	2,107	8.60
3.	Alangudi (Alg)	73	0.3
4.	Padugai (Pdg)	727	2.9
Total		24,560	100.0

SOILS

NANNILAM TALUK



REVENUE VILLAGE WISE SOIL DISTRIBUTION
NANNILAM TALUK
THIRUVARUR DISTRICT

Sl. No.	Village No.	Village name	Soil distribution (%)		
1. Peralam firka					
1.	1	Pillur	Klt 70,	Adn 30	
2.	1 - 1	Kollumangudi	Klt 100		
3.	2	Keeranoor	Klt 100		
4.	3	Keeranoor	Klt 70,	Adn 30	
5.	4	Annathanapuram	Klt 100		
6.	5	Kaliyakudi	Klt 95,	Adn 5	
7.	6	Nedungulam	Klt 100		
8.	7	Mukundanur	Klt 100		
9.	8	Thirukkottaram	Klt 80,	Adn 20	
10.	9	Velangudi	Adn 90,	Klt 10	
11.	10	Kadagam	Klt 100		
12.	11	Thalaiyur	Klt 100		
13.	12	Pavattakudi	Klt 70,	Adn 30	
14.	13	Sirupuliyur	Klt 100		
15.	14	Panangadangudi	Klt 100		
16.	15	Kadurangudi	Klt 100		
17.	16	Pozhakudi	Klt 60,	Adn 40	
18.	17	Thirunaichur	Klt 80,	Alg 20	
19.	18	Peralam	Klt 100		
20.	19	Pandaravadai	Adn 70,	Klt 30	
2. Agarathirumalam firka					
21.	20	Kottur	Adn 55,	Klt 25	Pdg 20
22.	21	Kurungulam	Klt 70,	Adn 30	
23.	22	Kollapuram	Klt 95,	Adn 5	
24.	23	Kumarakudi	Klt 100		
25.	24	Menankudi	Klt 95,	Adn 5	

Sl. No.	Village No.	Village name	Soil distribution (%)
26.	25	Upayavedhanthapuram	Klt 95, Adn 5
27.	26	Rettaikudi	Klt 80, Adn 20
28.	27	Sembiyanallore	Klt 90, Adn 10
29.	29	Koilthirumalam	Klt 80, Adn 20
30.	30	Agarathirumalam	Klt 60, Adn 40
31.	31	Maharajapuram	Klt 100
32.	32	Kadagakudi	Klt 100
33.	33	Ayyampettai	Klt 90, Pdg 10
34.	34	Maruthavancheri	Klt 100
35.	35	Koothanoore	Klt 70, Adn 30
36.	36	Kothavasal	Adn 90, Klt 10
37.	37	Seruvaloore	Klt 100
3. Nannilam firka			
38.	41	Vazhkai	Klt 85, Alg 15
39.	42	Senganoor	Klt 90, Adn 10
40.	43	Srivanjivam	Klt 100
41.	44	Achuthamangalam	Klt 100
42.	45	Vadakudi	Klt 100
43.	46	Nallamangudi	Klt 100
44.	47	Manavalanpettai	Klt 100
45.	48	Toothukudi	Klt 100
46.	76	Nannilam	Klt 100
47.	77	Keelkudi	Klt 100
48.	78	Poongulam	Klt 100
49.	79	Veethividangam	Klt 100
50.	80	Parithiyur	Klt 100

Sl. No.	Village No.	Village name	Soil distribution (%)
51.	81	Thattathimoolai	Klt 100
52.	82	Salaiperi	Klt 100
53.	83	Anaikuppam	Klt 90, Adn 10
54.	38	Alangudi	Klt 100
55.	40	Adhambar - I	Klt 95, Alg 5
56.	40	Adhambar - II	Klt 95, Alg 5
57.	39	Nemmeli	Klt 90, Alg 10
4. Sannanalore firka			
58.	49	Mudikondan	Klt 80, Adn 20
59.	74	Sannanalore	Klt 70, Adn 30
60.	75	Thirukandeeswaram	Klt 100
61.	84	Mahilancheri	Klt 100
62.	85	Moolamangalam	Klt 100
63.	96	Visaloor	Klt 100
64.	97	Kuvalaikal	Klt 85, Adn 15
65.	98	Moolangudi	Klt 100
66.	99	Moongilkudi	Klt 90, Adn 10
67.	100	Surakudi	Klt 100
68.	101	Nagakudi	Klt 95, Adn 5
69.	102	Neelakudi	Adn 85, Klt 15
70.	103	Perumpugaloor	Adn 80, Klt 20
71.	104	Vandampalai	Klt 100
72.	104 - 1	Thirupalli Mukoodal	Klt 100
73.	86	Panangudi	Klt 95, Adn 5

FERTILITY INDICES FOR THE VILLAGES IN NANNILAM TALUK

THIRUVARUR DISTRICT

Sl. No.	Village No.	Name of village	Fertility Indices (Kg/ac)		
			N	P ₂ O ₅	K ₂ O
1.	1	Pillur	49	82	82
2.	2	Keeranoor	49	46	553
3.	4	Annathanapuram	49	65	128
4.	5	Kaliyakudi	49	120	34
5.	9	Velangudi	49	58	505
6.	11	Thalaiyur	45	64	312
7.	12	Pavattakudi	49	41	125
8.	13	Sirupuliyur	49	136	118
9.	18	Peralam	73	97	524
10.	21	Kurugulam	49	29	132
11.	24	Menarkudi	45	17	317
12.	25	Upayavedhanthapuram	61	110	171
13.	31	Maharajapuram	69	219	505
14.	35	Koothanoor	49	50	350
15.	43	Sri vanjiyam	49	18	117
16.	45	Vadakudi	49	18	94
17.	48	Thoothukudi	49	13	142
18.	76	Nannilam	49	77	181
19.	83	Anaikuppam	49	206	181
20.	40	Adhambar - I	49	72	335
21.	49	Mudikondan	45	30	375
22.	86	Panangudi	57	47	61

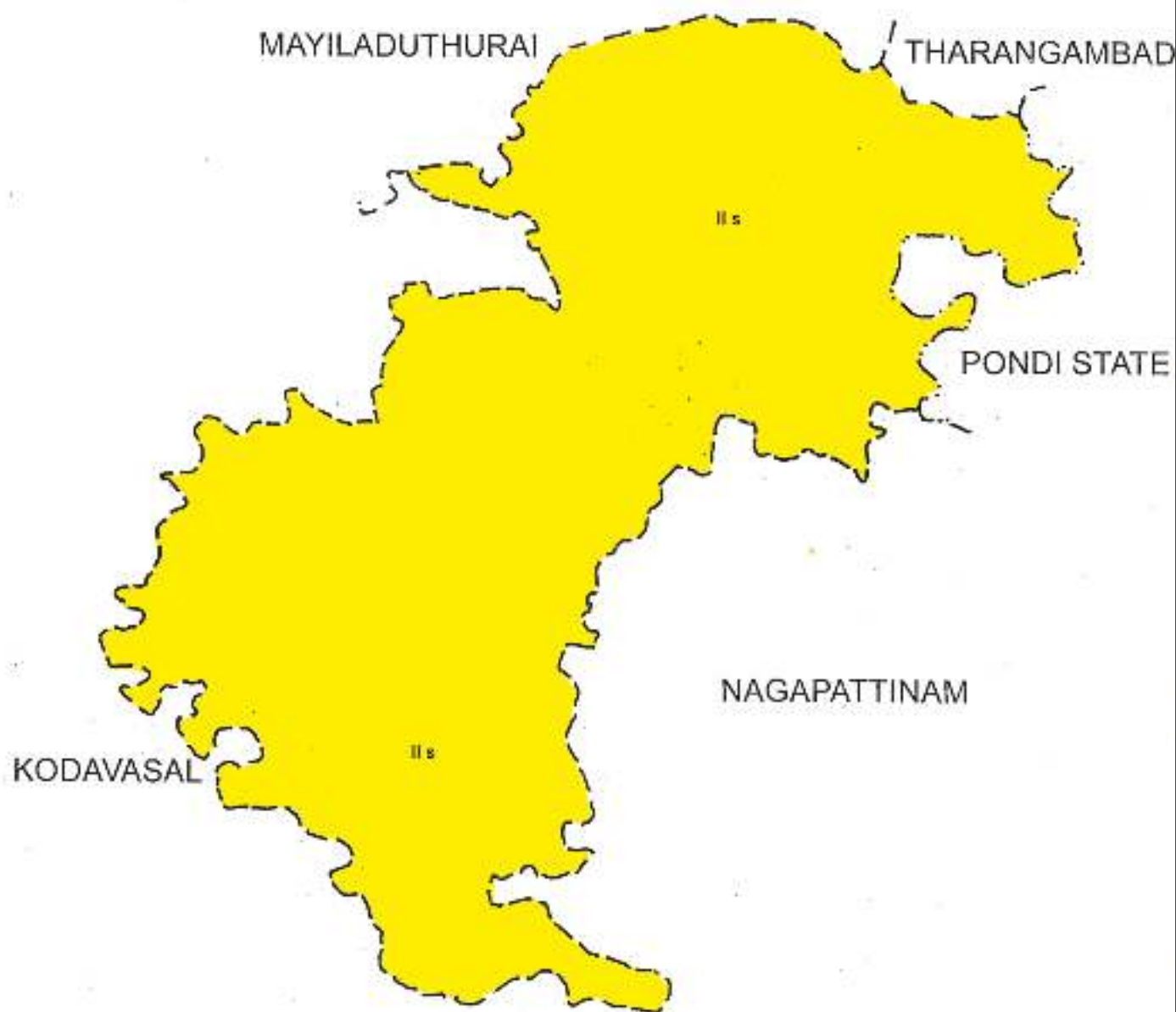
LAND CAPABILITY CLASSIFICATION

NANNILAM TALUK

Sl. No.	Soil series	Class, sub - class	Extent (ha)	% to total	Soil limitations	Special needs
1.	Kalathur, Adhanur & Alangudi.	II s - Lands that have moderate limitations for sustained use under agriculture.	24,560	100	Heavy texture, drainage, salinity/alkalinity.	Drainage improvement, soil breeding.
2.	Padugai (Pdg)	II s - - do -			Surface run off.	Conservation irrigation methods.
Total			24,560	100.00		

LAND CAPABILITY

NANNILAM TALUK



LEGEND

CLASS

 II Moderate limitation

SUBCLASS

s - soil limitation

LAND IRRIGABILITY CLASSIFICATION

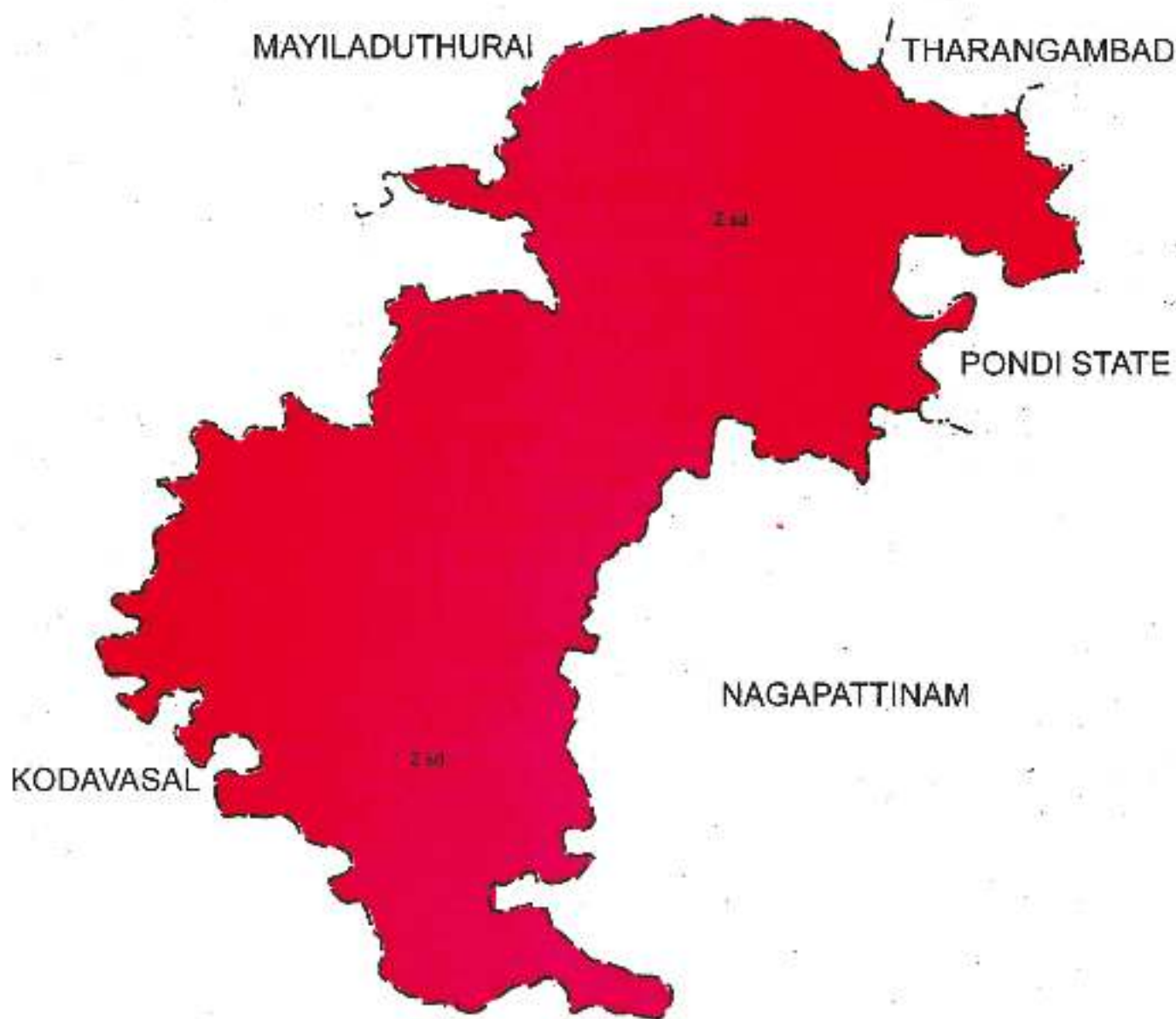
NANNILAM TALUK

Sl. No.	Soil series	Class, sub - class	Extent (ha)	% to total	Soil limitations
1.	Padugai	2s -Lands that have moderate limitations for sustained use ounder irrigation.	727	2.9	Topograpical limitations
2.	Kalathur, Adhanur & Alangudi	2sd-Lands that have modorate limitations for sustained use ounder irrigation.	23,833	97.1	Drainage & permeability
		Total	24,560	100.00	



LAND IRRIGABILITY

NANNILAM TALUK



LEGEND

CLASS

 2 - Moderate limitation

SUBCLASS

s - soil limitation

d - drainage limitation

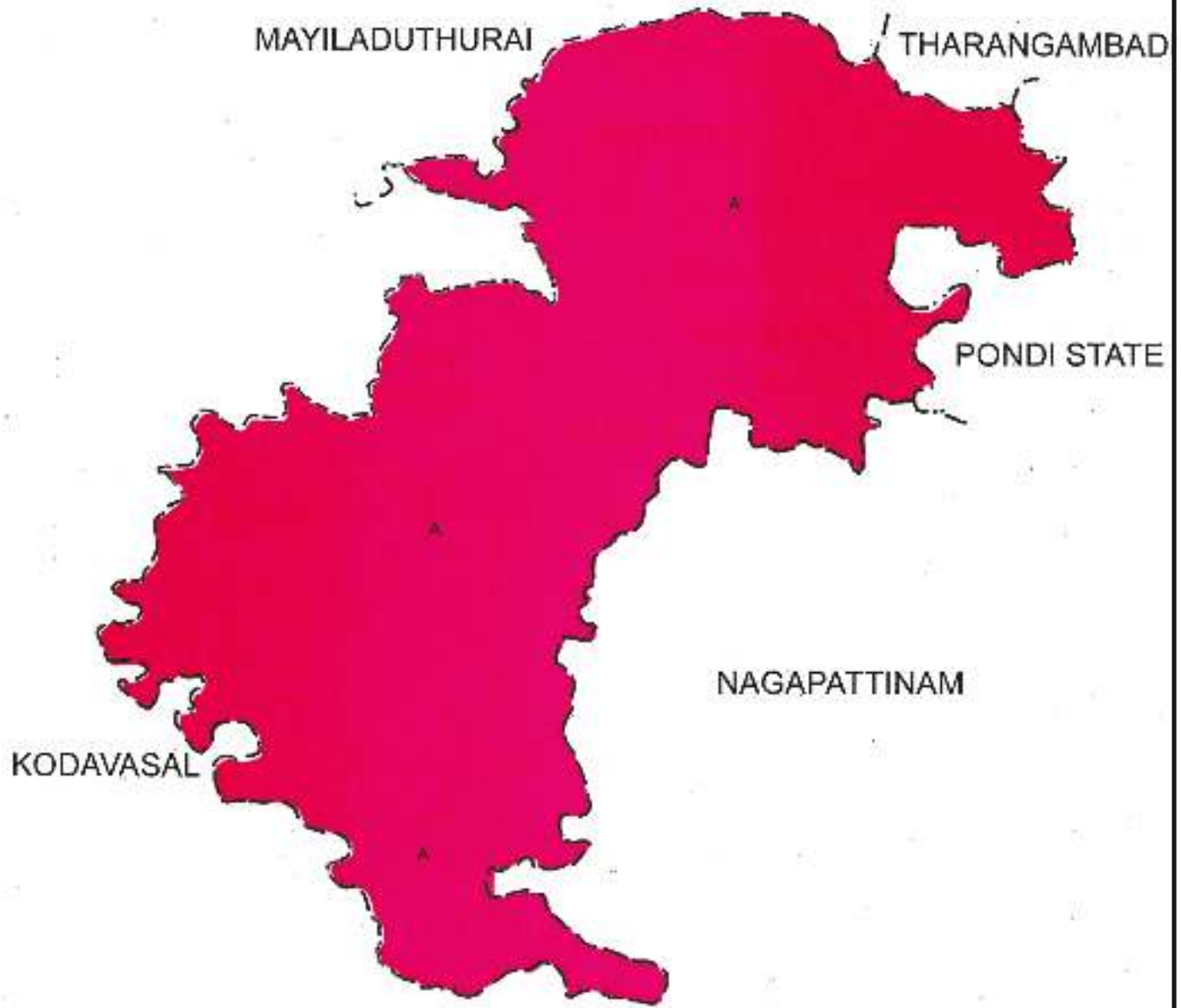
SOIL PRODUCTIVITY


NANNILAM TALUK

Sl. No.	Rating	Productivity classes	Soil series	Extent (ha)	% to total
1.	20 - 34	Average (A)	Kalathur, Adhanur & Alangudi	23,833	97.1
2.	35 - 64	Good (G)	Padugai	727	2.9
Total				24,560	100.0

SOIL PRODUCTIVITY

NANNILAM TALUK



 - AVERAGE (A)

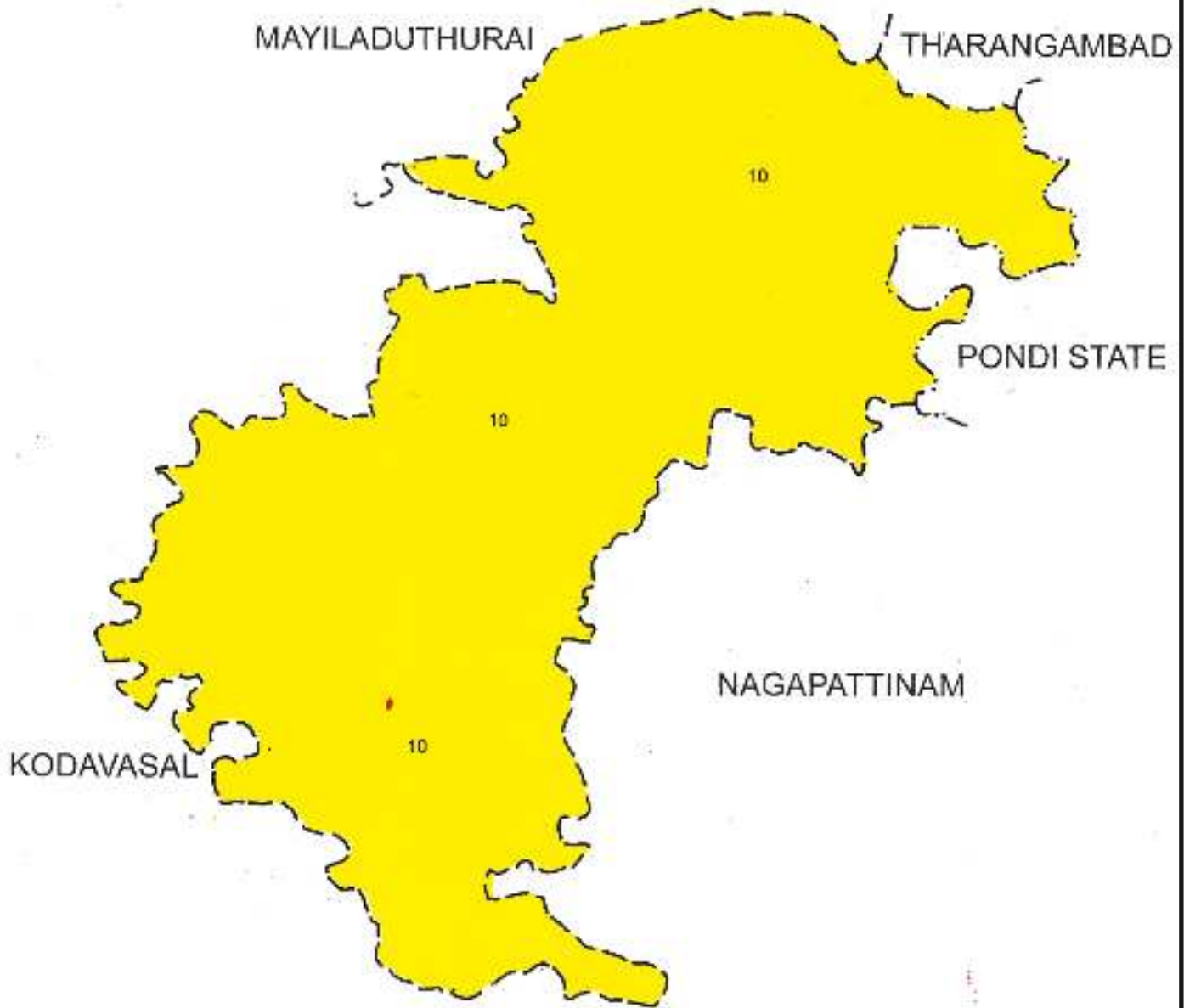
CROPS GROWN

NANNILAM TALUK

Sl. No.	Crops grown		Map symbol	Soil series
	Irrigated	Rainfed		
1.	Paddy, Sugarcane & Cotton.	Pulses	10	Kalathur
2.	Paddy, Sugarcane & Cotton.	Pules	10	Adhanur
3.	Paddy, Sugarcane & Cotton.	Pulses	10	Alangudi

CROPS GROWN

NANNILAM TALUK



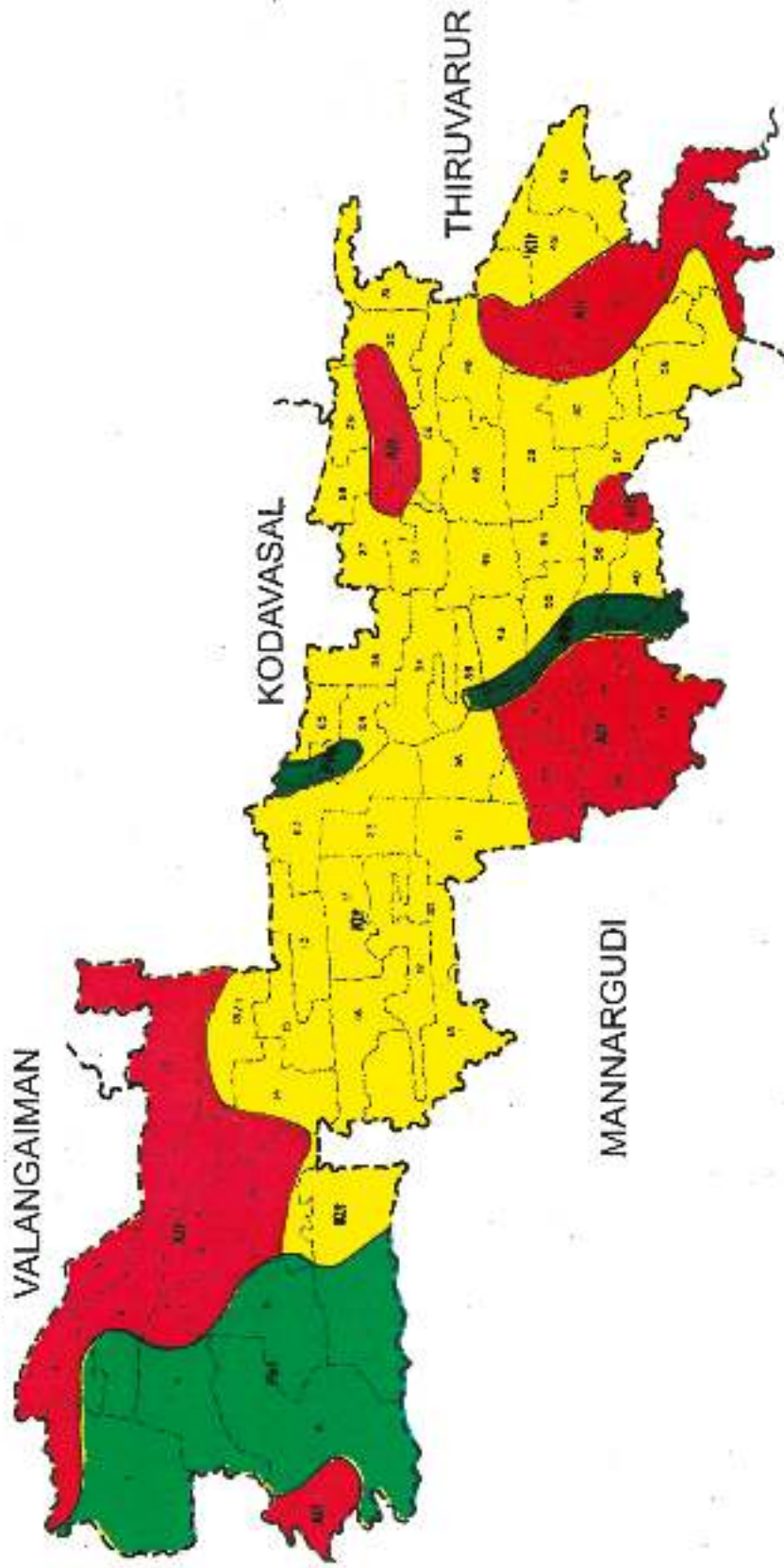
SOILS

NEEDAMANGALAM TALUK

Sl. No.	Soil series	Extent (ha)	% to total
1.	Kalathur (Klt)	8,321	36.5
2.	Alathur (Alt)	8,968	39.3
3.	Padugai (Pdg)	1,765	7.7
4.	Pattukkottai (Pkt)	3,772	16.5
	Total	22,826	100.0



SOILS NEEDAMANGALAM TALUK



**REVENUE VILLAGE WISE SOIL DISTRIBUTION
NEEDAMANGALAM TALUK
THIRUVARUR DISTRICT**

Sl.No.	Village No.	Village name	Soil distribution (%)
1. Needamangalam firka			
1.	1	Koil venni	Alt 80, Pkt 20
2.	2	Nagar	Alt 80, Pkt 20
3.	11	Palayaneedamangalam	Alt 100
4.	3	Kattu sannavoor Pannimangalam	Alt 100
5.	4	Sithamalli Melpathi	Alt 65, Pkt 35
6.	5	Parappanamedu	Alt 95, Pkt 5
7.	6	Kalacheri	Pkt 85, Alt 15
8.	7	Adhanur	Pkt 85, Alt 15
9.	8	Munnavaikottai Part	Pkt 75, Alt 25
10.	8-1	Edaiyur - Nathampadugai	Pkt 75, Alt 25
11.	8-2	Chettichathram	Pkt 75, Alt 25
12.	8-3	Pithundam	Pkt 75, Alt 25
13.	8-4	Bhagavadhamelam	Pkt 75, Alt 25
14.	8-5	Munhavaikottai	Pkt 75, Alt 25
15.	9	Rayapuram	Pkt 60, Klt 40
16.	10	Pooranoor	Alt 85, Klt 15
17.	12	Olimathi	Alt 100
18.	12-1	Vaigalathur	Alt 100
19.	13	Anumandhapuram	Klt 80, Alt 20
20.	13-3	Thirukkannamangai Kottagam	Klt 80, Alt 20
21.	13-1	Palankalathur	Klt 80, Alt 20
22.	14	Perambur	Klt 80, Alt 20
23.	15	Rishiyur	Klt 100

Sl.No.	Village No.	Village name	Soil distribution (%)
2. Koothanalore firka			
24.	16	Melalavandhacheri	Klt 100
25.	17	Keelalavanchacheri	Klt 100
26.	18	Pudhutherankudi	Klt 100
27.	19	Annavasal	Klt 85, Alt 15
28.	19-1	Annavasal Thenpathi	Klt 85, Alt 15
29.	20	Arichapuram	Klt 95, Alt 5
30.	21	Sithambur	Klt 85, Alt 15
31.	22	Vellakkudi	Klt 100
32.	23	Athangudi	Klt 95, Pdg 5
33.	24	Sekaral	Klt 70, Pdg 30
34.	25	Aykudi	Klt 85, Pdg 15
35.	26	Vakkaranalore	Klt 100
36.	27	Chithannakudi	Klt 80, Alt 20
37.	28	Vengaramperiyur	Klt 60, Alt 40
38.	29	Punavasal	Klt 50, Alt 50
39.	30	Poonthalankudi	Klt 95, Alt 5
40.	31	Keelmanali	Klt 100
41.	32	Oogaiperaiyure	Klt 80, Alt 20
42.	33	Agaravelukudi	Klt 100
43.	34	Laxmangudi	Klt 100
44.	35	Koothanalore	Klt 85, Pdg 15
45.	43	Pandithakudi	Klt 80, Pdg 20
46.	36	Ramanathankoil	Klt 90, Alt 10

Sl.No.	Village No.	Village name	Soil distribution (%)
3. Vadapathimangalam firka			
47.	37	Vadakovanoore	Alt 85, Klt 15
48.	38	Thenkoranoor	Alt 100
49.	39	Thiru Rameswaram	Alt 90, Pdg 10
50.	40	Ouacheri	Klt 70, Pdg 30
51.	41	Mankanavadi	Alt 95, Pdg 5
52.	42	Kothangudi	Alt 80, Pdg 20
53.	43	Palayanore	Klt 100
54.	45	Vadapathimangalam	Klt 100
55.	46	Harichandrauram	Klt 95, Alt 5
56.	47	Pullamangalam	Klt 55, Alt 45
57.	48	Kalakurichi	Pkt 85, Alt 15
58.	49	Chitharaiyur	Klt 100
59.	50	Sethangudi	Alt 70, Klt 30
60.	51	Mannakarai	Alt 95, Klt 5
61.	52	Periyakothur	Klt 85, Alt 15
62.	53	Kiliyanoore	Klt 95, Alt 5
63.	54	Kakaiyadi	Klt 100
64.	55	Sathanoor	Klt 70, Pdg 30
65.	56	Verkudi	Klt 65, Alt 35
66.	57	Kulamanikkam	Klt 85, Alt 15
67.	58	Mavattakudi	Klt 90, Alt 10
68.	59	Seruvamali	Alt 60, Klt 40
69.	60	Marangudi	Alt 95, Klt 5

FERTILITY INDICES FOR THE VILLAGES IN NEEDAMANGALAM TALUK

THIRUVARUR DISTRICT

Sl. No.	Village No.	Name of village	Fertility Indices (Kg/ac)		
			N	P ₂ O ₅	K ₂ O
1.	1	Koil venni	45	58	184
2.	11	Palayaneedamangalam	57	73	224
3.	6	Kalacheri	53	48	167
4.	8 - 4	Bhagavadhamelam	57	17	146
5.	9	Rayapuram	97	142	224
6.	10	Poovanoor	53	43	325
7.	12	Olimathi	61	165	463
8.	13 - 1	Palankalathu	61	230	528
9.	23	Athangudi	49	79	168
10.	36	Ramanathankoil	65	24	110
11.	38	Thenkovanoor	69	4	67
12.	43	Palayanoor	56	28	145
13.	50	Senthangudi	45	56	236
14.	51	Mannakarai	57	8	143
15.	55	Sathanoor	53	22	46

LAND CAPABILITY CLASSIFICATION

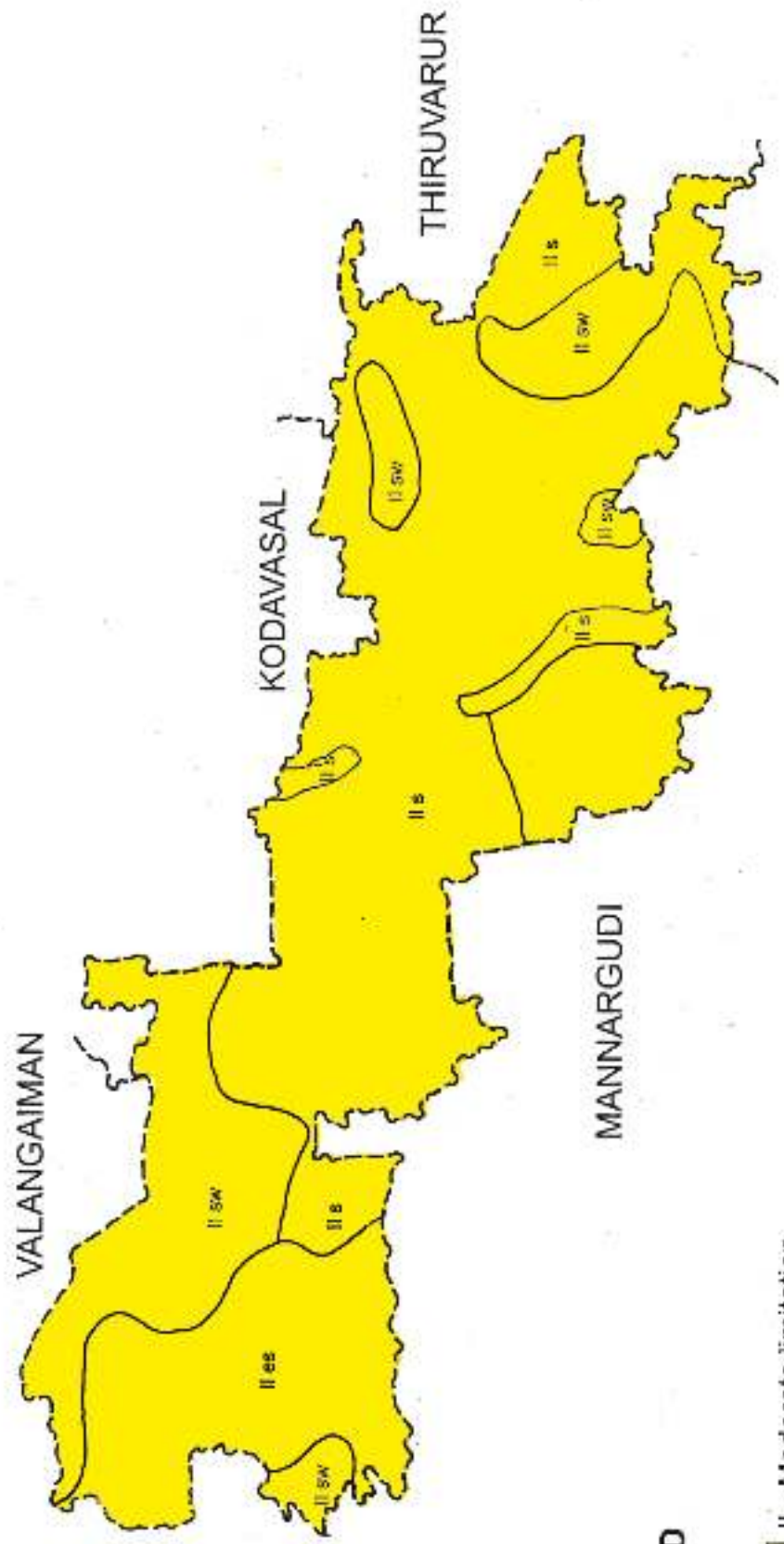
NEEDAMANGALAM TALUK

Sl. No.	Soil series	Class, Sub - class	Extent (ha)	% to Total	Soil limitations	Special needs
1.	Kalathur	lls - Lands that have moderate limitations for sustained use under agriculture.	8,321	36.5	Heavy texture, drainage, salinity / alkalinity.	Drainage improvement & soil breeding
2.	Padugai	lls - Lands that have moderate limitations for sustained use under agriculture.	1,765	7.7	-do-	-do-
3.	Alathur	llsw - Lands that have moderate limitations for sustained use under agriculture.	8,968	39.3	-do-	-do-
4.	Pattukkottai	lles - Lands that have moderate limitations for sustained use under agriculture.	3,772	16.5	Surface run off & erosion	-do-
Total			22,826	100.0		




LAND CAPABILITY

NEEDAMANGALAM TALUK



LEGEND CLASS

 II - Moderate limitation

SUBCLASS

- s - soil limitation
- w - wetness limitation
- e - erosion limitation

LAND IRRIGABILITY CLASSIFICATION

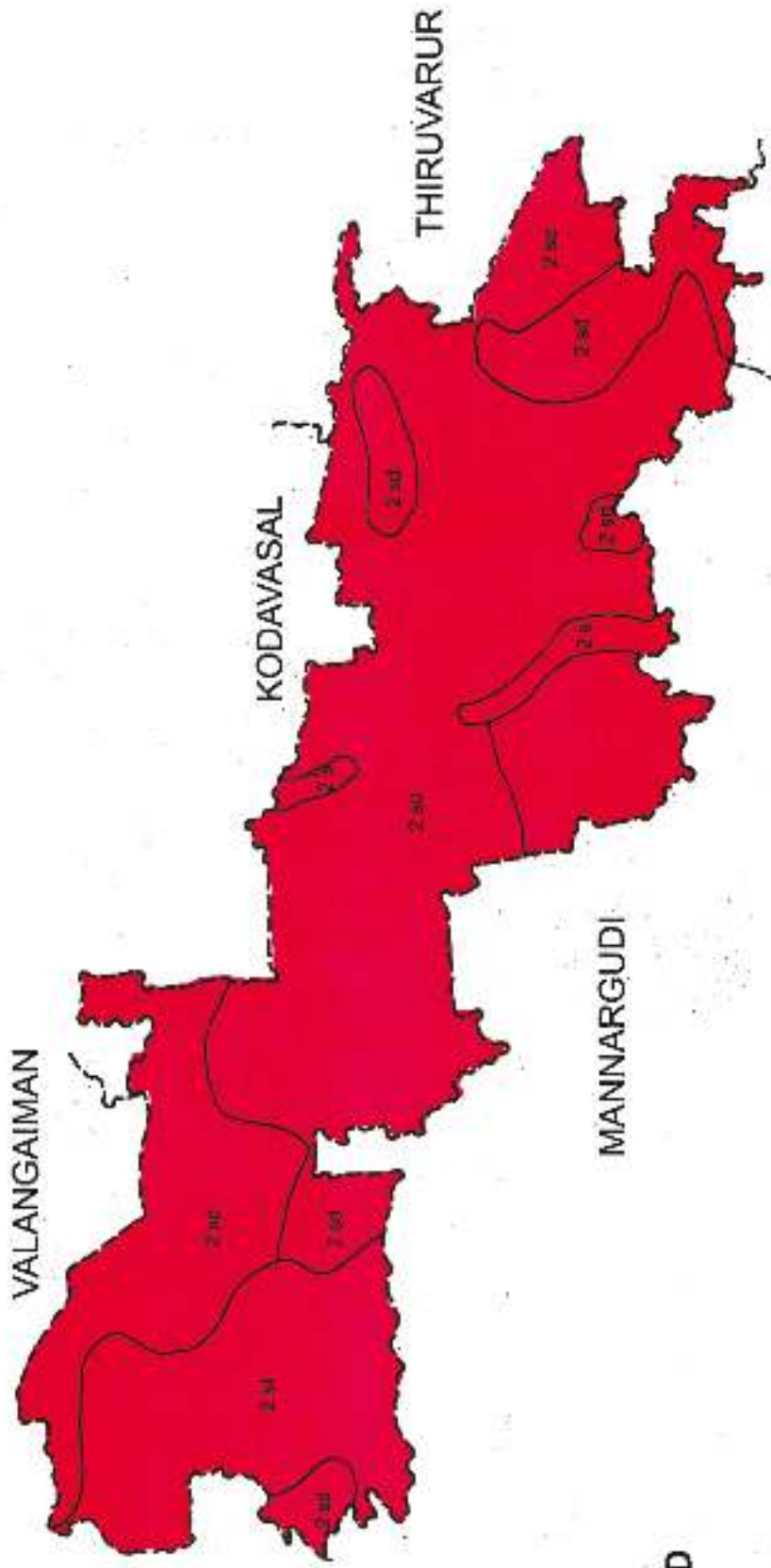
NEEDAMANGALAM TALUK

Sl. No.	Soil series	Class, sub - class	Extent (ha)	% to Total	Soil limitations
1.	Kalathur and Alathur.	2sd - Land that have moderate limitations for sustained use under irrigation	17,289	75.8	Drainage and permeability
2.	Padugai and Pattukkottai	2st - Land that have moderate limitations for sustained use under irrigation	5,537	24.2	Topography & texture
		Total	22,826	100.0	




LAND IRRIGABILITY

NEEDAMANGALAM TALUK



LEGEND

CLASS

 2 - Moderate limitation

SUBCLASS

- s - soil limitation
- t - topographical limitation
- d - drainage limitation

SOIL PRODUCTIVITY

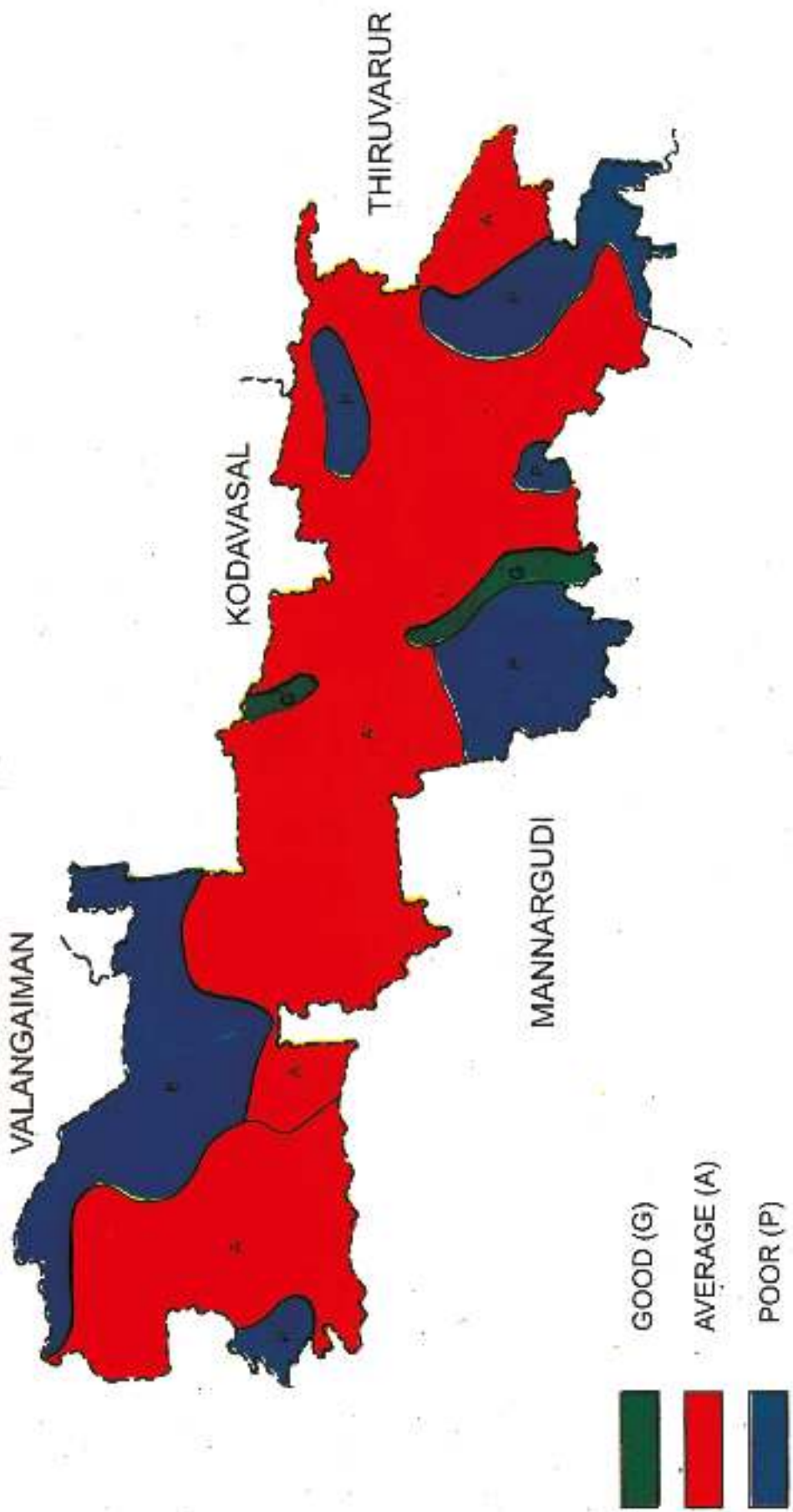
NEEDAMANAGALAM TALUK

Sl. No.	Rating	Productivity classes	Soil series	Extent (ha)	% to Total
1.	20 - 34	Average (A)	Kalathur & Pattukkottai	12,093	53.0
2.	8 - 19	Poor (P)	Alathur	8,968	39.3
3.	35 - 64	Good (G)	Padugai	1,765	7.7
Total				22,826	100.0



SOIL PRODUCTIVITY

NEEDAMANGALAM TALUK



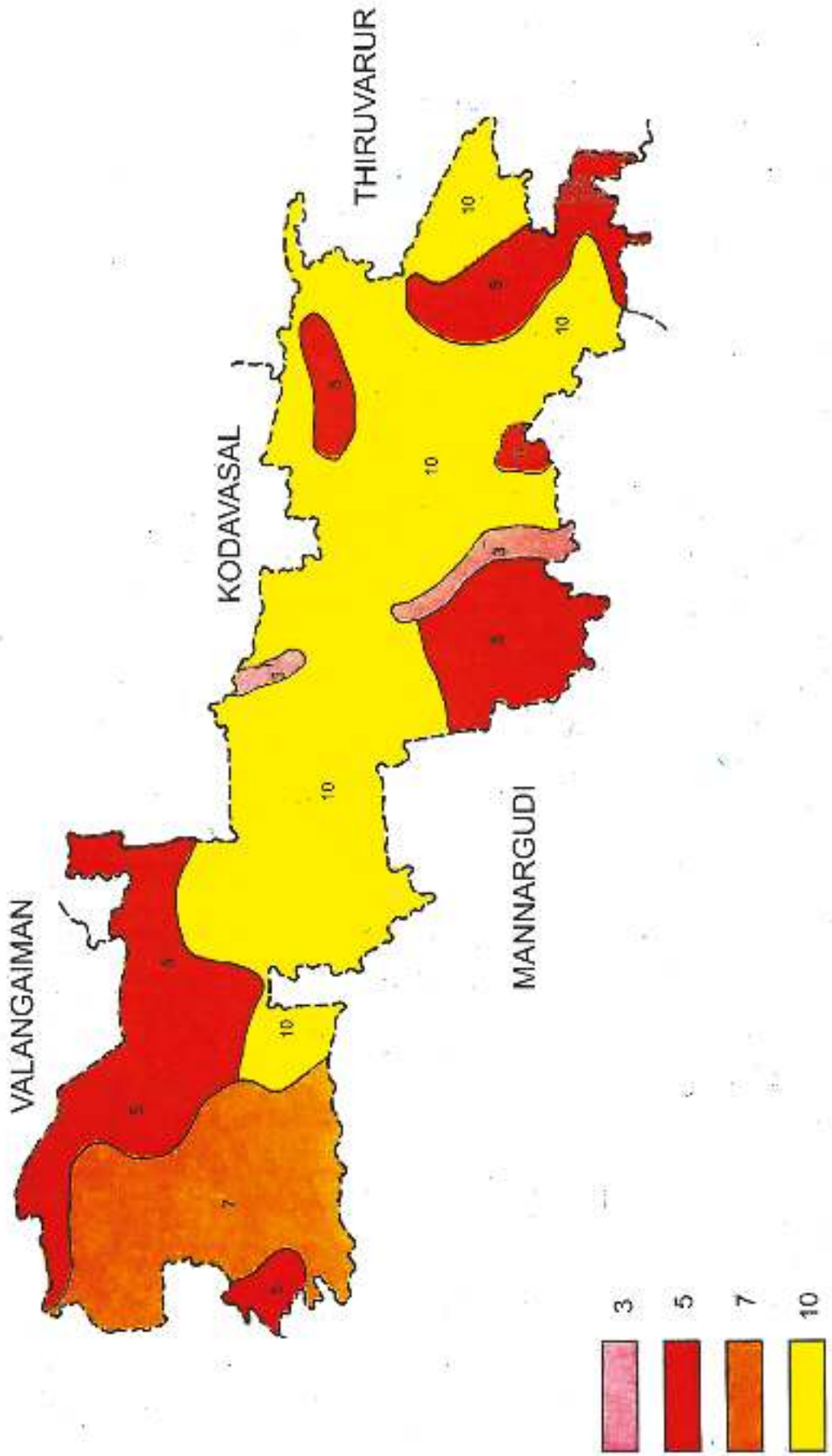
CROPS GROWN

NEEDAMANGALAM TALUK

Sl. No.	Crops grown		Map symbol	Soil series
	Irrigated	Rainfed		
1.	Paddy, Sugarcane & Millets.	Pulses	10	Kalathur
2.	Groundnut, Chillies, Maize & Vegetables.	Groundnut, Coconut & Horticultural crops.	7	Pattukkottai
3.	Paddy, Sugarcane & Millets.	—	5	Alathur
4.	Beans, Sugarcane, Vegetables, Flowers & Paddy.	Groundnut, Gingelly & Eucalyptus.	3	Padugai



CROPS GROWN NEEDAMANGALAM TALUK



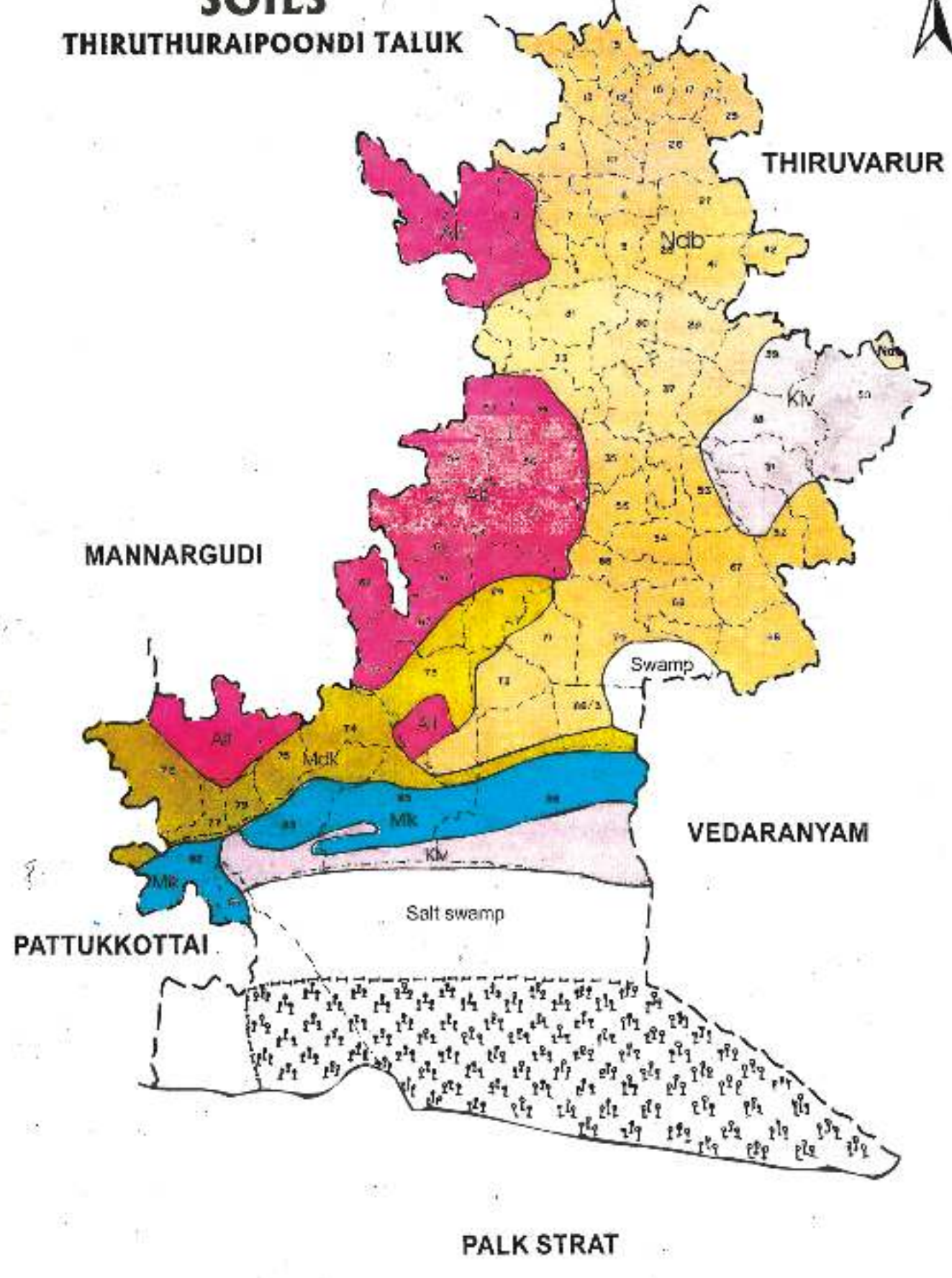
SOILS

THIRUTHURAIPOONDI TALUK

Sl. No.	Soil series	Extent (ha)	% to total
1.	Melkadu (Mlk)	4,400	11.1
2.	Kallivayal ((Klv)	1,535	3.9
3.	Nedumbalam(Ndb)	12,567	31.5
4.	Alathur (Alt)	5,747	14.5
5.	Madukkur (Mdk)	2,967	7.5
6.	Swamp	511	1.3
7.	Salt swamp	12,023	30.2
Total ...		39,750	100.00

SOILS

THIRUTHURAIPOONDI TALUK



PALK STRAT

REVENUE VILLAGE WISE SOIL DISTRIBUTION
THIRUTHURAIPOONDI TALUK
THIRUVARUR DISTRICT

Sl. No.	Village No.	Village name	Soil distribution (%)
1.	1	Panaiyur	Alt 100
2.	2	Thirupattur	Alt 100
3.	3	Rayanallore	Alt 100
4.	3-2	Kaduvakothamangalam	Alt 100
5.	3-1	Chettiyamoolai	Alt 100
6.	5	Kunnur	Ndb 100
7.	4	Mettupalayam	Ndb 70, Alt 30
8.	7	Keerakkalaur	Ndb 100
9.	7-1	Palayanatham	Ndb 100
10.	8	Villakudi	Alt 60, Ndb 40
11.	28	Kurumban	Ndb 100
12.	29	Vellore	Ndb 100
13.	30	Deepampalpuram	Ndb 100
14.	31	Kothamangalam	Ndb 95, Alt 5
15.	33	Munakadu	Ndb 100
16.	38	Pamini	Klv 80, Ndb 20
17.	35	Nedumbalam	Ndb 85, Alt 15
18.	38-1	Desingurajapuram	Klv 80, Ndb 20
19.	30	Kokkaladi	Klv 60, Ndb 40
20.	41	Manali	Ndb 100
21.	42	Sathangudi	Ndb 100
22.	50	Korukkai	Klv 85, Ndb 15
23.	36	Singalanthi	Ndb 90, Klv 10

Sl. No.	Village No.	Village name	Soil distribution (%)
24.	37	Thiruthuraipoondi	Ndb 100
25.	34	Ezhilore	Alt 70 Ndb 30
26.	51	Segal	Klv 65, Ndb 35
27.	52	Athirengam	Ndb 55, Klv 45
28.	53	Kattimedu	Alt 20, Ndb 80
29.	67	Pichangkottagam	Ndb 95, Klv 5
30.	68	Melamarudhur	Ndb 100
31.	54	Pandi	Ndb 100
32.	55	Kallikkudi	Ndb 100
33.	56	Vanganagar	Alt 90, Ndb 10
34.	57	Marudhavanam	Alt 100
35.	58	Mangudi	Alt 100
36.	59	Ariyalore	Alt 100
37.	64	Edaiyur	Mdk 60, Alt 40
38.	65	Oovarore	Alt 90, Ndb 10
39.	69	Ekkal	Ndb 100
40.	66	Keelapandi	Ndb 100
41.	70	Kunnalore	Ndb 60, Swamp 40
42.	71	Keelaperumazhai	Ndb 80, Mdk 20
43.	72	Melaperumazhai	Ndb 95, Mdk 5
44.	86-3	Vilangadu	Ndb 100
45.	60	Vadasanganthi	Alt 100
46.	61	Sanganthi	Alt 85, Mdk 15
47.	62	Tholli	Alt 100
48.	63	Pinnathore	Alt 60, Mdk 40
49.	73	Uthayamarthandapuram	Mdk 65 Alt 35
50.	74	Uppore	Mdk 100

Sl. No.	Village No.	Village name	Soil distribution (%)
51.	75	Alangadu	Mdk 70, Alt 30
52.	76	Vadagadu	Mdk 55, Alt 45
53.	78	Keelanammangurichi	Mdk 50, Alt 50
54.	80	Melanammangurichi	Mdk 50, Alt 50
55.	81	Mangal	Mdk 50, Alt 50
56.	83	Jambuvanodai	Mlk 45, Klv 35, Mdk 20
57.	83-1	Veeranvayal	Mlk 40, Klv 40, Mdk 20
58.	84	Kazhuvankadu	Mlk 50, Klv 35, Mdk 10, Ndb 5
59.	85	Thillaivilagam	Mlk 50, Klv 25, Mdk 20, Ndb 5
60.	86	Idumbavanam	Klv 40, Mlk 30, Ndb 20, Mdk 10
61.	86-a	Thondiyakadu	Ndb 60, Mdk 20, Swamp 20
62.	86-1	Karpaganatharkulam	Klv 40, Mlk 30, Ndb 20, Mdk 10
63.	77	Therkukadu	Alt 100
64.	79	Muthupet	Alt 100
65.	82	Thuraikadu	Swamp 65, Mlk 20, Mdk 15
66.	6	Thiruvanchuzhi	Ndb 100
67.	9	Poosalangudi	Ndb 90, Alt 10
68.	10	Aalivalam	Ndb 100
69.	11	Aadhanoor	Ndb 100
70.	12	Komal	Ndb 100
71.	13	Andangkarai	Ndb 100
72.	14	Keeralathur	Ndb 100
73.	15	Thiruthangore	Ndb 100
74.	16	Ammanore	Ndb 100
75.	17	Vilathore	Ndb 100
76.	25	Kachanam	Ndb 100
77.	26	Alathambadi	Ndb 100
78.	27	Palayangudi	Ndb 100

FERTILITY INDICES FOR THE VILLAGES IN THIRUTHURAI POONDI TALUK

THIRUVARUR DISTRICT

Sl. No.	Village No.	Name of village	Fertility Indices (Kg/ac)		
			N	P ₂ O ₅	K ₂ O
1.	1	Panaiyur	57	140	309
2.	2	Thirupathur	57	65	312
3.	3	Rayanalloor	57	13	244
4.	3 - 1	Chettiyamoolai	57	62	273
5.	4	Mettupalayam	64	22	40
6.	8	Vilakudi	57	21	96
7.	29	Vellore	57	30	387
8.	30	Deepampalpuram	53	19	193
9.	38 - 1	Desingurajapuram	57	40	230
10.	30	Kokkaladi	65	25	123

Sl. No.	Village No.	Name of village	Fertility Indices (Kg/ac)		
			N	P ₂ O ₅	K ₂ O
11.	50	Korukkai	45	148	247
12.	36	Singalanthi	45	30	388
13.	37	Thiruthuraipoondi	53	38	483
14.	51	Segal	57	32	469
15.	53	Kattimedu	64	45	152
16.	55	Kallikkudi	53	75	559
17.	57	Marudhavanam	57	21	90
18.	58	Mangudi	59	19	90
19.	65	Ovarur	57	8	404
20.	69	Ekkal	59	16	84

Sl. No.	Village No.	Name of village	Fertility Indices (Kg/ac)		
			N	P ₂ O ₅	K ₂ O
21.	66	Keelapandi	57	90	203
22.	70	Kunnalur	53	9	195
23.	71	Keelaperumazhai	65	19	64
24.	72	Melaperumazhai	67	22	54
25.	86 - 3	Vilangadu	57	36	501
26.	61	Sanganthi	55	68	96
27.	63	Pinnathur	57	73	143
28.	73	Uthayamarthandapuram	57	49	181
29.	74	Uppoor	57	204	290
30.	85	Thillaivilagam	43	33	139
31.	86	Idumbavanam	66	24	60
32.	79	Muthupet	57	218	301
33.	16	Ammanoor	53	27	166

LAND CAPABILITY CLASSIFICATION

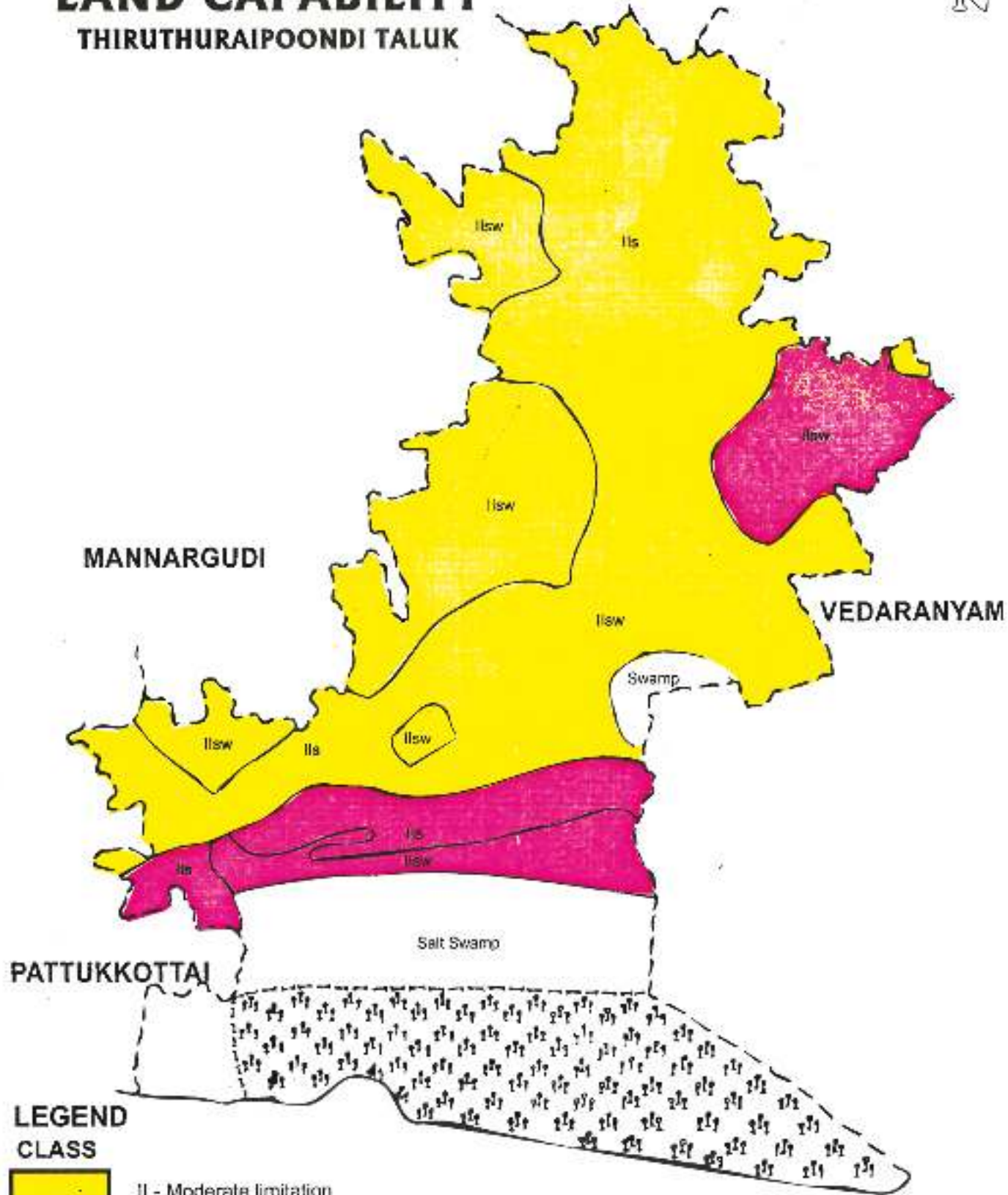
THIRUTHURAIPOONDI TALUK

Sl. No.	Soil series	Class, sub - class	Extent (ha)	% to total	Soil limitations	Special needs
1.	Nedumbalam	IIs - Lands that have moderate limitations for sustained use under agriculture.	12,567	46.2	Texture, salinity / alkalinity	Drainage improvement, cultivation of suitable crops.
2.	Madukkur	IIs - Lands that have moderate limitations for sustained use under agriculture.	2,967	10.9	Texture	Adoption of conservation irrigation methods
3.	Alathur	IIsW - Lands that have moderate limitations for sustained use under agriculture.	5,747	21.1	Texture and drainage	Drainage improvement, cultivation of suitable crops.
4.	Melkadu	IIIs - Lands that have severe limitations for sustained use under agriculture.	4,400	16.2	Texture, salinity / alkalinity	Soil conservation, application of organics
5.	Kallivayal	IIIsW - Lands that have severe limitations for sustained use under agriculture.	1,535	5.6	Texture, salinity / alkalinity	Drainage improvement, cultivation of suitable crops.
Total			27,216	100.0		

LAND CAPABILITY


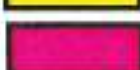
THIRUTHURAIPOONDI TALUK

NEEDAMANGALAM



LEGEND

CLASS

-  II - Moderate limitation
-  III - Severe limitation

SUB CLASS

- s - soil limitation
- w - wetness limitation

PALK STRAIT

LAND IRRIGABILITY CLASSIFICATION

THIRUTHURAIPOONDI TALUK

Sl. No.	Soil series	Class, sub - class	Extent (ha)	% to total	Soil limitations
1.	Madukkur	2s - Lands that have moderate limitations for sustained use under irrigation.	2,967	10.9	Texture
2.	Nedumbalam and Alathur	2sd - Lands that have moderate limitations for sustained use under irrigation.	18,314	67.3	Texture, drainage, slow permeability, salinity / alkalinity
3.	Melkadu	3s - Lands that have severe soil limitations for sustained use under irrigation.	4,400	16.2	Texture, rapid permeability, salinity / alkalinity.
4.	Kallivayal	3sd- Lands that have severe soil limitations for sustained use under irrigation.	1,535	5.6	Texture, drainage, slow permeability, salinity / alkalinity.
Total			27,216	100.0	

LAND IRRIGABILITY

THIRUTHURAIPOONDI TALUK

NEEDAMANGALAM



THIRUVARUR

MANNARGUDI

VEDARANYAM


PATTUKKOTTAI


Salt Swamp

Swamp

PALK STRAIT

LEGEND

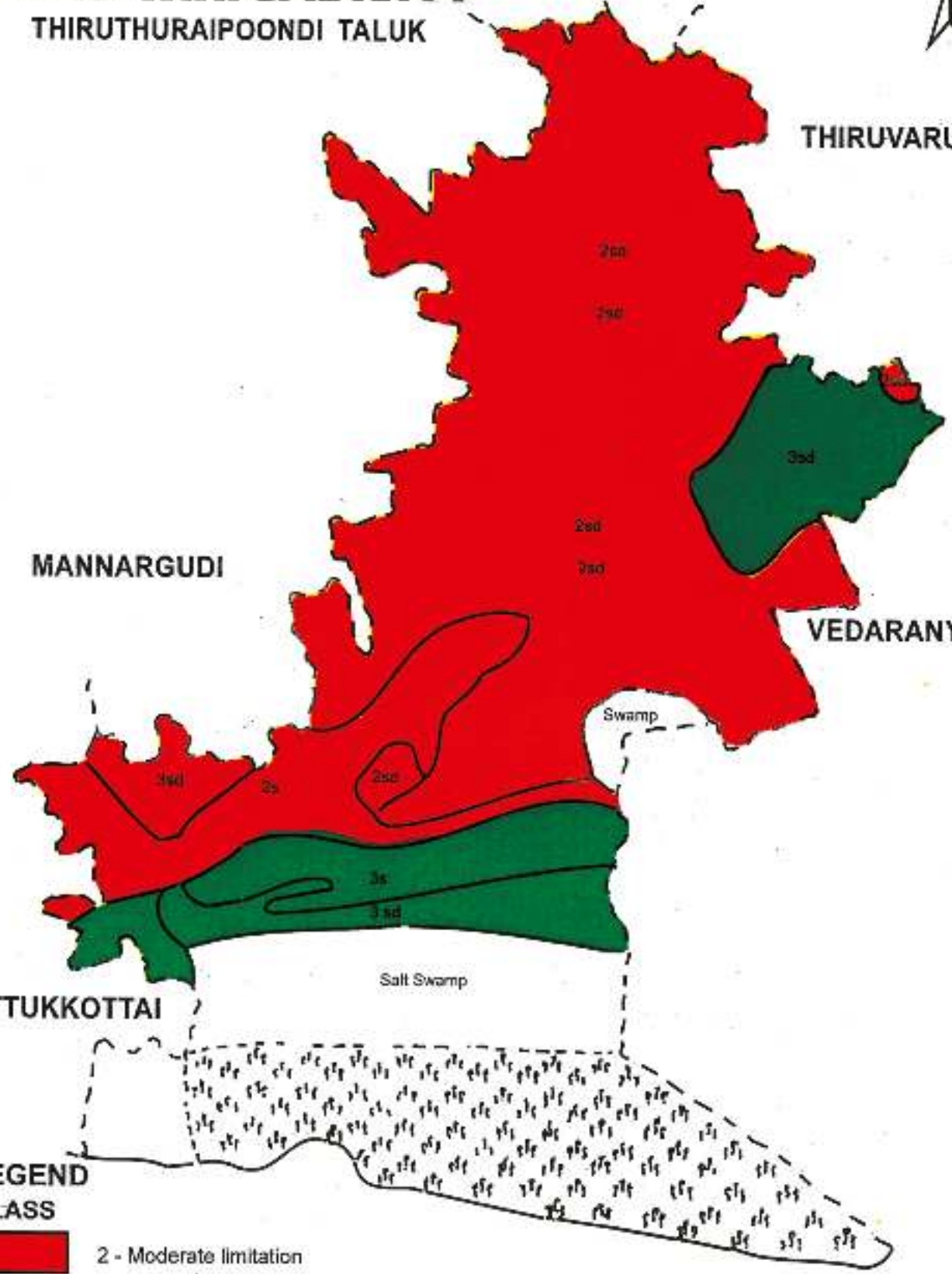
CLASS
 2 - Moderate limitation

 3 - Severe limitation

SUB CLASS

s - soil limitation

w - wetness limitation



SOIL PRODUCTIVITY

THIRUTHURAIPOONDI TALUK

Sl. No.	Rating	Productivity classes	Soil series	Extent (ha)	% to total
1.	0 - 7	Extremely poor (EP)	Melkadu & Kallivayal	5,935	21.8
2.	8-19	Poor (P)	Alathur	5,497	21.1
3.	20 - 34	Average (A)	Nedumbalam & Madukkur	15,534	57.1
Total				27,216	100.0

SOIL PRODUCTIVITY

THIRUTHURAIPOONDI TALUK

NEEDAMANGALAM



THIRUVARUR

MANNARGUDI

VEDARANYAM

PATTUKKOTAI

Swamp

Salt Swamp

PALK STRAT



CROPS GROWN

THIRUTHURAIPOONDI TALUK

Sl. No.	Crops grown		Map symbol	Soil series
	Irrigated	Rainfed		
1.	Tobacco, Gingelly and Vegetables.	Groundnut and Casuarina.	1	Melkadu
2.	Paddy and Pulses.	—	4	Kallivayal
3.	Paddy, Sugarcane and Cotton.	Pulses	10	Nedumbalam
4.	Paddy, Sugarcane and Millets.	—	5	Alathur
5.	Groundnut, Gingelly, Paddy, Millets and Chillies.	Groundnut and Millets.	6	Madukkur

CROPS GROWN

THIRUTHURAIPOONDI TALUK

NEEDAMANGALAM



THIRUVARUR

MANNARGUDI

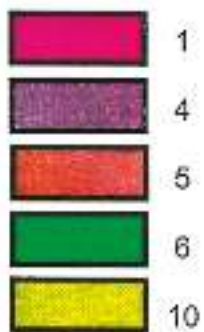
VEDARANYAM

PATTUKKOTTAI

Salt Swamp

Swamp

PALK STRAIT



SOILS

THIRUVARUR TALUK

Sl. No.	Soil series	Extent (ha)	% to total
1.	Kivalur (Kvr)	2192	15.4
2.	Sikar (Skr)	11856	83.4
3.	Sethi (Sth)	168	1.2
Total		13,216	100.0

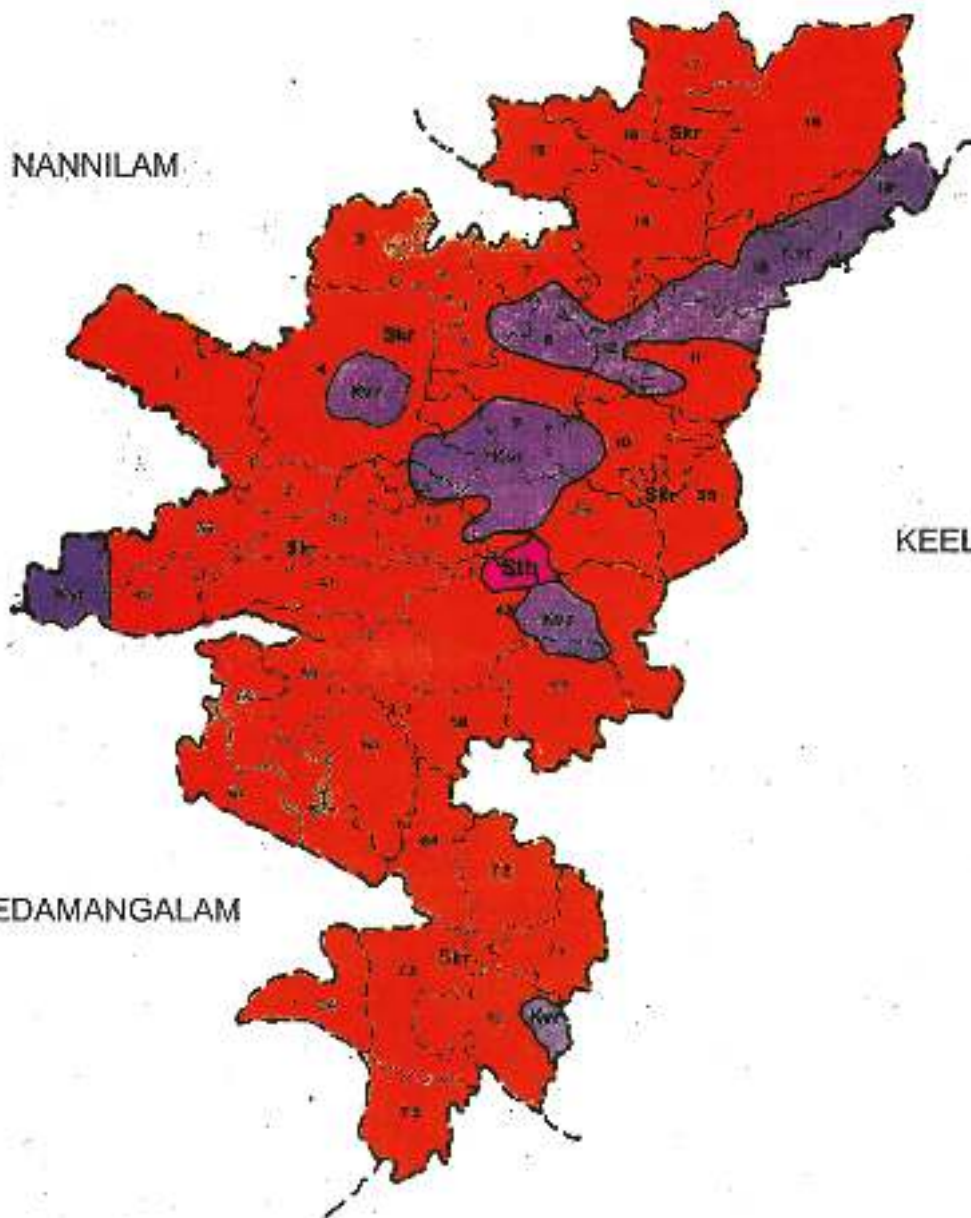
SOILS

THIRUVARUR TALUK

NAGAPPATTINAM



NANNILAM



KEELVELUR

NEEDAMANGALAM

THIRUTHURAIPOONDI

REVENUE VILLAGE WISE SOIL DISTRIBUTION
THIRUVARUR TALUK
THIRUVARUR DISTRICT

Sl. No.	Village No.	Village name	Soil distribution (%)
1.	1	Thandalai	Skr 100
2.	1 / 1	Villamal	Skr 100
3.	2	Vijayapuram	Skr 100
4.	3	Thiruvarur South	Skr 75, Kvr 25
5.	4	Thiruvarur North	Skr 75, Kvr 25
6.	5	Keezhakavathakudi	Skr 100
7.	6	Ramaki	Skr 80, Kvr 20
8.	7	Pallivaramangalam	Skr 80, Kvr 20
9.	8	Pazhavanangudi	Skr 65, Kvr 35
10.	9	Sundaravilagam	Kvr 75, Skr 25
11.	9 / 1	Kidarankondan	Kvr 75, Skr 25
12.	10	Adiyakkamangalam	Skr 70, Kvr 30
13.	11	Kallikkudi	Skr 55, Kvr 45
14.	12	Adipuducheri	Kvr 70, Skr 30
15.	13	Odacheri	Kvr 75, Skr 25
16.	14	Pazhayavalam	Skr 95, Kvr 5
17.	15	Nadappur	Skr 100
18.	16	Sirukudi	Skr 100
19.	17	Vaippur	Skr 100
20.	18	Thiruvathiraimangalam	Skr 100
21.	18/5	Solanganallur	Skr 100
22.	18/6	Kurumberi	Skr 100
23.	19	Aamoor	Kvr 90, Skr 10
24.	35	Semangalam	Skr 100

Sl. No.	Village No.	Village name	Soil distribution (%)
25.	38	Pulivalam	Skr 95, Kvr 5
26.	39	Perungudy	Skr 100
27.	36	Alivalam	Skr 55, Kvr 30 Sth 15
28.	36/2	Karuppur	Skr 60, Kvr 30 Sth 10
29.	37	Venkatesapuram	Skr 60, Kvr 30 Sth 10
30.	40	Kalyanamahadevi	Skr 55, Kvr 45
31.	41	Keezhakoothangudi	Skr 100
32.	42	Naranamangalam	Skr 100
33.	43	Thappalampuliyur	Skr 70, Kvr 20, Sth 10
34.	43	— do —	
35.	57	Puduppathur	Skr 80, Kvr 20
36.	58	Kalyanasundarapuram	Skr 100
37.	59	Mangudi	Skr 100
38.	60	Vadakarai	Skr 100
39.	61	Radhanallur	Skr 100
40.	62	Kavduvangudi	Skr 100
41.	63	Thiruneipper	Skr 100
42.	64	Kunniyur	Skr 100
43.	71	Vanjiyur	Skr 100
44.	72	Veppathangudi	Skr 100
45.	73	Pinnavasal	Skr 100
46.	74	Umamageswarapuram	Skr 100
47.	75	Pudur	Skr 100
48.	76	Thirukkaravasal	Skr 80, Kvr 20

FERTILITY INDICES FOR THE VILLAGES IN THIRUVARUR TALUK

THIRUVARUR DISTRICT

Sl. No.	Village No.	Name of village	Fertility Indices (Kg/ac)		
			N	P ₂ O ₅	K ₂ O
1.	1	Thandalai	73	69	256
2.	2	Vijayapuram	57	7	120
3.	3	Thiruvavarur South	69	21	117
4.	6	Ramaki	80	58	280
5.	7	Pallivaramangalam	85	42	168
6.	9	Sundaravilagam	73	172	214
7.	10	Adiyakkamangalam	45	42	66
8.	11	Kallikudi	77	105	408
9.	14	Pazhayavalam	69	82	257
10.	16	Sirukudi	73	21	247
11.	18	Thiruvathiraimangalam	73	74	307
12.	18/5	Sofanganallur	73	59	137
13.	18/6	Kurumberi	59	315	538
14.	38	Pulivalam	69	70	557

Sl. No.	Village No.	Name of village	Fertility Indices (Kg/ac)		
			N	P ₂ O ₅	K ₂ O
15.	36	Allivalam	73	154	589
16.	36/2	Karupper	73	102	600
17.	40	Kalyanamahadevi	69	43	116
18.	43	Thappalampuliyur	50	23	203
19.	57	Puduppathur	40	37	203
20.	60	Vadakarai	48	56	215
21.	61	Rathanallur	41	78	246
22.	64	Kunniyur	69	110	253
23.	71	Vanjiyur	73	146	253
24.	73	Pinnavasal	51	14	10
25.	76	Thirukkaravasal	87	38	163

LAND CAPABILITY CLASSIFICATION

THIRUVARUR TALUK

Sl. No.	Soil series	Class, sub - class	Extent (ha)	% to total	Soil limitations	Special needs
1.	Kivalur & Sikar	IIs- Lands that have moderate limitations for sustained use under agriculture.	14048	98.8	Heavy texture, drainage, salinity / alkalinity.	Drainage improvement & soil breeding
2.	Sethi	IIs- Lands that have severe limitations for sustained use under agriculture	168	1.2	Light texture, surface run off, salinity / alkalinity.	Soil conservation measures, cultivation of suitable crops.
Total			14216	100.0		

LAND CAPABILITY

THIRUVARUR TALUK

NAGAPPATTINAM

NANNILAM


NEEDAMANGALAM

THIRUTHURAIPOONDI

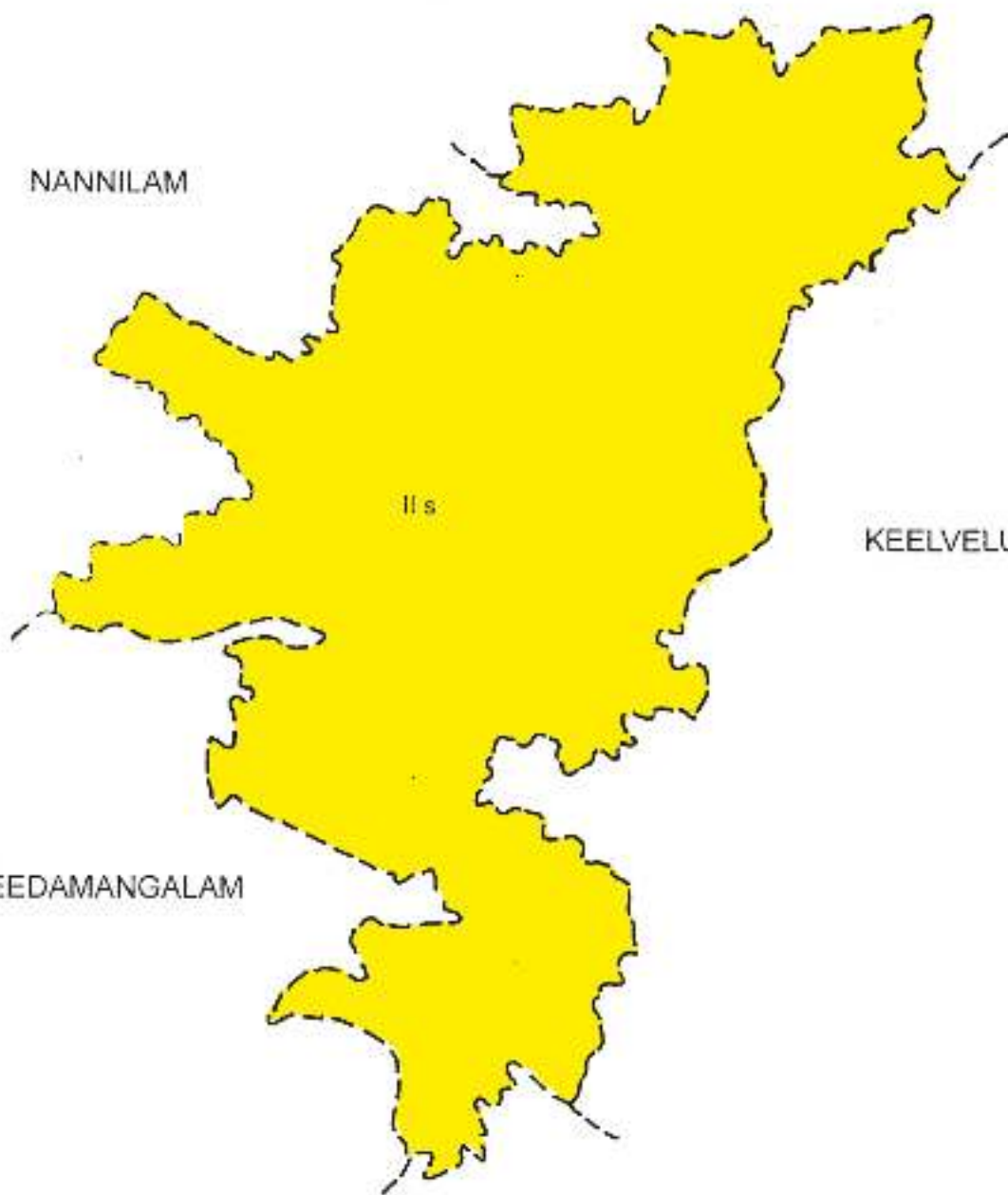
KEELVELUR

II s

LEGEND CLASS

 II - Moderate limitation

SUBCLASS
s - soil limitation



LAND IRRIGABILITY CLASSIFICATION

THIRUVARUR TALUK

Sl. No.	Soil series	Class, sub - class	Extent (ha)	% to total	Soil limitations
1.	Kivalur & Sikar	2sd - Lands that have moderate limitations for sustained use under irrigations	14,048	98.8	Texture, drainage, permeability, salinity / alkalinity.
2.	Sethi	3st - Lands that have severe limitations for sustained use under irrigation.	168	1.2	Texture, topography, permeability, salinity / alkalinity
Total			14,216	100.0	

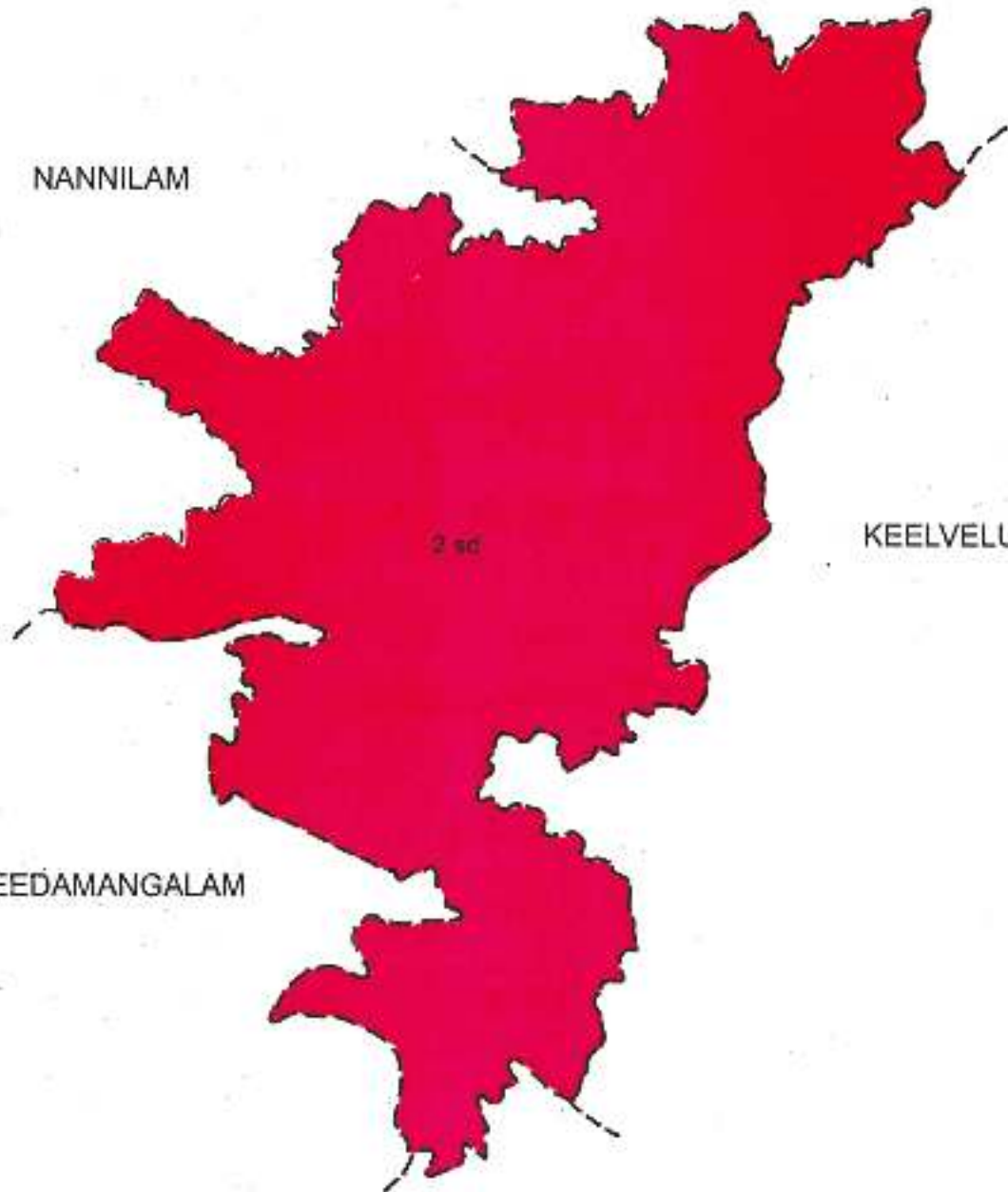
LAND IRRIGABILITY

THIRUVARUR TALUK



NAGAPPATTINAM

NANNILAM




KEELVELUR

NEEDAMANGALAM

THIRUTHURAIPOONDI

LEGEND

CLASS

 2 - Moderate limitation

SUBCLASS

s - soil limitation

d - drainage limitation

SOIL PRODUCTIVITY

THIRUVARUR TALUK

Sl. No.	Rating	Productivity classes	Soil series	Extent (ha)	% to total
1.	20-34	Average (A)	Kivalur, Sikar & Sethi	14,216	100.0
Total				14,216	100.0



SOIL PRODUCTIVITY

THIRUVARUR TALUK

NAGAPPATTINAM

NANNILAM

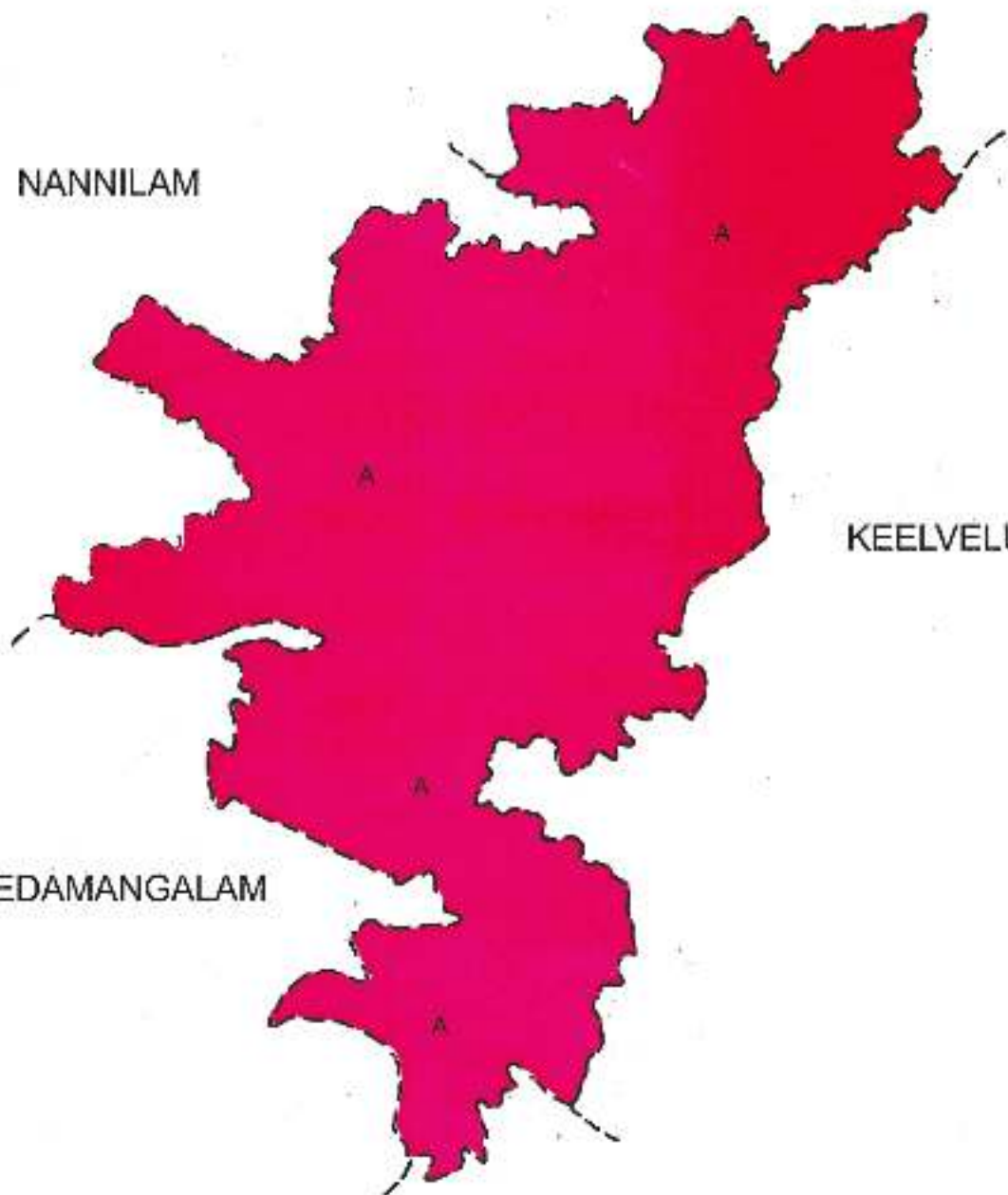
KEELVELUR

NEEDAMANGALAM

THIRUTHURAIPOONDI



AVERAGE (A)



CROPS GROWN

THIRUVARUR TALUK

Sl. No.	Crops grown		Map symbol	Soil series
	Irrigated	Rainfed		
1.	Paddy, Sugarcane & Cotton.	Pulses	10	Kivalur & Sikar

CROPS GROWN

THIRUVARUR TALUK

NAGAPPATTINAM

NANNILAM

10

KEELVELUR

NEEDAMANGALAM

10

THIRUTHURAIPOONDI

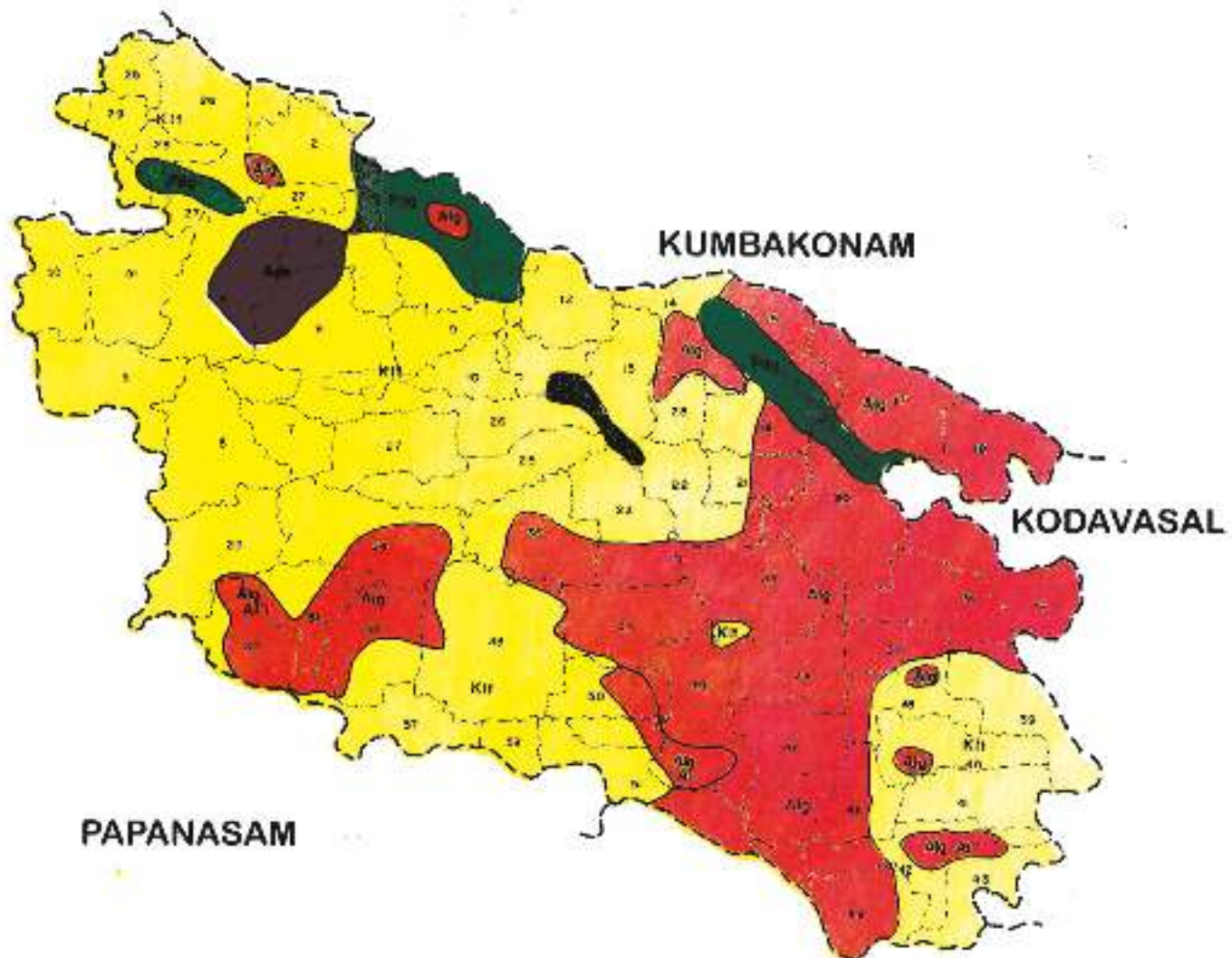


SOILS

VALANGAIMAN TALUK

Sl. No.	Soil series	Extent (ha)	% to total
1.	Kalathur (Klt)	16,056	59.2
2.	Adhanur (Adn)	470	1.7
3.	Alangudi (Alg)	9,177	33.9
4.	Alangudi - Alkaline (Alg - Alk)	404	1.5
5.	Padugai (Pdg)	1,008	3.7
Total ...		27,115	100.0

SOILS VALANGAIMAN TALUK



**REVENUE VILLAGE WISE SOIL DISTRIBUTION
VALANGAIMAN TALUK
THIRUVARUR DISTRICT**

Sl. No.	Village No.	Village name	Soil distribution (%)
1. Avoor firka			
1.	25	Allikkudi	Klt 100
2.	29	Uthamathanapuram	Alg 100
3.	26	Nallore	Klt 100
4.	27	Moolazhvancheri	Klt 100
5.	27-1	Avichavadi	Klt 100
6.	28	Salabogam	Klt 60, Alg 40
7.	50	Madhagaram	Klt 100
8.	51	Manallore	Klt 100
9.	1	Renganathapuram	Klt 100
10.	1-1	Kiliyur	Klt 100
11.	1-2	Inam kiliyur	Klt 100
12.	2	Govinthakudi	Pdg 45, Klt 35, Alg 20
13.	2-1	Singarampalayam	Pdg 30, Klt 60, Alg 10
14.	2-2	Vaniyankarambai	Klt 60, Pdg 30, Alg 10
15.	3	Avoor	Adn 40, Klt 40, Pdg 20
16.	4	Vellore	Klt 55, Adn 45
17.	4-1	Eari	Klt 100
18.	5	Maligaithidal	Klt 100
19.	6	Velankudi	Klt 100
20.	7	Veeramangalam	Klt 100
21.	8	Oothukadu	Klt 70, Adn 30
22.	9	Nallambore	Klt 100
23.	10	Veeranam	Klt 100

Sl. No.	Village No.	Village name.	Soil distribution (%)
24.	27	Kalathur	Klt 100
25.	28	Vilathur	Klt 60, Alg 40
26.	29	Manakkal	Alg 100
27.	29 - 1	Sadayankal	Klt 100
28.	30	Muniyur	Alg 80, Klt 20
29.	31	Kiliyur	Alg 45, Klt 55
30.	32	Avalivanallore	Alg 60, Klt 40
31.	57	Ragunathapuram	Kit 95, Pdg 5
2. Valangaiman firka			
32.	11	Ragunathapuram	Klt 90, Alg 10
33.	12	Chandrasekarapuram	Klt 95, Pdg 5
34.	13	Adhichamangalam	Klt 70, Alg 15, Pdg 15
35.	14	Virupatchipuram	Klt 55, Alg 45
36.	15	Valangaiman	Alg 40, Pdg 40, Klt 20
37.	16	Thozhuvur	Klt 60, Alg 25, Pdg 15
38.	17	Melavidayal	Alg 90, Pdg 10
39.	18	Keelavidayal	Alg 100
40.	19	Kandiyur	Alg 100
41.	20	Sithanvazhoor	Alg 90, Pdg 10
42.	21	Semmangudi	Klt 60, Alg 40
43.	22	Padagacheri	Klt 80, Alg 10 Pdg 10
44.	23	Puliyakudi	Klt 60, Alg 30, Pdg 10
45.	24	Maruvathoor	Klt 60, Alg 40
46.	25	Therkkupattam	Klt 100
47.	26	Veddakkupattam	Klt 100
48.	36	Mathur	Alg 100

Sl. No.	Village No.	Village name	Soil distribution (%)
3. Alangudi firka			
49.	33	Haridhuvarangalam	Klt 80, Alg 20
50.	34	Perungudi	Alg 95, Klt 5
51.	35	Thiruvonamangalam	Alg 100
52.	35-1	Amaravathi	Alg 95, Klt 5
53.	37	Rajendranallore	Alg 95, Klt 5
54.	38	Poonairuppur	Klt 55, Alg 45
55.	39	Saranatham	Klt 90 Alg 10
56.	40	Ragunathapuram	Klt 90 Alg 10
57.	41	Manickamangalam	Klt 95, Alg 5
58.	42	Aravathore	Klt 80, Alg 20
59.	43	Aravoor	Klt 80, Alg 20
60.	43-1	Payathancheri	Alg 10, Klt 90
61.	44	Kottaiyur	Alg 80, Klt 20
62.	45	Narthangudi	Alg 100
63.	46	Pappagudi	Alg 85, Klt 15
64.	47	Pulavarnatham	Alg 100
65.	48	Alangudi	Alg 95, Klt 5
66.	49	Poonthottam	Alg 100
67.	50	Kethanor	Alg 55, Klt 45
68.	51	Thenkuvalaveli	Klt 60, Alg 40
69.	51-1	Erumaippadugai	Klt 70, Alg 30
70.	52	Nemmelikudi	Klt 80 Alg 20
71.	53	Nemmelikudi-Padugai	Klt 60, Alg 40

FERTILITY INDICES FOR THE VILLAGES IN VALANGAIMAN TALUK

THIRUVARUR DISTRICT

Sl. No.	Village No.	Name of village	Fertility indices (Kg/ac)		
			N	P ₂ O ₅	K ₂ O
1.	26	Nallur	49	88	153
2.	51	Manallur	49	35	188
3.	2	Govinthakudi	57	15	209
4.	3	Avoor	61	55	305
5.	7	Veerasmangalam	49	39	259
6.	9	Nallambur	61	14	177
7.	10	Veranam	79	108	72
8.	27	Kalathur	49	76	230
9.	28	Vilathur	49	44	83
10.	30	Muniyur	57	41	192

Sl. No.	Village No.	Name of village	Fertility Indices (Kg/ac)		
			N	P ₂ O ₅	K ₂ O
11.	57	Ragunathapuram	45	07	247
12.	12	Chandrasekarapuram	57	168	213
13.	13	Adhichamangalam	49	77	230
14.	15	Valangaiman	53	43	168
15.	16	Thozhuvoor	57	74	263
16.	18	Keelavidayal	63	268	233
17.	19	Kandiyur	45	25	280
18.	20	Sithanvazhur	53	02	175
19.	21	Semmangudi	71	100	141
20.	23	Puliyakudi	52	249	306

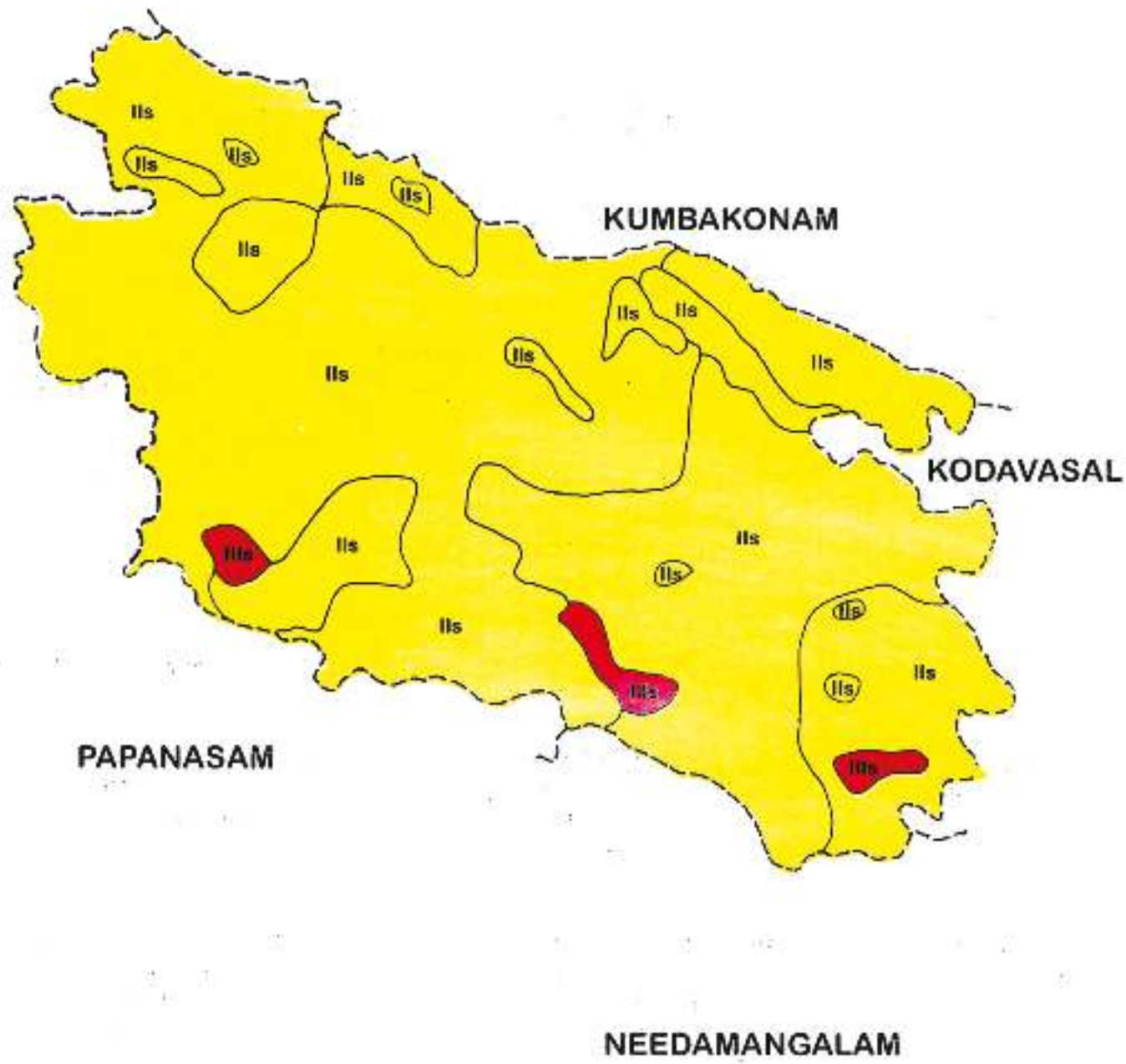
Sl. No.	Village No.	Name of village	Fertility Indices (Kg/ac)		
			N	P ₂ O ₅	K ₂ O
21.	24	Maruvathur	49	90	260
22.	26	Vadakkupattam	53	38	175
23.	35	Thiruvonamangalam	53	07	150
24.	35 - 1	Amaravathi	53	40	203
25.	38	Poonairuppu	49	74	233
26.	41	Manickamangalam	53	73	163
27.	43 - 1	Payathancheri	53	100	413
28.	44	Kottaiyur	57	48	178
29.	45	Narthangudi	77	88	244
30.	47	Puluvamatham	45	33	130
31.	48	Alangudi	53	05	260
32.	49	Poonthottam	75	120	210
33.	50	Kethanoor	53	39	241

LAND CAPABILITY CLASSIFICATION

VALANGAIMAN TALUK

Sl. No.	Soil series	Class, sub - class	Extent (ha)	% to total	Soil limitations	Special needs
1.	Kalathur, Adhanur and Alangudi.	IIs- Lands that have moderate limitations for sustained use under agriculture	25,703	94.8	Texture, drainage, salinity / alkalinity.	Drainage improvement and soil breeding
2.	Padugai	IIs- Lands that have moderate limitations for sustained use under agriculture	1,008	3.7	Surface run off	Adoption of conservation irrigation methods
3.	Alangudi - Alkaline	IIIs- Lands that have severe limitations for sustained use under agriculture	404	1.5	Texture, drainage, salinity / alkalinity	Drainage improvement, soil breeding and soil reclamation
Total			27,115	100.0		


LAND CAPABILITY VALANGAIMAN TALUK



LEGEND

CLASS

 II - Moderate limitation

 III - Severe limitation

SUBCLASS

s - soil limitation

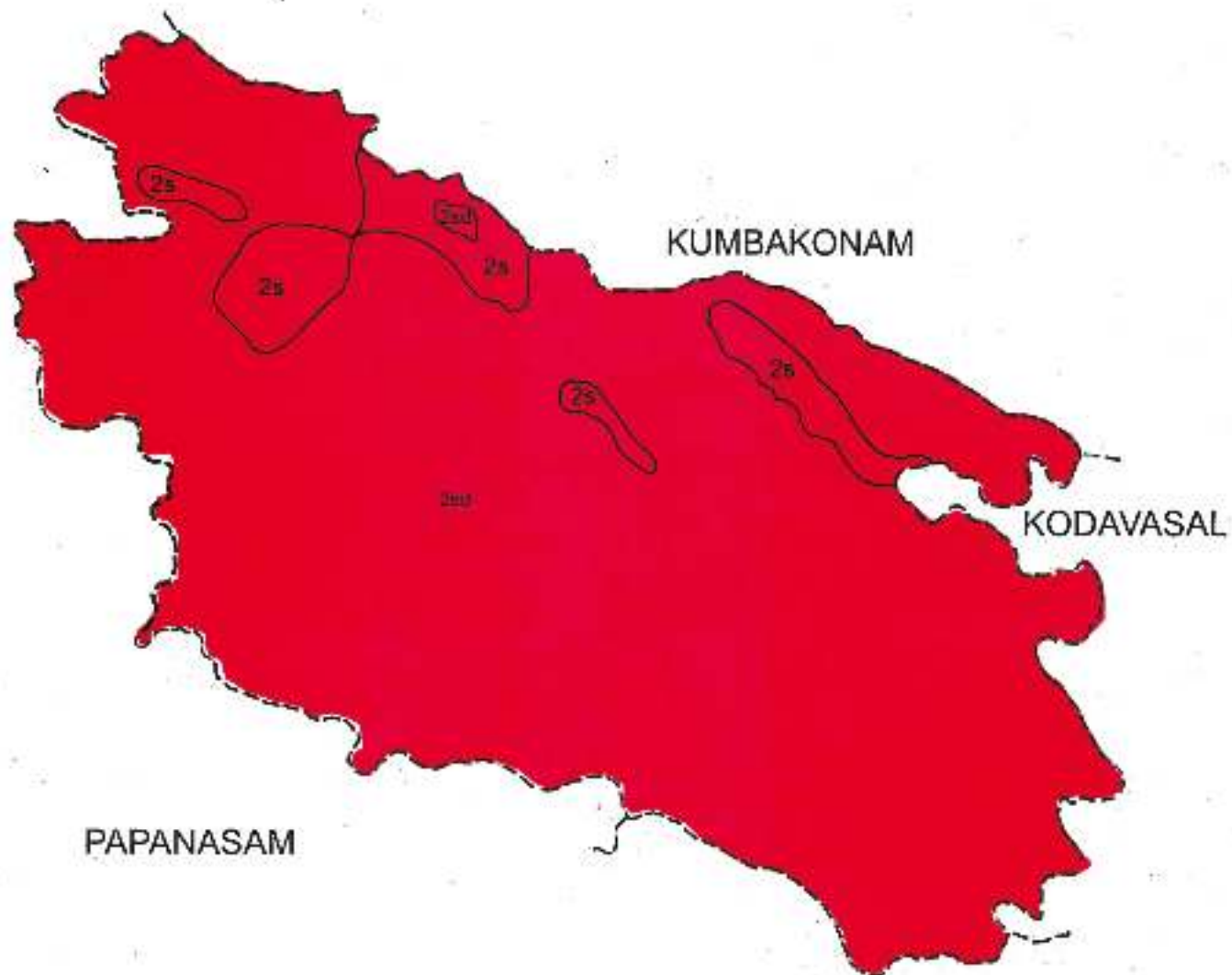
LAND IRRIGABILITY CLASSIFICATION

VALANGAIMAN TALUK

Sl. No.	Soil series	Class, sub - class	Extent (ha)	% to total	Soil limitations
1.	Padugai	2s - Lands that have moderate limitations for sustained use under irrigation	1,008	3.71	Topography
2.	Adhanur	2s - "	470	1.7	Permeability & texture
3.	Kalathur and Alangudi	2sd- Lands that have moderate limitations for sustained use under irrigation	25,233	93.1	Drainage, permeability and texture
4.	Alangudi - Alkaline	3 sd - Lands that have severe limitations for sustained use under irrigation.	404	1.5	Drainage, permeability, texture and alkalinity
Total			27,115	100.0	

LAND IRRIGABILITY

VALANGAIMAN TALUK



LEGEND

CLASS

 2 - Moderate limitation

SUBCLASS

s - soil limitation

d - drainage limitation

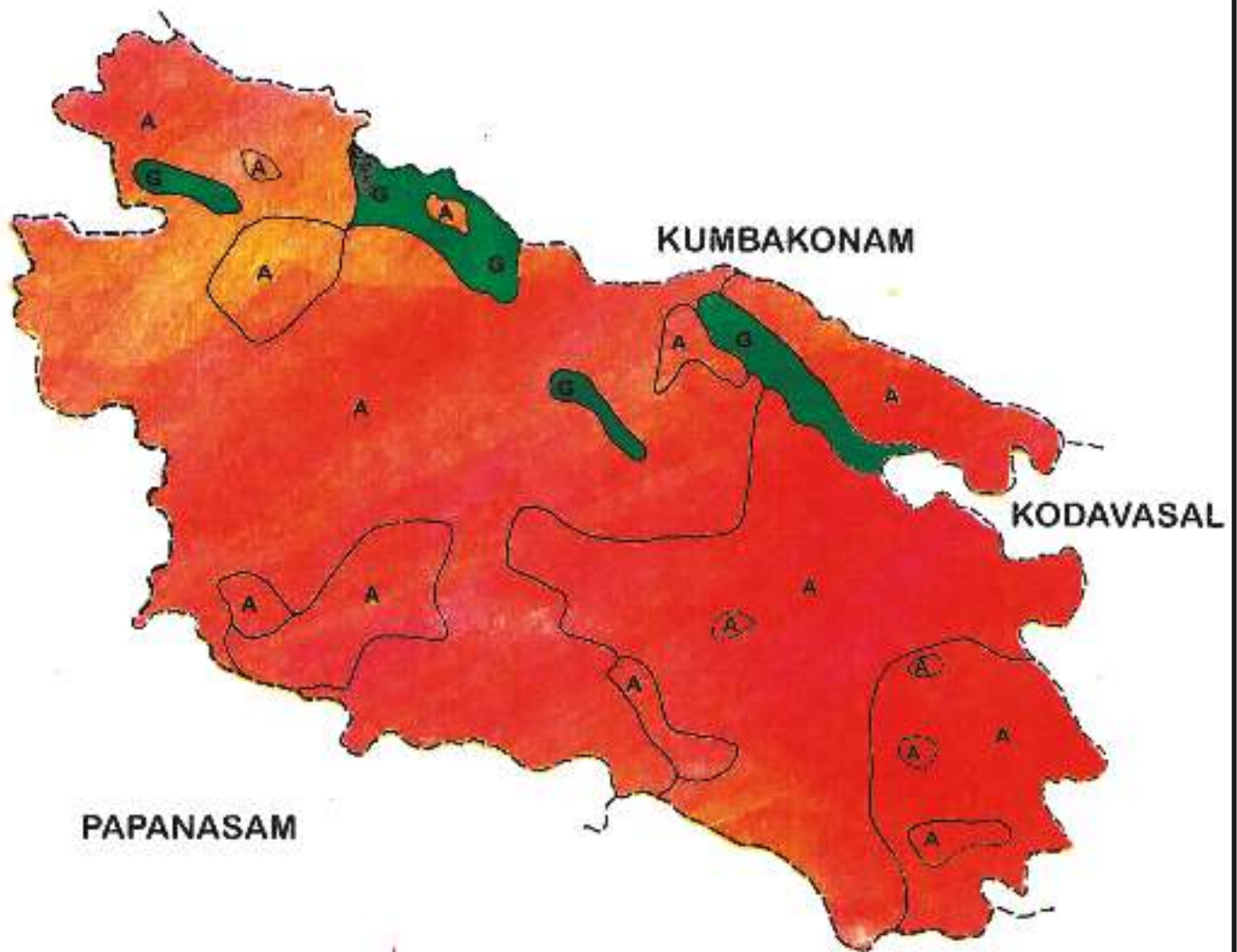
SOIL PRODUCTIVITY

VALANGAIMAN TALUK

Sl. No.	Rating	Productivity classes	Soil series	Extent (ha)	% to total
1.	8 - 19	Poor (P)	Alangudi - Alkaline.	404	1.5
2.	20 - 34	Average (A)	Kalathur, Adhanur and Alangudi.	25,703	94.8
3.	35 - 64	Good (G)	Padugai	1,008	3.7
Total				27,115	100.0

SOIL PRODUCTIVITY

VALANGAIMAN TALUK



-  - 35 - 64 GOOD (G)
-  - 20 - 34 AVERAGE (A)

CROPS GROWN

VALANGAIMAN TALUK

Sl. No.	Crops grown		Map symbol	Soil series
	Irrigated	Rainfed		
1.	Paddy, Sugarcane and Cotton	Pulses	10	Kalathur, Adhanur and Alangudi.
2.	Paddy and Sugarcane	—	10	Alangudi - Alkaline
3.	Banana, Sugarcane, Vegetables, Flowers and Paddy	Groundnut, Gingelly and Eucalyptus	3	Padugai

CROPS GROWN VALANGAIMAN TALUK

