



SOIL ATLAS

THANJAVUR DISTRICT



SOIL SURVEY & LAND USE ORGANISATION

(DEPARTMENT OF AGRICULTURE TAMIL NADU)

COIMBATORE 641 013

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வீரபாண்டி எஸ். ஆறுமுகம்
வேளாண்மைத் துறை அமைச்சர்



தலைமைச் செயலகம்
சென்னை 600 009

அணிந்துரை

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

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

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

அன்புடன்,

வீரபாண்டி எஸ். ஆறுமுகம்
29.4.23



நா. ஆதிமுலம், இ.ஆ.ய.
அரசு செயலர்



வேளாண்மைத் துறை
சென்னை 600 009

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 அமையச் செய்வது காலத்தின் கட்டாயமாகும். அதிலும் குறிப்பாக ஒன்பதாவது ஐந்தாண்டுத் திட்டத்தின் துவக்கத்திலேயே இப்பணி நடைபெறுவது சாவச்சிறந்தது ஆகும். ஏனெனில் இத்திட்டப் பெரு நோக்கங்களில் ஒன்றாக மண்வளம் சார்ந்த இளங்களை அடையாளம் காண்டு செயல்படுவது மிகவும் வலியுறுத்தப்பட்டுள்ளது.

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

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

மிகப் 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 வண்ணமிக வடிவிலும், விவரப்பொலிவுடனும் அச்சேறி தற்போது நற்பயன் அளிக்கும் நிலை பெற்றுள்ளன. வேளாண்மை இயக்குநராக அன்று நான் துவக்கிய பணி, செயலராகப் பொறுப்பேற்றுள்ள இந்நாளில் மலர்ந்து மீளீவது குறித்து மட்டற்ற மகிழ்ச்சி அடைகிறேன். அத்துடன் இத்தொகுப்பேட்டுவிவரங்கள் நான் திட்டமிடல், ஏறா முகத் திட்டம் போன்றவற்றிற்கும் ஆதாரமாய் அமைகின்றன. புதிய சாதனைகளைத் தொடுவோரை வள்ளுவர்,

வாரிப்பெருக்கி வளக்கட்டு உற்றவை
ஆராய் வான் எனப் பெருமைப்படுத்துவார்.

அவர் கூற்றுப்படி ஆராய முனைவோர்க்கு முன்னோடியாகவும், முதன்மைப் பின்புலமாகவும் இத்தொகுப்பேட்டு அமைந்துள்ளது என்பதில் பெரிதும் மகிழ்வடைகிறேன்.

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

(ஓம்) நா. ஆதிமுலம்
அரசு செயலர்
வேளாண்மைத்துறை

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



செப்பாக்கம்
சென்னை 600 005

அணிந்துரை

நில மடந்தை 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 கருங்கி வரும் சாகுபடிப் பரப்பு ஆகியவை இவற்றுள் அடங்கும். இந்த வகையில் பல மண்வகையீட்டு முயற்சிகள் தேசிய அளவிலும், மாநில அளவிலும் எடுக்கப்பட்டுவந்துள்ளன. அந்நாட்களில் சென்னை இராஜதானியில் நடத்தப்பட்ட மண்வகையீட்டுமுயற்சி இதன் துவக்கம் எனலாம். இதுவும் பின்னர் நடத்தப்பட்ட திட்டங்களும், குறிப்பிட்ட நோக்கத்திற்காகவே அமல் செய்யப்பட்டன. இதன் உச்சக்கட்டமாக 1960 ம் ஆண்டில் தரமான மண்வகையீட்டுத் திட்டம் ஒன்று மண்வகைகளின் தன்மைகளை விரிவாகவும் விளக்கமாகவும் கூர்ந்தாய்வு செய்திட அறிமுகம் செய்யப்பட்டது.

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

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

(ஒ.ய்.) க. அருள்மொழி
வேளாண்மை இயக்குநர்

THANJAVUR

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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

THANJAVUR DISTRICT

Thanjavur district is bounded on the north east by Nagapattinam district, north by Tiruchirapalli, Perambalur and Cuddalore districts, east by Thiruvarur district, south-east by Palk strait, west by Pudukkottai and north-west by Tiruchirappalli district.

Geocode

North latitude	10° 08' to 11° 12'
East longitude	78° 48' to 79° 38'

Agro Ecological Region :

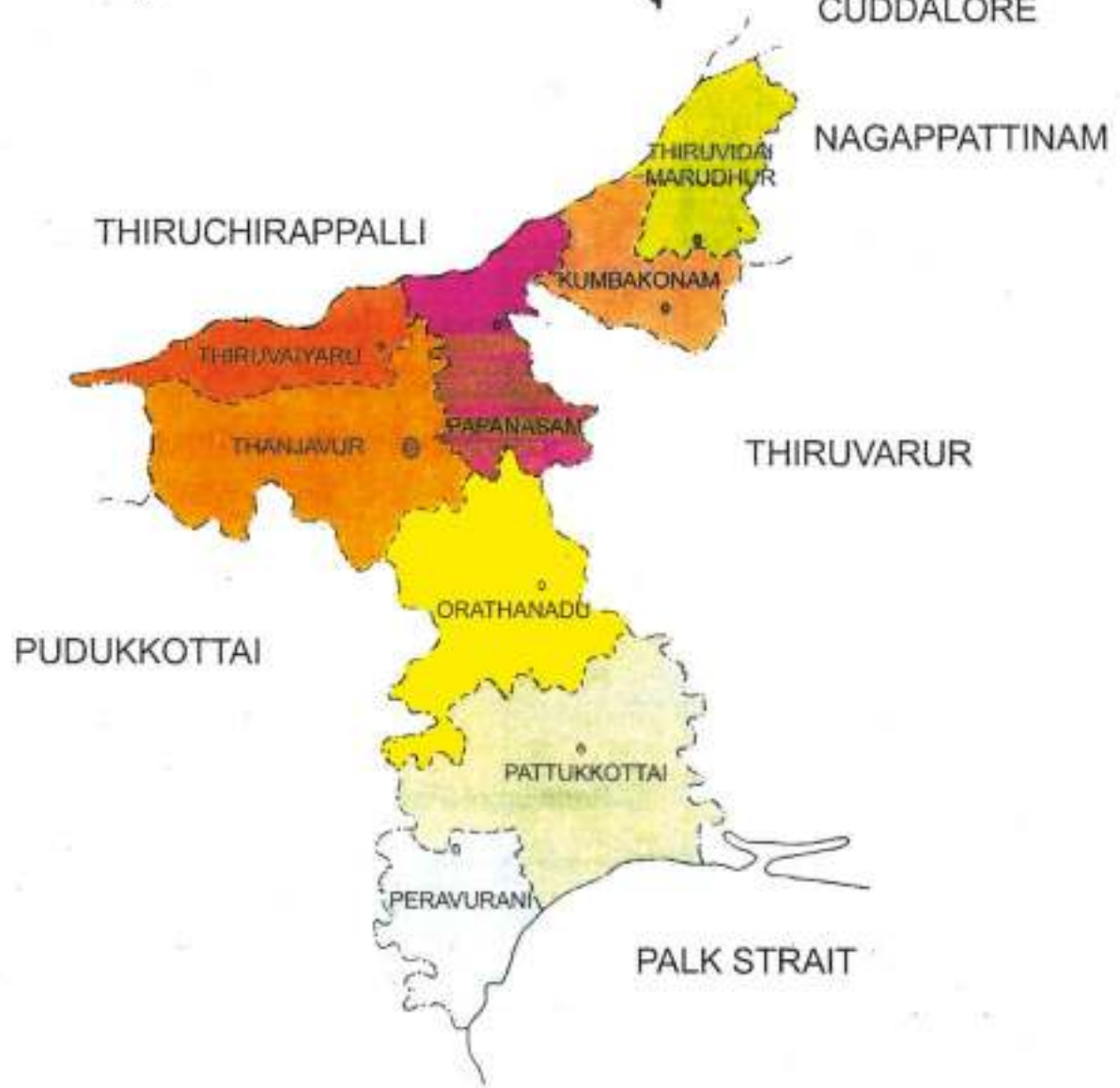
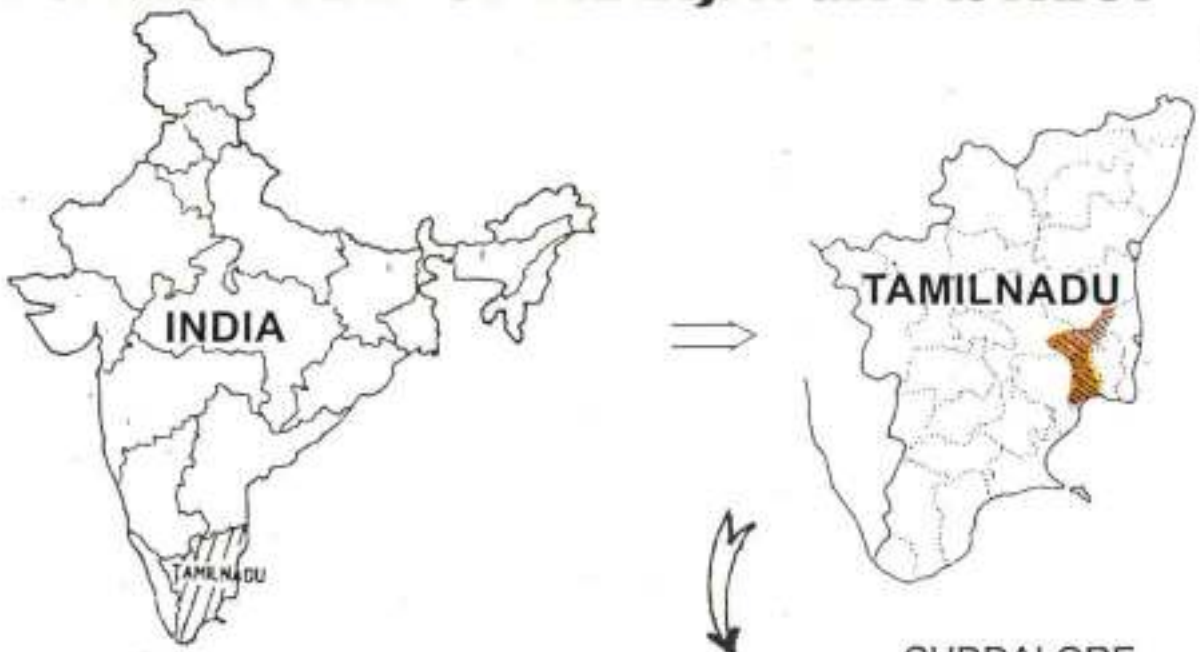
Region 8: Semi-arid ecosystem (90%) - Eastern ghats, Tamilnadu uplands-hot semiarid ecosystem with a crop growing period of 90 to 120 days.

Region 18: Coastal ecosystem (10%) - Eastern coastal plain hot sub-humid to semi-arid ecoregion and with a crop growing period of 90 to 210 days.

Agroclimatic Zone: Sub zone IV - Cauvery delta zone.



LOCATION MAP OF THANJAVUR DISTRICT



TALUKS & PANCHAYAT UNIONS

THANJAVUR DISTRICT

S.No.	Taluks	Panchayat unions
1.	Thanjavur	Thanjavur & Budalur (Part)
2.	Thiruvaiyaru	Thiruvaiyaru & Budalur (Part)
3.	Orathanadu	Orathanadu & Thiruvonam
4.	Kumbakonam	Kumbakonam & Thiruvidaimarudhur (Part)
5.	Thiruvidaimarudhur.	Thiruvidaimarudhur (Part) & Thirupanandal
6.	Papanasam	Papanasam & Ammapettai
7.	Pattukkottai	Pattukkottai, Peravurani (Part) & Madukkur
8.	Peravurani	Peravurani (Part) & Sethubavachatram

THANJAVUR DISTRICT

TALUK & UNION



TAMILNADU

CUDDALORE

THIRUCHIRAPPALLI

NAGAPPATTINAM

Tiruppanan dal

THIRUVIDAI MARUDHUR

PAPANASAM

KUMBAKONAM

THIRUVAIYARU

Ammapet

Budalur

THANJAVUR

THIRUVARUR

GRATHANADU

PUDUKKOTTAI

Tiruvonam






Modukkur

PATTUKKOTTAI

Thuvave ram

PALK STRAIT

REFERENCE

- DISTRICT BOUNDARY 
- TALUK BOUNDARY 
- UNION BOUNDARY 
- COASTAL BOUNDARY 
- DISTRICT HEAD QUARTER 

ROADS AND RAILWAYS

THANJAVUR DISTRICT

Thanjavur district is well connected with a net work of roads and railways. The total length of the road in the district is 2014km with concrete, black topped , metal and non - metaled roads. The important roads are as follows.

State Highways.

Tiruchirapalli to Nagapattinam road via Thanjavur.

Thanjavur to Thiruvaiyaru and

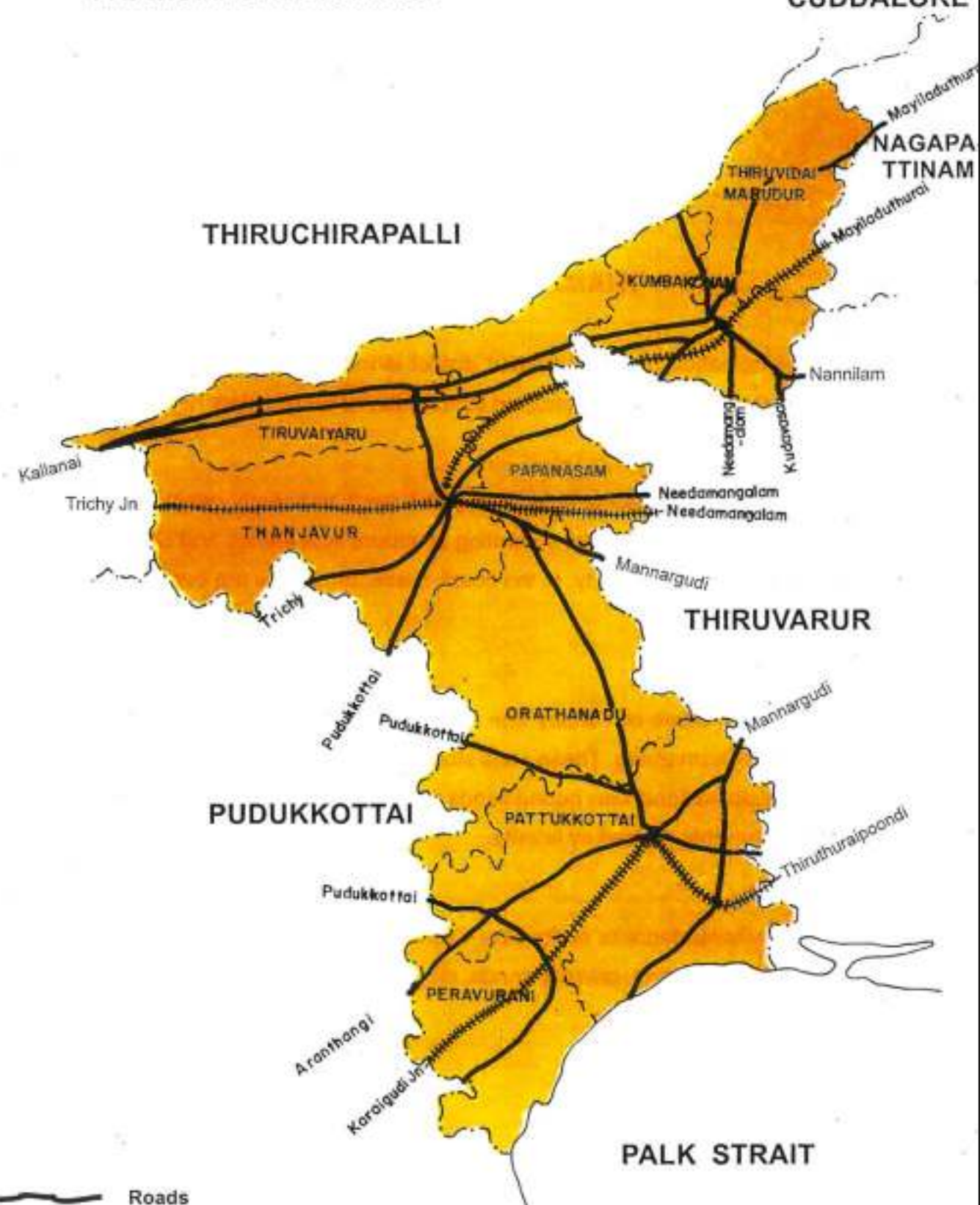
Thanjavur to Pudukottai.

The major district roads connect Thanjavur with all taluk headquarters

The district is served by both metre and broad gauge railways (Southern Railways) to a total length of 151km having 27 railways stations with one junction viz., Thanjavur.

ROADS & RAILWAYS

THANJAVUR DISTRICT



-  Roads
-  Railway Line

GEOLOGY

THANJAVUR DISTRICT

The geological formation of the Thanjavur district is made up of Cretaceous, Tertiary and Alluvial deposits and the major area is occupied by the Alluvial and Tertiary deposits.

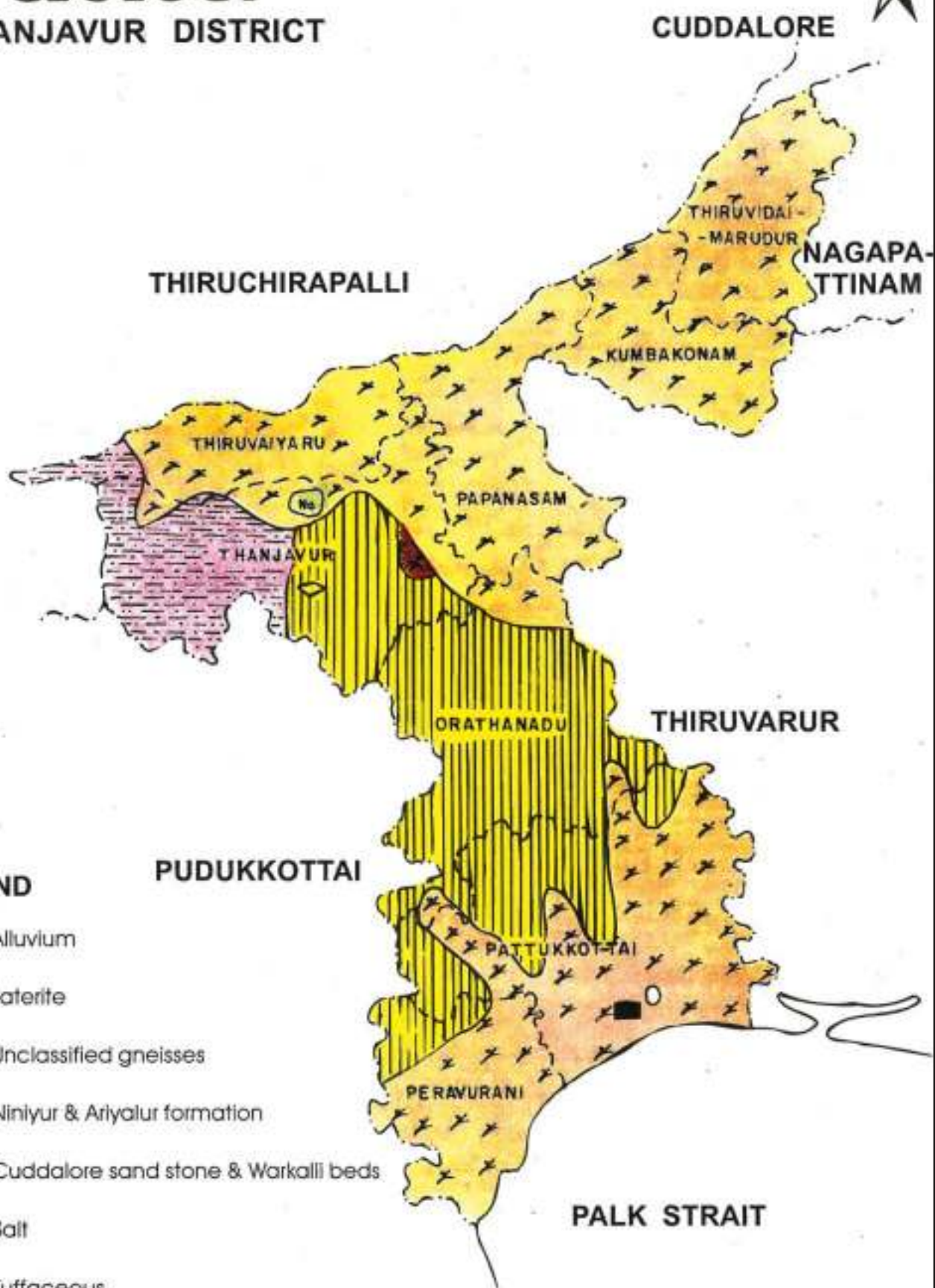
The Cretaceous formations occur as a small patch west and south - west of Vallam. These formations have a very thick lateritic cap, consisting of impure lime stones and sand stones of silt, clay calcareous and argillaceous variety. In the coast, these formations are overlain by Cuddalore sand stone of Tertiary age.

The Cuddalore sand stone of Tertiary age are well developed as best seen west of Grand Anaicut Canal and near Orathanadu. These sand stones are covered by a thin layer of wind blown sandy clays, unconsolidated sand, clay bound sands and mottled clays with the lignite seams. This tertiary formation is invariably capped by laterite.









In the east, the alluvial deposits of the river Cauvery and its tributaries lie over the Tertiary sand stone. They consist of sands, gravelly sands, clays and sandy clays. The thickness of these formations ranges from 30m to 400m.

GEOLOGY

THANJAVUR DISTRICT



LEGEND

-  Alluvium
-  Laterite
-  Unclassified gneisses
-  Niniyur & Ariyalur formation
-  Cuddalore sand stone & Warkalli beds
-  Salt
-  Tuffaceous
-  Ilmenite & Garnet sands

PHYSIOGRAPHY

THANJAVUR DISTRICT

Thanjavur district is essentially a deltaic terrain with occasional residual hills ranging in elevation between 25 and 45 metres in the western part popularly known as the Vallam table land. It is sloping gently towards the east.

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

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

- P** Coastal plain
- Pe** East coast plain
- Pec** Tamilnadu east coast plain

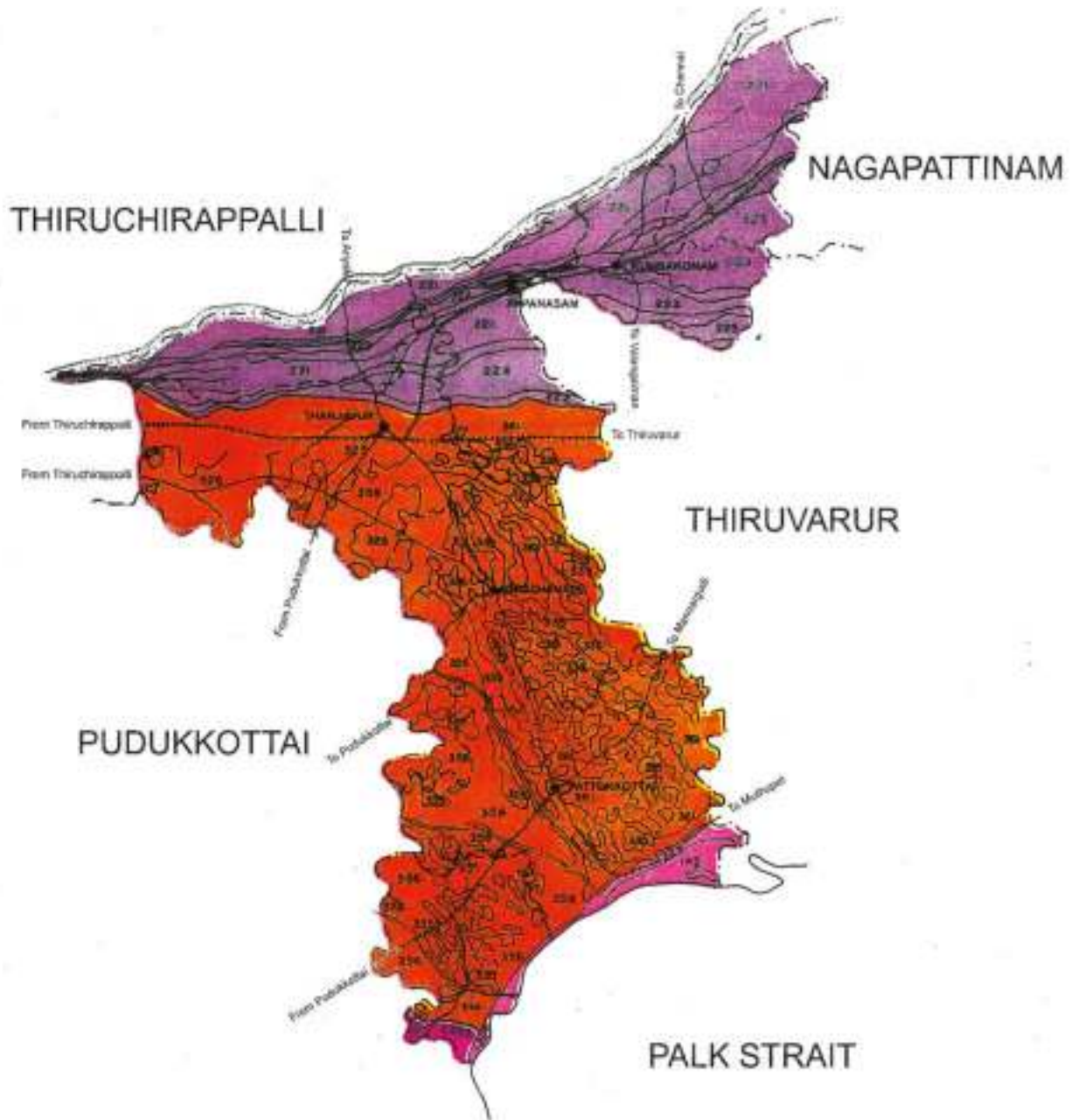
Further subdivisions are made on the basis of differences in local conditions such as landscape elements together with image characteristics pertaining to tone, texture, colour etc.

- Pec 1** Marine land form 1226 & 1227 - Sandy Plain
145 - Swamp and marshy
- Pec 2** Riverine land form 221, 222, 223, 224 - Deltaic plain
2393 - Flat lands - tank irrigated
- Pec 3** Laterite land form 312 - Laterite outcrops
325 & 326 - Undulating to gently sloping
333 & 335 - Gently sloping
356 & 361 - Valley / low land.

PHYSIOGRAPHY THANJAVUR DISTRICT



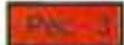


CUDDALORE



LEGEND

Pec - Tamilnadu East Coast Plain

-  Pec-1 Marine land form (145, 1226 & 1227)
-  Pec-2 Riverine land form (221, 222, 223, 224 & 2393)
-  Pec-3 Laterite land form (312, 325, 326, 333, 335, 356 & 361)

RIVER BASINS - WATERSHEDS

THANJAVUR DISTRICT

Four important tributaries of river Cauvery are flowing through this district substantially benefitting the agricultural activity. The Cauvery and Vennar basins are called as old deltaic basin while the Grand Anaicut canal basin is referred to as New Deltaic basin.

River basins	Taluks
1. Cauvery	Thiruvaiyaru, Papanasam, Kumbakonam and Thiruvudaimarudhur.
2. Vennar	Thanjavur & Papanasam,
3. Grand Anaicut canal	Thanjavur, Orathanadu, Pattukkottai and Peravurani

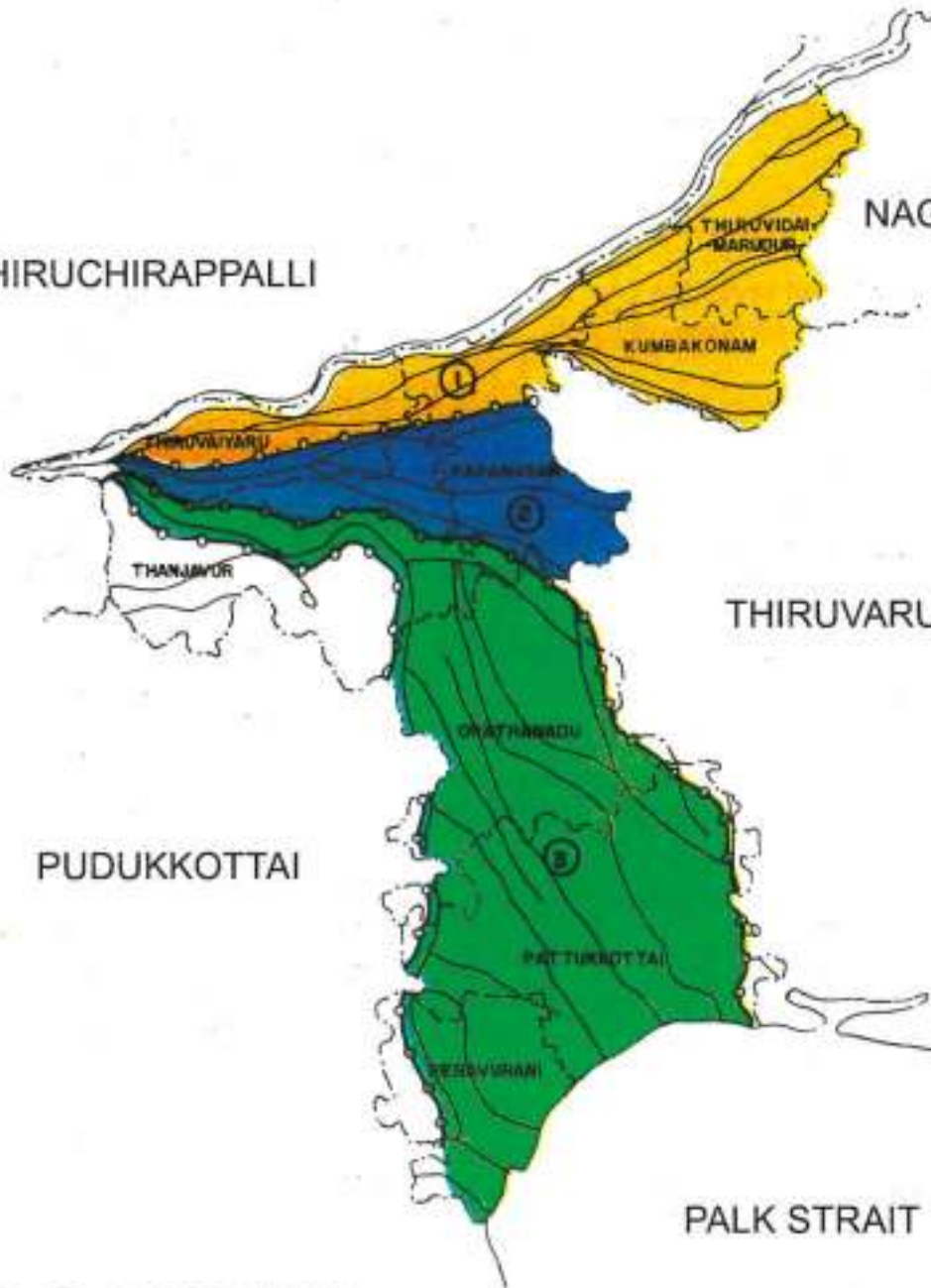
RIVER BASIN & WATER SHED THANJAVUR DISTRICT



CUDDALORE

NAGAPATTINAM

THIRUCHIRAPPALLI



THIRUVARUR

PUDUKKOTTAI

PALK STRAIT



BASIN BOUNDARY



RIVER



CAUVERY BASIN



VENNAR BASIN



GRAND ANICUT CANAL BASIN

RAINFALL - DISTRIBUTION

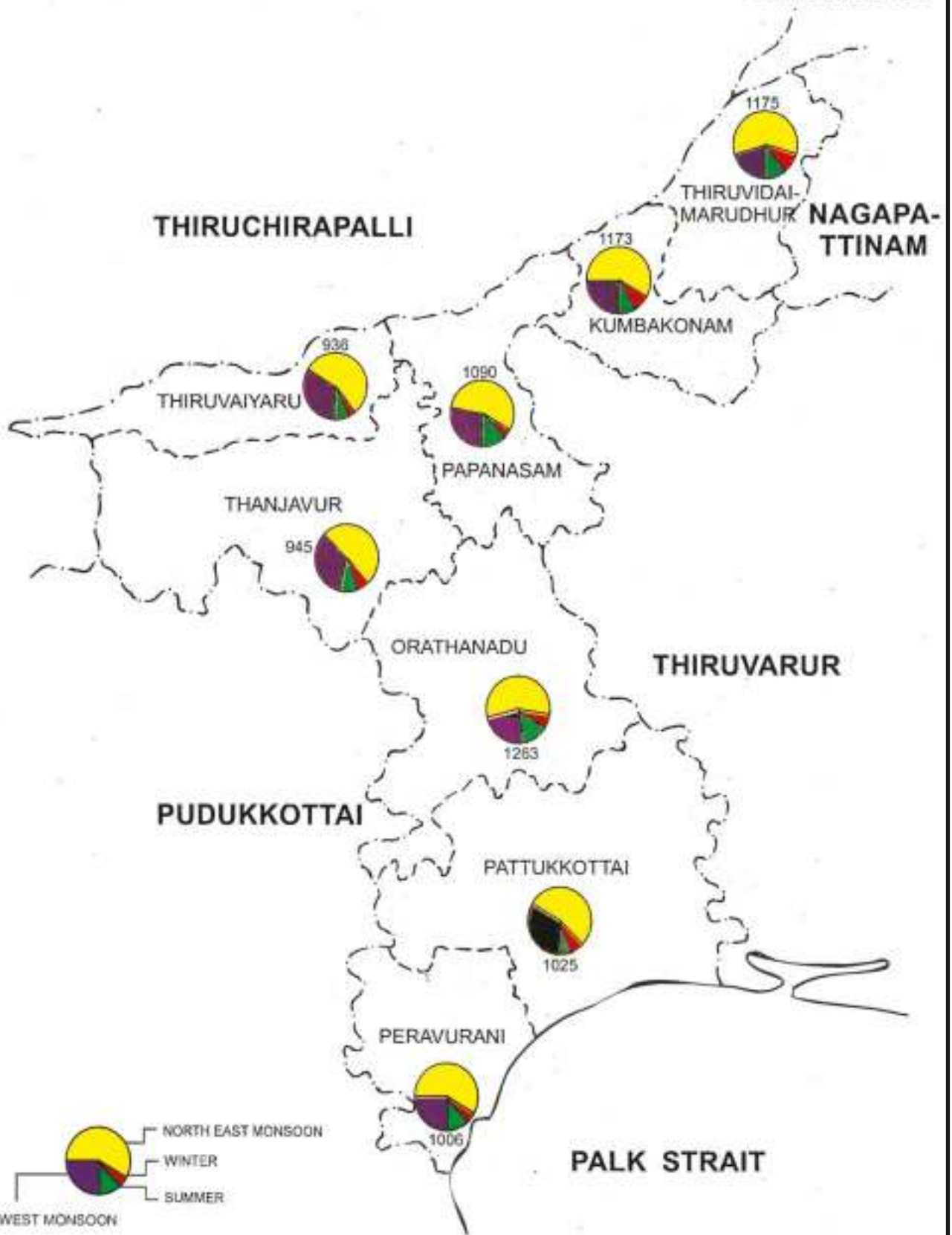
THANJAVUR DISTRICT

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

Sl. No.	Taluks	Mean annual rainfall (mm)	Seasonal rainfall							
			S.W. Monsoon		N.E. Monsoon		Winter		Summer	
			mm	%	mm	%	mm	%	mm	%
1.	Thanjavur	945	334	35	510	54	11	1	90	10
2.	Thiruvaiyaru	936	285	31	562	61	11	1	67	7
3.	Papanasam	1,090	281	25	681	63	21	2	107	10
4.	Kumbakonam	1,173	289	25	788	67	30	3	66	5
5.	Tiruvidimarudhur	1,175	241	21	830	70	43	4	61	5
6.	Pattukottai	1,025	275	26	663	65	20	2	67	7
7.	Peravurani	1,006	242	24	685	68	11	1	68	7
8.	Orathanadu	1,263	233	18	753	60	25	2	252	20

RAINFALL

THANJAVUR DISTRICT



945 mm MEAN ANNUAL RAINFALL

TEMPERATURE

THANJAVUR DISTRICT

The atmospheric temperature data recorded over a period of 70 Years (1927 - 1996) was computed and 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.

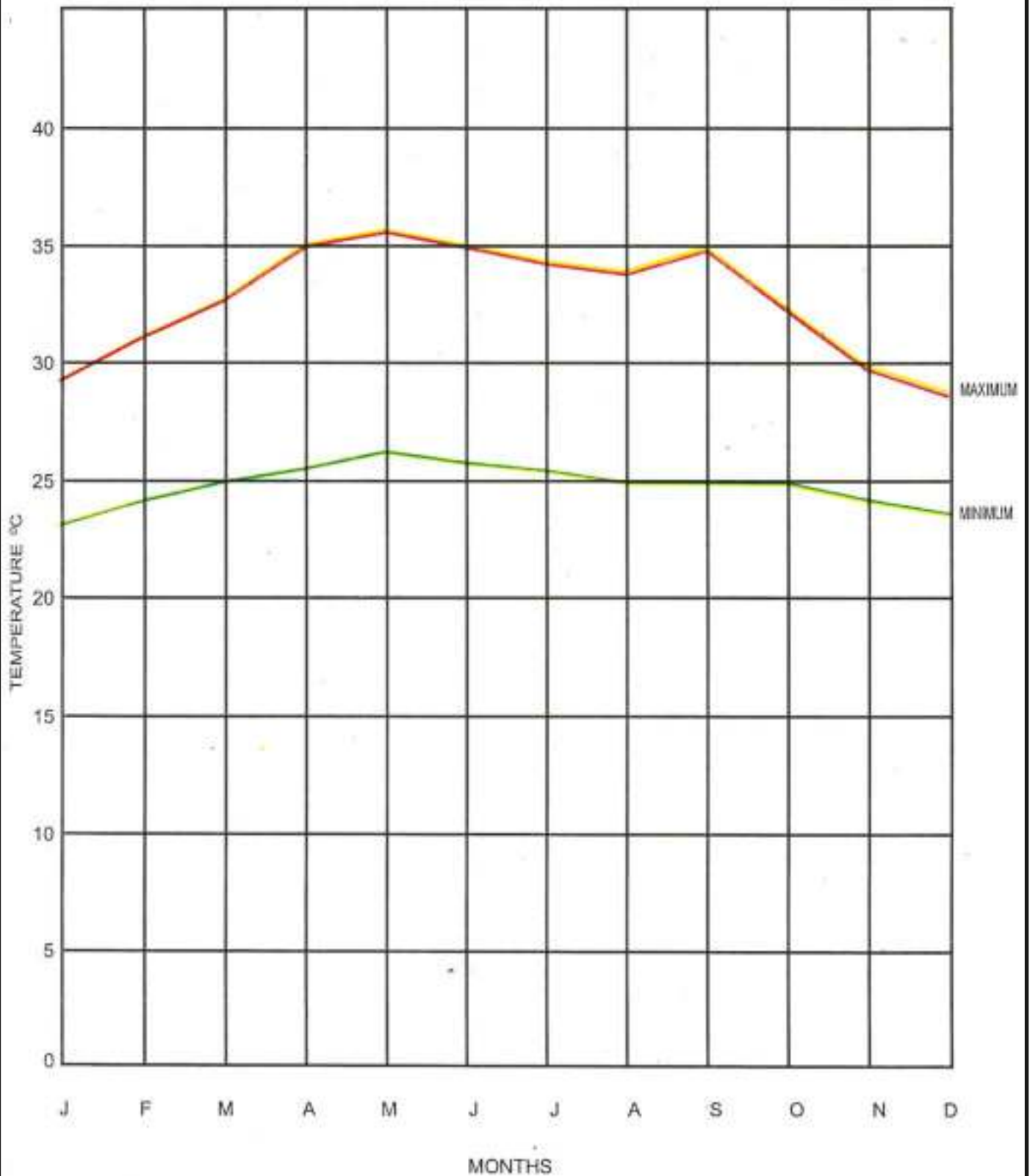
Soil Moisture regime : USTIC.

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	27	31.5
6.	June	35	26	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	27.0
12.	December	29	23	26.0

TEMPERATURE

THANJAVUR DISTRICT



OMBROTHERMIC DATA

THANJAVUR DISTRICT

The mean monthly rainfall and temperature of Thanjavur district over 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	45	26
2.	February	17	28
3.	March	15	29
4.	April	35	31
5.	May	53	32
6.	June	35	31
7.	July	50	30
8.	August	101	30
9.	September	110	30
10.	October	199	29
11.	November	288	27
12.	December	164	26

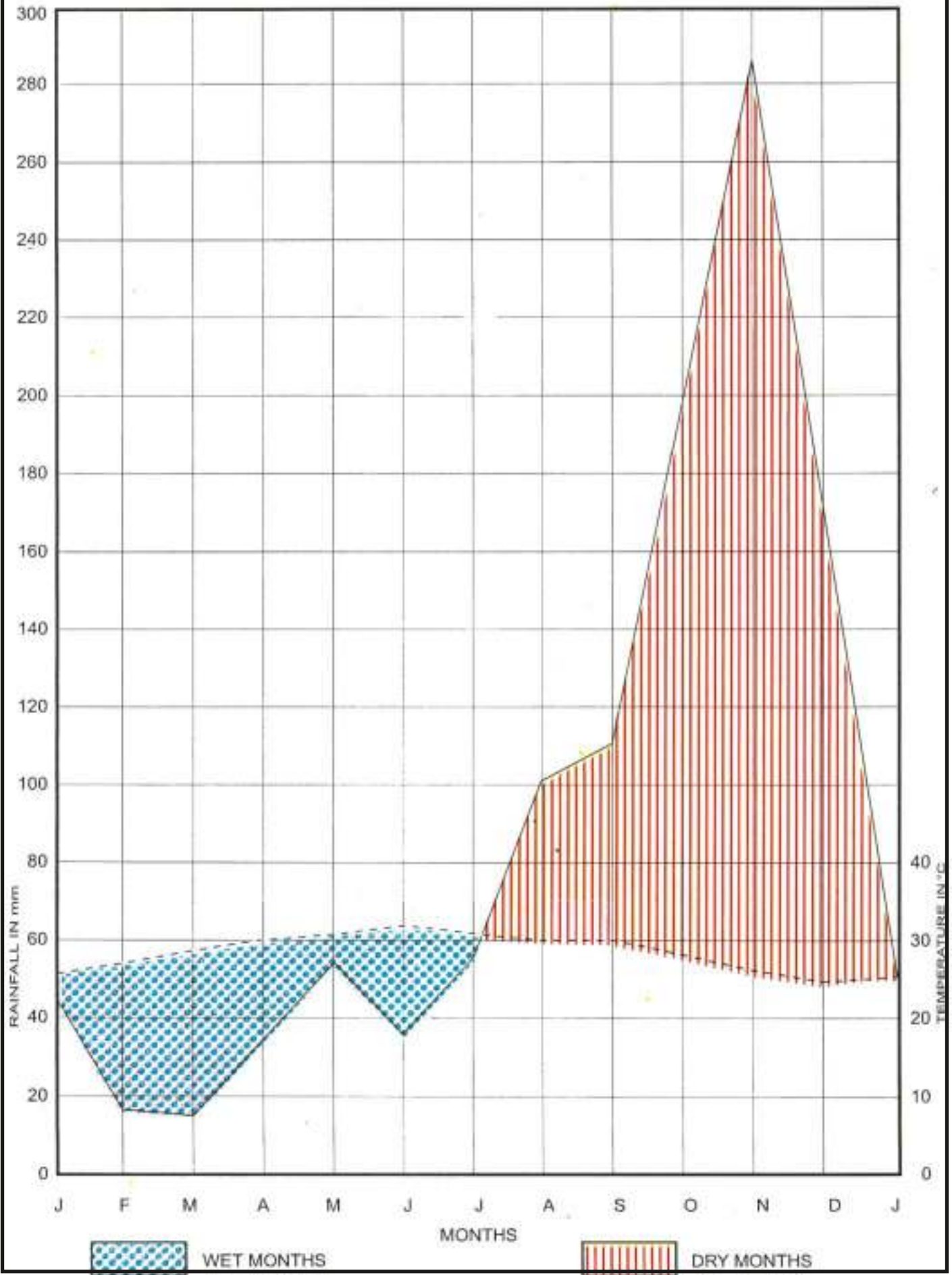
Season	(mm)
Winter (January & February)	= 62
Summer (March & May)	= 103
South West Monsoon (June to September)	= 296
North East Monsoon (October to December)	= 651
Total	= 1112

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



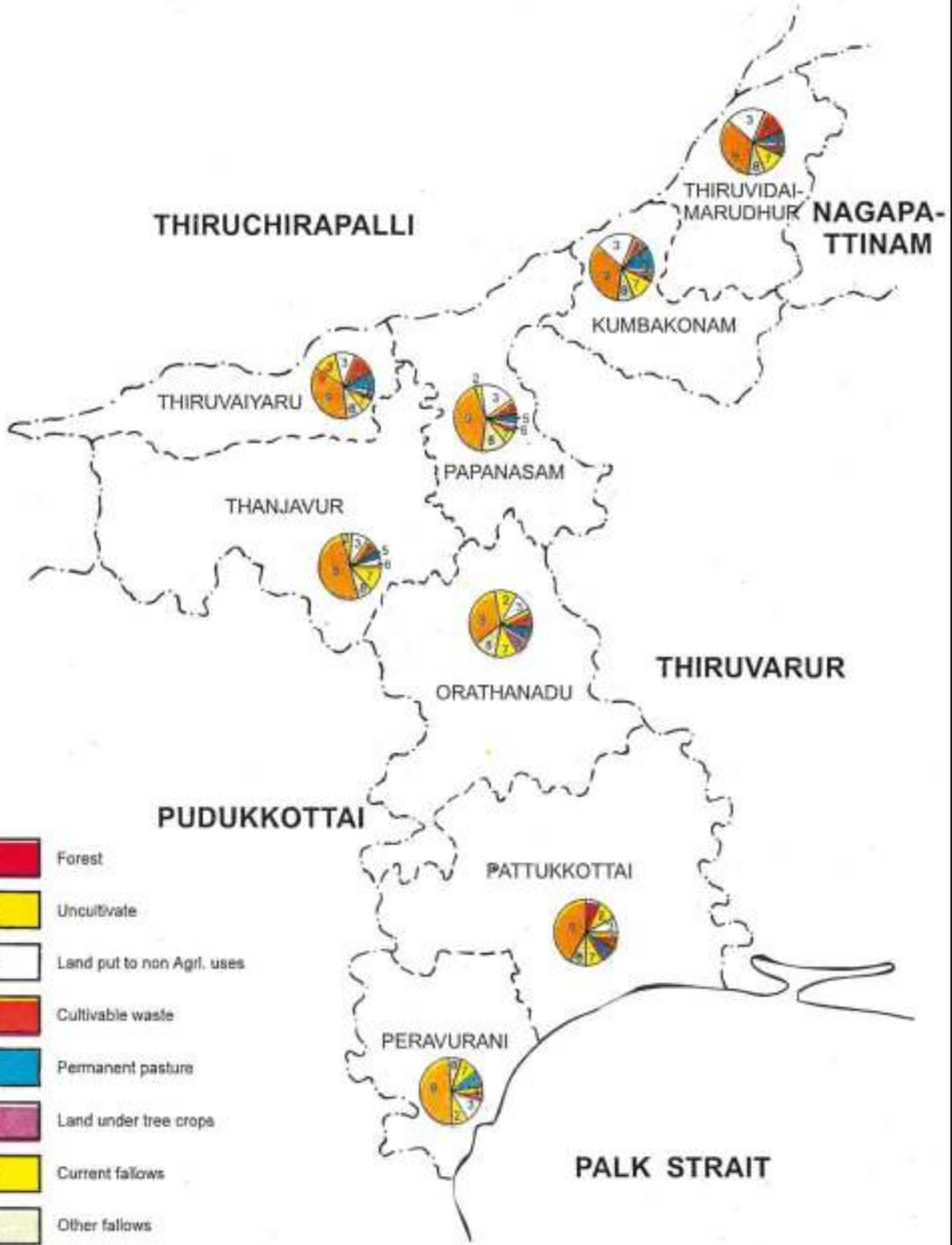
TALUKWISE LAND USE PATTERN



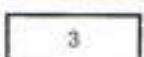


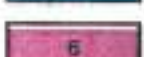
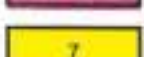

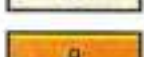
THANJAVUR DISTRICT

Unit : Hectares

Sl. No	Particulars	Thanjavur	Thiruvaiyaru	Orathanadu	Kumbakonam	Thiruvidaimarudhur	Papanasam	Pattukkottai	Peravurani	Total extent (ha)	% to total
	Total geographical area	60879	28511	58176	27658	27205	26869	71249	27071	327618	100
1.	Forest	-	-	-	-	-	-	1255	-	1255	0.38
2.	Uncultivable waste	200	2245	167	-	-	4	4301	486	7403	2.26
3.	Land put to non Agri. uses	14850	4685	10058	6471	4137	6908	14097	7418	68624	20.95
4.	Cultivable waste	1759	420	2280	215	493	451	1285	388	7291	2.23
5.	Permanent Pasture	126	435	405	17	23	68	599	221	1894	0.58
6.	Land under trees not included under net area sown	1053	96	168	375	331	94	-	-	2117	0.65
7.	Current Fallows	4821	361	5235	1718	805	1658	3062	3196	20856	6.36
8.	Other Fallows	1247	418	3209	49	466	1576	2401	309	9675	2.95
9.	New area sown	36823	19851	36654	18813	20950	16110	44249	15053	208503	63.64

LAND USE PATTERN THANJAVUR DISTRICT



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

FORESTS

THANJAVUR DISTRICT

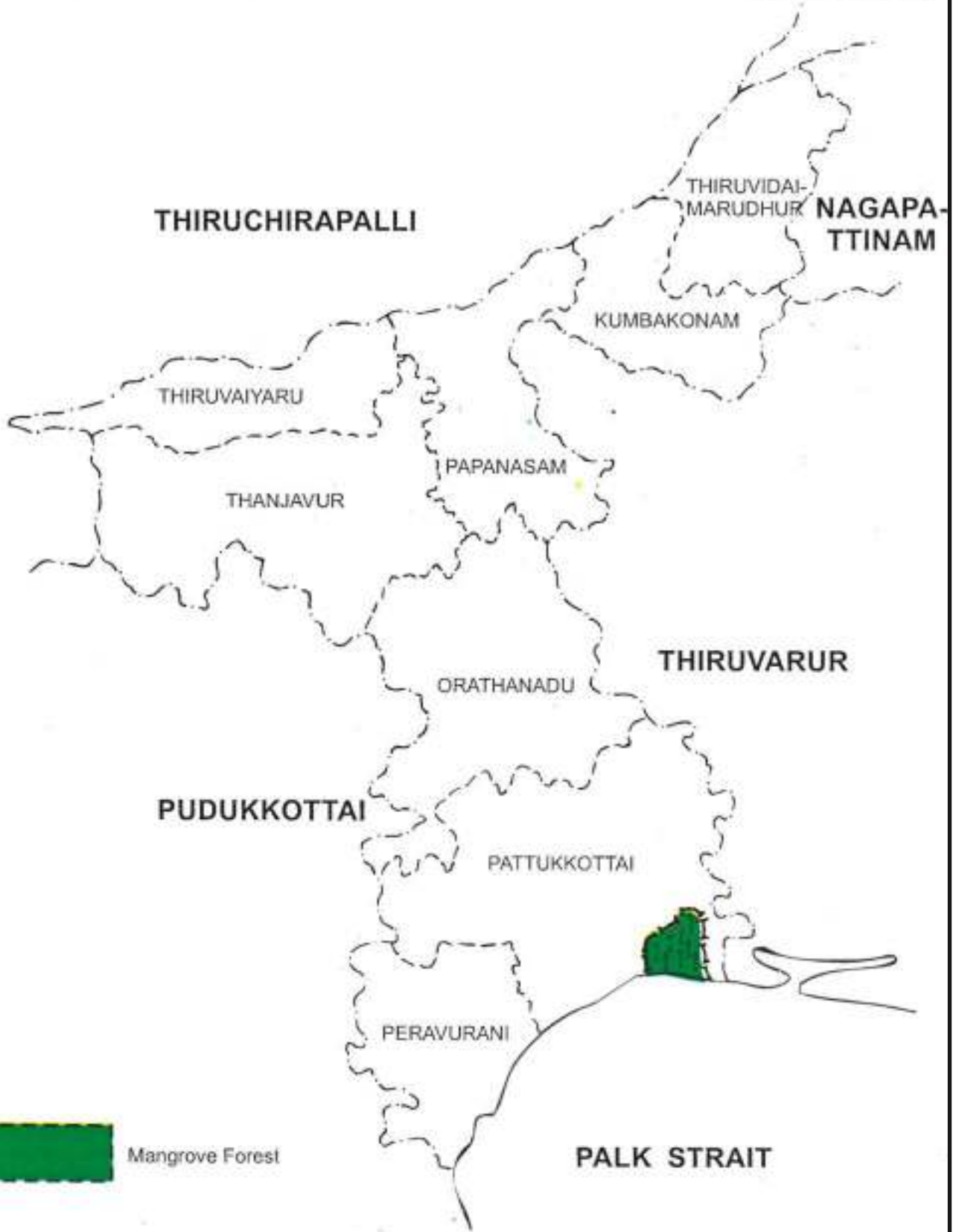
Thanjavur district is very poor in forest wealth. The total forest area of the district is about 1255 ha which represents 0.38 per cent of total area of this district. The type of forest is tropical deciduous (mangrove) and is distributed in Pattukkottai taluk of this district.

FORESTS

THANJAVUR DISTRICT



CUDDALORE



Mangrove Forest

PALK STRAIT

CROP AREA

THANJAVUR DISTRICT

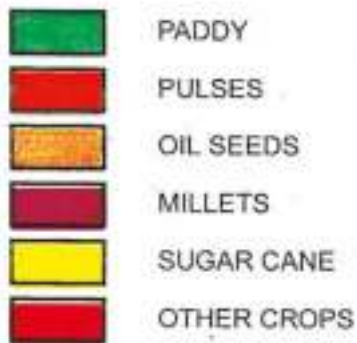
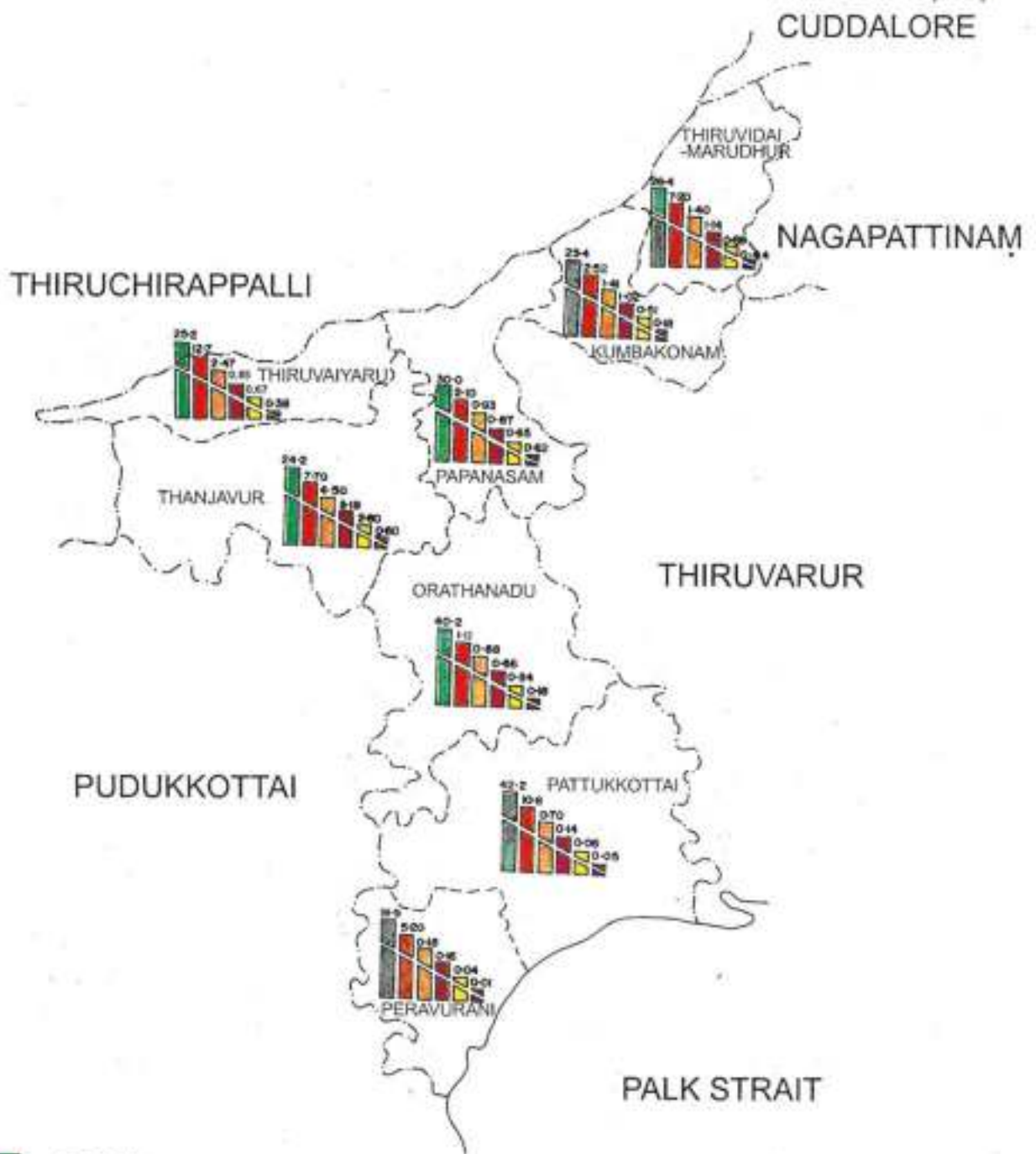
This district is essentially a deltaic plain comprising of old and new delta. The old delta has a net work of canals and channels of the river Cauvery and Vennar. Upper portion of this new deltaic area is irrigated by Grand Anaicut canal. Tapping of ground water is done considerably in this area to advance the first cropping season Kuruvai, to avoid damage due to the North East Monsoon and to accommodate 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, Soyabean, and Groundnut are grown in this area under irrigated conditions. Cultivation of Oil palm and Soyabean 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.	Thanjavur	24.20	4.50	7.70	2.60	0.80	3.19	42.99
2.	Thiruvaiyaru	25.20	2.12	12.70	0.67	0.85	0.38	41.9
3.	Orathanadu	40.20	0.66	0.68	0.18	0.54	1.11	43.37
4.	Kumbakonam	25.40	2.52	1.80	0.51	0.18	1.62	32.03
5.	Thiruvidaimarudhur	26.40	7.20	1.40	0.68	0.44	1.14	37.26
6.	Papanasam	30.00	0.65	2.10	0.62	0.93	0.87	35.17
7.	Pattukkottai	42.20	0.06	10.80	0.70	0.14	0.05	53.95
8.	Peravurani	18.90	0.01	5.20	0.18	0.04	0.16	24.49
	Total	232.50	17.72	42.38	6.14	3.92	8.52	311.18

CROP AREA THANJAVUR DISTRICT



CROPPING CALENDAR

THANJAVUR DISTRICT

The major crops cultivated in Thanjavur district are Paddy, Pulses, Groundnut and Sugarcane. The minor crops like Maize, Soybean, Redgram and Gingelly are also grown.

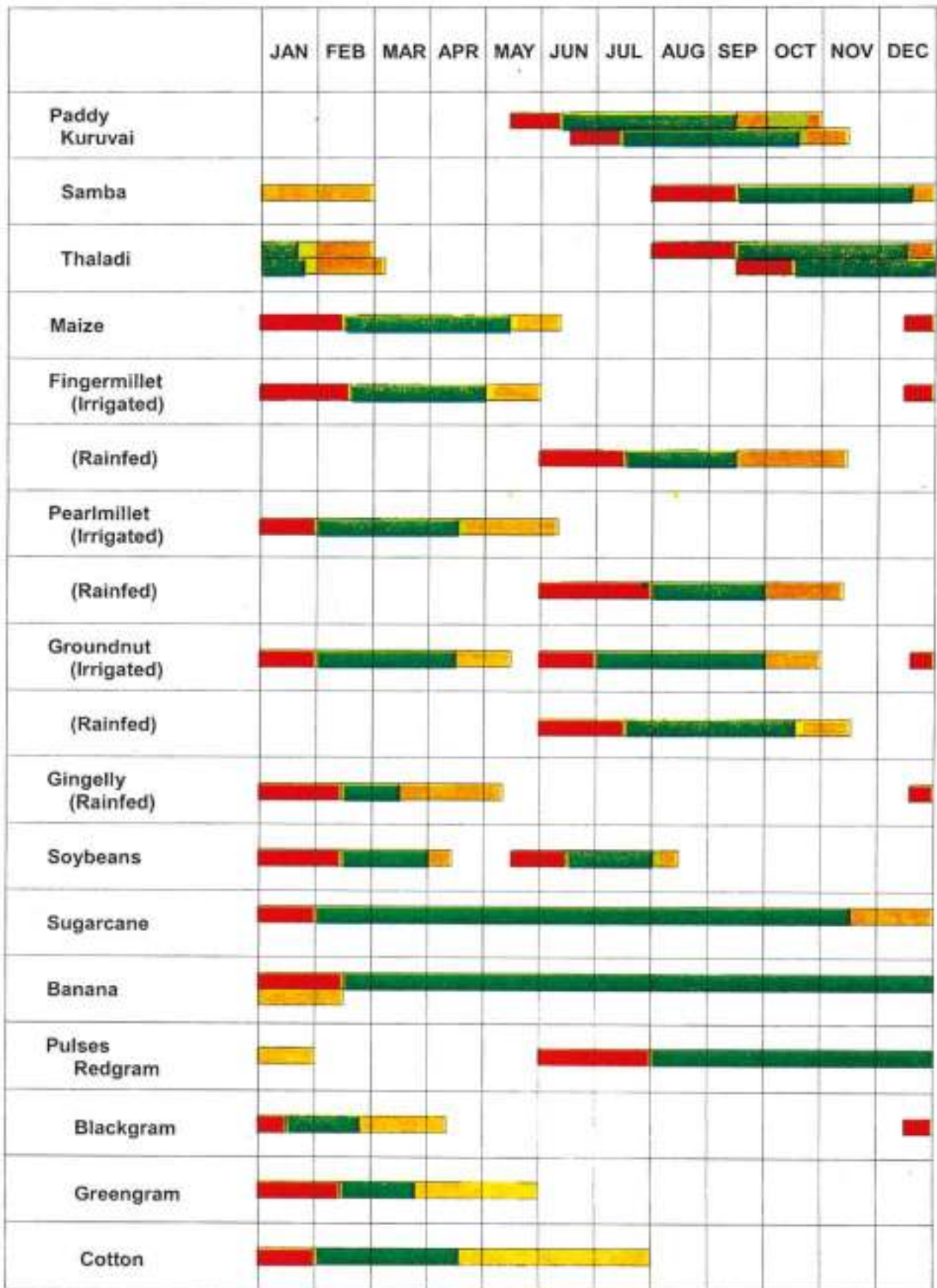
Paddy is the principal crop grown in three seasons viz. Kuruvai, Samba and Thaladi.


Pulses like Blackgram and Greengram and cash crops like Cotton and Gingelly are grown in rice fallows

In new delta area, the Groundnut is the principal crop. Irrigated paddy is grown wherever the water is available. Sugarcane is cultivated both in new delta and old delta. Banana is primarily grown in padugai lands (near river side).

CROPPING CALENDAR

THANJAVUR DISTRICT



 Sowing (Stage)

 Vegetative (Stage)

 Harvest (Stage)

SOURCES OF IRRIGATION

THANJAVUR DISTRICT

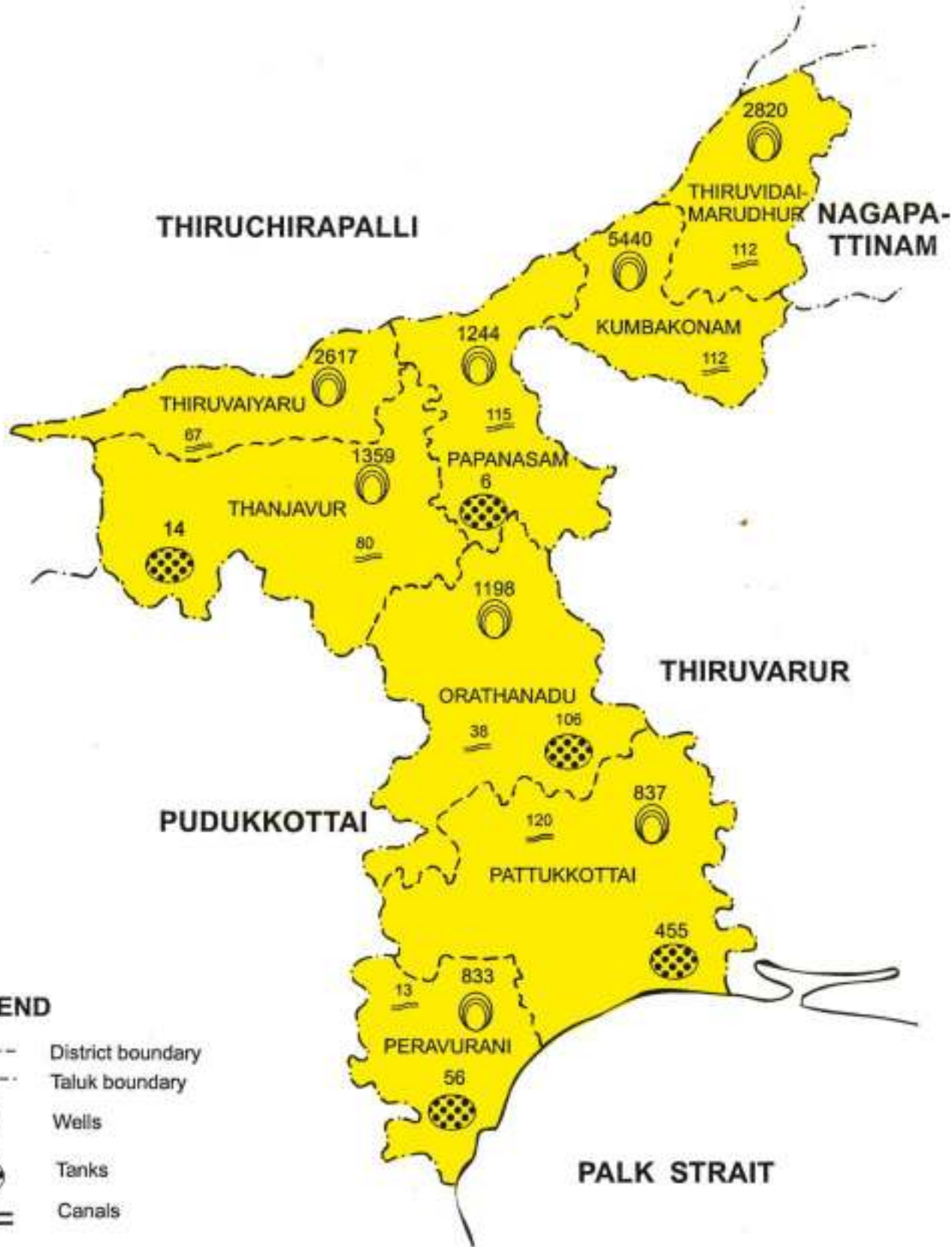
Sl. No.	Taluks	Sources of Irrigation		
		Canal length (km)	Wells (Nos)	Tanks (Nos)
1.	Thanjavur	80	1,359	14
2.	Thiruvaiyaru	67	2,617	—
3.	Papanasam	115	1,244	—
4.	Kumbakonam	112	5,440	—
5.	Thiruvidadaimarudhur	112	2,820	—
6.	Orathanadu	38	1,198	106
7.	Pattukkottai	120	837	455
8.	Peravurani	13	833	56
	Total	657	16,348	631

SOURCES OF IRRIGATION




THANJAVUR DISTRICT



CUDDALORE



LEGEND

- District boundary
- Taluk boundary
-  Wells
-  Tanks
-  Canals

AGRICULTURAL INSTITUTIONS

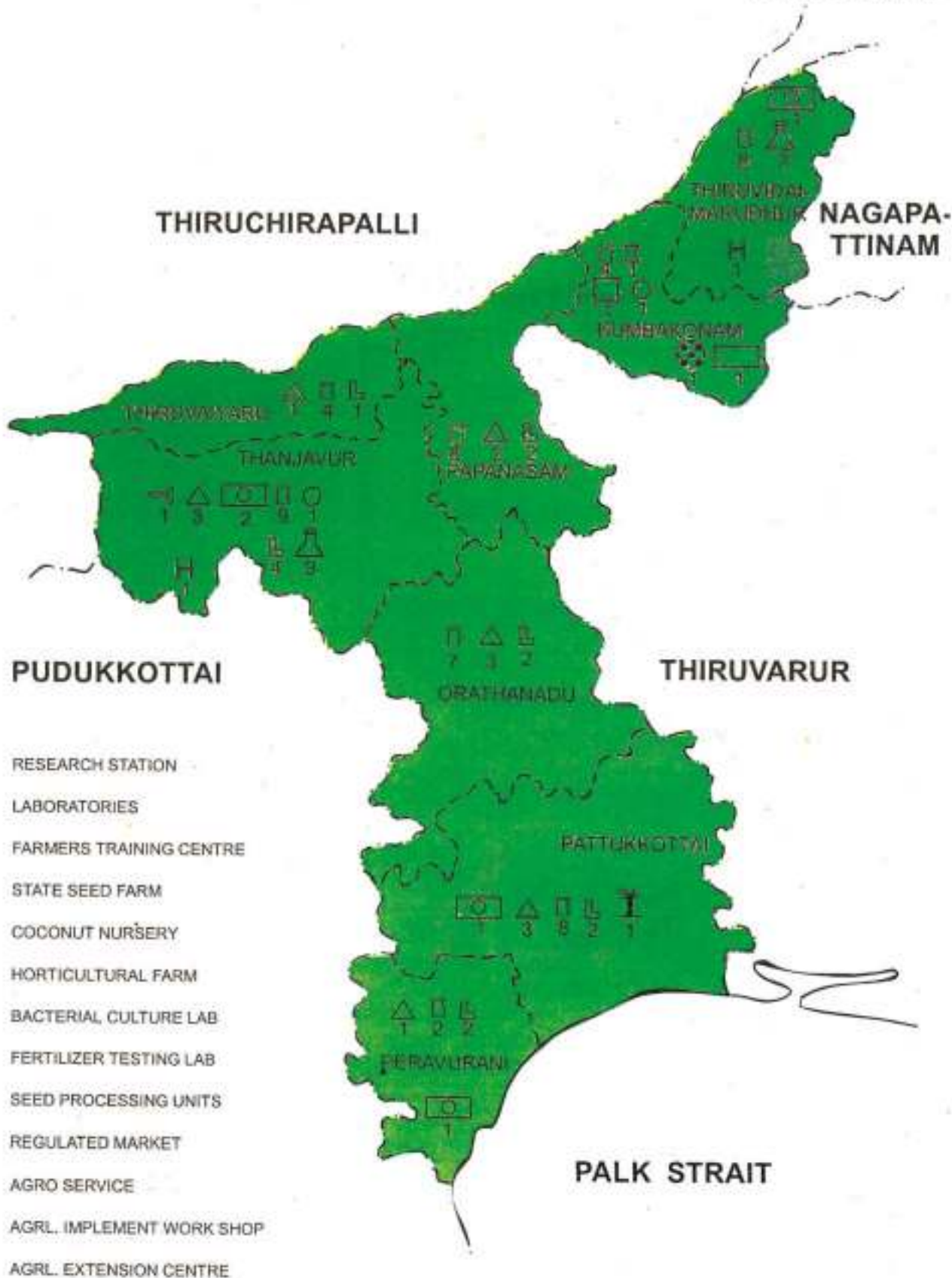
THANJAVUR DISTRICT

The details of various Agricultural Institutions functioning in the district are furnished below.

Sl. No.	Name of Institution	No.
1.	Office of Joint Director of Agriculture, Thanjavur.	1
2.	Soil Survey & Land use Organisation, Thanjavur.	1
3.	SWMRI - TNAU Institution, Thanjavur.	1
4.	PPRC - FCI Institution, Thanjavur.	1
5.	Coconut Research Station, Veppankulam (TNAU)	1
6.	MCRS - TNAU - Pattukkottai	1
7.	TRRI - TNAU - Aduthurai	1
8.	Saline Research centre - Peravurani	1
9.	Seed Testing Laboratory, Thanjavur.	1
10.	Fertilizer Testing Laboratory, Kumbakonam.	1
11.	Bio-Fertilizer Production Unit, Kumbakonam.	1
12.	Soil Testing Laboratory, Aduthurai.	1
13.	Mobile Soil Testing Laboratory, Aduthurai.	1
14.	Pleurotus spawn Production Centre, Aduthurai.	1
15.	Pesticides Testing Laboratory, Aduthurai.	1
16.	Agricultural Depots	55
17.	State Seed Farms	1
18.	Seed Processing Unit	2

AGRICULTURAL INSTITUTIONS

THANJAVUR DISTRICT



AGRO INDUSTRIES

THANJAVUR DISTRICT

Sl. No.	Name of Industries	Symbol	Total Nos.
1.	Coir & Coir Product Industries	A	28
2.	Straw board Industries	B	3
3.	Chewing Tobacco Industries	C	6
4.	Cotton ginning mills	D	2
5.	Modern Rice Mill	E	7
6.	Sugar Factory	F	2
7.	Oil Centres	G	4

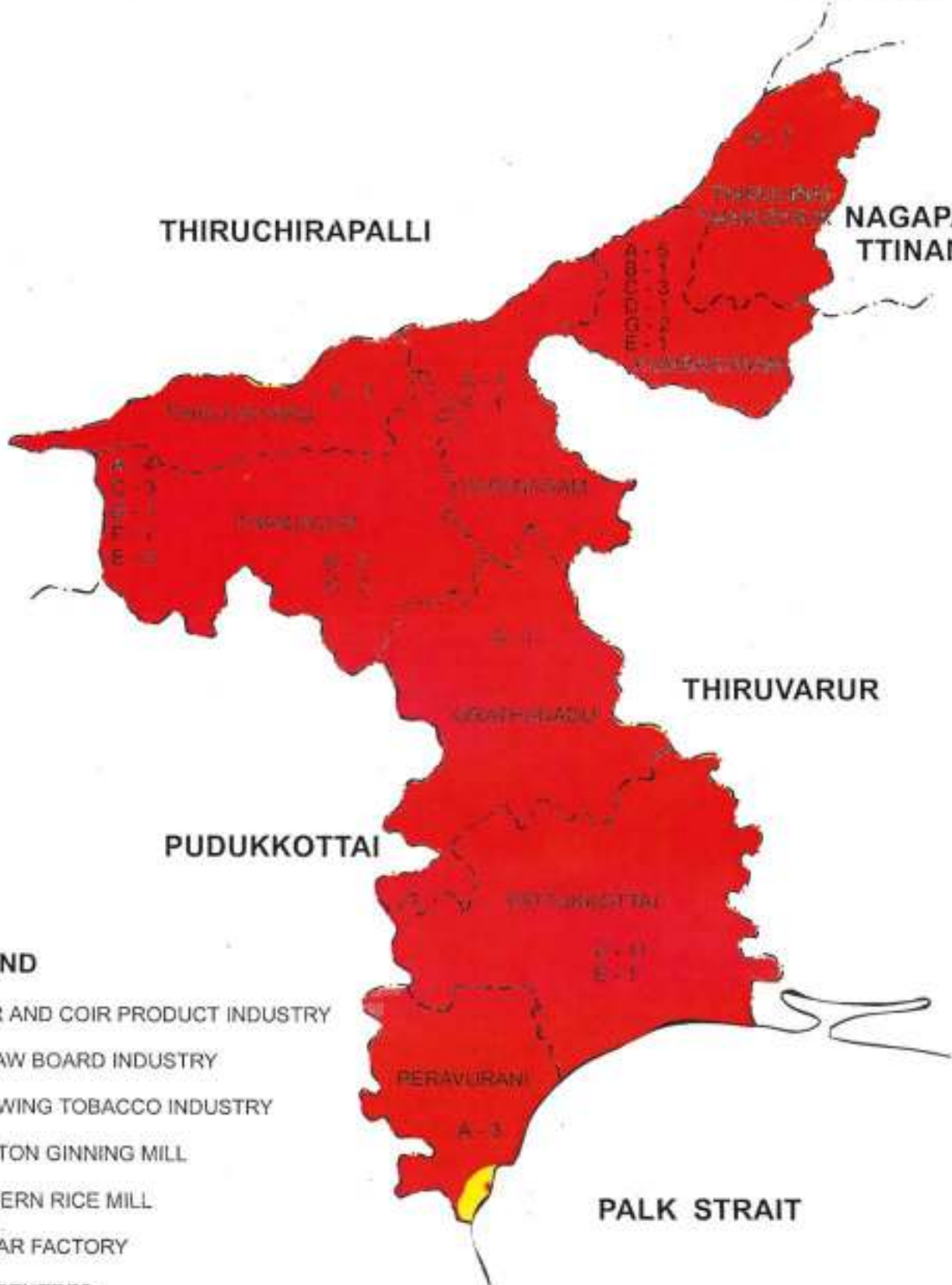
AGRO INDUSTRIES THANJAVUR DISTRICT



CUDDALORE

THIRUCHIRAPALLI

NAGAPATTINAM



LEGEND

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

PALK STRAIT

ANIMAL HUSBANDRY INSTITUTIONS

THANJAVUR DISTRICT

Sl. No.	Name of institutions	Map symbol	Total numbers
1.	Veterinary Hospital	A	6
2.	Veterinary dispensary	B	30
3.	Clinician Centre	C	2
4.	Mobile Veterinary Dispensary	D	3
5.	Key village scheme sub centre	E	13
6.	Intensive Cattle Development sub centre	F	41
7.	Animal Husbandry sub centre	G	75
8.	Live stock farm	H	2
9.	Poultry extension centre	I	2

ANIMAL HUSBANDANDARY INSTITUTIONS

THANJAVUR DISTRICT

CUDDALORE



LEGEND

- A - VETERINARY HOSPITAL
- B - VETERINARY DISPENSARY
- C - CLINICIAN CENTRE
- D - MOBILE VETERINARY DISPENSARY
- E - KEY VILLAGE SCHEME SUB - CENTRE
- F - INTENSIVE CATTLE DEVELOPMENT SUB - CENTRE
- G - ANIMAL HUSBANDRY SUB - CENTRE
- H - LIVE STOCK FARM
- I - POULTRY EXTENSION CENTRE

SOILS

THANJAVUR DISTRICT

In this district, 13 soil series were identified and mapped. The distribution of the various soil series are given below.

Sl. No.	Soil series	Map symbol	Extent (ha.)	% to total
1.	Madukkur	Mdk	1,10,573	34.18
2.	Kalathur	Klt	51,449	15.90
3.	Padugai	Pdg	36,467	11.27
4.	Pattukkottai	Pkt	33,424	10.33
5.	Adhanur	Adn	30,642	9.47
6.	Vallam	Vlm	13,045	4.03
7.	Alathur	Alt	12,111	3.74
8.	Mudukulam	Mud	9,266	2.86
9.	Peravurani	Pvr	6,672	2.06
10.	Alangudi	Alg	6,626	2.05
11.	Budalur	Bdl	6,449	1.99
12.	Melkađu	Mlk	5,045	1.56
13.	Kallivayal	Klv	482	0.17
14.	Reserved forest	RF	1,255	0.39
	Total		3,23,506	100.00

SOILS THANJAVUR DISTRICT



CUDDALORE

THIRUCHIRAPPALLI

NAGAPPATTINAM

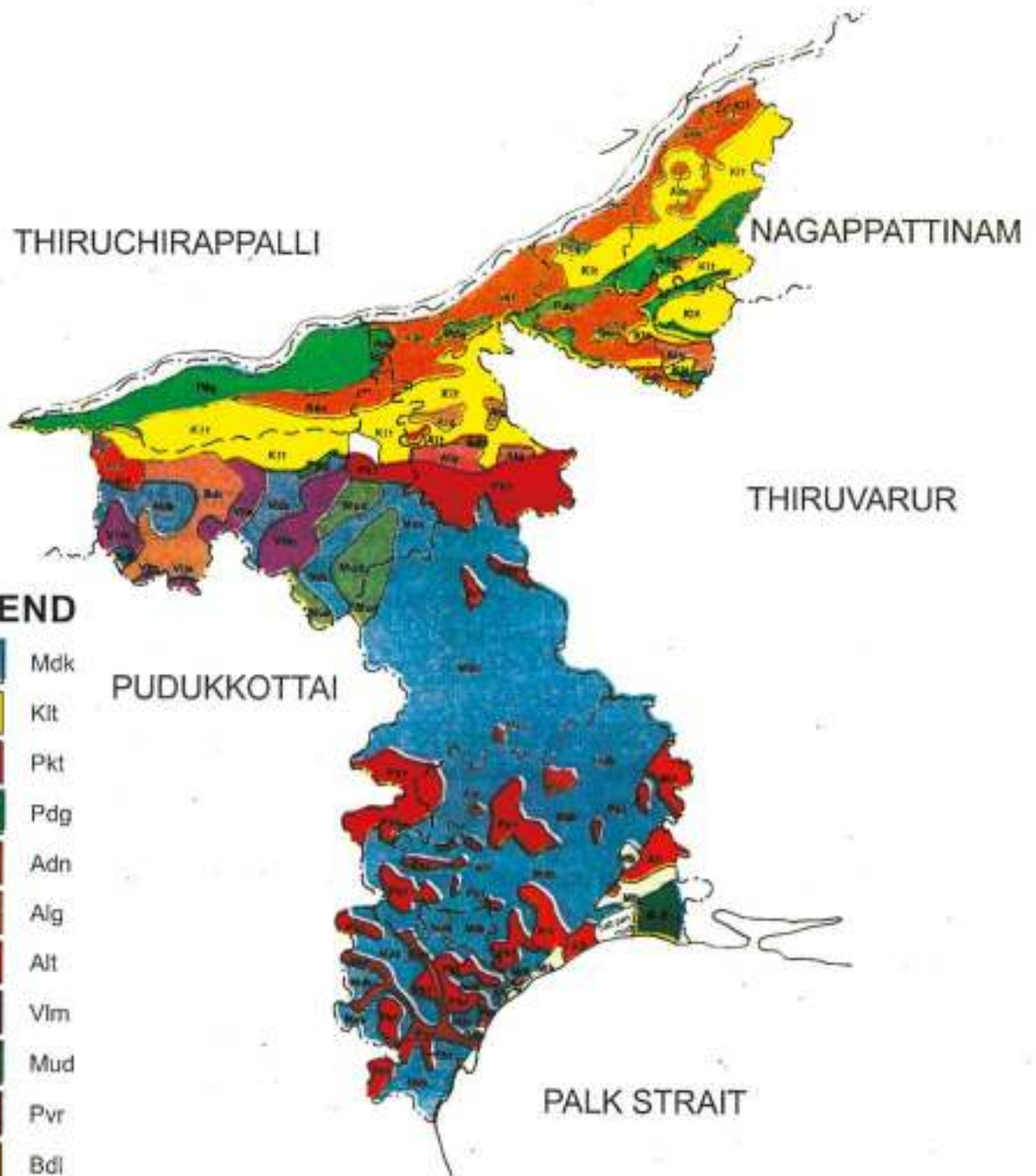
THIRUVARUR

LEGEND

-  Mdk
-  Kit
-  Pkt
-  Pdg
-  Adn
-  Alg
-  Alt
-  Vlm
-  Mud
-  Pvr
-  Bdl
-  Mik
-  Klv
-  Forest

PUDUKKOTTAI

PALK STRAIT



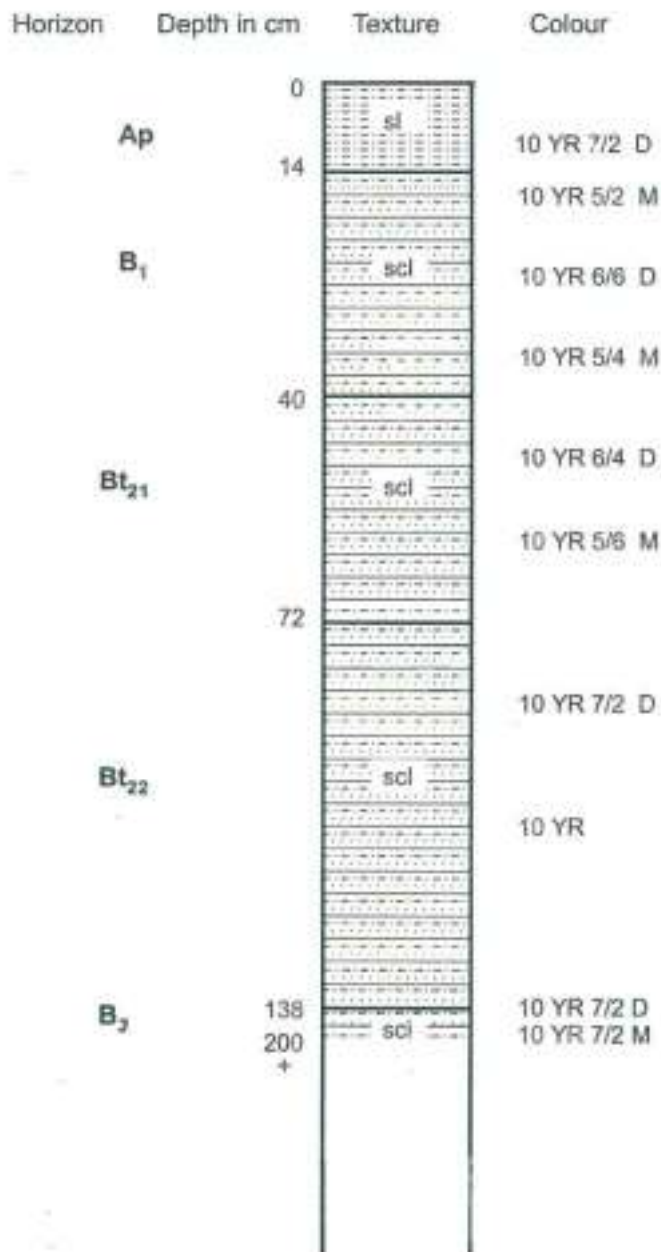
MADUKKUR SOIL SERIES

- 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 : Modertely 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 (10 YR 5/2m); sandy loam; fine weak subangular blocky; very friable nonsticky and nonplastic; many fine to medium roots; rapid permeability; abrupt smooth boundary; p ^H 6.6;
B ₁	14 - 40	Yellowish brown (10 YR 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 ; p ^H 6.4;
Bt ₁	40 - 72	Yellowish brown (10 YR 5/6m); sandy clay loam; coarse strong subangular blocky; very hard firm slightly sticky and slightly plastic prominent common medium to coarse mottlings; very few fine roots; common very fine tubular pores; slow permeability; many small hard irregular iron and manganese concretions; clear wavy boundary ; p ^H 6.8;
Bt ₂	72 - 138	Yellowish brown (10 YR 5/6m); sandy clay loam; coarse strong subangular blocky; hard firm slightly sticky and slightly plastic; prominent many coarse mottlings; few very fine tubular pores; slow permeability; clear wavy boundary ; p ^H 6.4;
B ₃	138 - 200 ⁺	Light grey (10 YR 7/2m); sandy clay loam; coarse strong subangular blocky; firm slightly sticky and slightly plastic; prominent many coarse mottlings; slow permeability ; p ^H 6.3.

MADUKKUR SERIES



Mdk

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, montmorillonitic, isohyperthermic, calcareous, very deep, Typic Haplusterts.
- Typifying pedon** : Kalathur - clay - cultivated.

Profile description :

Horizon	Depth (cm)	Description
Ap	0 - 23	Dark grey (10 YR 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 (10 YR 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 (10 YR 4/1m); 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 _{ss.1}	80 - 135	Grey (10 YR 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 _{ss.2}	135 - 173	Greyish brown (10 YR 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 (10 YR 5/2 m); 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

Horizon	Depth in cm	Texture	Colour
Ap	0	c	10 YR 5/2 D
	23		10 YR 4/1 M
B ₁₁	23	c	10 YR 5/2 D
	54		10 YR 4/2 M
B ₁₂	54	c	10 YR 4/1 (M)
	80		
Bss ₂₁	80	c	10 YR 5/1 (M)
Bss ₂₂	135	c	10 YR 5/2 (M)
	173		
B ₃	200 +	c	10 YR 5/2 (M)

Klt

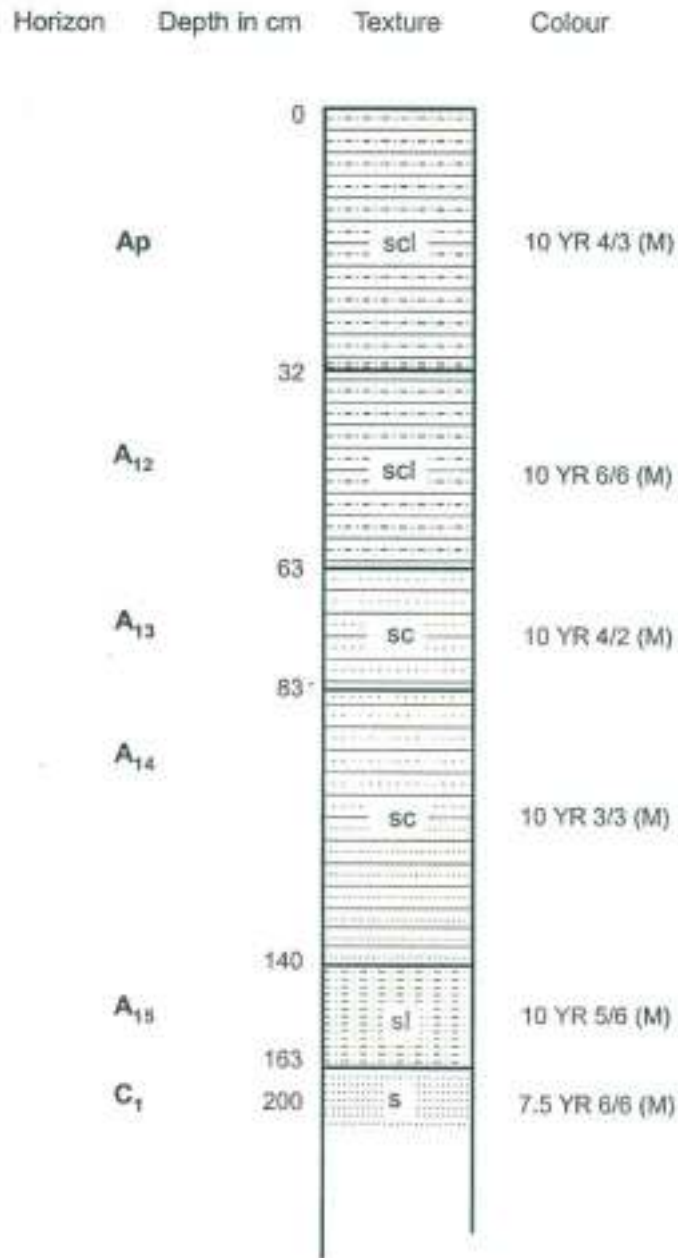
PADUGAI SOIL SERIES

- 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.
Ap	0 - 32	Brown (10 YR 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 (10 YR 6/6m); sandy clay loam; moderate medium subangular blocky; friable slightly sticky and nonplastic; few fine roots; few fine tubular random pores; moderate permeability; abrupt smooth boundary; pH 7.0;
A ₁₃	63 - 83	Dark greyish brown (10 YR 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 (10 YR 3/3m); sandy clay; strong moderate subangular 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 (10 YR 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	163 - 200	Reddish yellow (7.5 YR 6/6m); sandy, structureless single grained; friable nonsticky and nonplastic; very rapid permeability; pH 7.5.

PADUGAI SERIES



Pdg

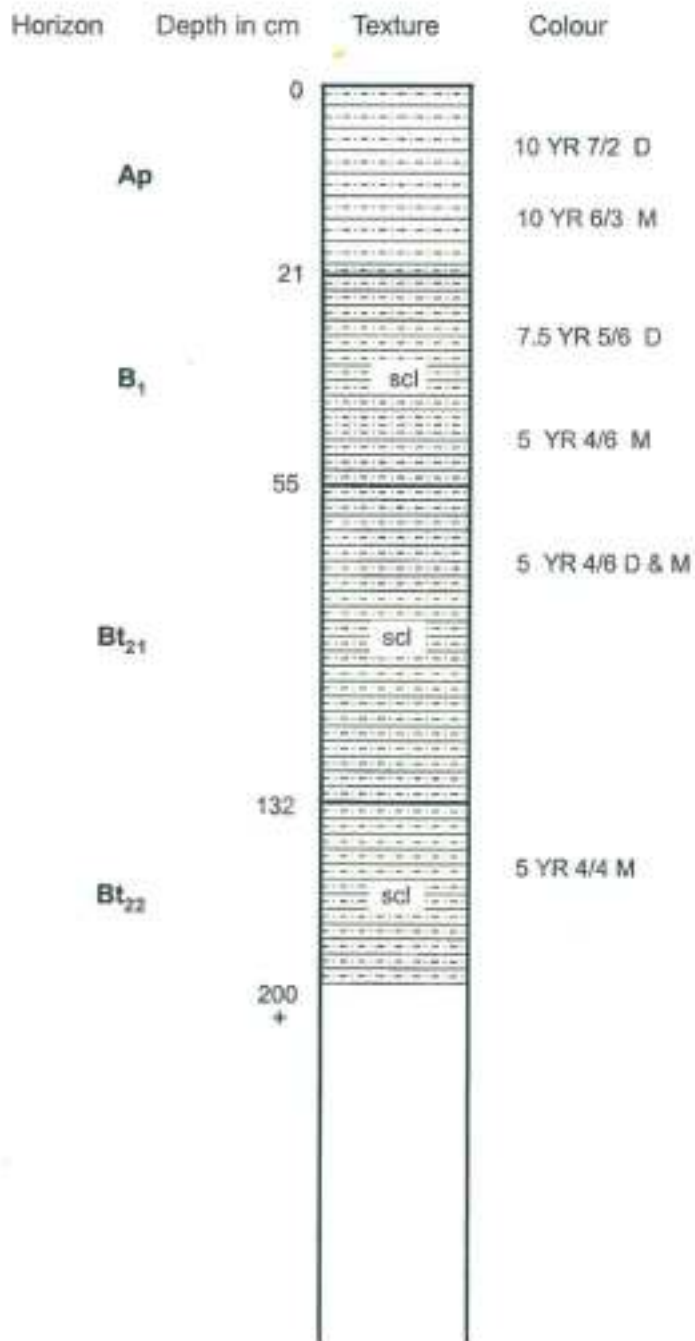
PATTUKKOTTAI SOIL SERIES

- Brief description : They include pale brown, very deep, fine loamy, noncalcareous occupying the top portion of the gently sloping Cauvery Mettur project area.
- Physiography : Tamilnadu east coast plain - gently sloping land of laterite land formation
- Drainage : Well drained.
- Taxonomy : Fine loamy, mixed, isohyperthermic, very deep Ultic Haplustalfs.
- Typifying pedon : Pattukkottai - loamy sand - fallow.

Profile description :

Horizon	Depth (cm)	Description
A ₁	0 - 21	Pale brown (10 YR 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 (5 YR 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;
Bt 21	55 - 132	Yellowish red (5 YR 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;
Bt 22	132 - 200	Reddish brown (5 YR 2/4m); 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

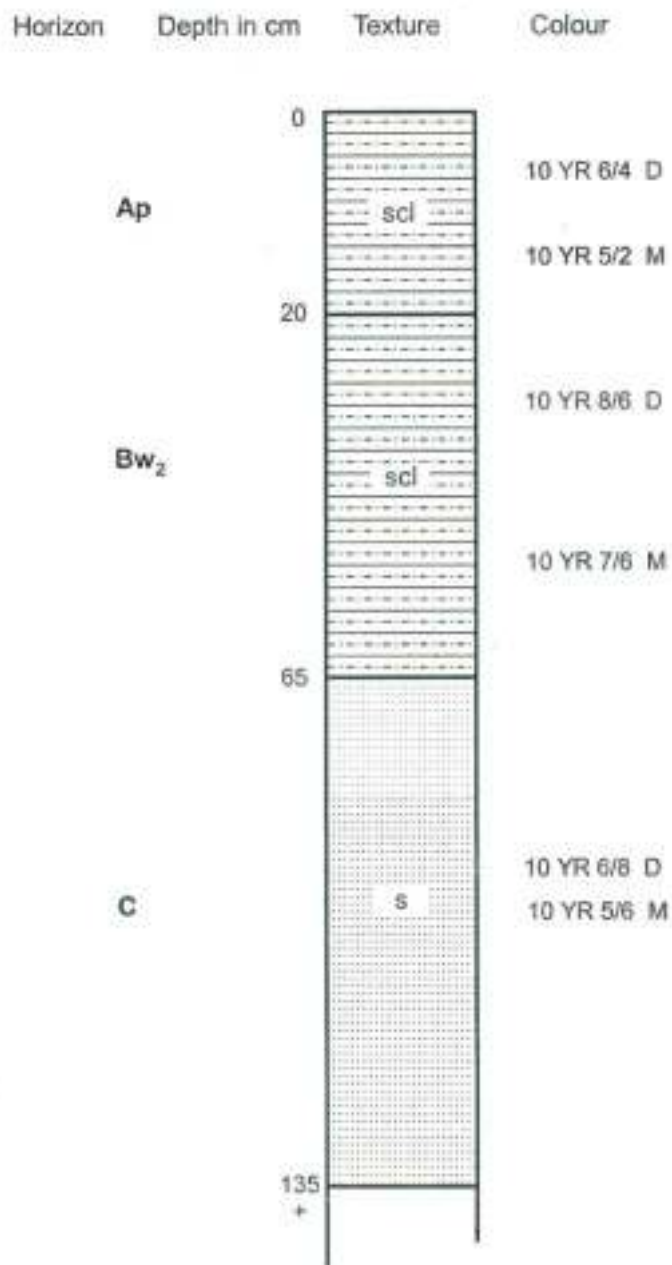
ADHANUR SOIL SERIES

- 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 - clarcareous, 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	Description
Ap	0 - 20	Greyish brown (10 YR 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 7.2;
Bw	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 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 7.1.

ADHANUR SERIES



Adn

VALLAM SOIL SERIES

- Brief description : Vallam series comprises of moderately deep, sandy loam, yellowish red soils occupying the top most portion of the laterite cap.
- Physiography : Tamilnadu east coast plain - upland of laterite land form.
- Drainage : Excessively drained.
- Taxonomy : Loamy skeletal, kaolinitic, isohyperthermic, acidic, moderately deep Paralithic Rhodustalfs.
- Typifying pedon : Vallam - sandy loam - cultivated fallow.

Profile description :

Horizon	Depth (cm)	Description
B ₁	0 - 13	Yellowish red (5 YR 4/8m); sandy loam; fine moderate subangular blocky; slightly hard friable slightly sticky and nonplastic; many fine to medium roots; few fine to medium round to oval pores; rapid permeability; acidic; clear wavy boundary; p ^H 5.8;
B _t	13 - 44	Red (2.5 YR 5/8m); gravelly sandy clay loam; weak medium subangular blocky; friable slightly sticky and slightly plastic; thin patchy clay films. termatorium; few large round to irregular iron concretions; many fine to medium roots; few fine to medium round to oval pores; rapid permeability; clear irregular boundary; p ^H 6.0;
C	44 ⁺	Paralithic contact (ferruginous gravel).

VALLAM SERIES

Horizon	Depth in cm	Texture	Colour
B ₁	0	sl	5 YR 4/8 M
Bt ₂	13	(g)sci	2.5 YR 5/8 M
C	44	Laterite P.M.	

Vlm

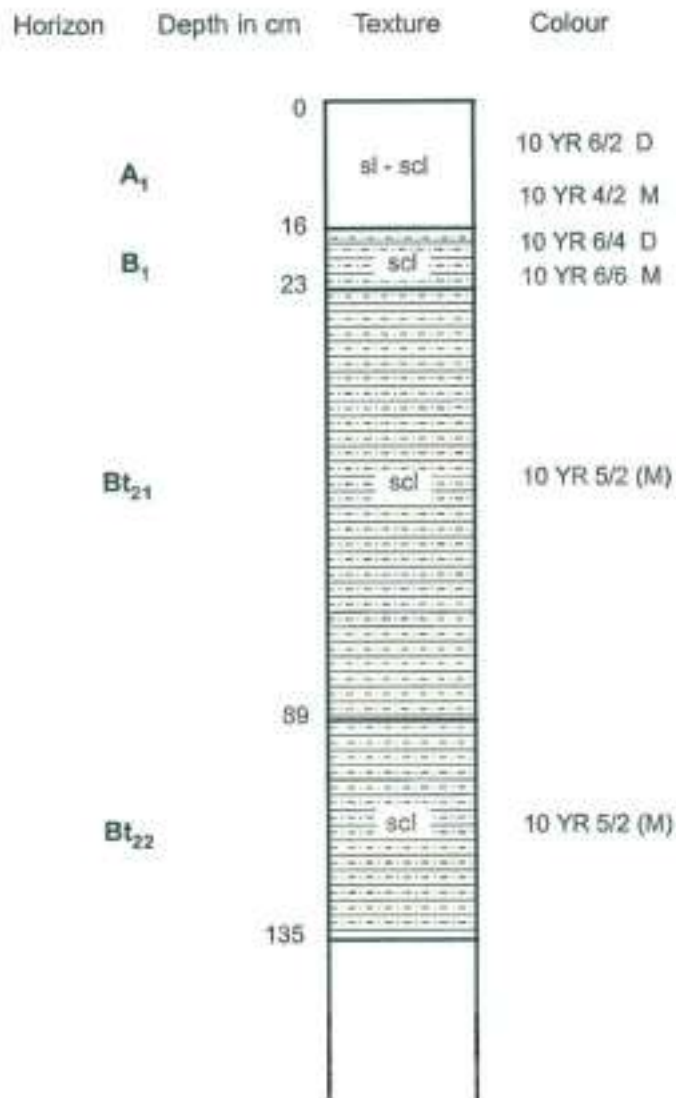
ALATHUR SOIL SERIES

- Brief description : These are greyish brown, fine loamy, very deep, strongly calcareous, moderately alkaline soil 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, mixed, isohyperthermic, calcareous, very deep Vertic Haplustalfs.
- Typifying pedon : Alathur - sandy clay loam - cultivated fallow.

Profile description :

Horizon	Depth (cm)	Description
A ₁	0 - 16	Dark grey (10 YR 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 7.8;
B ₁	16 - 23	Brownish yellow (10 YR 6/6m); sandy clay loam; moderate 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 8.2;
Bt ₂₁	23 - 89	Greyish brown (10 YR 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 8.3;
Bt ₂₂	89 - 135 ⁺	Greyish brown (10 YR 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 8.5.

ALATHUR SERIES



Alt

MUDUKULAM SOIL SERIES

- Brief description : Mudukulam soil series consists of dark red, very deep, noncalcareous, fine loamy textured one occurring on the gently sloping land subjected to severe soil erosion.
- Physiography : Tamilnadu east coast plain - laterite land form middle of the undulating to gently sloping land.
- Drainage : Well drained.
- Taxonomy : Fine loamy, kaolinitic, isohyperthermic, acidic, very deep Udic Rhodustalfs.
- Typifying pedon : Mudukulam - sandy clay loam - cultivated.

Profile description :

Horizon	Depth (cm)	Description
B ₁	0 - 30	Red (2.5 YR 4/6d); dark reddish brown (2.5 YR 3/4m); sandy clay loam, coarse strong subangular blocky; hard friable slightly sticky and nonplastic; fine few tubular pores; fine many roots; rapid permeability; diffused smooth boundary; p ^H 5.8;
Bt ₁	30 - 59	Dark reddish brown (2.5 YR 3/4m); clay loam; coarse strong subangular blocky; hard firm slightly sticky and slightly plastic; thin patchy clay films; fine common random tubular pores; fine many roots; rapid permeability; diffused smooth boundary; p ^H 5.4;
Bt ₂	59 - 170	Dark reddish brown (2.5 YR 3/4m); sandy clay loam; coarse strong subangular blocky; hard friable slightly sticky and nonplastic; thin patchy clay films; common fine random tubular pores; fine few roots; rapid permeability; p ^H 5.3.

MUDUKULAM SERIES

Horizon	Depth in cm	Texture	Colour
	0		
B ₁		scl	2.5 YR 4/6 ^f
	30		
Bt ₂₁		cl	2.5 YR 3/4 ^d
	59		
Bt ₂₂		scl	2.5 YR 3/4 ^{d & m}
	171		

Mud

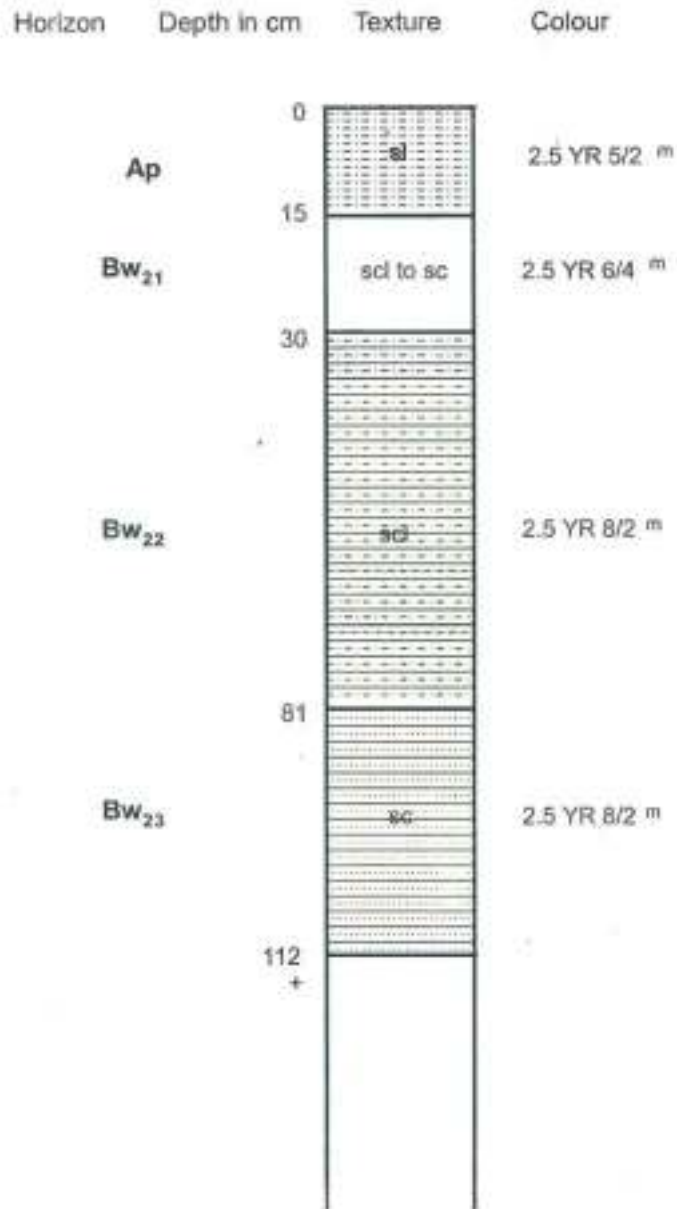
PERAVURANI SOIL SERIES

- Brief description : They include greyish brown, very deep, alkaline, finoamy, calcareous soils setting on the sides of the jungle rivers having proximity to the sea
- Physiography : Tamilnadu east coast plain - laterite depression.
- Drainage : Moderately well to poorly drained.
- Taxonomy : Fine loamy, mixed, isohyperthermic, calcareous, alkaline, very deep Typic Ustropepts.
- Typifying pedon : Peravurani - sandy loam -cultivated.

Profile description :

Horizon	Depth (cm)	Description
Ap	0 - 15	Greyish brown (10 YR 5/2m); sandy loam; fine weak subangular blocky; friable nonsticky and nonplastic; moderately rapid permeability; calcareous; moderately alkaline; few fine roots; common medium pores; clear smooth boundary; pH 8.9;
Bw 1	15 - 30	Light yellowish brown (10YR 6/4m); sandy clay; medium moderate subangular blocky; firm slightly sticky and slightly plastic; moderate permeability; slight calcareousness; fine few pores; clear smooth boundary ; pH 8.8;
Bw 2	30 - 81	White (10 YR 8/2m); sandy clay loam; medium moderate subangular blocky; hard friable slightly sticky and slightly plastic; slow permeability; few fine roots; yellow (10 YR 8/6) mottlings; black concretions; gradual smooth boundary ; pH 9.0;
Bw 3	81 - 112 ⁺	White (10 YR 8/2m); sandy clay; medium strong angular blocky; hard slightly firm sticky and slightly plastic; very slow permeability; yellow (10 YR 8/6) mottlings; black lime concretions; pH 8.6;

PERAVURANI SERIES



Pvr

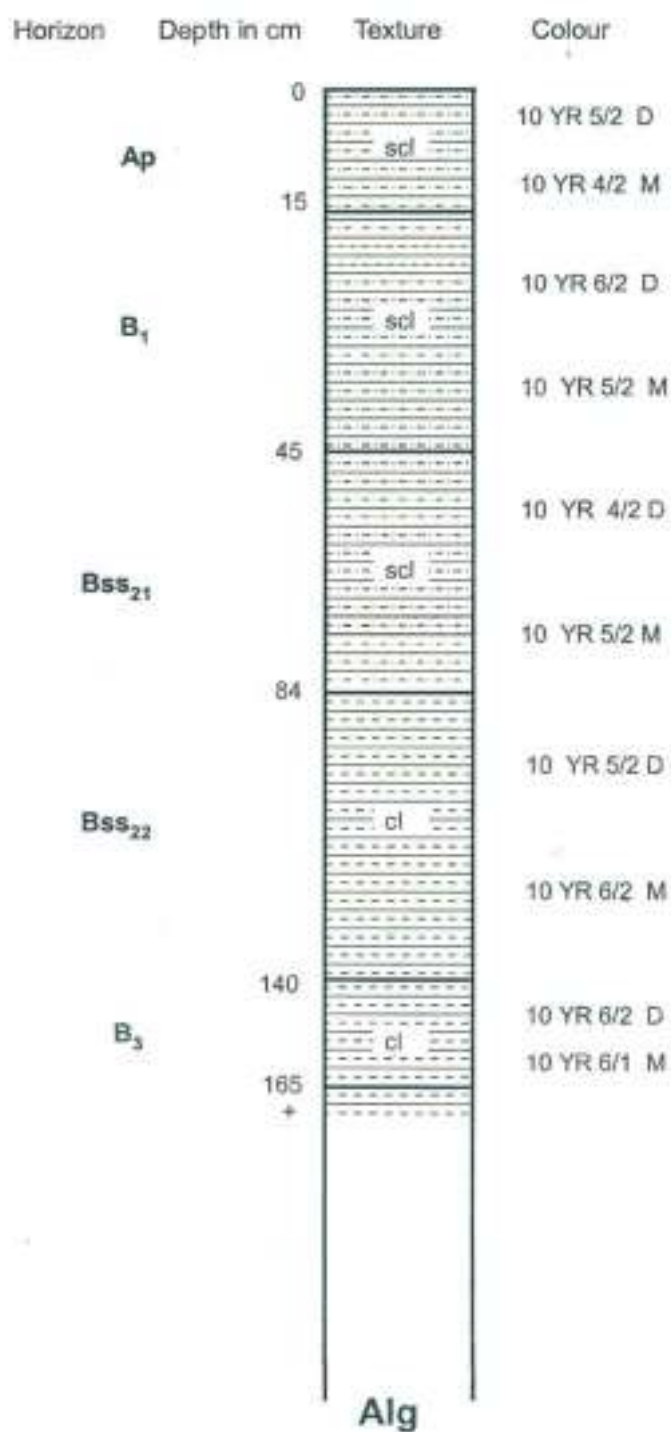
ALANGUDI SOIL SERIES

- 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, montmorillonitic, isohyperthermic, calcareous, very deep Typic Haplusterts.
- Typifying pedon** : Alangudi - sandy clay loam - cultivated.

Profile description :

Horizon	Depth (cm)	Description
Ap	0 - 15	Greyish brown (10 YR 5/2d), dark greyish brown (10 YR 4/2m); sandy clay loam; moderate coarse subangular blocky; hard friable slightly sticky and slightly plastic; common large round to irregular concretions; many very fine to fine roots; common very fine round pores; moderately rapid permeability; diffused irregular boundary ; p ^H 9.0;
B ₁	15 - 45	Greyish brown (10 YR 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 _{ss 21}	45 - 84	Greyish brown (10 YR 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 round pores; moderate permeability; clear wavy boundary ; p ^H 8.9;
B _{ss 22}	84 - 140	Light yellowish grey (10 YR 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 - 165 ⁺	Grey (10 YR 6/1m); clay moderate coarse subangular blocky; hard friable sticky and plastic; effervescence; moderate permeability; p ^H 9.2.

ALANGUDI SERIES



BUDALUR SOIL SERIES

- Brief description : These are yellowish red to dark red, deep, noncalcareous, acidic, gravelly in-situ soils derived from granitic gneiss.
- Physiography : Tamilnadu east coast plain - gneissic upland.
- Drainage : Well drained.
- Taxonomy : Coarse loamy, mixed, isohyperthermic. acidic, deep Typic Rhodustalfs.
- Typifying pedon : Budalur - sandy clay loam - cultivated.

Profile description :

Horizon	Depth (cm)	Description
Ap	0 - 18	Dark red (2.5 YR 3/6m); gravelly sandy clay loam; medium moderate subangular blocky; firm slightly sticky and nonplastic; rapid permeability; many fine roots; fine common pores; clear smooth boundary; p ^H 6.5;
B ₁	18 - 41	Dark red (2.5 YR 3/6m); gravelly clay loam; moderate coarse subangular blocky; firm sticky and slightly plastic; moderately rapid permeability; many fine roots; clear smooth boundary; p ^H 6.6;
Bt ₁	41 - 55	Dark red (2.5 YR 3/6m); gravelly clay loam; moderate coarse subangular blocky; firm sticky and plastic; thin patchy cutans; rapid permeability; fine common pores; clear smooth boundary; p ^H 6.9;
B ₃	55 - 85	Dark red (2.5 YR 3/5m); gravelly clay; medium moderate subangular blocky; firm sticky and plastic; moderately rapid permeability; many fine roots; medium few pores; p ^H 6.4.

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, mixed, isohyperthermic, calcareous, very deep Aquic Udifluvents.
- Typifying pedon : Melkadu - loamy sand - fallow.

Profile description :

Horizon	Depth (cm)	Description
A ₁	10 - 13	Yellow (10 YR 7/6 m); 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 (10 YR 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 (10 YR 5/6m); sandy clay loam; fine weak subangular blocky; friable non sticky non plastic; strong effervescence; common fine roots; few very fine pores; rapid permeability; clear wavy boundary; p ^H 7.5;
A ₁₄	55 - 130	Brownish yellow (10 YR 6/6m); sandy loam; weak fine subangular blocky; very friable nonsticky nonplastic; very dark greyish brown (10 YR 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 (10 YR 8/3m); sandy loam; weak fine subangular blocky; loose nonsticky nonplastic; very dark greyish brown (10 YR 3/2) few medium distinct mottlings; strong effervescence; rapid permeability; clear smooth boundary; p ^H 8.6;
A ₁₆	173 - 200	Very pale brown (10 YR 8/4m); sand; structureless; loose nonsticky nonplastic; brownish yellow (10 YR 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 13	ls	10 YR 7/6 (M)
A ₁₂	13 45	ls	10 YR 4/4 (M)
A ₁₃	45 55	scf	10 YR 5/6 M
A ₁₄	55 130	sl	10 YR 6/6 M
A ₁₅	130 173	sl	10 YR 8/3 M
A ₁₆	173 200 +	s	10 YR 8/4 M

Mik

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, mixed, isohyperthermic, calcareous, very deep Aquic Haplustalfs.
- Typifying pedon : Kallivayal - sandy loam - fallow.

Profile description :

Horizon	Depth (cm)	Description
A ₁	0 - 15	Greyish brown (10 YR 5/2m); sandy loam; moderate medium subangular blocky; slightly hard friable nonsticky nonplastic; rapid permeability; many fine roots; fine common pores; clear smooth boundary; p ^H 7.8;
B ₁	15 - 55	Greyish brown (10 YR 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; p ^H 8.3;
B _{t2}	55 - 103	Dark grey (10 YR 4/1m); sandy clay; coarse strong angular blocky; hard 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; p ^H 8.5;
B ₃	103 - 135	Light brownish grey (10 YR 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; p ^H 8.7.

KALLIVAYAL SERIES

Horizon	Depth in cm	Texture	Colour
A ₁	0	sl	10 YR 5/2 M
	15		
B ₁		scl	10 YR 5/2 M
	55		
B _{t2}		sc	10 YR 4/1 M
	103		
B ₃		scl	10 YR 6/2 M
	136		

Klv

LAND CAPABILITY CLASSIFICATION

THANJAVUR DISTRICT

Land Capability Classification shows 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 etc.,) 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 sub classes (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 THANJAVUR 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, Madukkur, Peravurani, Adhanur & Padugai.	2,42,429	75.23
	II es - Erosion and soil limitations	Budalur, Mudukulam, Pattukottai	49,139	15.25
	II sw - Soil and wetness associated limitations.	Alathur.	12,111	3.76
2.	III - Lands that have severe limitations for sustained use under agriculture	-	-	-
	III s - Soil limitations.	Melkadu *	5,045	1.57
	III sw - Soil and wetness associated limitations.	Kallivayal.	482	0.14
	III es - Erosion and soil limitations	Vallam.	13,045	4.05
Total			3,22,251	100.00

N



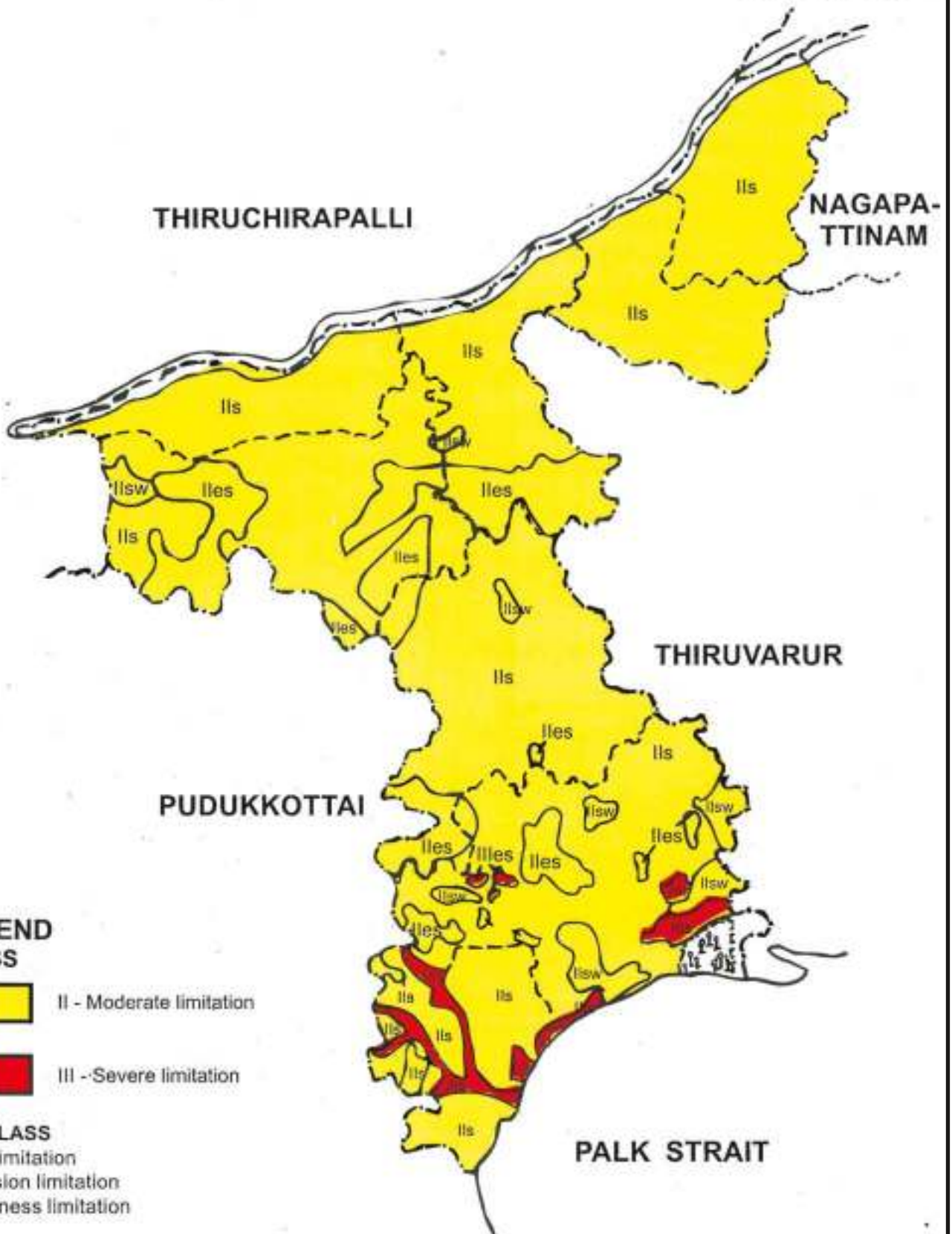
LAND CAPABILITY

THANJAVUR DISTRICT

CUDDALORE

THIRUCHIRAPALLI

NAGAPATTINAM



LEGEND



II - Moderate limitation



III - Severe limitation

SUB CLASS

s- soil limitation

e - erosion limitation

w - wetness limitation

LAND IRRIGABILITY CLASSIFICATION

THANJAVUR 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 and 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 limitations 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 letter showing the limitations like topography (t), soil (s) and drainage (d).

LAND IRRIGABILITY CLASSIFICATION FOR THANJAVUR 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, Adanur, Peravurani and Padugai.	1,84,354	57.21
	2st - Soil and topographical limitations.	Budalur, Mudukulam and Pattukkottai.	49,139	15.25
	2sd - Soil and drainage limitations	Kalathur, Alangudi and Alathur.	70,186	21.78
2.	3 - Lands that have severe soil limitations for sustained use under irrigation.	-	-	-
	3s- Soil limitation	Melkadu	5,045	1.57
	3st - Soil and topographical limitations	Vallam	13,045	4.05
	3sd - Soil and drainage limitations	Kallivayal	482	0.14
	Total			3,22,251

LAND IRRIGABILITY

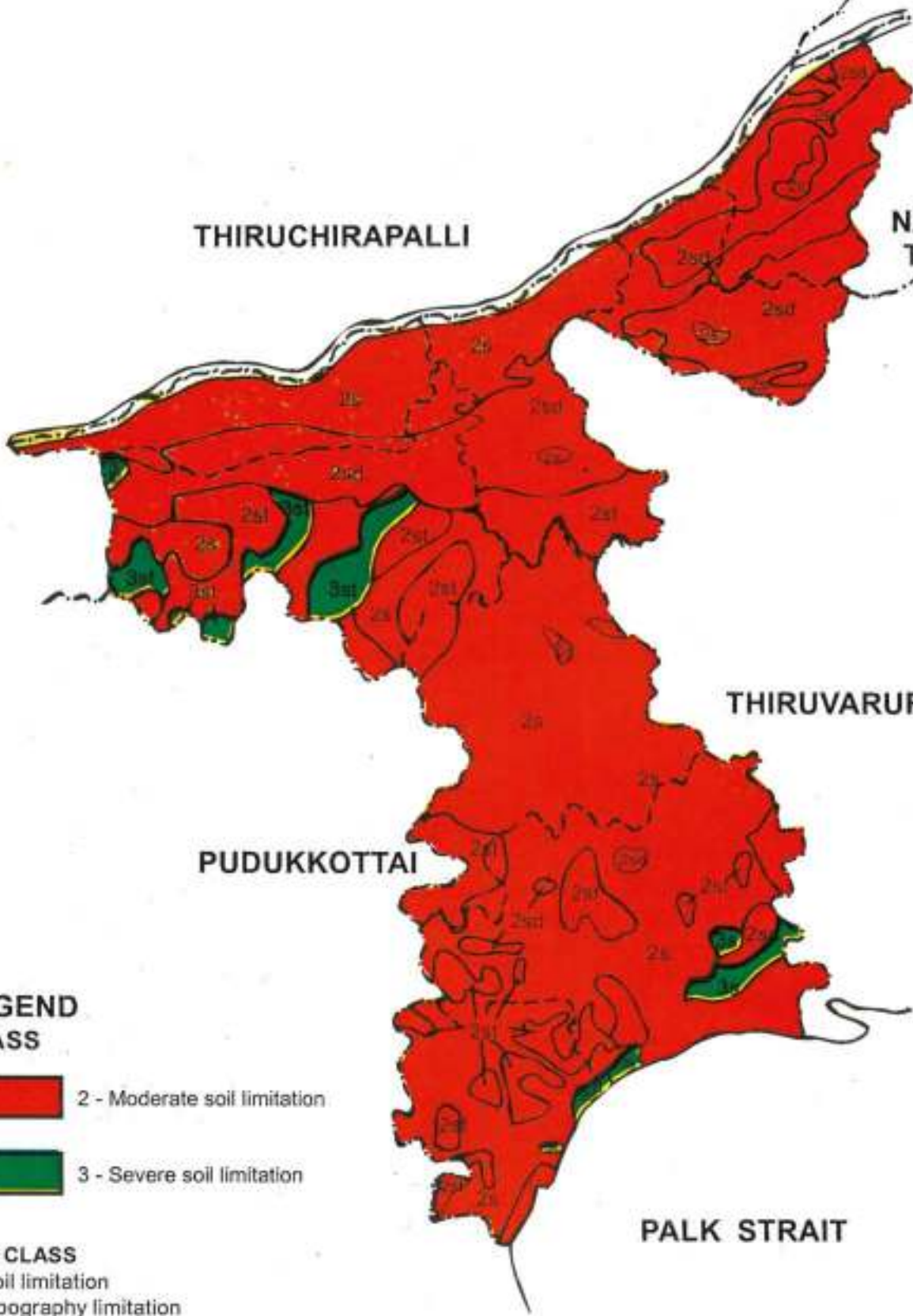
THANJAVUR DISTRICT



CUDDALORE

THIRUCHIRAPALLI

NAGAPATTINAM



THIRUVARUR

PUDUKKOTTAI

PALK STRAIT

LEGEND

CLASS



2 - Moderate soil limitation



3 - Severe soil limitation

SUB CLASS

s - soil limitation

t - topography limitation

d - drainage limitation

SOIL PRODUCTIVITY

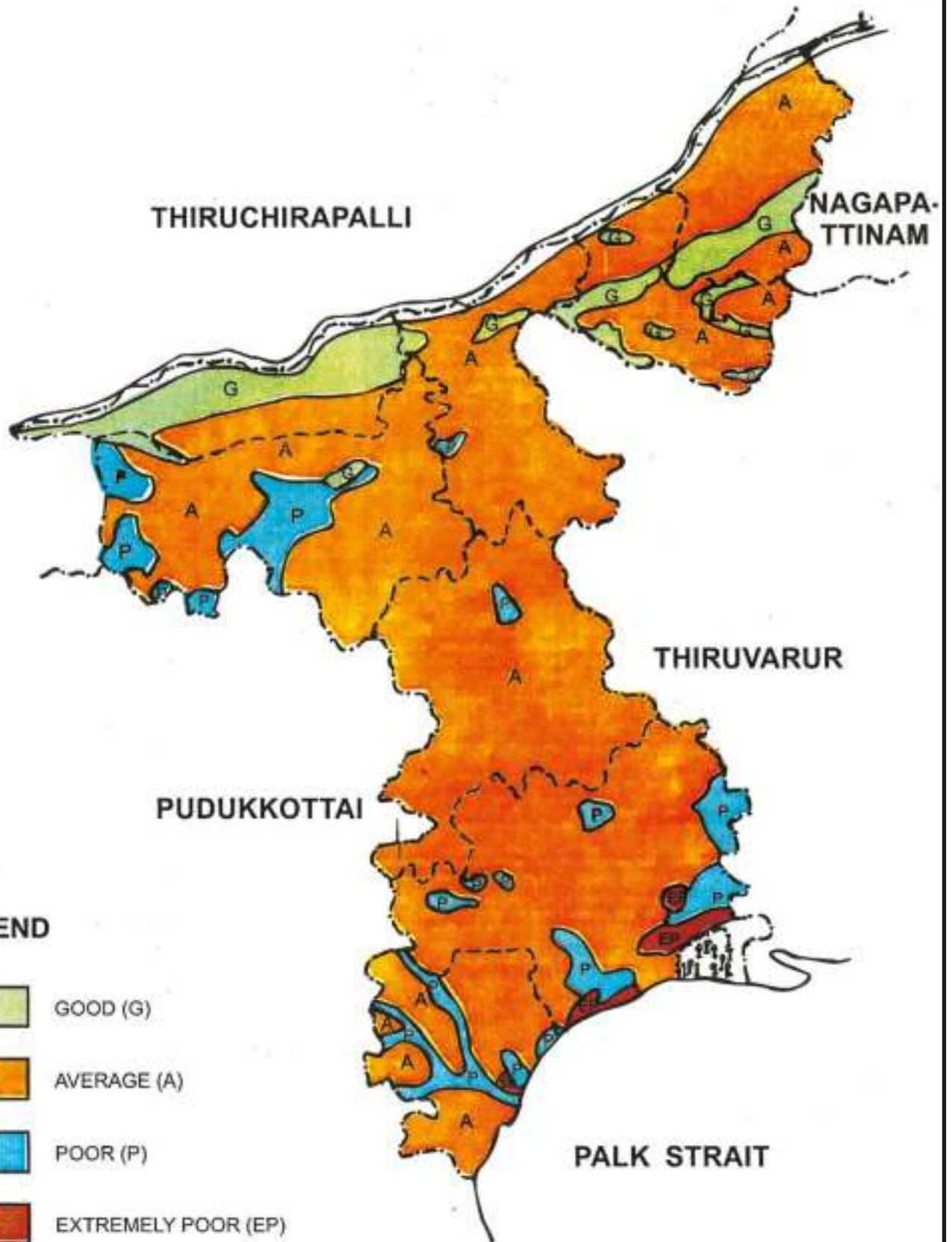
THANJAVUR DISTRICT

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 THANJAVUR DISTRICT

Sl. No.	Ratings	Productivity classes	Soil series	Extent (ha)	% to total
1.	0 - 7	Extremely poor (EP)	Kallivayal and Melkadu	5,527	1.72
2.	8 - 19	Poor (P)	Vallam, Alathur and Peravurani	31,828	9.88
3.	20 - 34	Average (A)	Kalathur, Alangudi, Budalur, Mudukulam, Pattukottai, Madukkur and Adhanur.	2,48,429	77.09
4.	35 - 64	Good (G)	Padugai.	36,467	11.31
5.	65-100	Excellent (E)	-	-	-
Total				3,22,251	100.00

SOIL PRODUCTIVITY THANJAVUR DISTRICT

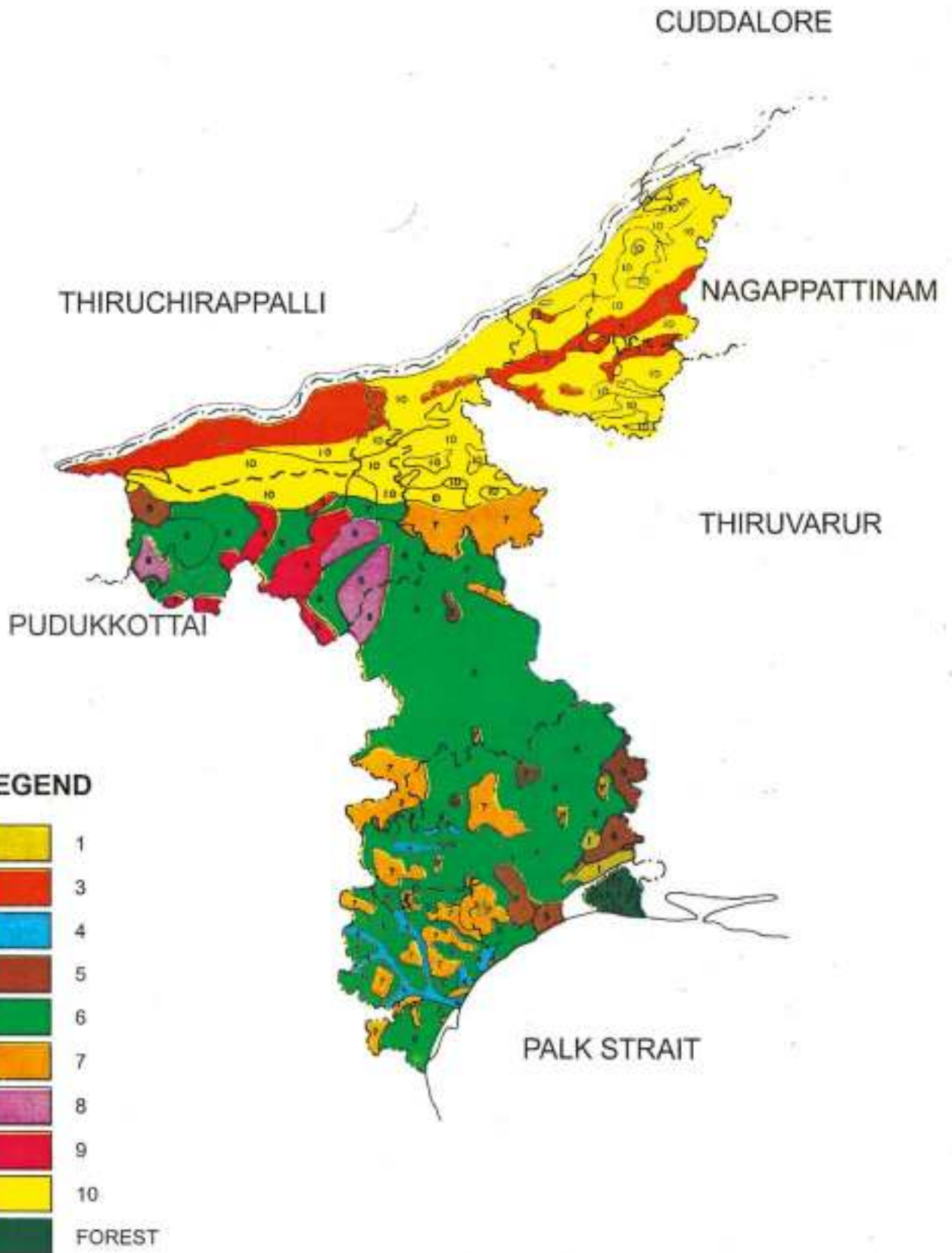


CROPS GROWN

THANJAVUR DISTRICT

Sl. No.	Crops grown		Map symbol	Soil Series
	Irrigated	Rainfed		
1.	Tobacco, Gingelly & Vegetables	Groundnut & Casuarina	1	Melkadu
2.	Banana, Sugarcane, Paddy, Vegetables & Flowers	Groundnut, Gingelly & Eucalyptus.	3	Padugai
3.	Paddy & Pulses	—	4	Kallivayal & Peravurant
4.	Paddy, Sugarcane & Millets	—	5	Alathur
5.	Groundnut, Gingelly, Paddy, Millets & Chillies	Groundnut	6	Budalur & Madukkur.
6.	Groundnut, Gingelly, Vegetables & Chillies	Groundnut, Coconut, Fruit trees, Eucalyptus & Casuarina	7	Pattukkottai
7.	Coconut, Flowers & Vegetables	Groundnut, Millets, Fruit trees	8	Mudukulam
8.	—	Groundnut, Millets, Cashew, Encalyptus	9	Vallam
9.	Paddy, Sugarcane & Cotton	Pulses	10	Kalathur , Adhanur & Alangudi

CROPS GROWN THANJAVUR DISTRICT



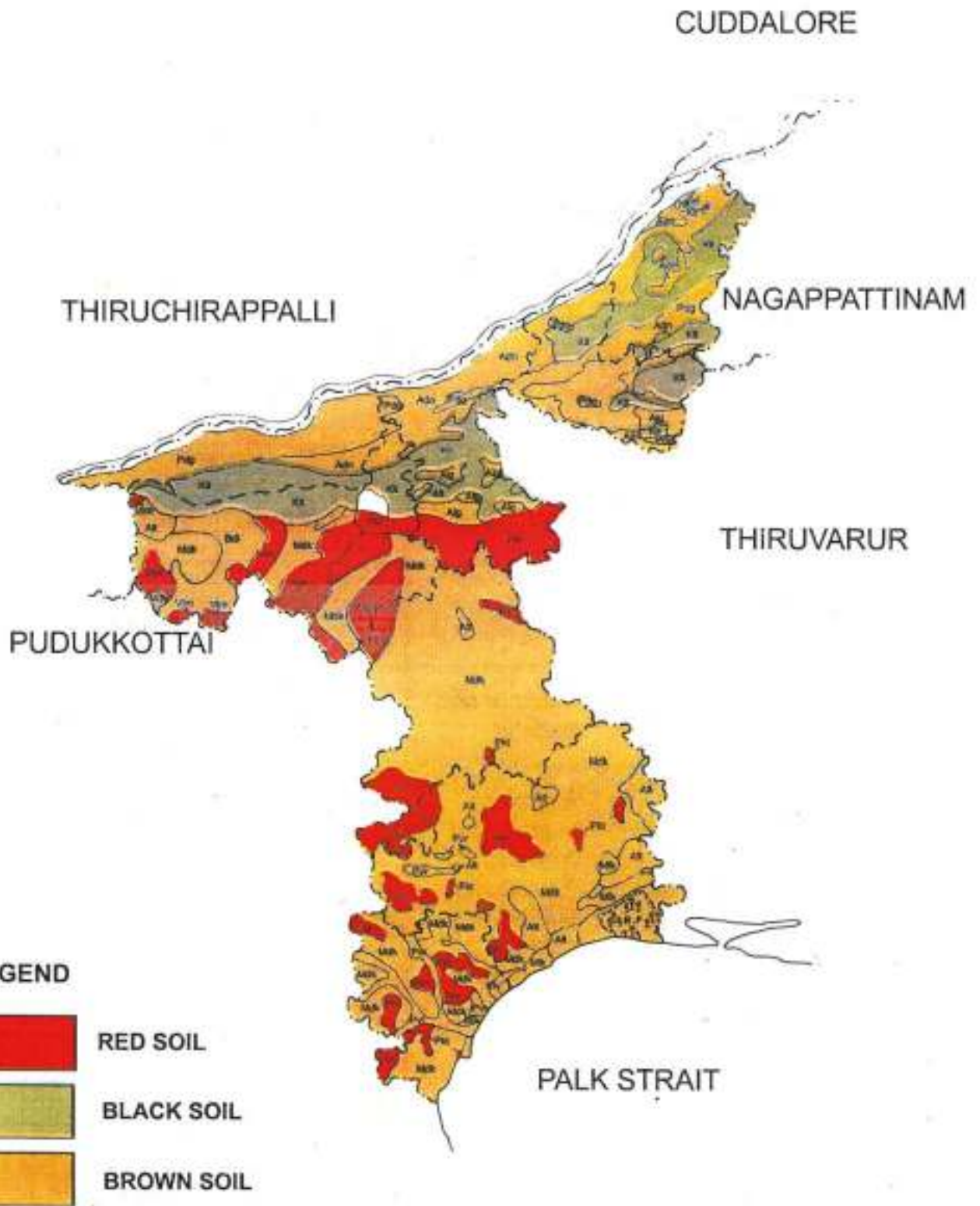
SOIL COLOUR

THANJAVUR DISTRICT

Soil colour	Soil series	Extent (ha)	% to total
Red	Pattukkottai , Mudukulam , Budalur & Vallam	62,184	19.30
Black	Kalathur	51,449	15.97
Brown	Padugai, Melkadu, Adhanur, Peravurani, Madukkur, Alathur, Kallivayal & Alangudi	2,08,618	64.73
	Total	3,22,251	100.00

SOIL COLOUR

THANJAVUR DISTRICT



EFFECTIVE SOIL DEPTH

THANJAVUR 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.

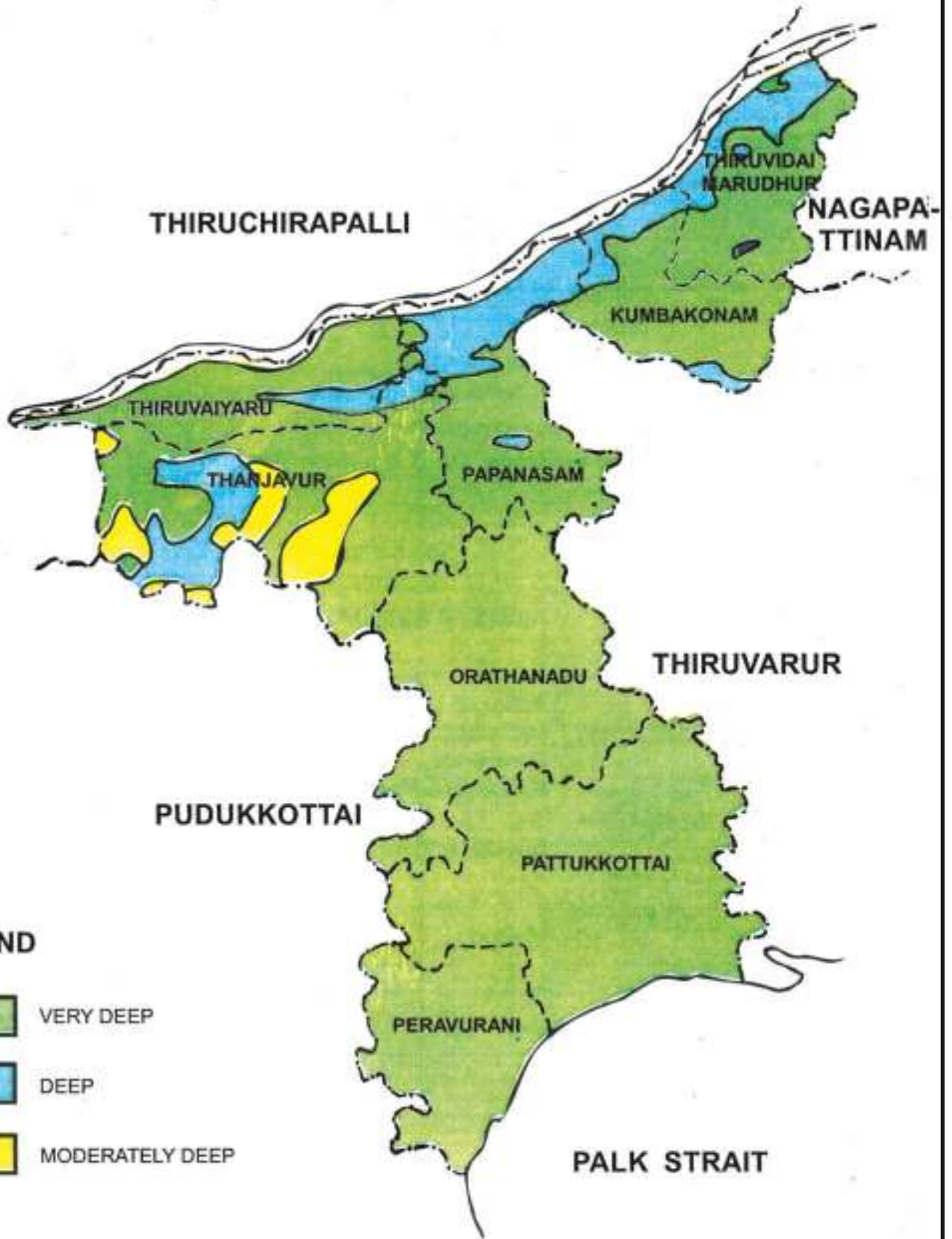
Effective soil depth	Soil series	Extent (ha)	% to total
Moderately deep (d3 - 25 to 50 cm)	Vallam	13,045	4.05
Deep (d4 - 50 to 100 cm)	Adhanur and Budalur	37,091	11.51
Very Deep (d5 - more than 100 cm)	Kalathur, Mudukulam, Alangudi Pattukkottai, Madukkur, Alathur Peravurani, Kallivayal, Melkadu and Padugai	2,72,115	84.44
Total		3,22,251	100.00

EFFECTIVE SOIL DEPTH

THANJAVUR DISTRICT



CUDDALORE



LEGEND

-  VERY DEEP
-  DEEP
-  MODERATELY DEEP

SOIL TEXTURE

THANJAVUR 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	58,075	18.02
Fine loamy. (soils with moderate clay content)	Adhanur, Mudukulam, Pattukkottai, Madukkur, Peravurani, Alathur, Kallivayal & Padugai.	2,39,637	74.36
Coarse loamy (open textured)	Budalur & Vallam	19,494	6.05
Sandy (open textured - skeletal)	Melkadu	5,045	1.57
Total		3,22,251	100.00

SOIL TEXTURE

THANJAVUR DISTRICT



CUDDALORE

THIRUCHIRAPALLI

THIRUVIDAI
NARAYDHUR

NAGAPA-
TTINAM

KUMBAKONAM

THIRUVAIYARU

THANJAVUR

PAPANASAM

ORATHANADU

THIRUVARUR


PUDUKKOTTAI

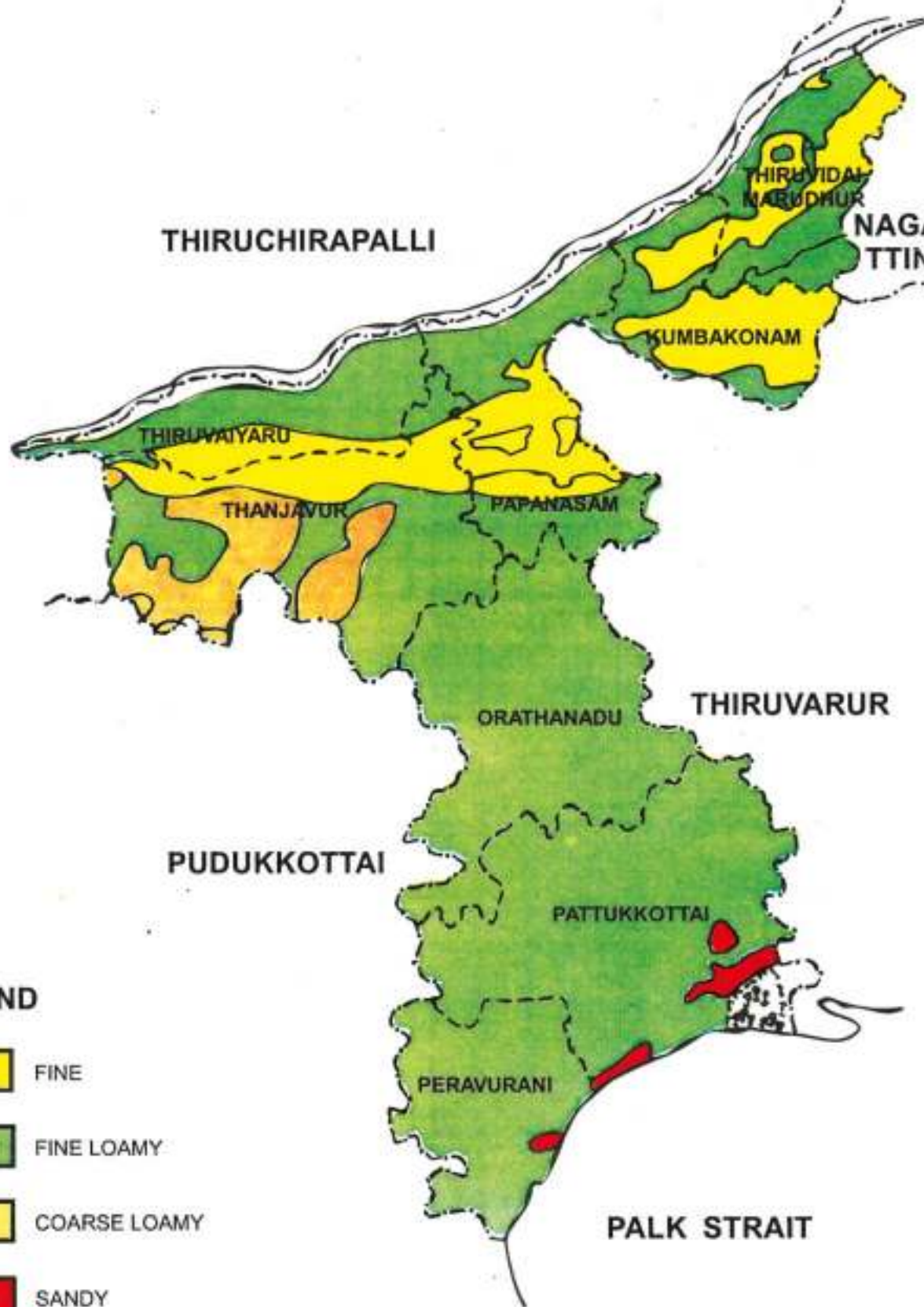
PATTUKKOTTAI

PERAVURANI

PALK STRAIT

LEGEND

-  FINE
-  FINE LOAMY
-  COARSE LOAMY
-  SANDY



PERMEABILITY

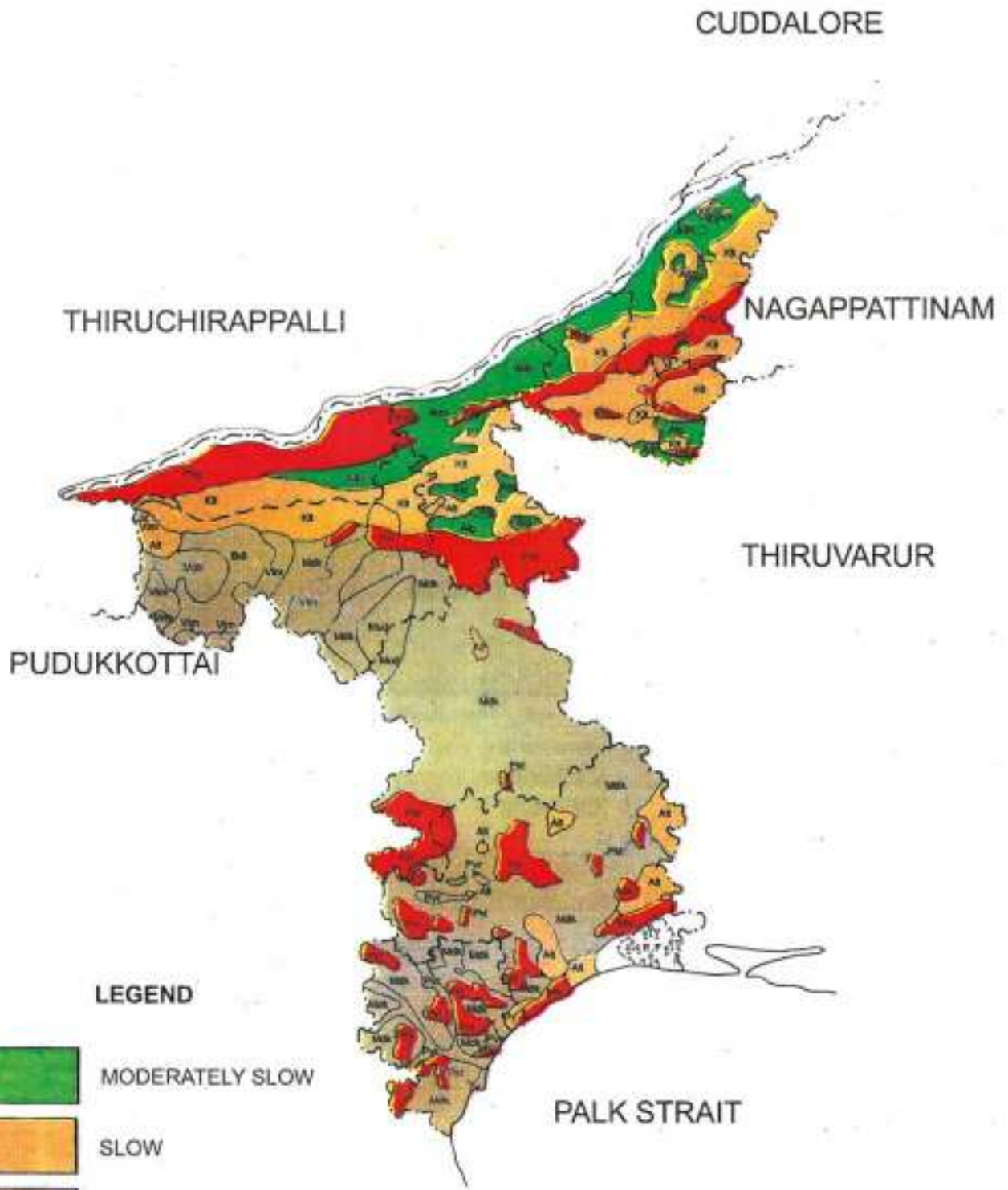
THANJAVUR DISTRICT

Class	Soil series	Extent (ha)	% to total
Slow (S)	Alathur, Kallivayal & Kalathur	64,042	19.87
Moderately slow (MS)	Adhanur & Alangudi	37,268	11.56
Moderately Rapid (MR)	Peravurani, Madukkur, Mudukulam, Budalur & Vallam	1,46,005	45.31
Rapid (R)	Padugai, Melkadu & Pattukkottai	74,936	23.26
	Total	3,22,251	100.00







PERMEABILITY

THANJAVUR DISTRICT



LEGEND

-  MODERATELY SLOW
-  SLOW
-  MODERATELY RAPID
-  RAPID

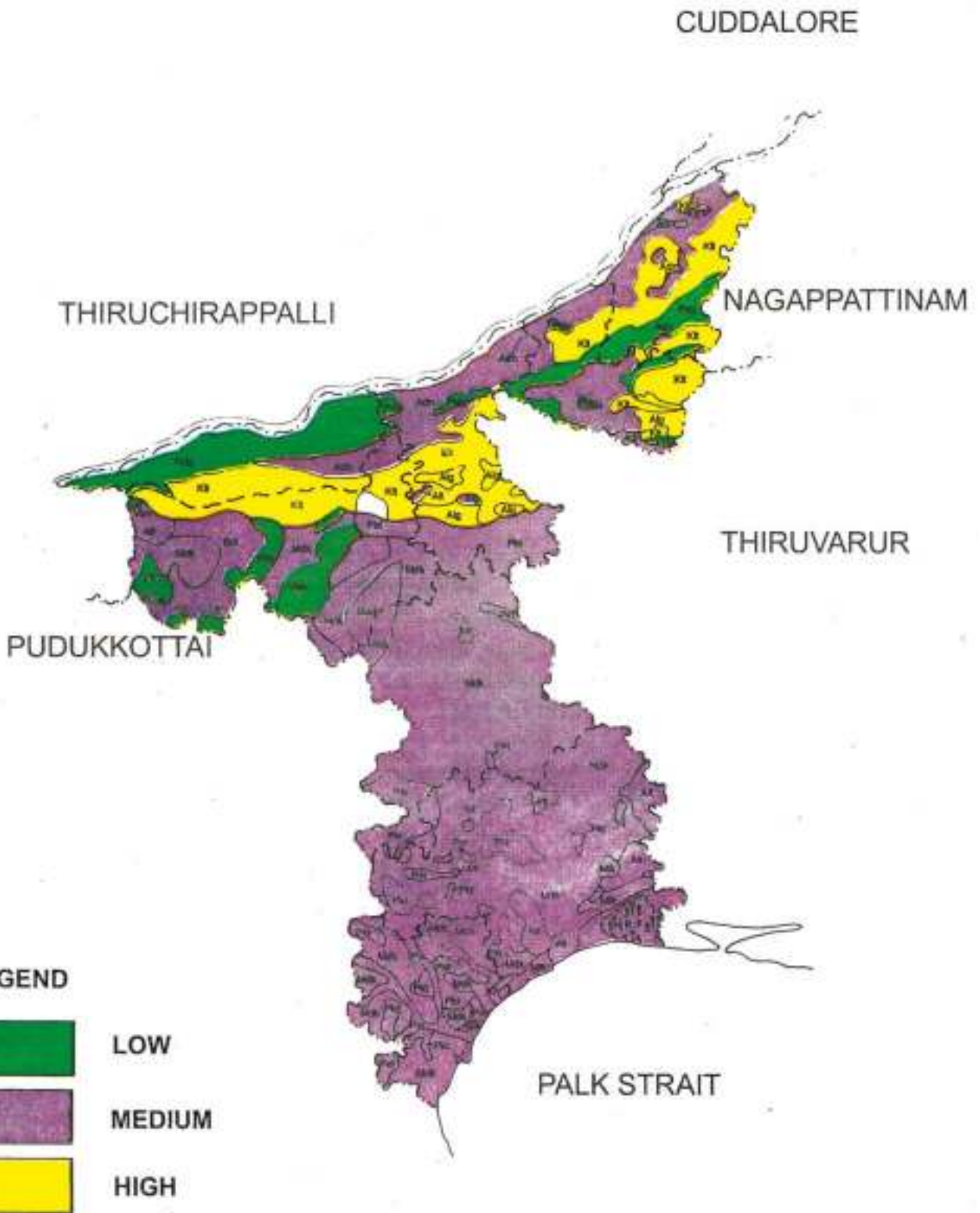
WATER HOLDING CAPACITY (WHC)

THANJAVUR DISTRICT

WHC category	Soil series	Extent (ha)	% to total
Low (up to 20%)	Padugai & Vallam	49,512	15.37
Medium (21 - 50%)	Adhanur, Madukkur, Melkadu, Pattukottai, Peravurani, Alathur, Mudukulam, Budalur & Kallivayal	2,14,664	66.61
High (>50%)	Kalathur & Alangudi	58,075	18.02
	Total	3,22,251	100.00

WATER HOLDING CAPACITY

THANJAVUR DISTRICT



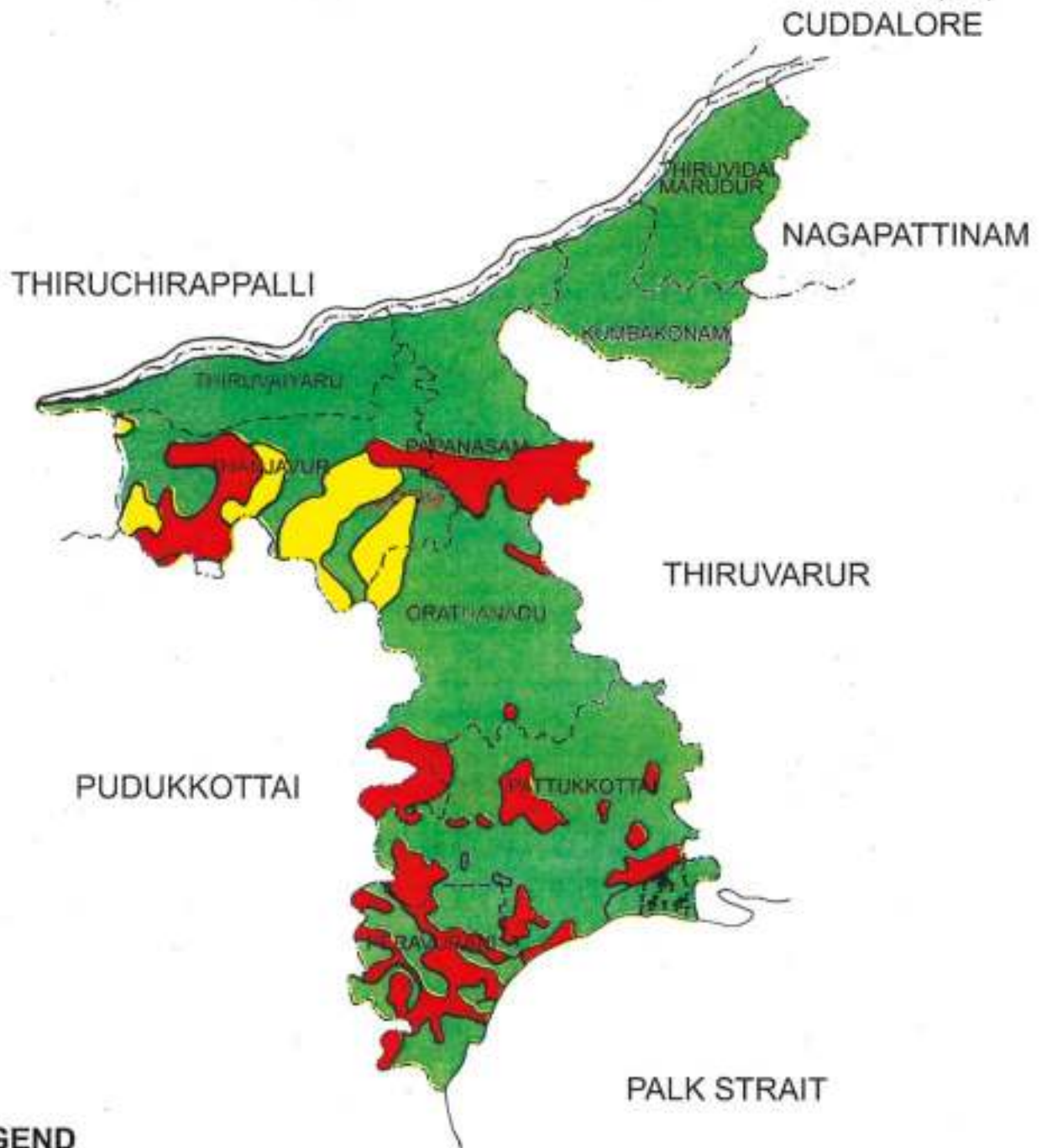
EROSION

THANJAVUR 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, Alangudi, Adhanur, Madukkur, Alathur, Kallivayal and Padugai.	2,48,350	77.07
Moderate (e ₂)	Melkadu, Budalur, Peravurani and Pattukkottai.	51,590	16.01
Severe (e ₃)	Vallam and Mudukulam	22,311	6.92
Total		3,22,251	100.00

EROSION THANJAVUR DISTRICT



LEGEND

EROSION TYPE

	SEVERE (e ₃)
	MODERATE (e ₂)
	SLIGHT / NO EROSION

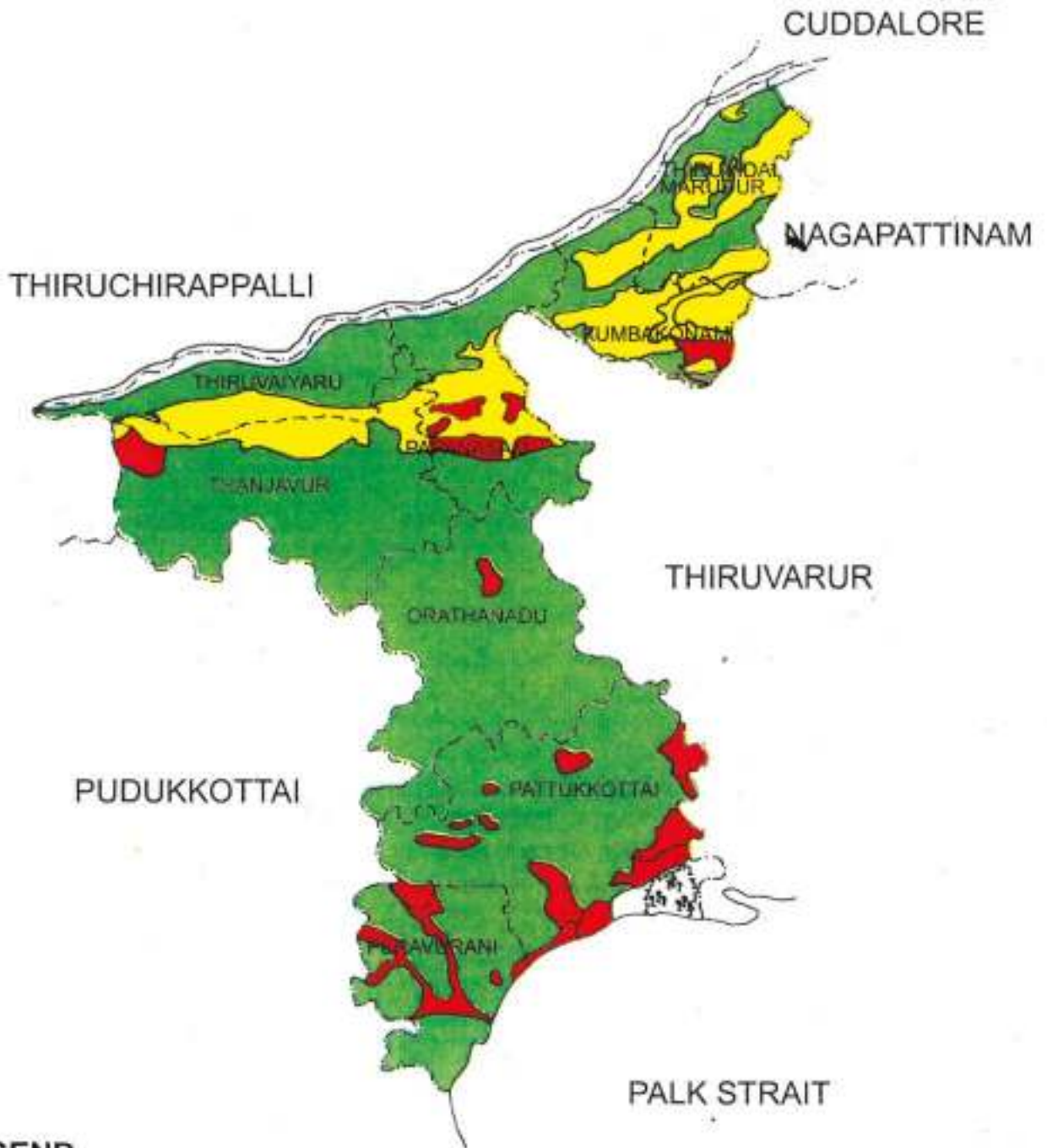
CALCAREOUSNESS

THANJAVUR 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	Vallam, Mudukulam, Pattukkottai, Madukkur, Adhanur, Padugai & Budalur.	2,39,866	74.43
Mild	Kalathur	51,449	15.97
Strong	Alangudi, Alathur, Peravurani, Melkadu & Kallivayal	30,936	9.60
Total		3,22,251	100.00

CALCAREOUSNESS THANJAVUR DISTRICT



LEGEND

CALCAREOUSNESS CLASS

	STRONG
	MILD
	NIL

SALINITY

THANJAVUR DISTRICT

Category	Soil series	Extent (ha)	% to total
Saline	Kallivayal	482	0.15
Non - saline	Padugai, Melkadu, Adhanur, Madukkur, Pattukkottai , Mudukulam, Budalur, Vallam, Kalathur, Alangudi , Alathur & Peravurani	3,21,769	99.85
	Total	3,22,251	100.00

SALINITY

THANJAVUR DISTRICT



CUDDALORE

THIRUCHIRAPALLI

NAGAPATTINAM

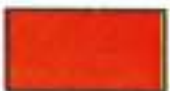
THIRUVARUR

PUDUKKOTTAI

LEGEND

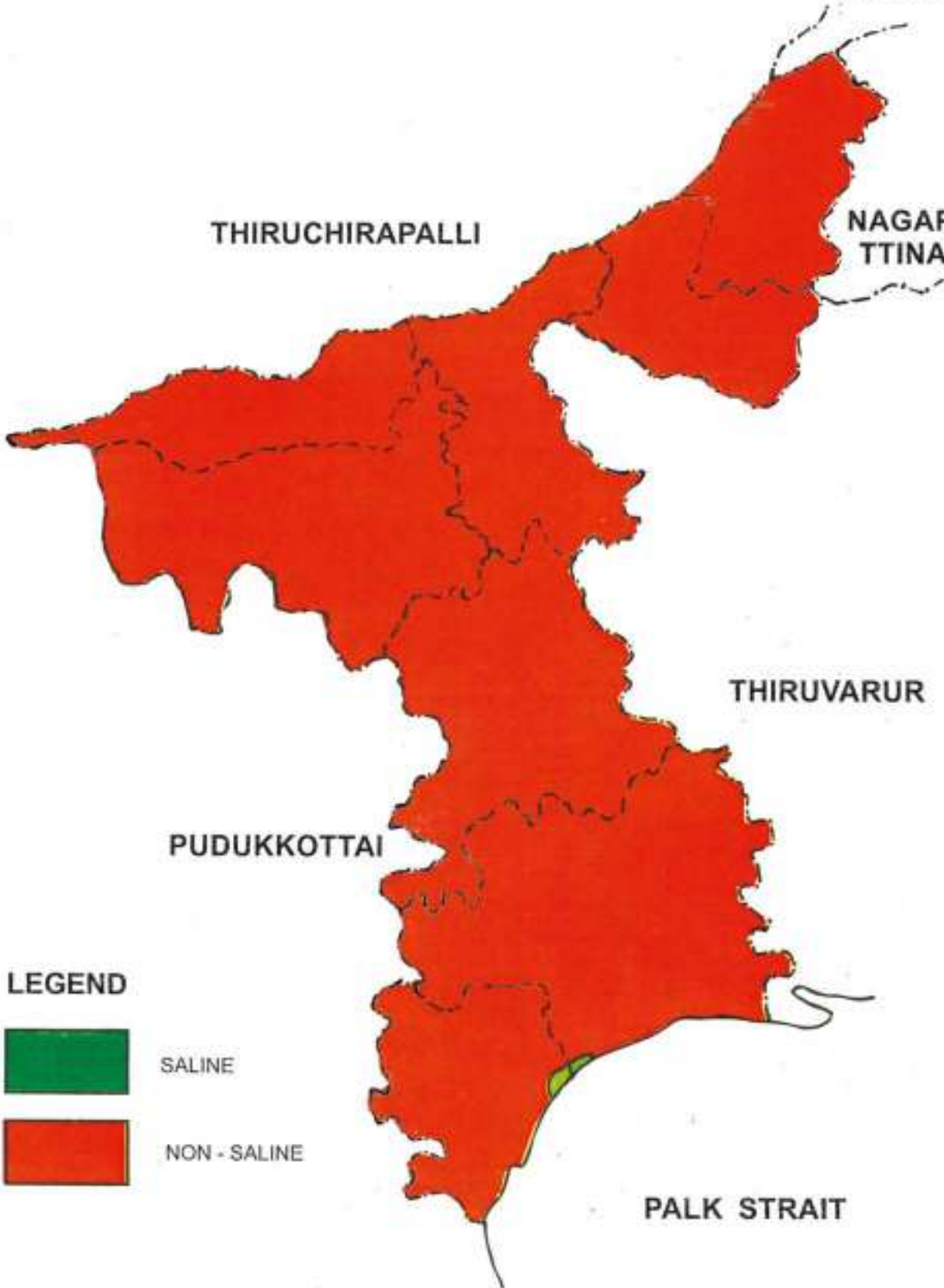


SALINE



NON - SALINE

PALK STRAIT



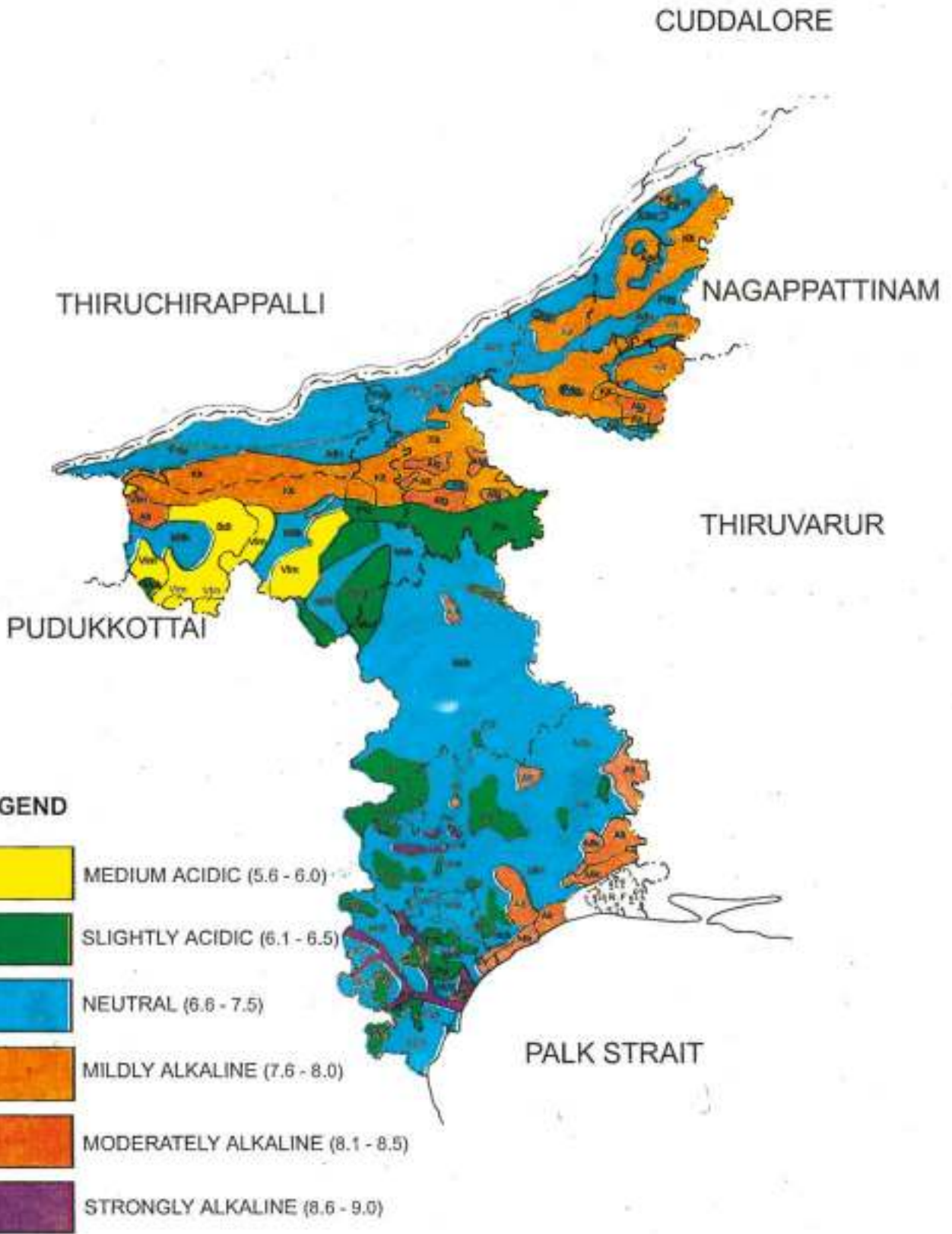
SOIL REACTION (pH)

THANJAVUR DISTRICT

Category	Soil series	Extent (ha)	% to total
Medium acidic (5.6 - 6.0)	Budalur & Vallam	19,494	6.04
Slightly acidic (6.1 - 6.5)	Pattukkottai & Mudukulam	42,690	13.25
Neutral (6.6 - 7.5)	Padugai , Adhanur & Madukkur	1,77,682	55.14
Mildly alkaline (7.6 - 8.0)	Kalathur	51,449	15.97
Moderately alkaline (8.1 - 8.5)	Alangudi , Melkadu, Alathur & Kallivayal	24,264	7.53
Strongly alkaline (8.6 - 9.0)	Peravurani	6,672	2.07
	Total	3,22,251	100.00

SOIL REACTION

THANJAVUR DISTRICT



CATION EXCHANGE CAPACITY (CEC)

THANJAVUR DISTRICT

- * CEC of soils is mainly related to clay content, clay minerology and organic matter content . Nutrients retained by clay and organic matter are not lost by leaching.
- * CEC of soil has a definite bearing on the following.
 - loss of applied nutrient
 - time and method of application of fertilizers
 - fertilizer use efficiency
 - native fertility of soils.

CEC Category	Soil series	Extent (ha)	% to total
Low	Vallam, Budalur, Mudukulam, Pattukkottai, Melkadu & Padugai.	1,03,696	32.18
Medium	Madukkur, Peravurani & Adhanur.	1,47,887	45.89
High	Kalathur, Alangudi, Alathur & Kallivayal.	70,668	21.93
Total		3,22,251	100.00

QUALITY OF IRRIGATION WATER

THANJAVUR DISTRICT

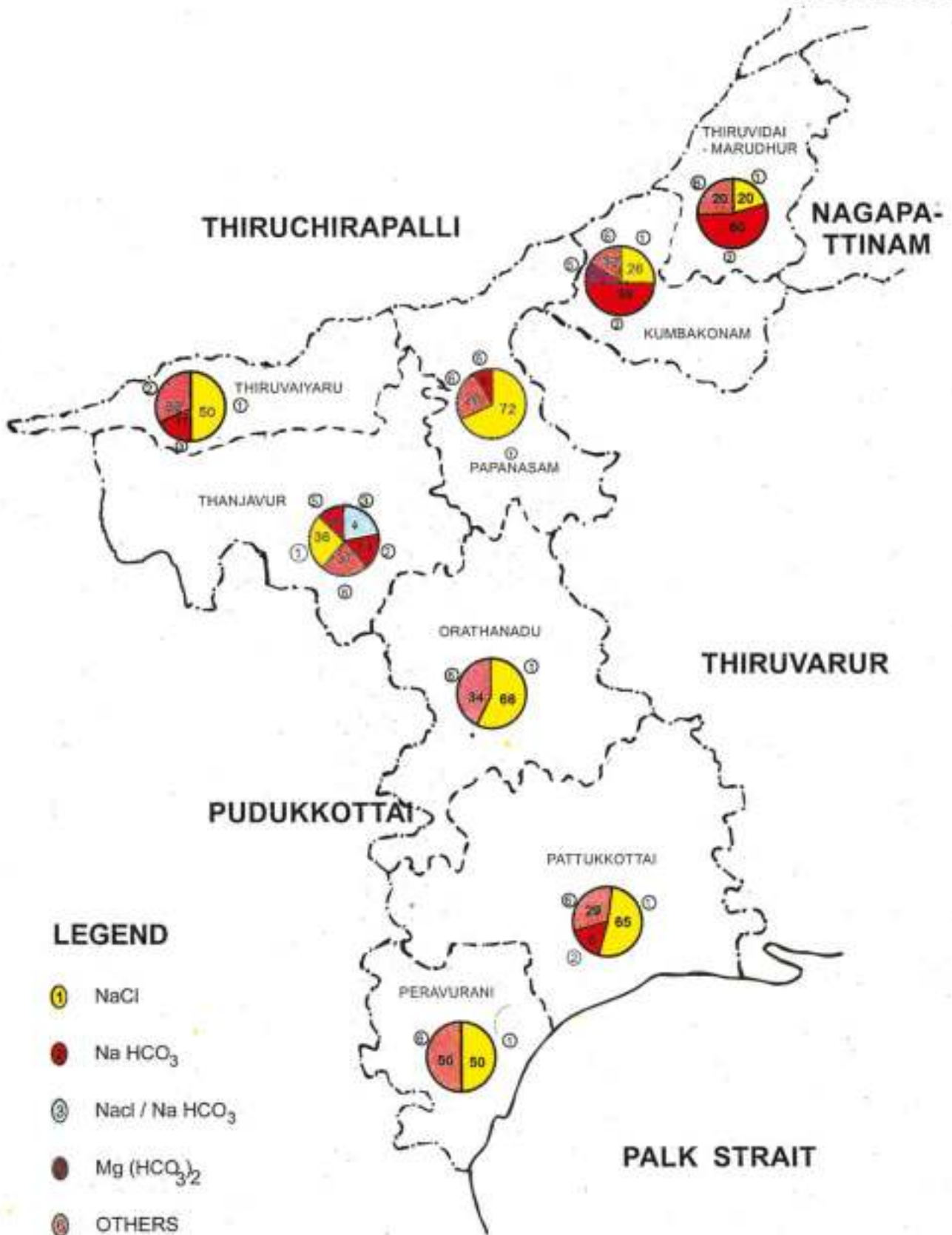
Sl. No.	Taluks	Geo - chemical type (% to total)					
		NaCl	NaHCO ₃	NaCl / NaHCO ₃	MgCl ₂	Mg(HCO ₃) ₂	Others
1.	Thanjavur	36	19	4	—	4	37
2.	Thiruvaiyaru	50	33	—	—	—	17
3.	Orathanadu	66	—	—	—	—	34
4.	Pattukkottai	65	6	—	—	—	29
5.	Peravurani	50	—	—	—	—	50
6.	Papanasam	72	20	—	—	—	8
7.	Kumbakonam	26	39	—	—	3	32
8.	Thiruvidaimarudhur	20	60	—	—	—	20

QUALITY OF IRRIGATION WATER

THANJAVUR DISTRICT



CUDDALORE



SOILS

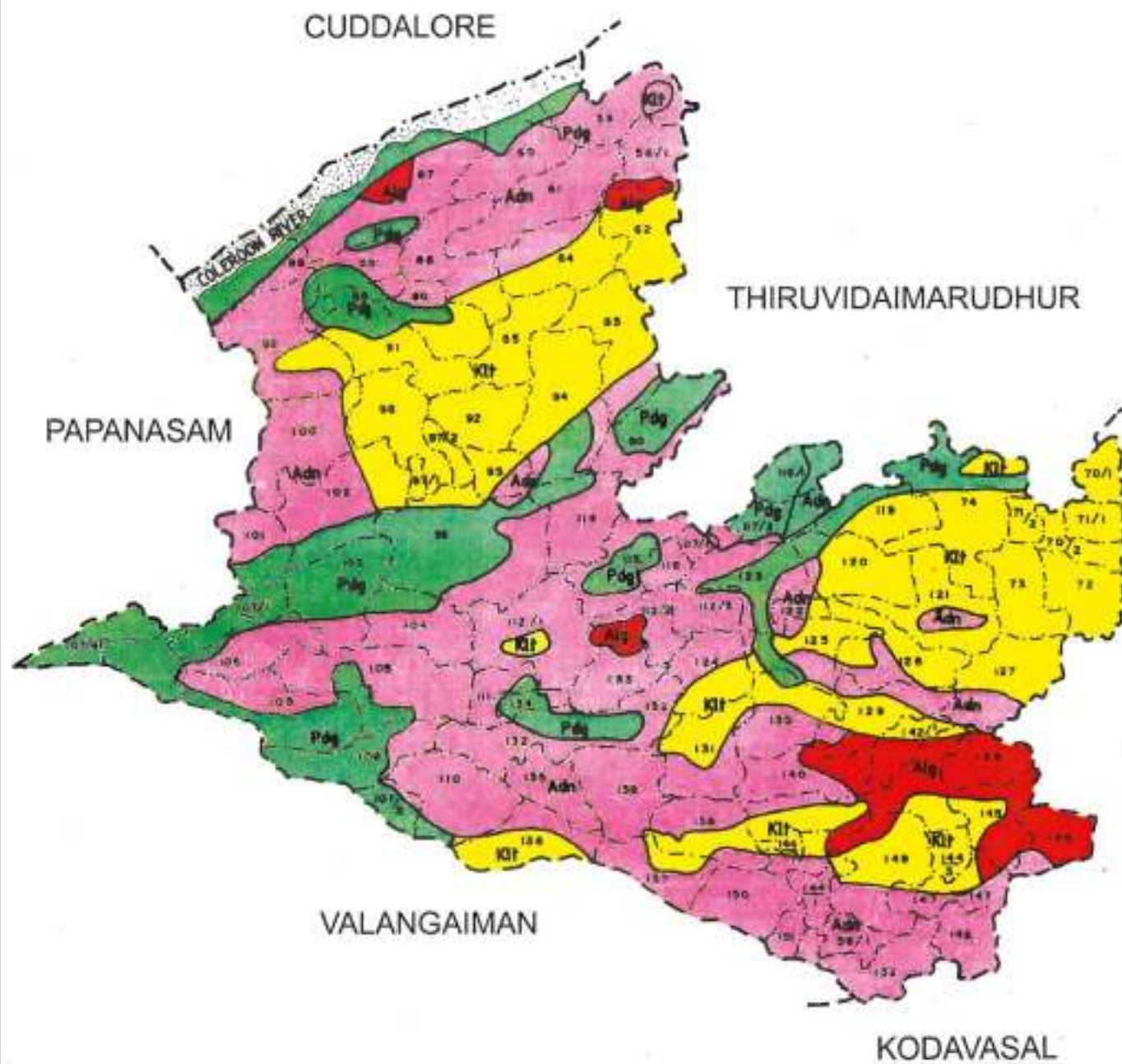
KUMBAKONAM TALUK

Sl. No.	Soil series	Extent (ha)	% to total
1.	Padugai (Pdg)	8,903	32.19
2.	Kalathur (Klt)	8,660	31.31
3.	Adhanur (Adn)	8,499	30.73
4.	Alangudi (Alg)	1,596	5.77
	Total	27,658	100.00



SOILS

KUMBAKONAM TALUK



**REVENUE VILLAGEWISE SOIL DISTRIBUTION
KUMBAKONAM TALUK**

THANJAVUR DISTRICT

Sl. No.	Village No.	Village name	Soil distribution (%)
1.	58	Villandakandam	Adn 100
2.	59	Cholapuram	Klt 15, Adn 85
3.	60	Athiyur	Adn 60, Pdg 40
4.	61	Kumarankudi	Adn 100
5.	61 - 1	Uthamathani	Adn 100
6.	62	Kovilachery	Klt 80, Alg 20
7.	84	Kallur	Klt 55, Adn 45
8.	85	Agarathur	Klt 100
9.	86	Devanancheri	Klt 20, Adn 80
10.	86 - 1	Thirunallur	Adn 60, Alg 20, Pdg 20
11.	88	Kothangudi	Adn 40, Pdg 60
12.	89	Kothangudi Thattimal	
13.	90	Kadichampadi	Klt 50, Adn 30 Pdg 20
14.	91	Valapuram	Klt 65, Pdg 35
15.	99	Thirupurambiyam	Klt 25, Adn 65 Pdg 10
16.	104	Darasuram	Adn 70, Pdg 30
17.	105	Sholanmaligai	Adn 90, Pdg 10
18.	87	Neelathanalur	Adn 60, Alg 20, Pdg 20
19.	105 / 1	Ariyapadaiveedu	Adn 95, Pdg 5
20.	106	Thiruvalanjuli	Adn 55, Pdg 45
21.	107	Sundaraperumalkoil Thenpathi	Klt 100
22.	107 / 2	".Vadapathi	Pdg 100
23.	107 / 3	Andakkudi Thottam	Pdg 100
24.	107 / 6	Thiruvalamjuli Thattimal	Adn 60, Pdg 40
25.	107 / 6	Thenampadugai	Adn 25, Pdg 75

Sl. No.	Village No.	Village name	Soil distribution (%)
26.	107 / 5	Vellapalayam Pettai	Pdg 100
27.	107 / 2	Patteeswaram Padugai	Pdg 100
28.	108	Patteeswaram	Adn 60, Pdg 40
29.	108 / 1	Vaniyamkarambai	
30.	109	Thenampadugai	Adn 25, Pdg 75
31.	110	Udaiyalur	Adn 95, Pdg 5
32.	112	Annalagraharam	Klt 20, Adn 75, Alg 5
33.	112 / 2	Thirumeignanam	And 85, Alg 15
34.	112 / 3	Chidambaranathmudali Thottam	Adn 80, Alg 20
35.	112 / 1	Mathi	Klt 10, Adn 90
36.	132	Marudhanallur	Klt 15, Adn 60, Pdg 25
37.	132 / 1	Palaiyanallur	Klt 15, Adn 60, Pdg 25
38.	133	Karuppur	Adn 90, Alg 10
39.	133 / 1	Sakkottai	Adn 95, Pdg 5
40.	134	Keezhakorukkai	Adn 40, Pdg 60
41.	135	Sezhampadi	Adn 100
42.	136	Thillaiyampur	Klt 55, Adn 45
43.	136	Thippirajapuram	Klt 5, Adn 95
44.	80 / 1	Ammachathram	Adn 75, Pdg 25
45.	82 / 2	Maruthadi	Adn 75, Pdg 25
46.	94 / 1	Sarangapanipettai	Adn 95, Pdg 5
47.	83	Kallapuliyur	Klt 75, Adn 15, Pdg 10
48.	92	Aasur	Klt 100
49.	92 / 1	Inam Asur	Klt 100
50.	94	Koran attukaruppur Part I	Klt 55, Adn 20, Pdg 25

Sl. No.	Village No.	Village name	Soil distribution (%)
51.	94	Koranattukkaruppur Part II	Klt 55, Adn 20, Pdg 25
52.	95	Perumandi	Klt 65, Adn 35
53.		Agaraka Perumandi	Klt 65, Adn 35
54.	96	Patnam (Kumbakonam)	Adn 45, Pdg 55
55.	97	Moopakoil	Pdg 100
56.	97 / 3	Kavaraihottam	} Pdg 100
57.	97 / 4	Kavaraihottam	
58.	97 / 1	Pudhuthivan vadathottam	Pdg 100
59.	98	Eragaram	Klt 100
60.	98 / 1	Melakaveri	Klt 100
61.	100	Innampur	Klt 15, Adn 85
62.	100 / 2	Mugasa Innampur Thenpathi	Klt 15, Adn 85
63.	100 / 1	Nagakkudi	Klt 15, Adn 85
64.	101	Swamimalai	Adn 60, Pdg 40
65.	102	Baburajapuram	Klt 25, Adn 60, Pdg 15
66.	102 / 1	Madhavapuram	Pdg 100
67.	102 / 1	Kottaiyur	Pdg 100
68.	102 / 3	Thimmakkudi	Klt 35, Adn 45, Pdg 20
69.	103	Valayapettai	Adn 20, Pdg 80
70.	113	Pazhavathakattalai	Adn 60, pdg 40
71.	113 / 1	Miruthiyanchappadiveedu	Adn 55, Pdg 45
72.	113 / 5	Ammathottam	Adn 60, Pdg 40
73.	113 / 6	Rajanthottam	Adn 60, Pdg 40
74.	113 / 4	Nachiyarthottam	} Adn 55, Pdg 45
75.	113 / 2	Seerankattalaithottam	

Sl. No.	Village No.	Village name	Soil distribution(%)
76.	113 / 1	Malaiyappanallur	Adn 55, Pdg 45
77.	114	Ullur	Adn 80, Pdg 20
78.	114 - 1	Kodiyanthottam	Adn 75, Pdg 25
79.	114 / 1	Kodiyanthottam	Adn 75, Pdg 25
80.	121	Puthagaram	Klt 85, Adn 15
81.	121 / 1	Irاندankattalai	Klt 80, Adn 20
82.	123	Villiyavarambal	Klt 10, Adn 45, Pdg 45
83.	112 - 2	Sivapuram	Adn 100
84.	112 - 4	Malaiyappanallur	Adn 75, Alg 25
85.	124	Krishnapuram	Klt 65, Adn 35
86.	125	Sembiyavarambal	Klt 60, Adn 20, Pdg 20
87.	126	Thandanthoottam	Klt 75, Adn 25
88.	127	Thukkatchi	Klt 70, Adn 30
89.	70	Katchukkattu	Klt 100
90.	71	Mallapuram	Klt 100
91.	72	Vilangudi	Klt 100
92.	73	Ammangudi	Klt 100
93.	74	Vittalur	Klt 70, Pdg 30
94.	74 / 1	Elandurai	Klt 70, Pdg 30
95.	118	Srinivasanallur	Adn 95, Pdg 5
96.	113 / 1	Pangal	Adn 95, Pdg 5
97.	116	Sannapuram	Adn 35, pdg 65
98.	116 / 1	Sannapuram Minor Inam	Adn 35, Pdg 65
99.	117	Anakkudi Thirunageswaram	Adn 35, Pdg 65
100.	119	Mangudi	Klt 70, Pdg 30

Sl. No.	Village No.	Village name	Soil distribution (%)
101.	120	Boundareegapuram	Klt 75, Adn 10, Pdg 15
102.	128	Kumaramangalam	Adn 5, Alg 95
103.	129	Thiruppanthurai	Klt 45, Adn 45, Alg 10
104.	130	Thirunaraiyur	Klt 35, Adn 50, Pdg 15
105.	131	Enanallur	Klt 45, Adn 55
106.	137	Visalur	Klt 40, Adn 60
107.	139	Thandalam	Klt 45, Adn 55
108.	140	Nachiyarkoil	Adn 45, Alg 55
109.	141	Mathoor	Klt 40, Adn 40, Alg 20
110.	142	Kovanur	Klt 40, Adn 10, Alg 50
111.	143	Kothankudi	Klt 30, Alg 70
112.	144	Vanduvanchery	Klt 40, Adn 35, Pdg 25
113.	144 / 1	Velangudi	Klt 40, Adn 35, Pdg 25
114.	144 / 2	Aandaloor	Klt 40, Adn 35, Pdg 25
115.	145	Koohur	Klt 25, Alg 75
116.	146	Perappadi	Adn 25, Alg 75
117.	147	Keeranur	Klt 60, Pdg 15, Alg 25
118.	148	Paruthicheri	Adn 75, Pdg 25
119.	149	Semmangudi	Klt 65, Pdg 15, Alg 20
120.	140 / 1	Varvangarai	Adn 45, Alg 55
121.	150	Nagarasampettai	Adn 100
122.	151	Thirucherai	Adn 100
123.	152	Injikkollai	Adn 95, Pdg 5
124.	110	Udaiyalur	Adn 95, Pdg 5

FERTILITY INDICES FOR THE VILLAGES IN KUMBAKONAM TALUK

THANJAVUR DISTRICT

Sl. No.	Village No.	Village name	Fertility indices (Kg / ac)		
			N	P ₂ O ₅	K ₂ O
1.	58	Vilanthakandam	69	80	82
2.	59	Cholapuram	69	75	72
3.	60	Athiyur	57	232	193
4.	61	Kumarankudi	57	96	211
5.	61-1	Uthamathani	57	38	189
6.	84	Kallur	49	2	14
7.	86-1	Thirunallur	57	29	305
8.	90	Kadichambadi	49	51	303
9.	99	Thirupurambiam	40	52	47
10.	104	Darasuram	57	45	63
11	105	Sholanmaligai	65	219	294
12.	87	Neelathanallur	57	72	565
13.	106	Thiruvalanjuli	57	75	333
14.	107/2	Patteswaram padugai	57	1	52
15.	109	Thenampadugai	57	274	510

Sl. No.	Village No.	Village name	Fertility Indices (Kg / ac)		
			N	P ₂ O ₅	K ₂ O
16.	110	Udaiyalur	57	42	212
17.	134	Keezhakorukkai	56	170	295
18.	136	Thillaiyampur	49	206	257
19.	136	Thippirajapuram	57	55	150
20.	94/1	Sarangapanipettai	57	46	132
21.	92	Asur	57	111	600
22.	94	Koranattukkaruppur	53	51	221
23.	100	Innampur	57	56	403
24.	102/3	Thimmakkudi	57	191	177
25.	114/1	Kodianthotam	57	222	156

Sl. No.	Village No.	Village name	Fertility indices (Kg / ac)		
			N	P ₂ O ₅	K ₂ O
26.	125	Sembiavarambal	77	15	256
27.	127	Thukkatchi	49	28	210
28.	71	Mallapuram	49	62	168
29.	73	Ammangudi	49	175	352
30.	113/1	Pangal	65	70	178
31.	116	Sannapuram	61	15	57
32.	120	Boundareegapuram	49	25	486
33.	131	Ennallur	57	33	240
34.	137	Visalur	49	56	188
35.	140	Nachiarkoil	83	121	284
36.	141	Mathur	57	29	200
37.	144	Vanduvancheri	57	35	186
38.	146	Perappadi	49	14	224
39.	152	Injikkollai	57	46	125
40.	110	Udaiyalur	57	42	212

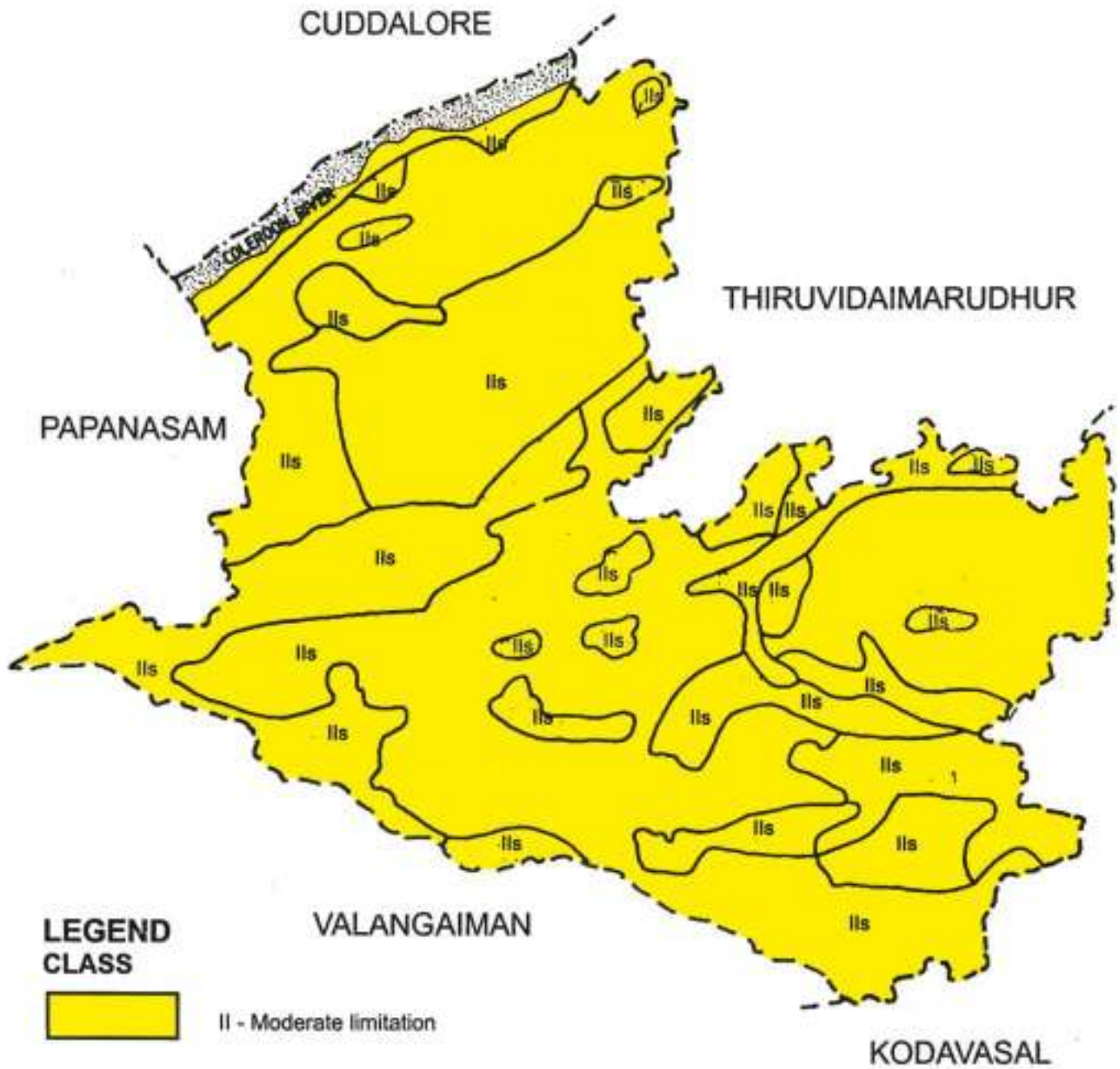
LAND CAPABILITY CLASSIFICATION

KUMBAKONAM 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 cultivation	8,660	31.31	Heavy texture, drainage, salinity / alkalinity	Drainage improvement, soil breeding and liberal addition of organics
2.	Adhanur	II s -do-	8,499	30.73	Heavy texture	Drainage improvement
3.	Padugai	II s -do-	8,903	32.19	Surface run off	Conservation irrigation methods
4.	Alangudi	II s -do-	1,596	5.77	Heavy texture drainage, salinity / alkalinity	Drainage improvement soil breeding, liberal addition of organics
		Total	27,658	100.00		

LAND CAPABILITY

KUMBAKONAM TALUK



LEGEND

CLASS



II - Moderate limitation

SUBCLASS

s - soil limitation

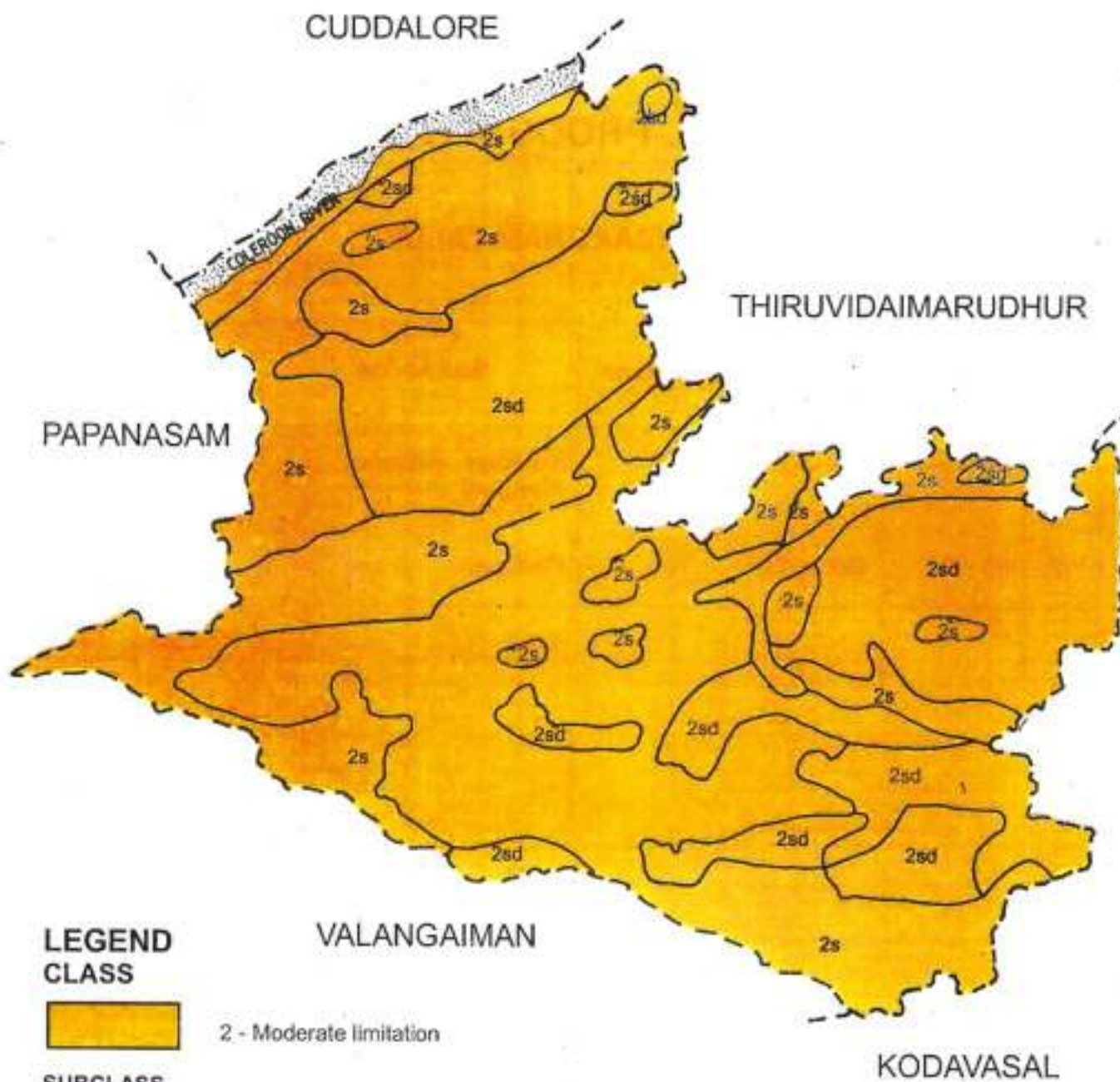
LAND IRRIGABILITY CLASSIFICATION

KUMBAKONAM TALUK

Sl. No.	Soil series	Class, sub - class	Extent (ha)	% to total	Soil limitations
1.	Kalathur & Alangudi	2 sd - Lands that have moderate limitations for sustained use under irrigation	10,256	37.08	Drainage and permeability
2.	Adhanur	2s - -do-	8,499	30.73	-do-
3.	Padugai	2s - -do-	8,903	32.19	Topography, erosion, texture, low water holding capacity
		Total	27,658	100.00	

LAND IRRIGABILITY

KUMBAKONAM TALUK



LEGEND

CLASS



2 - Moderate limitation

SUBCLASS

s - soil limitation

d - drainage limitation

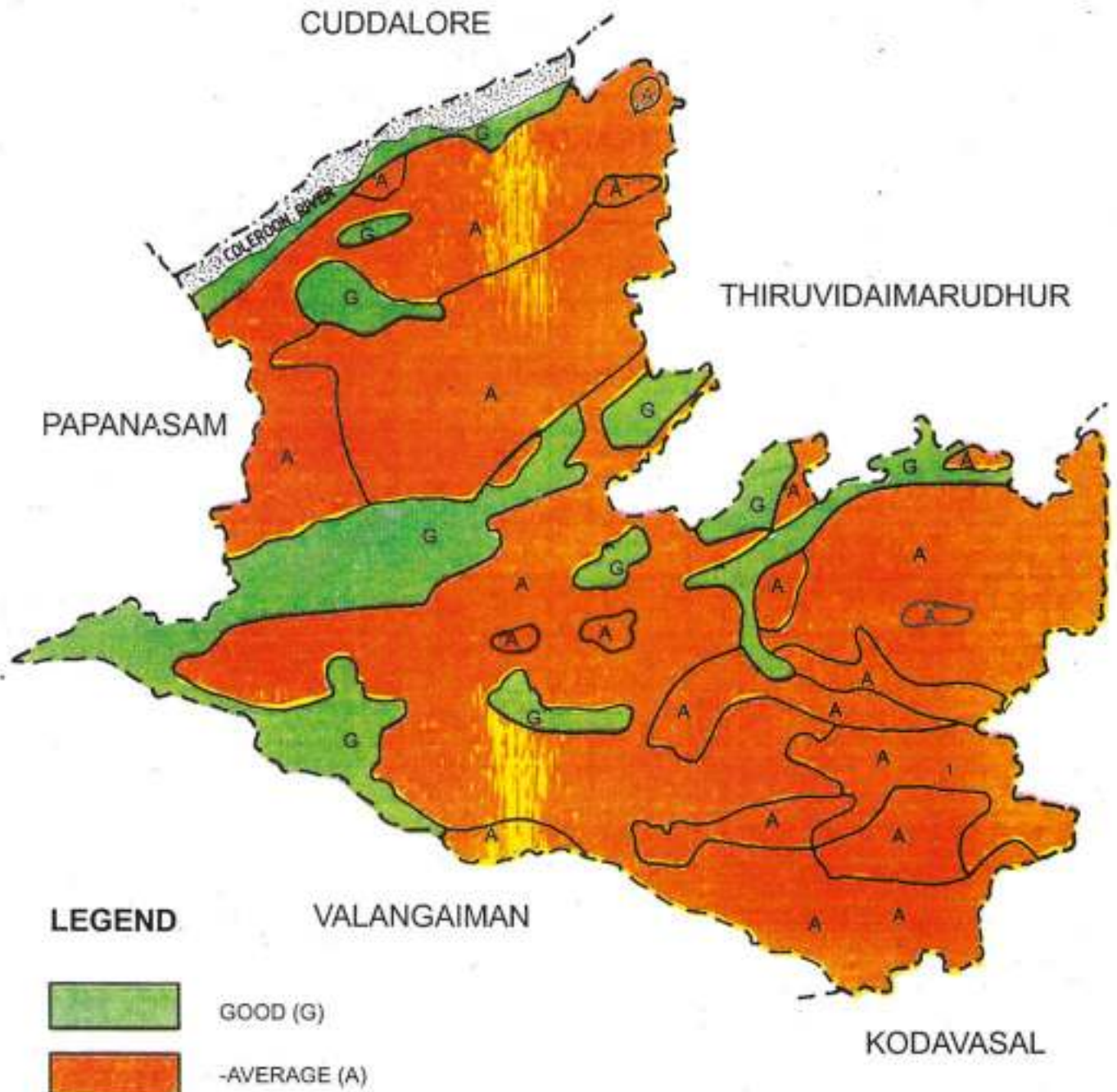
SOIL PRODUCTIVITY

KUMBAKONAM TALUK

Sl. No.	Rating	Productivity classes	Soil series	Extent (ha)	% to total
1.	20 - 34	Average (A)	Kalathur , Adhanur, Alangudi	18,755	67.81
2.	35 - 64	Good (G)	Padugai	8,903	32.10
			Total	27,658	100.00

SOIL PRODUCTIVITY

KUMBAKONAM TALUK



LEGEND

-  GOOD (G)
-  -AVERAGE (A)

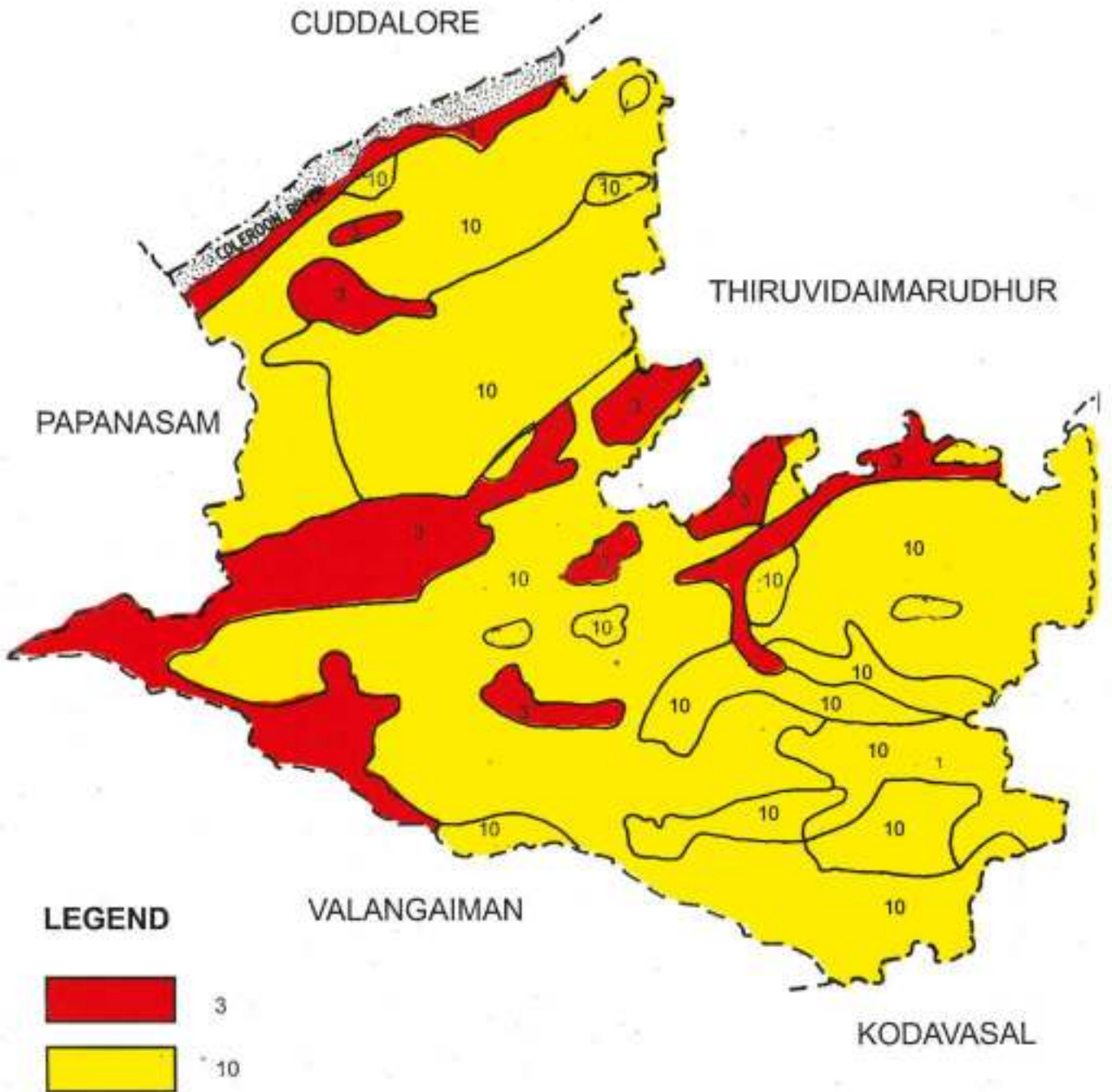
CROPS GROWN

KUMBAKONAM TALUK

Sl. No.	Crops grown		Map symho ^l	Soil series
	Irrigatea	Rainfed		
1.	Paddy & Sugarcane	Pulses	10	Kalathur, Alangudi and Adhanur
2.	Banana, Sugarcane, Vegetables, Flowers & Paddy	Groundnut, Gingelly, Eucalyptus	3	Padugai

CROPS GROWN

KUMBAKONAM TALUK



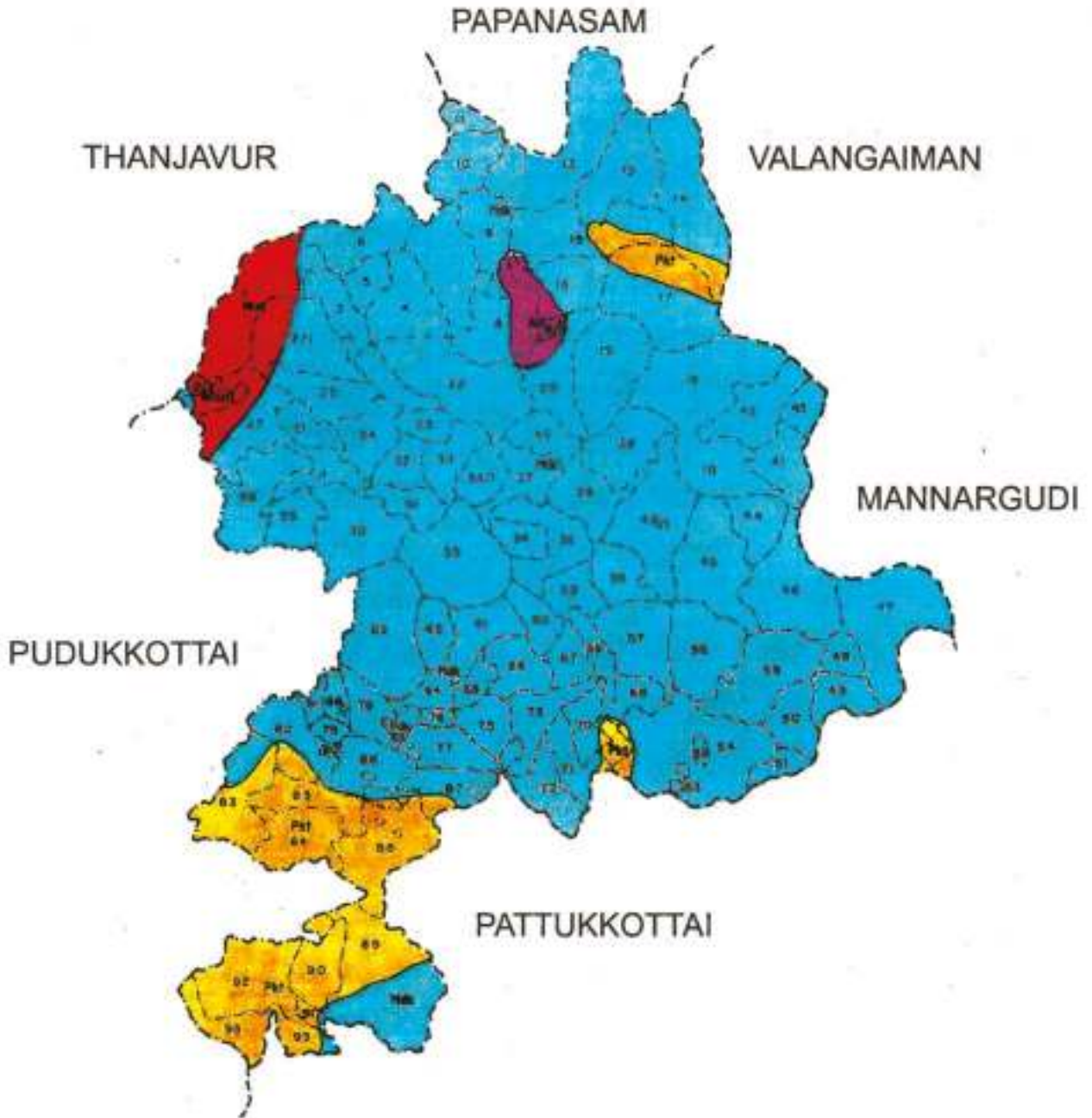
SOILS

ORATHANADU TALUK

Sl. No.	Soil series	Extent (ha)	% to total
1.	Madukkur (Mdk)	46,783	80.42
2.	Pattukkottai (Pkt)	6,799	11.69
3.	Mudukulam (Mud)	3,100	5.33
4.	Alathur (Alt)	1,494	2.56
	Total	58,176	100.00

SOILS

ORATHANADU TALUK



**REVENUE VILLAGEWISE SOIL DISTRIBUTION
ORATHANADU TALUK
THANJAVUR DISTRICT**

Sl. No.	Village No.	Village name	Soil distribution (%)
1.	88	Vettuvakkottai	Pkt 85, Mdk 15
2.	88 /1	Vettuvakkottai	Pkt 85, Mdk 15
3.	82	Thopuviduthi	Mdk 70, Pkt 30
4.	83	Kavalippatti	Pkt 70, Mdk 30
5.	85	Panikondanviduthi	Pkt 100
6.	84	Kaduvettivuduthi	Pkt 100
7.	92	Neiveli Vadapathi	Pkt 100
8.	93	Neiveli Thenpathi	Pkt 90, Mdk 10
9.	90	Sonniyaviduthi	Pkt 100
10.	91	Krishnapuram	Mdk 100
11.	89 - 1	Venkarai Part I	Mdk 50, Pkt 50
12.	89 - 2	Venkarai Part II	Mdk 50, Pkt 50
13.	89	Venkarai Part III	Mdk 50, Pkt 50
14.	67	Nemmelithippiyakudi	Mdk 100
15.	86	Unjivuduthi	Mdk 95, Pkt 5
16.	63	Sillathur Part	Mdk 100
17.	63	Sillathur	Mdk 100
18.	81	Iluppaividuthi	Mdk 70, Pkt 30
19.	62	Pugazhsillathur	Mdk 100
20.	64	Krishnapuram	Pkt 80, Mdk 20
21.	61	Thirunallur	Mdk 100
22.	66	Sankaranarkudikadu	Mdk 100
23.	78	Vadakkukottai	Mdk 100
24.		Chinna Ammangudi	Mdk 100
25.	79	Periya Ammankudi	Mdk 100

Sl. No.	Village No.	Village name	Soil distribution (%)
26.	80	Ammankudi	Mdk 100
27.	78 / 1	Pandipazhamanaikkadu	Pkt 100
28.	87	Tnaligaividuthi	Mdk 80, Pkt 20
29.		Vedanayakipuram	Mdk 85, Pkt 15
30.		Medakkollai	Mdk 80, Pkt 20
31.	77	Akkaraivattam	Mdk 100
32.	76	Dooriyamoorthipuram	Mdk 100
33.	75	Therkukkottai	Mdk 100
34.	74	Yoganayakipuram	Mdk 100
35.	73	Sholagamkudikadu	Mdk 100
36.	72	Kilamangalam	Mdk 100
37.	35	Pinnaiyur Part	Mdk 100
38.	35 - 1	Pinnaiyur Part	Mdk 100
39.	25	Vadakkur Vadakku Sethi	Mdk 85, Mud 15
40.	26	Vadakkur Therku Sethi	Mdk 100
41.	28	Pachur	Mdk 100
42.	29	Adanakottai	Mdk 100
43.	27	Poyyundarkottai	Mdk 70, Mud 30
44.	27 / 1	Poyyundarkottai	Mdk 70, Mud 30
45.	27	Scholapuram	Mdk 100
46.	31	Kattaraikottai	Mdk 100
47.	23	Aayankudi	Mdk 100
48.	32	Vadakkukkottai	Mdk 100
49.	33	Mandalakottai	Mdk 100
50.	30	Thekkur	Mdk 100

Sl. No.	Village No.	Village name	Soil distribution (%)
51.	30 - 1	Thekkur	Mdk 100
52.	44	Arumulai	Mdk 100
53.	45	Thirumangalakottai Melaiyur	Mdk 100
54.	45 - 1	- do -	Mdk 100
55.	46	Thirumangalakottai Keezhaiyur	Mdk 100
56.	46 / 1	- do -	Mdk 100
57.	47	Vadacheri	Mdk 100
58.	47 / 1	Vadacheri	Mdk 100
59.	42	Okkanadukeezhaiyur	Mdk 100
60.	43	- do -	Mdk 100
61.	43	Kavarapattu	Mdk 100
62.	40	Poovathur	Mdk 100
63.	40 / 1	Poovathur	Mdk 100
64.	41	Keezhavannippattu	Mdk 100
65.	60	Poyyundarkudikadu	Mdk 100
66.	56	Thondarampattu	Mdk 100
67.	56 / 1	- do -	Mdk 100
68.	55	Kannukudi Melpathi	Mdk 100
69.	55 - 1	- do -	Mdk 100
70.	50	- do - Keelpathi	Mdk 100
71.	69	Aavidanallavijayapuram	Mdk 100
72.	68	Vedavijayapuram	Mdk 100
73.	57	Vellore	Mdk 100
74.	54	Ambalapattu Vadakku	Mdk 80, Pkt 20
75.	54 / 1	Ambalapattu Therkku	Mdk 80, Pkt 20

Sl. No.	Village No.	Village name	Soil distribution (%)
76.	53	Ramanathapuram	Mdk 100
77.	52	Gopalapuram	Mdk 100
78.	54	Ambalapattu	Mdk 80, Pkt 20
79.	51	Mullupattikkadu	Mdk 100
80.	48	Kodiyalam	Mdk 100
81.	49	Paravathur	Mdk 100
82.	8	Paruthikottai	Mdk 60, Alt 40
83.	8/1	Paruthiapparkoil	Alt 100
84.	7	Ulur	Mdk 100
85.	9	Keelaulur	Mdk 90, Alt 10
86.	9/2	Paruthiyapparkoil	Al 60, Mdk 40
87.	10	Vandayar Iruppu	Mdk 100
88.	11	Karaimendarkottai	Mdk 100
89.	13	Moorthiyambalpuram	Mdk 100
90.	13/1	Moorthiyambalpuram	Mdk 100
91.	12	Ragavambalpuram	Mdk 100
92.	12 - 1	Ragavambalpuram	Mdk 100
93.	14	Neivasalthenpathi	Mdk 80, Pkt 20
94.	14 - 1	- do -	Mdk 80, Pkt 20
95.	15	Ponnappur Keelpathi	Mdk 70, Pkt 25 Alt 5
96.	15 / 1	- do -	Mdk 70, Pkt 25 Alt 5
97.	16	Ponnappur Melpathi	Mdk 70, Alt 30
98.	16 / 1	Paruthiyapparkoil	Mdk 85, Alt 15
99.	16	Kulamangalam	Mdk 60, Pkt 40
100.	17 / 1	Thalaiyamangalam	Mdk 60, Pkt 40

Sl. No.	Village No.	Village name	Soil distribution (%)
101.	34	Kovilur	Mdk 100
102.	36	Thelungalukdikadi	Mdk 100
103.	38	Palamputhur	Mdk 100
104.	39	kakkarai	Mdk 100
105.	19	Kannanthankudi Keezhaiyur	Mdk 100
106.	19 / 1	- do -	Mdk 100
107.	18	Okkanadu Melaiyur	Mdk 100
108.	18 / 1	- do -	Mdk 100
109.	58	Peikarambankottai	Mdk 100
110.	37	Pudur	Mdk 100
111.	21	Muthambalpuram	Mdk 100
112.	20	Kannanthangudi Melaiyur	Mdk 80, Alt 20
113.	20 / 1	- do -	Mdk 80, Alt 20
114.	2 / 1	Eachankottai	Mdk 70, Mud 30
115.	2 / 2	Samippatti	Mdk 70, Mud 30
116.	1	Naduvur	Mud 85, Mdk 15
117.	6	Kattukkuruei	Mdk 100
118.	5	Panchanathikottai	Mdk 100
119.	3	Karukkakottai	Mdk 100
120.	4	Azhivoikkal	Mdk 100
121.	4 / 1	- do -	Mdk 100
122.	22	Thennamanadu	Mdk 100
123.	22	- do -	Mdk 100
124.		Pulavankadu	Mdk 100
125.		Ulurpart	Mdk 100

FERTILITY INDICES FOR THE VILLAGES IN ORATHANADU TALUK

THANJAVUR DISTRICT

Sl. No.	Village No.	Village name	Fertility indices (Kg / ac)		
			N	P ₂ O ₅	K ₂ O
1.	88	Vettuvakkottai	53	7	68
2.	88/1	Vettuvakkottai	53	7	68
3.	83	Kavelippatti	53	5	42
4.	92	Neivelivadapathi	53	19	93
5.	89-1	Venkarai Part I	53	36	57
6.	89-2	Venkarai Part II	53	36	57
7.	89	Venkarai Part III	53	36	57
8.	63	Sillathur Part	57	25	69
9.	63	Sillathur	57	25	69
10.	61	Thirunallur	57	29	68
11.	79	Chinna Ammangudi	53	54	178
12.	79	Periya Ammangudi	53	54	178
13.	80	Ammankudi	53	68	163
14.	87	Thaligaividuthi	53	33	138
15.	73	Sholagamkudikadu	57	36	322
16.	72	Kilamangalam	53	316	92
17.	35	Pinnaiyur - Part	53	1	78
18.	35-1	Pinnaiyur - Part	53	1	78
19.	28	Pachur	57	62	106
20.	27	Poyyundarkottai	57	120	62
21.	27-1	Poyyundarkottai	57	120	62
22.	27	Scholapuram	53	39	14
23.	23	Aayankudi	57	66	52
24.	30	Thekkur	57	88	76
25.	30-1	Thekkur	57	88	76

Sl. No.	Village No.	Village name	Fertility indices (Kg / ac)		
			N	P ₂ O ₅	K ₂ O
26.	44	Arumulai	57	10	36
27.	46	Thirumangalakottai Keezhaiyur	53	1	36
28.	46-1	-do-	53	1	36
29.	47	Vadacheri	57	3	64
30.	47-1	Vadacheri	57	3	64
31.	40	Poovathur	57	93	222
32.	40-1	Poovathur	57	93	222
33.	56	Thondarampattu	53	38	85
34.	56-1	Thondarampattu	57	12	104
35.	55	Kannukudi Melpathi	57	72	86
36.	55-1	-do-	57	72	86
37.	50	-do- Keelpathi	57	72	86
38.	57	Vellore	57	219	443
39.	54	Ambalapattu	53	34	78
40.	7	Ulur	57	134	76
41.	13	Moorthiyambalpuram	57	113	158
42.	13-1	Moorthiyambalpuram	57	113	158
43.	14	Neivasalthenpathi	57	79	151
44.	14-1	Neivasalthenpathi	57	79	151
45.	15	Ponnappur keelpathi	57	39	78
46.	15-1	-do-	57	39	78
47.	16	Kulamangalam	57	152	132
48.	36	Thelugankudikadu	57	57	145
49.	38	Palamputhur	53	19	324
50.	19	Kannanthankudi - Keezhaiyur	53	26	64

Sl. No.	Village No.	Village name	Fertility indices (Kg / ac)		
			N	P ₂ O ₅	K ₂ O
51.	19-1	-do-	53	26	64
52.	18	Okkanadu Melaiyur	53	19	106
53.	18-1	-do-	53	19	106
54.	58	Peikarambankottai	57	7	64
55.	37	Pudur	53	90	43
56.	5	Panchanathikottai	53	46	82
57.	3	Karukkakottai	53	2	92
58.	4	Azhivoikkal	57	302	558
59.	4/1	Azhivoikkal	57	302	558
60.		Pulavankadu	53	120	283

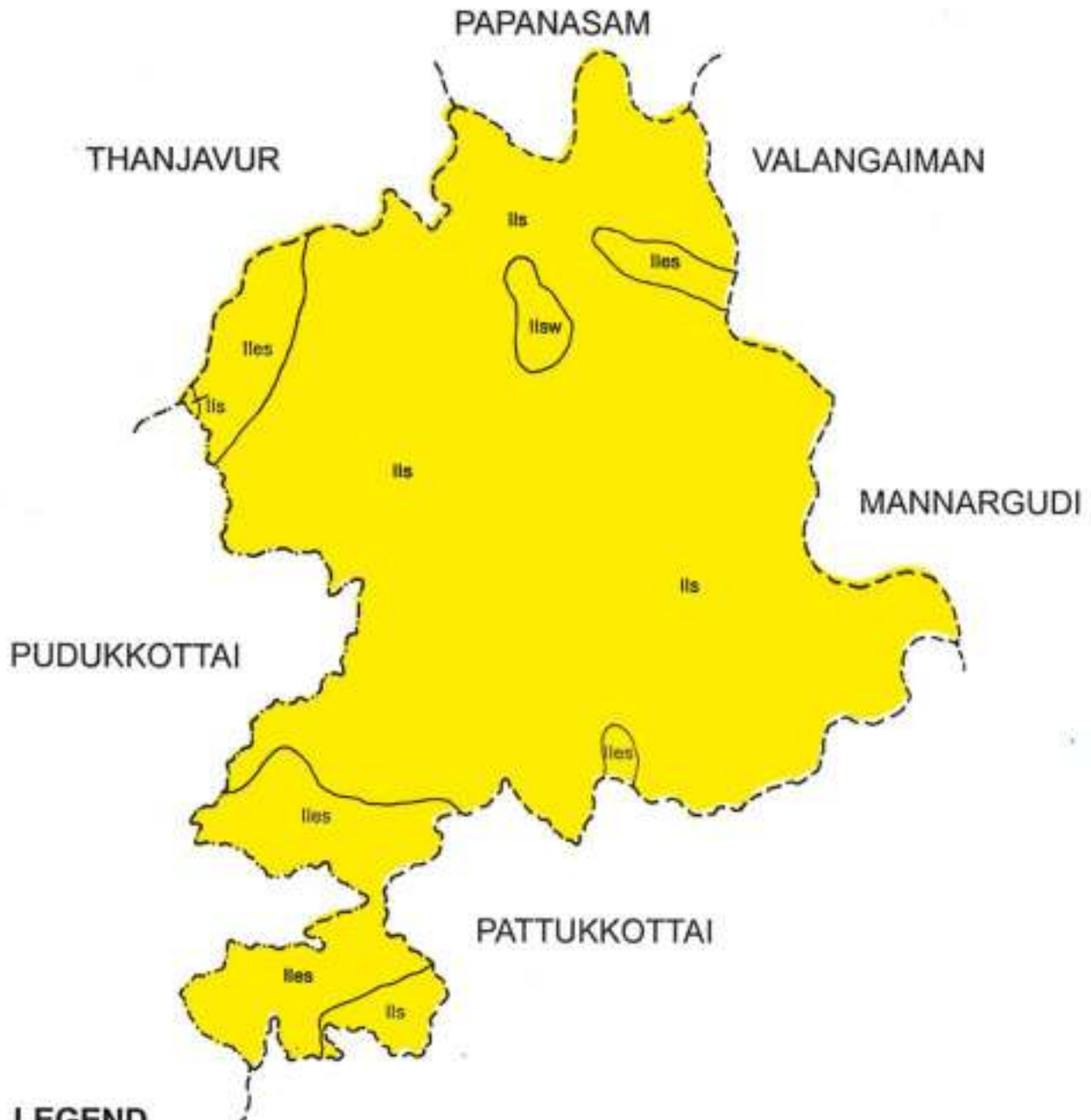
LAND CAPABILITY CLASSIFICATION

ORATHANADU TALUK

Sl. No.	Soil series.	Class, sub - class	Extent (ha)	% to total	Soil limitations	Special needs
1.	Madukkur	IIs- Lands that have moderate limitations for sustained use under cultivation.	46,783	80.42	Surface run off	Use of conservation irrigation methods.
2.	Pattukkottai & Mudukulam	IIs- Lands that have moderate limitations for sustained use under cultivation.	9,899	17.02	Surface run off & erosion	Use of conservation irrigation methods, liberal addition of organics, soil conservation measures.
3.	Alathur	IIsW- Lands that have moderate limitations for sustained use under cultivation.	1,494	2.56	Heavy texture, drainage, salinity or alkalinity.	Drainage improvement, cultivation of suitable crops.
		Total	58,176	100.00		

LAND CAPABILITY

ORATHANADU TALUK



LEGEND

CLASS

 II Moderate limitation

SUBCLASS

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

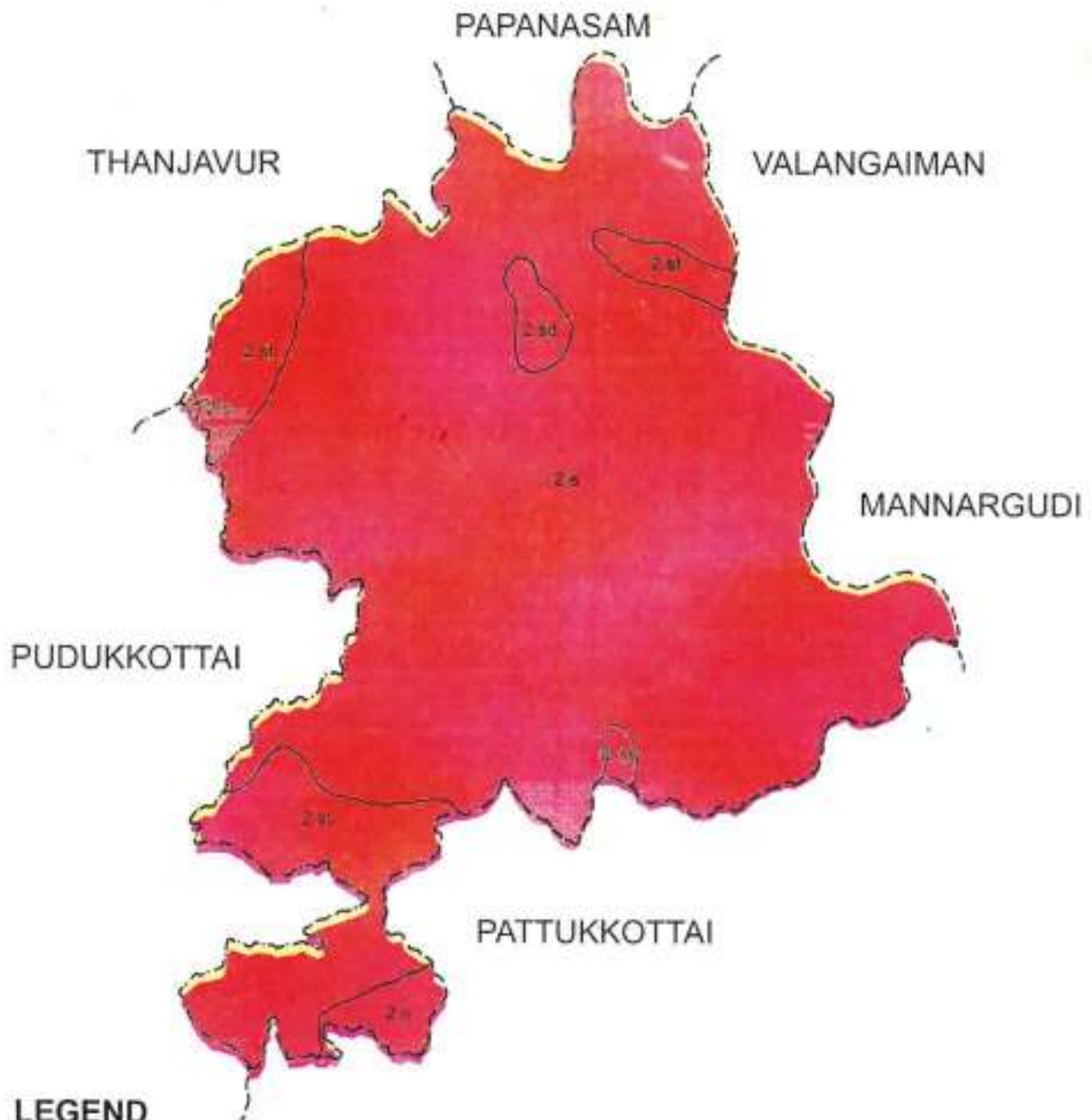
LAND IRRIGABILITY CLASSIFICATION

ORATHANADU 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	46,783	80.42	Permeability and texture
2.	Pattukkottai & Mudukulam	2st- Lands that have moderate limitations for sustained use under irrigation	9,899	17.02	Topography, erosion, low water holding capacity.
3.	Alathur	2sd- Lands that have moderate limitations for sustained use under irrigation	1,494	2.56	Drainage, permeability, salinity / alkalinity.
Total			58,176	100.00	

LAND IRRIGABILITY

ORATHANADU TALUK



LEGEND

CLASS

 2 - Moderate limitation

SUBCLASS

- s - soil limitation
- t - topography limitation
- d - drainage limitation

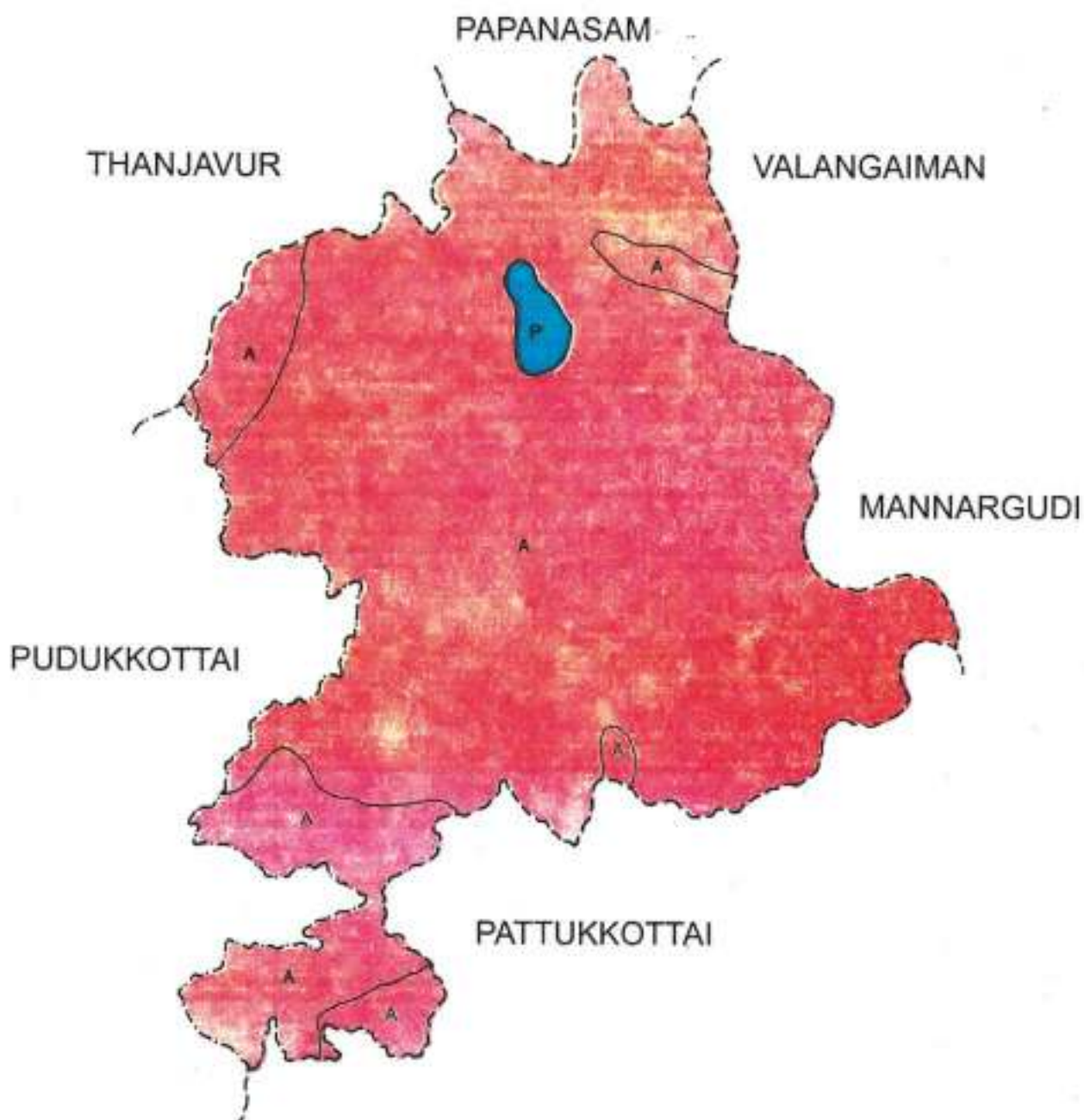
SOIL PRODUCTIVITY

ORATHANADU TALUK

Sl. No.	Rating	Productivity classes	Soil series	Extent (ha)	% to total
1.	20-34	Average (A)	Madukkur, Pattukkottai and Mudukulam	56,682	97.44
2.	8-19	Poor (P)	Alathur	1,494	2.56
			Total	58,176	100.00

SOIL PRODUCTIVITY

ORATHANADU TALUK



LEGEND

-  AVERAGE (A)
-  POOR (P)

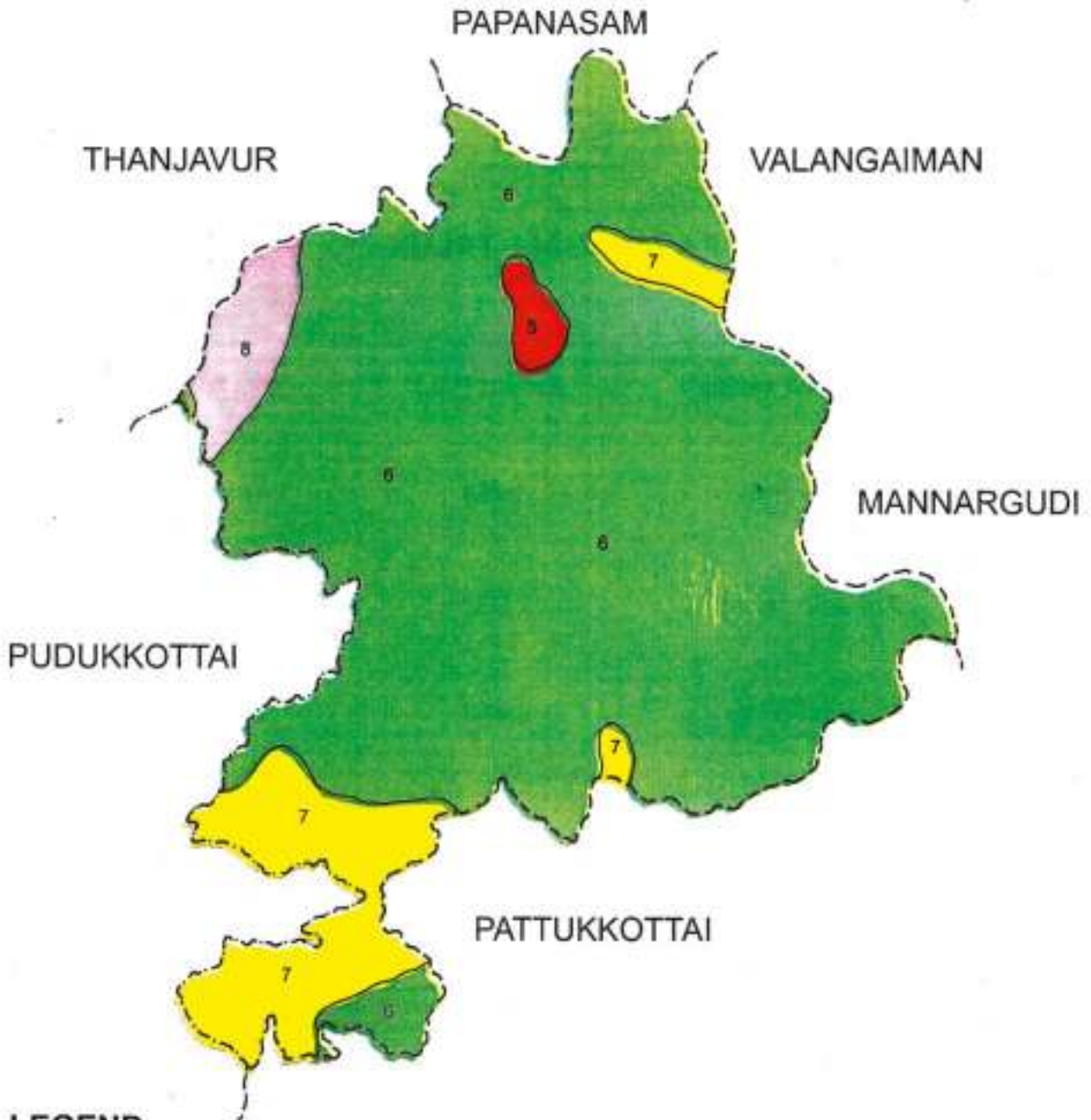
CROPS GROWN

ORTHANADU TALUK

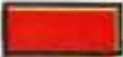


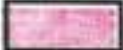
Sl. No.	Crops grown		Map symbol	Soil series
	Irrigated	Rainfed		
1.	Paddy, Sugarcane & Millets	—	5	Alathur
2.	Groundnut, Gingelly, Paddy, Millets & Chillies.	Groundnut & Millets	6	Madukkur
3.	Groundnut, Gingelly, Vegetables & Chillies.	Groundnut, Coconut, Fruit trees, Eucalyptus & Casuarina.	7	Pattukkottai
4.	Groundnut, Millets & Fruit trees.	Groundnut, Millets & Fruit trees.	8	Mudukulam

CROPS GROWN

ORATHANADU TALUK



LEGEND

	5
	6
	7
	8

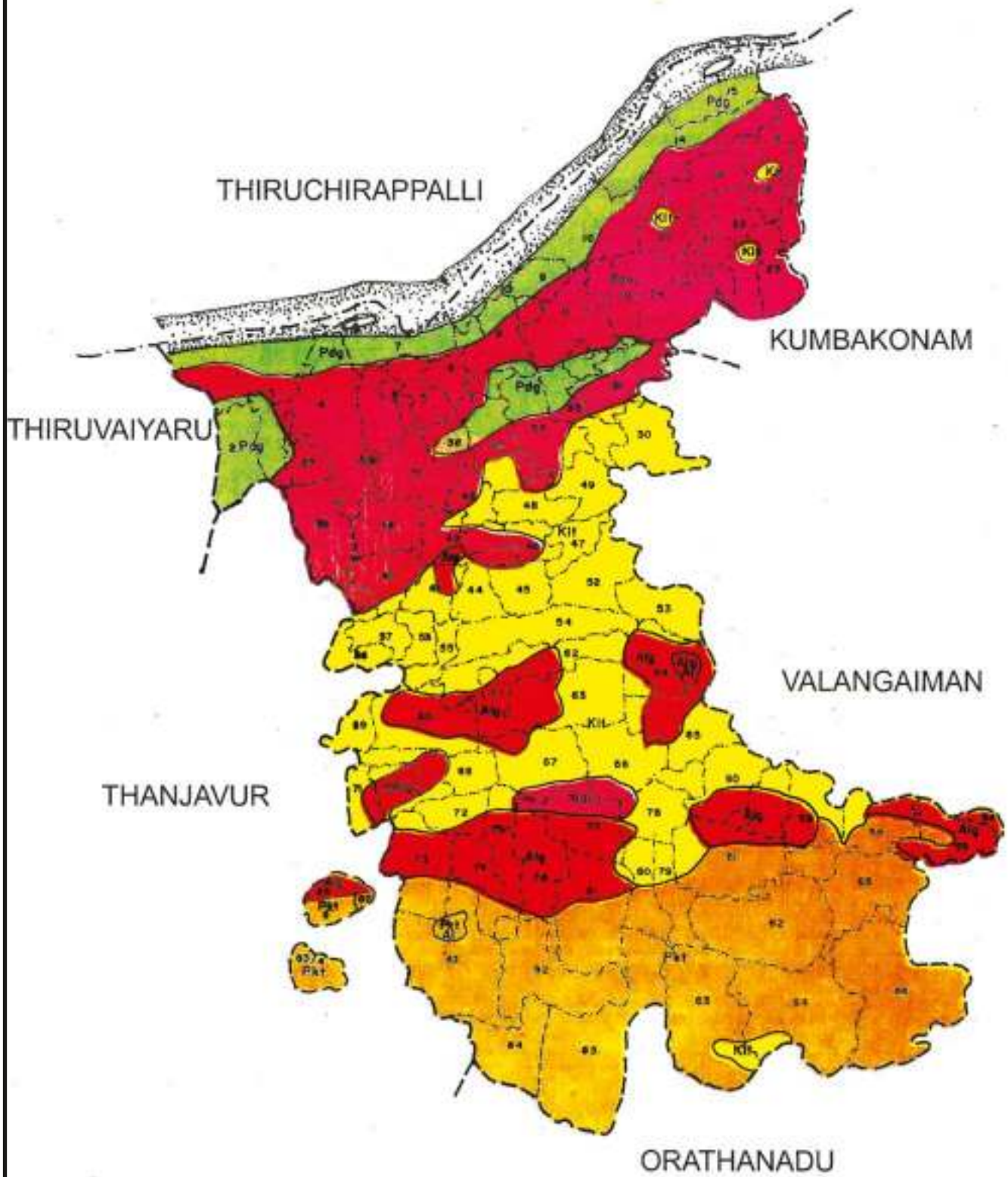
SOILS

PAPANASAM TALUK

S. No.	Soil series	Extent (ha.)	% to total
1.	Kalathur (Kit)	4,955	18.44
2.	Adhanur (Adn)	7,082	26.36
3.	Padugai (Pdg)	6,475	24.10
4.	Alangudi (Alg)	4,706	17.51
5.	Pattukkottai (Pkt)	3,651	13.59
	Total	26,869	100.0

SOILS

PAPANASAM TALUK



REVENUE VILLAGEWISE SOIL DISTRIBUTION PAPANASAM TALUK

THANJAVUR DISTRICT

Sl. No.	Village No.	Village name	Soil distribution (%)
1.	1	Veeramangudi	Pdg 55, Adn 45
2.	2	Eachangudi	Pdg 100
3.	3	Iluppaikorai	Adn 75, Pdg 25
4.	3 - 1	Iluppaikorai bit	Adn 75, Pdg 25
5.	4	Ganapathi Agraharam	Adn 75, Pdg 25
6.	4	Ganapathi Agraharam	Adn 75, Pdg 25
7.	5	Ullikkadai	Adn 100
8.	6	Perumalkoil	Adn 100
9.	37 - 1	Vazhuthur	Adn 80, Klt 15, Pdg 5
10.	37 - 2	Chakkarappalli	Adn 85, Pdg 15
11.	38	Soolamangalam 2nd Sethiyyampettai	Adn 70, Klt 30
12.	38 - 1	Ayyampettai	Adn 100
13.	39	Pasupathikoil	Adn 100
14.	39 - 1	Manojyappachavadi - 2	Adn 100
15.	39	Pasupathikoil - 2	Adn 100
16.	40	Soolamangalam 1st Sethi Ammapettai	Adn 100
17.	41	Veppukkudi	Klt 80, Alg 20
18.	42	Serumakkanallur	Klt 100
19.	43	Vadakkumangudi	Klt 75, Adn 25
20.	44	Suraikkayur	Klt 85, Adn 15
21.	45	Perumakkanallur	Klt 100
22.	53	Perumakkanallur	Klt 100
23.	57	Porakkudi	Klt 100
24.	58	Vaiyacheri	Klt 100
25.	7	Govindanattucheri	Pdg 60, Adn 40

Sl. No.	Village No.	Village name	Soil distribution (%)
26.	8	Umbalapadi	Adn 55, Pdg 45
27.	9	Sarukkai	Adn 85, Pdg 15
28.	10	Karuppur Padugai	Pdg 95, Adn 5
29.	11	Kapisthalam	Adn 95, Adn 5
30.	11 - 1	Mela Kapisthalam	Adn 90, Pdg 10
31.	12	Ramanujapuram	Adn 100
32.	13	Sathiyamangalam	Klt 55, Pdg 45
33.	14	Thiruvaikavur	Adn 60, Pdg 40
34.	14 - 1	Kondagai	Adn 60, Pdg 40
35.	15	Naduppadugai	Pdg 100
36.	16	Olaippadi	Adn 90, Klt 10
37.	17	Maruthuvakkudi	Adn 100
38.	18	Adanur	Adn 90, Klt 10
39.	19	Thurumbur	Adn 100
40.	19 - 1	Anumanallur	Adn 100
41.	20	Thirumandangudi	Adn 90, Klt 10
42.	21	Koonancheri	Adn 100
43.	22	Thiyagasamudhram	Adn 85, Klt 15
44.	22 - 1	Narasingapuram	Adn 85, Klt 15
45.	23	Alavanthipuram	Adn 95, Klt 5
46.	24	Umayalpuram - 1	Adn 95, Pdg 5
47.	24	Umayalpuram - 2	Adn 95, Pdg 5
48.	30	Gopurajapuram	Klt 100
49.	31	Papanasam	Klt 60, Adn 40
50.	32	Arayapuram Thattimalpadugai	Klt 60, Adn 40

Sl. No.	Village No.	Village name	Soil distribution (%)
51.	31 - 1	Thiruppalathurai	Klt 60, Adn 40
52.	33	Arayapuram	Klt 80, Adn 20
53.	34	Rajagiri	Klt 45, Adn 30, Pdg 25
54.	35	Pandaravadai	Adn 70, Pdg 20, Klt 10
55.	36	Reghunathapuram	Klt 40, Pdg 30, Adn 30
56.	37	Sarabojirapuram	Adn 80, Klt 15, Pdg 5
57.	46	Ponmeinthanallur	Klt 55, Adn 45
58.	47	Melachemmanguđi	Klt 100
59.	48	Deverayanpettai	Klt 90, Adn 10
60.	48 - 1	Pulimangalam	Klt 90, Adn 10
61.	49	Thiruvaiyathukudi	Klt 100
62.	52	Onpathuveli	Adn 100
63.	53	Thirukkarukavoor	Klt 100
64.	54	Milattur 1st Sethi	Klt 100
65.	55	Kavalur	Klt 100
66.	59	Neithalur	Klt 100
67.	60	Annappanpettai	Alg 55, Klt 45
68.	61	Kattukkurichi	Alg 85, Klt 15
69.	62	Milattur 2nd Sethi	Klt 60, Alg 40
70.	63	Milattur 3rd Sethi	Klt 70, Alg 30
71.	64	Idiyiruppu	Alg 90, Klt 10
72.	65	Vizhuthiyur	Klt 60, Alg 40
73.	66	Millattur 5th Sethi	Klt 75, Alg 15, Adn 10
74.	67	Milattur 4th Sethi	Klt 70, Alg 25, Adn 5
75.	68	Kothangudi	Klt 60, Alg 40

Sl. No.	Village No.	Village name	Soil distribution (%)
76.	69	Vennukkudi thottam	Klt 85, Alg 15
77.	70	Edakkudi	Alg 90, Klt 10
78.	71	Utharamangalam	Klt 80, Alg 20
79.	71 - 1	Utharamangalam thottam	Klt 80, Alg 20
80.	72	Melakalakkudi	Klt 90, Alg 10
81.	72 - 1	Athur thottam	Klt 90, Alg 10
82.	73	Alangudi	Alg 60, Pkt 40
83.	73 - 1	Alangudi natham	Alg 60, Pkt 40
84.	74	Pulavar natham	Alg 100
85.	86	Arulmozhipettai	Alg 60, Pkt 40
86.	87	Bavaniyambalpuram	Pkt 60, Alg 40
87.	75	Nellithoppu	Alg 70, Klt 30
88.	76	Kumizhakkudi	Alg 80, Pkt 10, Klt 10
89.	77	Edavakkudi	Alg 55, Adn 45
90.	77 - 1	Kandhavanam	Adn 95, Klt 5
91.	78	Kalanceri	Klt 40, Adn 35, Alg 25
92.	79	Palliyur	Klt 65, Pkt 35
93.	80	Saliyamangalam	Adn 100
94.	81	Poondi - 1	Alg 55, Pkt 35, Klt 10
95.	81	Poondi - 2	Alg 55, Pkt 35, Klt 10
96.	82	Nallavanniyankudikadu	Pkt 100
97.	83	Raramuthirakottai	Pkt 100
98.	83 - 1	Kathirinatham	Pkt 100
99.	83 - 3	Pugazhkulichapattu	Pkt 100
100.	83 - 4	Thalavaipalayam	Pkt 100

Sl. No.	Village No.	Village name	Soil distribution (%)
101.	84	Jambugapuram	Pkt 100
102.	85	Thirupuvanam	Pkt 100
103.	85 - 1	Jambugambalpuram - 1	Pkt 100
104.	85 - 1	Jambugambalpuram - 2	Pkt 100
105.	55	Ukkadai	Adn 100
106.	54	Kathamudukku Tattimalpadugai	Alg 100
107.	56	Neduvasal	Pkt 65, Klt 20, Alg 15
108.	58	Mahimalai	Klt 40, Alg 40, Pkt 20
109.	58 - 1	Mahimali - bit	Klt 20, Alt 40, Pkt 20
110.	59	Deebambalpuram	Alg 80, Klt 20
111.	60	Neikkunnam	Klt 55, Alg 45
112.	61	Keezhakoilpathu	Pkt 50, Alg 30, Klt 20
113.	62	Vadapathi	Pkt 100
114.	63	Kambarnatham	Klt 20, Pkt 80
115.	63 - 1	Soozhiyakottai	Klt 100
116.	64	Arunthavapuram - 1	Pkt 80, Klt 20
117.	64 - 1	Arunthavapuram - 2	Pkt 80, Klt 20
118.	65	Puthur	Pkt 100
119.	66	Puliyakkudi - 1	Pkt 100
120.	66 - 1	Puliyakkudi - 2	Klt 70, Alg 30

FERTILITY INDICES FOR THE VILLAGES IN PAPANASAM TALUK

THANJAVUR DISTRICT

Sl. No.	Village No.	Village name	Fertility indices (Kg / ac)		
			N	P ₂ O ₅	K ₂ O
1.	2	Eachangudi	65	72	458
2.	4	Ganapati Agraharam	57	59	271
3.	6	Perumalkoil	57	228	571
4.	38	Soolamangalm II Sethyampettai	80	2	133
5.	38-1	Ayyampettai	57	134	88
6.	39	Pasupathi koil	57	97	370
7.	43	Vadakkumangudi	49	209	197
8.	58	Vaiyacheri	47	88	140
9.	8	Umbalapadi	53	56	152
10.	9	Sarukkai	57	39	132
11.	11	Kapisthalam	57	109	145
12.	14-1	Kondagai	60	78	101
13.	19	Thurumbur	57	54	209
14.	19-1	Anumanallur	57	227	99
15.	20	Thirumandangudi	53	89	363

Sl. No.	Village No.	Village name	Fertility Indices (Kg / ac)		
			N	P ₂ O ₅	K ₂ O
16.	22-1	Narasingapuram	80	170	85
17.	23	Alavanthipuram	57	139	153
18.	24	Umayalpuram I	57	150	125
19.	34	Rajagiri	49	63	301
20.	35	Pandaravadai	57	41	237
21.	49	Thiruvaiyathukudi	49	151	96
22.	53	Thirukkarukavoor	49	45	338
23.	60	Annappanpettai	53	56	232
24.	64	Idaiyiruppu	64	30	86
25.	74	Pulavur nathum	53	219	488

Sl. No.	Village No.	Village name	Fertility Indices (Kg / ac)		
			N	P ₂ O ₅	K ₂ O
26.	86	Arulmozhipettai	57	30	251
27.	78	Kalancheri	49	219	600
28.	80	Saliyamangalam	49	71	164
29.	81	Poondi - 1.	53	33	98
30.	83	Raramuthirakottai	57	15	164
31.	83-1	Kathirinatham	32	13	204
32.	85-1	Jambugambalpuram - 1.	57	22	242
33.	59	Deebambalpuram	49	55	111
34.	60	Neikkunnam	49	75	112
35.	62	Vadapathi	57	177	161
36.	64	Arunthavapuram - 1.	53	22	429
37.	65	Puthur	53	69	106

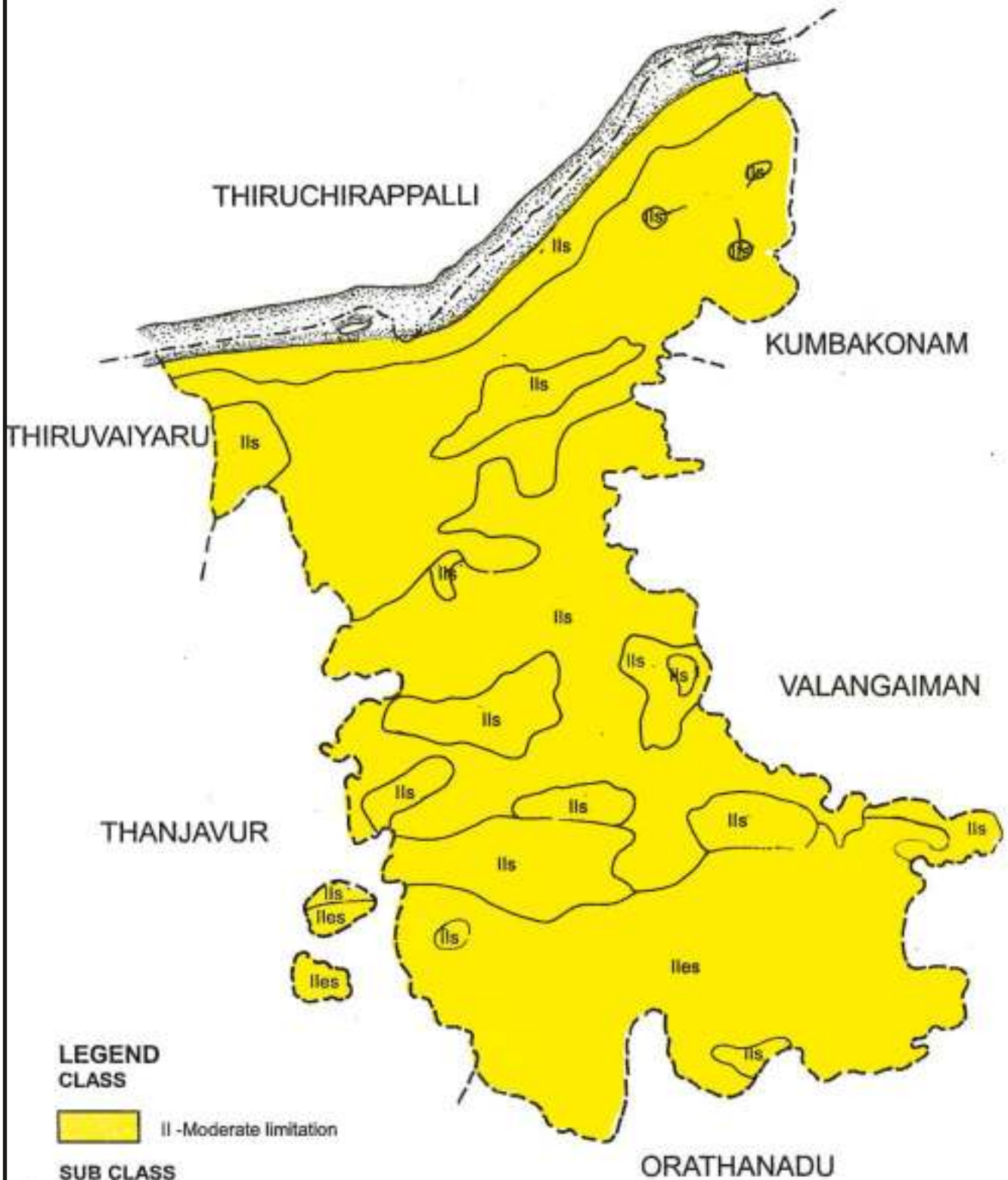
LAND CAPABILITY CLASSIFICATION

PAPANASAM TALUK


Sl. No.	Soil series	Class, sub - class	Extent (ha)	% to total	Soil limitations	Special needs
1.	Kalathur & Alangudi	II s - Lands that have moderate limitations for sustained use under cultivation	9,661	35.95	Heavy texture, drainage, salinity or alkalinity	Drainage improvement, soil breeding
2.	Adhanur	II s - do -	7,082	26.36	Heavy texture	Drainage improvement
3.	Padugai	II s - do -	6,475	24.10	Surface run off	Conservation irrigation methods
4.	Pattukkottai	II es - do -	3,651	13.59	Surface run off & erosion	Conservation irrigation methods, soil ameliorative methods, liberal addition of organics
Total			26,869	100.00		

LAND CAPABILITY

PAPANASAM TALUK



LEGEND

 IIs - Moderate limitation

SUB CLASS

s - soil limitation
e - erosion limitation

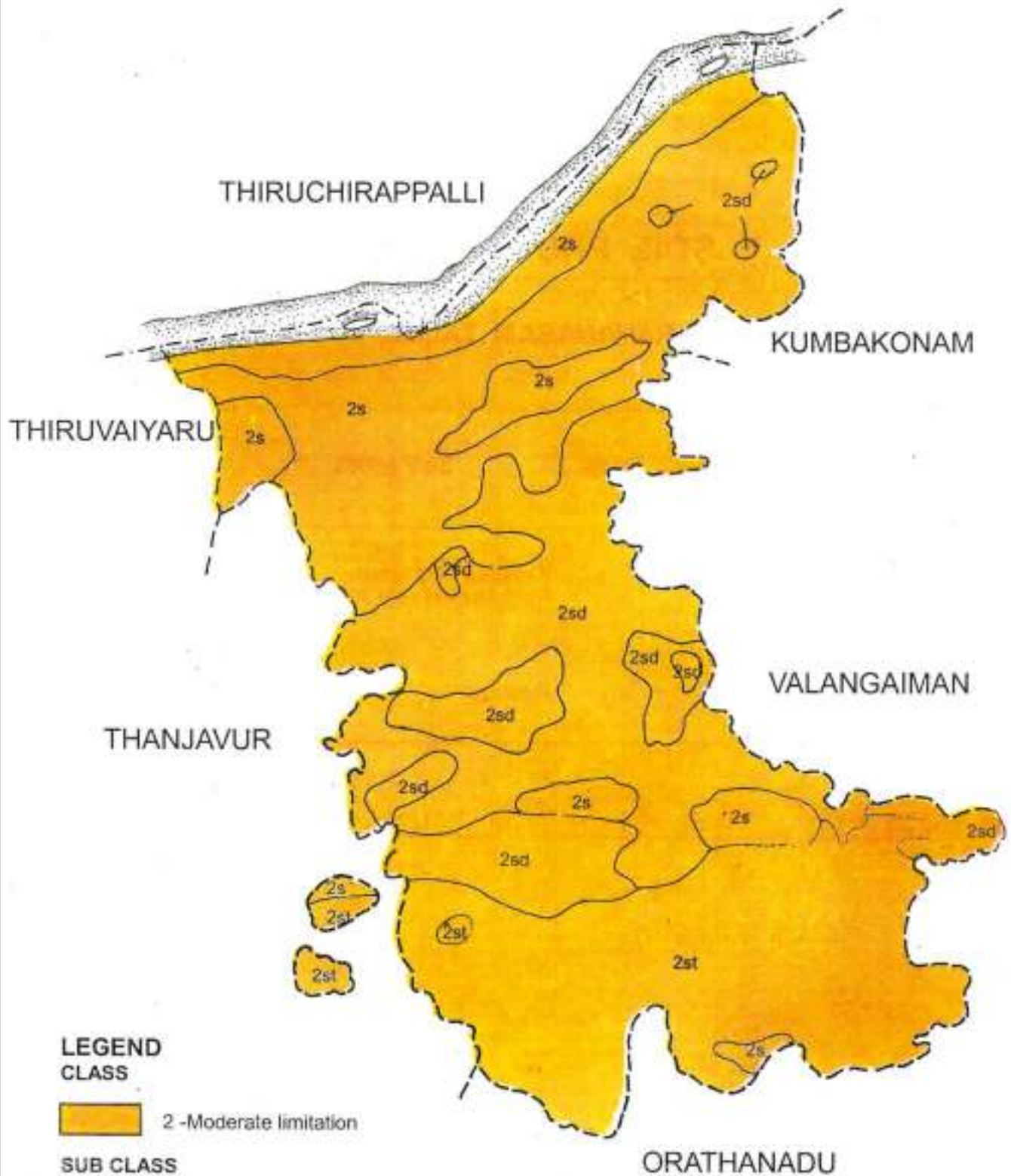
LAND IRRIGABILITY CLASSIFICATION

PAPANASAM TALUK

Sl. No.	Soil series	Class, sub - class	Extent (ha)	% to total	Soil limitations
1.	Kalathur & Alangudi	2 sd - Lands that have moderate limitations for sustained use under irrigation.	9,661	35.95	Drainage & permeability
2.	Adhanur	2 s - -do-	7,082	26.36	-do-
3.	Padugai	2 s - -do-	6,475	24.10	Topography, erosion, surface texture and low water holding capacity.
4.	Pattukkottai	2 st - -do-	3,651	13.59	-do-
Total			26,869	100.00	

LAND IRRIGABILITY

PAPANASAM TALUK



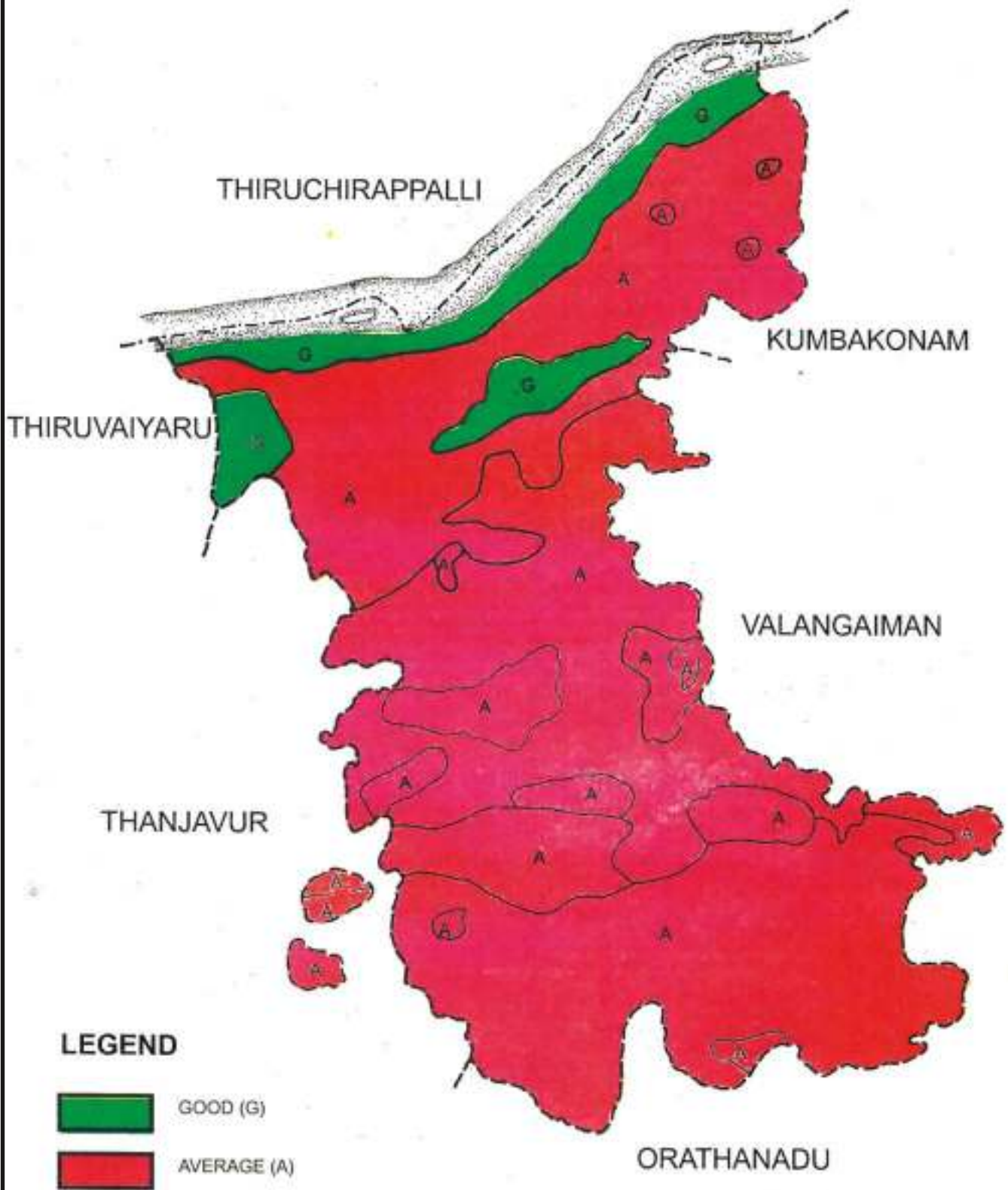
SOIL PRODUCTIVITY

PAPANASAM TALUK

Sl. No.	Rating	Productivity classes	Soil series	Extent (ha)	% to total
1.	20 - 34	Average (A)	Kalathur, Adhanur , Pattukkottai and Alangudi	20,394	75.90
2.	35 - 64	Good (G)	Padugai	6,475	24.10
Total				26,869	100.00

SOIL PRODUCTIVITY

PAPANASAM TALUK



CROPS GROWN

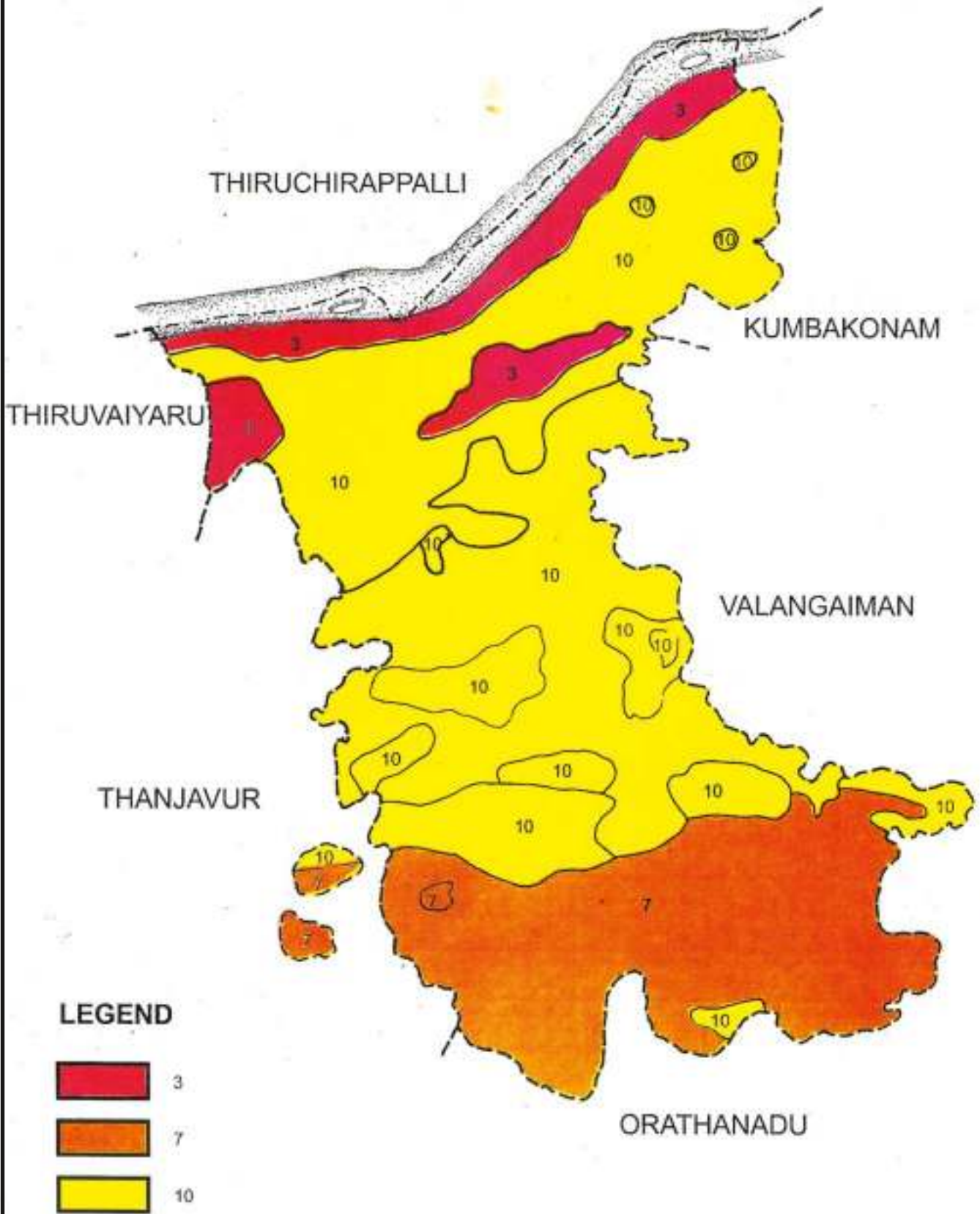
PAPANASAM TALUK

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



CROPS GROWN

PAPANASAM TALUK



SOILS

PATTUKKOTTAI TALUK

Sl. No.	Soil series	Extent (ha)	% to total
1.	Madukkur (Mdk)	40,469	59.77
2.	Pattukkottai (Pkt)	12,687	18.74
3.	Alathur (Alt)	8,094	11.95
4.	Melkadu (Mlk)	4,397	6.49
5.	Peravurani (Pvr)	647	0.96
6.	Kallivayal (Klv)	158	0.24
7.	Reserved forest	1,255	1.85
	Total	67,707	100.00

**REVENUE VILLAGEWISE SOIL DISTRIBUTION
PATTUKKOTTAI TALUK
THANJAVUR DISTRICT**

Sl. No.	Village No.	Village name	Soil distribution (%)
1. Kurichi firka.			
1.	101	Kurichi	Mdk 70, Alt 20 Pvr 10
2.	87	Poovaloor	Mdk 70, Pvr 30
3.	91	Idaiyathi South	Mdk 65, Pkt 35
4.	84	Kayavoor	Mdk 100
5.	108	Palathali	Mdk 100
6.	82	Alivalam	Mdk 65, Pvr 20 Pkt 15
7.	90	Vattathikkottai Ukkadai Beemapuram	Pvr 40, Mdk 50 Pkt 10
8.	85	Sevanthiranayakipuram	Mdk 100
9.	102	Manavayal	Mdk 100
10.	110	Ezhuthanivayal	Mdk 100
11.	109	Ennavayal	Mdk 100
12.	86	Neivaviduthi	Mdk 60, Pkt 40
13.	93	Anantheeswarapuram	Pkt 100
14.	81	Kondikkulam	Pkt 90, Mdk 10
15.	89	Vattathikkottai Kollukkadu	Pvr 40, Mdk 50 Pkt 10
16.	91	Idayathi North	Mdk 65, Pkt 35
17.	103	Pillankuzhi	Mdk 100
18.	104	Thuvaramadai	Mdk 75, Pkt 20, Pvr 5
19.	105	Kazhugapulikkadu	Pkt 55, Mdk 45
2. Thiruchittrambalam firka			
20.	96	Kalathur West	Mdk 60, Pkt 40
21.	96	Kalathur east	Mdk 60, Pkt 40
22.	100	Punavasal West	Mdk 75, Pkt 25
23.	100	Punavasal east	Mdk 75, Pkt 25
24.	99	Thuravikkadu	Pkt 55, Mdk 45
25.	93	Seruvaviduthi North	Mdk 35, Pkt 65

Sl. No.	Village No.	Village name	Soil distribution (%)
26.	95	Seruvaiduthi South	Mdk 20, Pkt 80
27.	97	Thiruchittrambalam West	Mdk 60, Pkt 40
28.	97	Thiruchittrambalam east	Mdk 60, Pkt 40
29.	112	Ottankadu	Mdk 70, Pkt 30
30.	113	Ottankadu Ukkadai	Mdk 60, Pkt 40
31.	68	Vazhuthalai Vattam	Pvr 70, Mdk 30
32.	98	Madathikkadu	
33.	92	Soorayanarayanapuram	Mdk 100
34.	94	Krishnapuram	Alt 80, Mlk 20
35.	111	Madhanpattavoor	Mdk 100
3. Adhirampattinam firka.			
36.	152	Pudhukkottai Ullur	Mdk 100
37.	123	Sendakkottai	Mdk 55, Alt 45
38.	148	Makhizhankottai	Mdk 85, Alt 15
39.	147	Rasamadam	Alt 80, Pkt 15, Mlk 5
40.	149	Erippurakkarai	Alt 50, Mdk 30, Mlk 5, Forest 15
41.	146	Chinna Aavudaiyarkoil	Alt 100
42.	150	Chathitam Thokkalikadu	Mdk 95, Alt 5
43.	151	Thokkalikadu	Mdk 90, Alt 10
44.	122	Pallikondan	Mdk 80, Pkt 20
45.	153	Adhirampattinam	Mdk 65, Mlk 15, Forest 20
4. Thambikkottai firka.			
46.	160	Thambikkottai - Melakkadu	Alt 55, Mlk 45
47.	164	Pudukkottagam	RF 100
48.	155	Pazhanchur	Mdk 60, Mlk 10, RF 25, Pkt 5
49.	163	Tambikkottai - Vadakadu	RF 70, Mlk 20, Alt 10
50.	161	Thambikkottai - Maravakkadu	RF 70, Mlk 20, Alt 10

Sl. No.	Village No.	Village name	Soil distribution (%)
51.	158	Parakkalakottai	Mlk 80, Alt 20
52.	157	Thamarankottai North	Mdk 40, Mlk 25, RF 30, Alt 5
63.	157	Thamarankottai South	Mdk 40, Mlk 25, RF 30, Alt 5
54.	154	Narasingapuram	Mlk 55, Mdk 45
55.	162	Sundaram	Alt 100
56.	159	Krishnapuram	Alt 80, Mlk 20
57.	158	Soundhiranayakipuram	Mdk 100
5. Nambivayal firka.			
58.	7	Nambivayal	Mdk 100
59.	15	Kambalam	Mdk 100
60.	11	Palamuthi	Pkt 80, Mdk 20
61.	80	Naduvikottai	Mdk 75, Pkt 25
62.	10	Enathi	Mdk 55, Pkt 45
63.	6	Adhambai North	Mdk 80, Alt 20
64.	6	Adhambai South	Mdk 80, Alt 20
65.	4	Pathirankottai South	Mdk 75, Pkt 25
66.	5	Pathirankottai North	Mdk 85, Pkt 15
67.	3	Ananthagopalapuram South	Pkt 100
68.	2	Kollukkadu	Alt 60, Mlk 40
69.	8	Veppankadu	Mdk 100
70.	9	Veppankadu Ukkadai	Mdk 100
71.	19	Santhankadu	Mdk 100
72.	1	Ananthagopalapuram North	Pkt 100
6. Periyakkottai firka.			
73.	39	Periyakottai	Alt 45, Mdk 40, Pkt 15
74.	60	Karappankadu	Mdk 55, Alt 45
75.	58	Ilankadu	Mdk 70, Pkt 30

Sl. No.	Village No.	Village name	Soil distribution (%)
76.	43	Kadanthankudi	Mdk 55, Pkt 45
77.	41	Chokkanavoor	Alt 100
78.	40	Kanniyakurichi	Alt 65, Mdk 35
79.		Gopalamudram	Mdk 100
80.		Parasuraman Eanthai	Mdk 100
81.		Madhurabashanipuram	Alt 60, Pkt 25, Mdk 15
82.		Ponnangundu	Mdk 100
83.		Puliyakudi	Alt 100
84.		Balajikottai	Mdk 100
85.		Balaji Reghurama-samuthram	Mdk 80, Alt 20
86.		Kazhichankottai	Alt 100
87.	34	Valaiyakkunnam	Alt 100
88.	45	Vikkiramam	Mdk 85, Pkt 10, Alt 5
89.	61	Siramelukdi	Alt 60, Mdk 40
90.	56	Vadiyakadu	Mdk 100
91.	62	Reghurama samuthram	Alt 60, Mdk 40
92.	63	Palayi Agraharam	Mdk 100
7. Thubarankurichi firka			
93.	51	Nattuchalai	Mdk 100
94.	66	Vattakudi	Mdk 100
95.	54	Vakkakkudi Ukkadai	Mdk 100
96.	70	Ponnavarayankottai	Mdk 85, Pkt 15
97.	67	Mannankadu	Mdk 55, Pkt 45
98.	52	Kasankadu	Mdk 55, Pkt 45
99.	68	Thubarankurichi North	Mdk 90, Pvr 10
100.	68	Thubarankurichi South	Mdk 90, Pvr 10

Sl. No.	Village No.	Village name	Soil distribution (%)
101.	55	Athivetti west	Mdk 100
102.	55	Athivetti east	Mdk 100
103.	69	Anaikkadu	Mdk 90, Pkt 10
104.	64	Kalyana Odai	Alt 85, Mdk 15
105.	53	Reghunathapuram	Alt 60, Mdk 40
106.	71	Ponnavarayam	Mdk 65, Pkt 35
107.	72	Vendakkottai	Mdk 100
108.	65	Pazhaverikkadu	Mdk 55, Mlk 45
8. Madukkur firka.			
109.	36	Madhukkur North	Mdk 100
110.	36	Madhukkur South	Mdk 100
111.	27	Andami	Mdk 100
112.	25	Pulavachi	Mdk 100
113.	26	Karuppur	Mdk 100
114.	29	Keelakurichi west	Mdk 100
115.	37	Ramambalpuram	Mdk 100
116.	35	Mohoor	Mdk 100
117.	28	Nemmeli	Mdk 100
118.	29	Keelakurichi east	Mdk 100
119.	30	Aavikkottai	Mdk 100
120.	47	Veppankulam	Mdk 100
121.	49	Thalikkottai	Mdk 60, Alt 40
122.	46	Moothakurichi	Mdk 80, Alt 20
123.	23	Musiri	Mdk 100
124.	48	Aalampallam	Mdk 60, Alt 40
9. Aandikkadu firka.			
125.	141	Adandikkadu	Mdk 55, Alt 20, Pkt 15, Mlk 10

Sl. No.	Village No.	Village name	Soil distribution (%)
126.	139	Ettivayal	Pkt 55, Mdk 45
127.	115	Kattayankadu	Mdk 80, Pkt 20
128.	117	Poovanam	Mdk 70, Pkt 30
129.	126	Pallathur	Mdk 75, Pkt 20, Alt 5
130.	144	Kollukkadu	Alt 60, Mlk 40
131.	124	Chokkanathapuram	Mdk 60, Alt 20, Pkt 20
132.	125	Pukkarambai	Pkt 60, Mdk 40
133.	131	Rendampulikkadu	Pkt 95, Mdk 5
134.		Velivayal	Mlk 55, Mdk 45
135.		Kalivayal	Mdk 75, Klv 25
136.		Pudhuppattinam	Mlk 85, Mdk 15
137.		Udhayamudaiyan	Mdk 80, Pkt 20
138.		Aladikkadu	Pkt 55, Mdk 45
139.		Maravanvayal	Mdk 100
140.		Eralivayal	Pkt 70, Mdk 30
141.		Alaghiyanayakipuram	Pkt 70, Mdk 30
142.		Naduvikurichi	Mdk 100
143.		Kattayankadu Ukkadai	Mdk 90, Pkt 10
144.		Maruthangavayal	Mdk 100
145.		Karisavayal	Pkt 85, Mdk 15
146.		Sarabendhirarajanpattinam	Klv 40, Mlk 55, Mdk 5
147.		Alamathikkadu	Mdk 60, Pkt 40
148.		Palliudaiyan	Pkt 90, Mdk 10
149.		Thandamarakadu	Pkt 100
150.		Pudhirivayal	Mdk 60, Pkt 40

Sl. No.	Village No.	Village name	Soil distribution (%)
10. Pattukkottai firka.			
151.	70	Pattukkottai	Pkt 90, Mdk 10
152.	14	Veerakurichi	Mdk 80, Pkt 20
153.	12	Aladikkumulai	Pkt 55, Mdk 45
154.	20	Sembalur	Mdk 55, Alt 45
155.	17	Sendankadu Part I	Mdk 100
156.	17	Sendankady Part II	Mdk 100
157.	50	Aathikkottai	Mdk 100,
158.	119	Karkavayal	Mdk 65, Alt 30, Pkt 5
159.	78	Maharajasamudram	Pkt 60, Mdk 40
160.	77	Nadiyambalpuram	Pkt 80, Mdk 20
161.	74	Rengojiyappathottam	Pkt 80, Mdk 20
162.	120	Nynankulam	Mdk 80, Pkt 20
163.	13	Sukkirampani	Mdk 80, Pkt 20
164.	18	Ettuppulikkadu	Mdk 100
165.	19	Thittakkudi	Mdk 70, Alt 30
166.	73	Pappaveli palayakottai	Mdk 90, Pkt 10
167.	76	Kailasanathapuram	Pkt 80, Mdk 20
168.	106	Painkattuvayal	Mdk 100
169.	121	Mudhalcheri	Mdk 85, Pkt 15
170.	22	Alathur	Mdk 80, Alt 20
171.	107	Pannaivayal	Mdk 100
172.	18	Soorappallam	Mdk 90, Pkt 10
173.	24	Mahadevapuram	Mdk 100
174.		Vadugankuthagai	Mdk 100
175.		Kathadivayal	Mdk 100

FERTILITY INDICES FOR THE VILLAGES IN PATTUKKOTTAI TALUK

THANJAVUR DISTRICT

Sl. No.	Village No.	Village name	Fertility indices (Kg / ac)		
			N	P ₂ O ₅	K ₂ O
1.	101	Kurichi	45	57	66
2.	102	Manavyal	57	61	178
3.	86	Neivaviduthi	57	52	118
4.	93	Anantheeswarapuram	53	45	136
5.	81	Kondikkulam	53	6	42
6.	89	Vattathikottai kothukkadu	49	70	232
7.	105	Vazhugapulikkadu	65	83	201
8.	100	Punavasal west and east	47	24	88
9.	99	Thuravikkadu	53	67	146
10.	93	Seruvaviduthi	57	30	60
11.	97	Thiruchitrambalam	61	32	89
12.	112	Ottankadu	62	23	137
13.	152	Pudhukkottai Ullur	45	44	210
14.	147	Rasamadam	57	28	135
15.	122	Palikondan	65	129	132
16.	153	Athirampattinam	60	96	122
17.	160	Thambikkottai Melakkadu	65	96	96

Sl. No.	Village No.	Village name	Fertility indices (Kg / ac)		
			N	P ₂ O ₅	K ₂ O
18.	155	Pazhanchur	53	47	66
19.	158	Parakkalkottai	53	55	94
20.	157	Thamurankottai North & South	66	117	92
21.	162	Sundaram	53	38	55
22.	159	Krishnapuram	57	78	246
23.	7	Nambivayal	65	125	130
24.	10	Enathi	65	76	120
25.	6	Adhambai North	57	34	200
26.	4	Pathirankottai South	73	68	177
27.	2	Kollukkadu	53	110	170
28.	8	Veppankadu	53	20	67
29.	19	Santhankadu	53	47	58
30.	39	Periyakottai	65	114	111
31.	58	Ilankadu	67	43	105
32.	40	Kanniyakurichi	57	11	461
33.	45	Vikkiramam	65	95	170
34.	61	Siramelkudi	53	65	79
35.	56	Vadiyakadu	23	70	76
36.	51	Nathuchalai	65	108	116
37.	70	Ponnavarayankottai	61	78	112

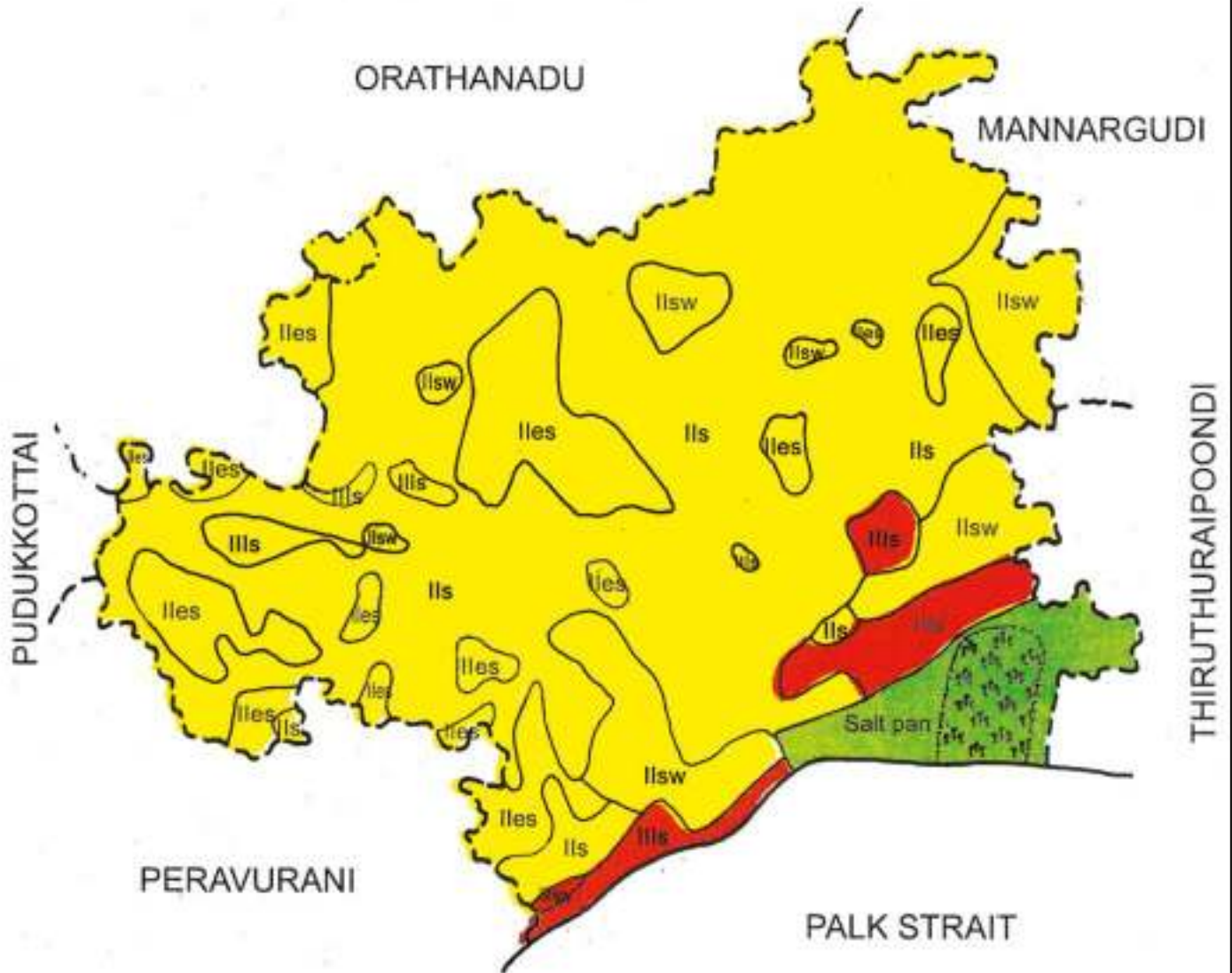
Sl. No.	Village No.	Village name	Fertility indices (Kg / ac)		
			N	P ₂ O ₅	K ₂ O
38.	67	Mannankadu	57	115	116
39.	52	Karsankadu	50	218	174
40.	68	Thuvarankurichi North	65	109	98
41.	69	Anaikkadu	53	32	160
42.	65	Pazhaverikkadu	53	25	58
43.	36	Madhukkur North	45	15	140
44.	27	Andami	45	15	140
45.	26	Karuppur	53	27	62
46.	29	Keelakurichi west	53	136	93
47.	37	Ramambalpuram	53	44	95
48.	29	Keelakurichi east	53	113	93
49.	47	Veppankulam	53	25	95
50.	23	Musiri	61	46	72
51.	48	Aalampallam	69	55	77
52.	131	Rendampulikkadu	57	16	21
53.	14	Veerakurichi	65	118	100
54.	20	Semalur	57	65	105
55.	120	Nynankulam	61	21	36
56.	121	Mudhalcheri	53	71	170
57.	22	Alathur	63	116	164
58.	107	Pannaivayal	57	24	82
59.	—	Vadugankuthagai	57	111	66
60.	50	Aathikkottai	61	151	110

LAND CAPABILITY CLASSIFICATION


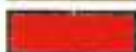
PATTUKKOTTAI TALUK

Sl. No.	Soil series	Class, sub-class	Extent (ha)	% to total	Soil limitations	Special needs
1.	Madukkur	II s - Lands that have moderate limitations for sustained use under cultivation.	40,469	60.90	Surface run off	Use of conservation irrigation methods.
2.	Alathur	II s -do-	8,094	12.18	Heavy texture	Drainage improvement.
3.	Peravurani	II s -do-	647	0.97	Surface run off, Salinity / alkalinity	Soil conservation & selection of suitable crops.
4.	Pattukkottai	II es -do-	12,687	19.09	Surface run off, erosion	Use of conservation irrigation methods, liberal addition of organics & soil conservation measures.
5.	Melkadu	III s - Lands that have severe limitations	4,397	6.62	Erosion, texture, salinity / alkalinity.	Soil conservation & organics application.
6.	Kallivayal	III sw -do-	158	0.24	Texture, drainage, salinity / alkalinity	Drainage improvement & cultivation of suitable crops.
		Total	66,452	100.00		

LAND CAPABILITY PATTUKKOTTAI TALUK



LEGEND CLASS

-  II - Moderate limitation
-  III - Severe limitation

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

 FOREST

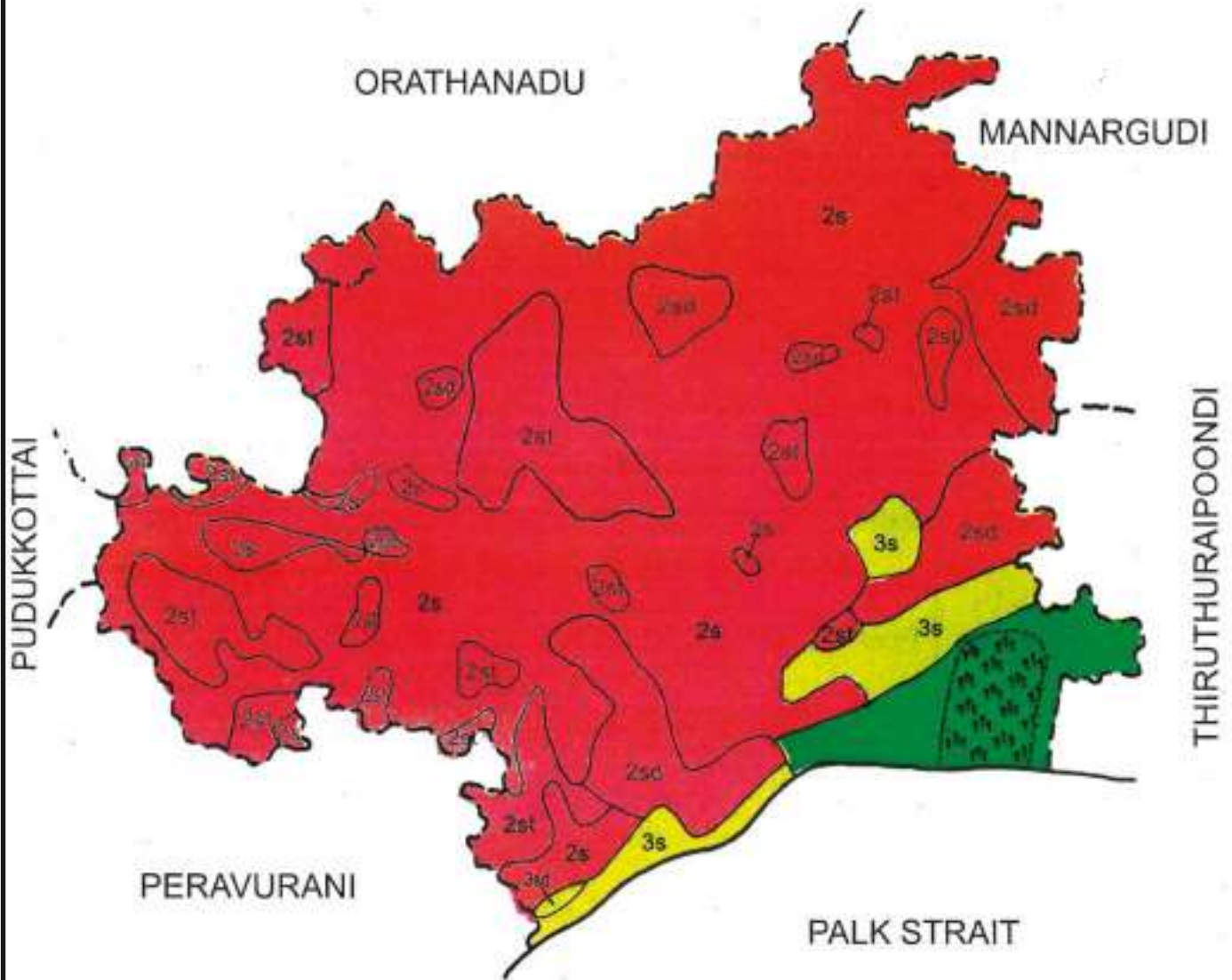
LAND IRRIGABILITY CLASSIFICATION

PATTUKKOTTAI 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.	40,469	60.90	Texture & permeability.
2.	Peravurani	2s -do-	12,687	12.18	Topography, erosion and low water holding capacity.
3.	Pattukkottai	2st -do-	8,094	0.97	Drainage & permeability
4.	Alathur	2d -do-	647	19.09	Texture, salinity / alkalinity.
5.	Melkadu	3 s - Lands that have severe limitations for sustained use under irrigation.	4,397	6.62	Texture, rapid permeability & salinity / alkalinity.
6.	Kallivayal	3 sd -do-	158	0.24	Texture, drainage, permeability & salinity / alkalinity.
		Total	66,452	100.00	

LAND IRRIGABILITY

PATTUKKOTTAI TALUK



LEGEND

CLASS

-  2 - Moderate limitation
-  3 - Severe limitation

- #### SUBCLASS
- s - soil limitation
 - l - topographical limitation
 - d - drainage limitation

 FOREST

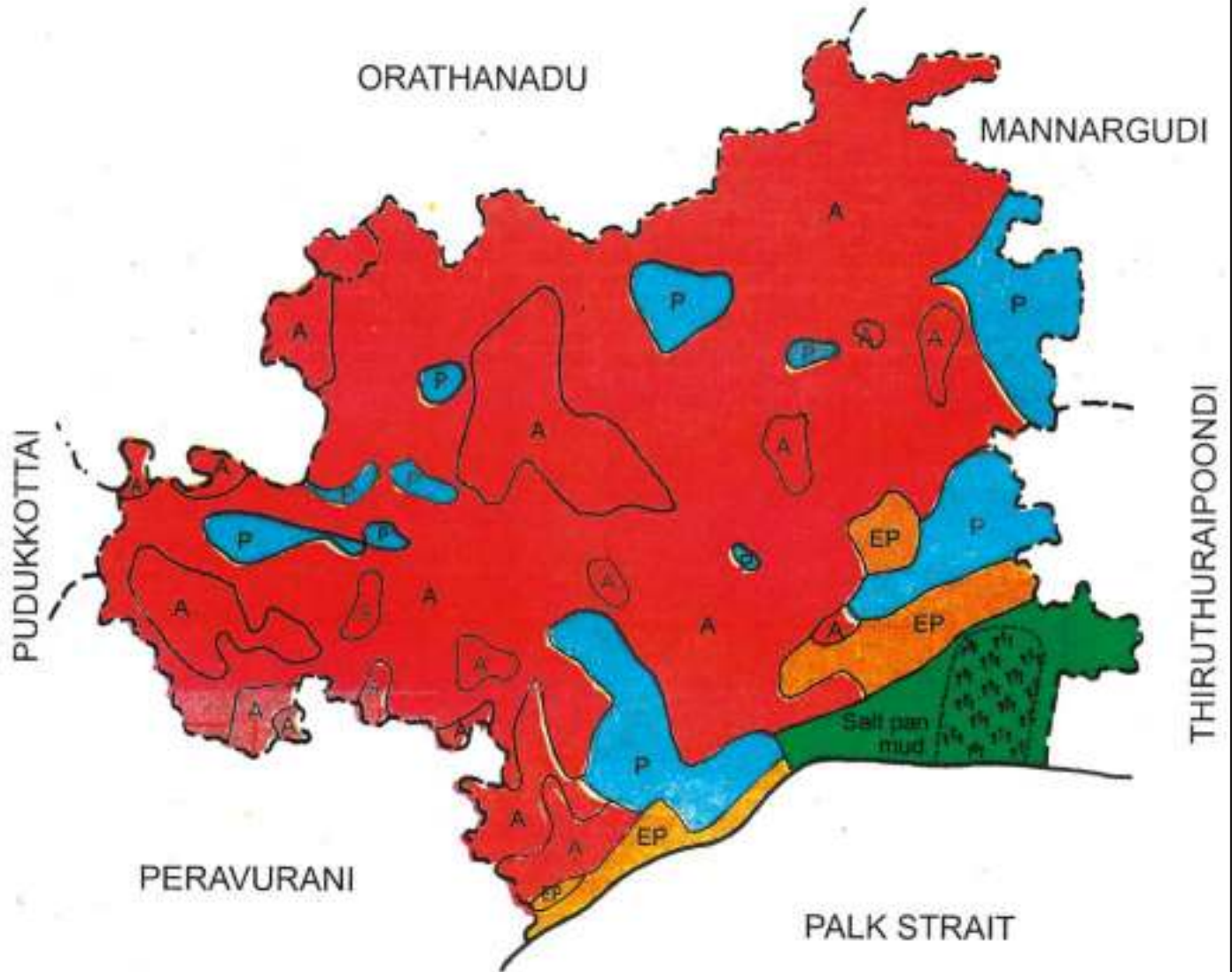
SOIL PRODUCTIVITY

PATTUKKOTTAI TALUK


Sl. No.	Rating	Productivity classes	Soil seires	Extent (ha)	% to total
1.	0 - 7	Extremely Poor (EP)	Melkadu & Kallivayal	4,555	6.86
2.	8 - 19	Poor (P)	Peravurani & Alathur	8,741	13.15
3.	20 - 34	Average (A)	Madukkur & Pattukkottai	53,156	79.99
Total				66,452	100.00

SOIL PRODUCTIVITY

PATTUKKOTTAI TALUK



LEGEND

-  AVERAGE (A)
-  POOR (P)
-  EXTREMELY POOR (EP)
-  FOREST

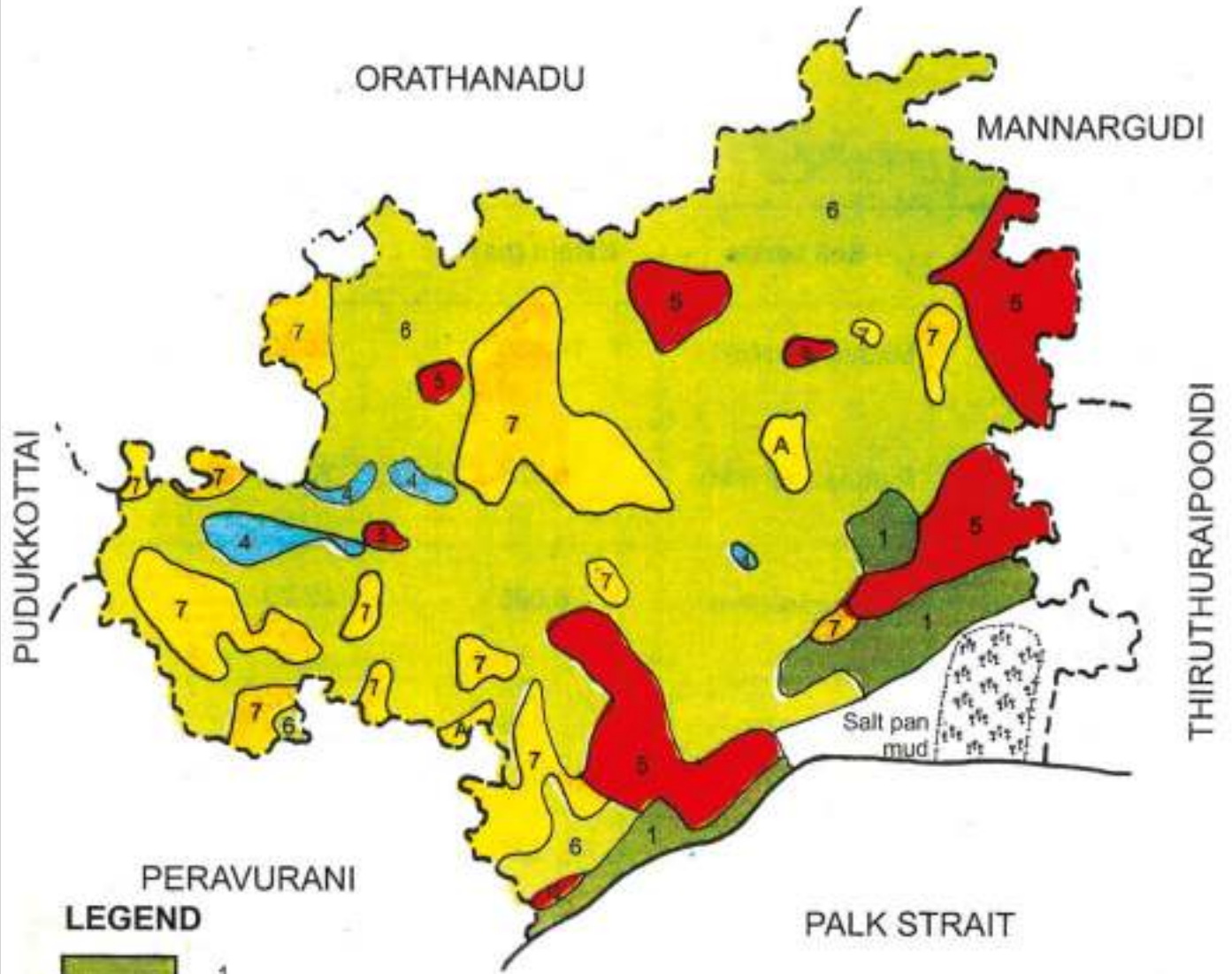
CROPS GROWN

PATTUKKOTTAI TALUK

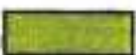


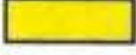



Sl. No.	Crops grown		Map symbol	Soil series
	Irrigated	Rainfed		
1.	Tobacco, Vegetables and Paddy.	Coconut, Casuarina and Cashew.	1	Melkadu
2.	Paddy and Sugarcane	Finger millets and Coconut	4	Peravurani
3.	Paddy & Sugarcane	Millets & Gingelly	5	Alathur
4.	Groundnut, Gingelly, Vegetables & Chillies.	Groundnut and Millets	6	Madukkur
5.	Groundnut, Gingelly, Vegetables & Chillies	Groundnut, Coconut, Fruit trees, Eucalypts & Casuarina.	7	Pattukkottai
6.	Paddy & Pulses	Sunflower & Finger millets.	10	Kallivayal

CROPS GROWN

PATTUKKOTTAI TALUK



LEGEND

-  1
-  4
-  5
-  6
-  7
-  10
-  FOREST

SOILS

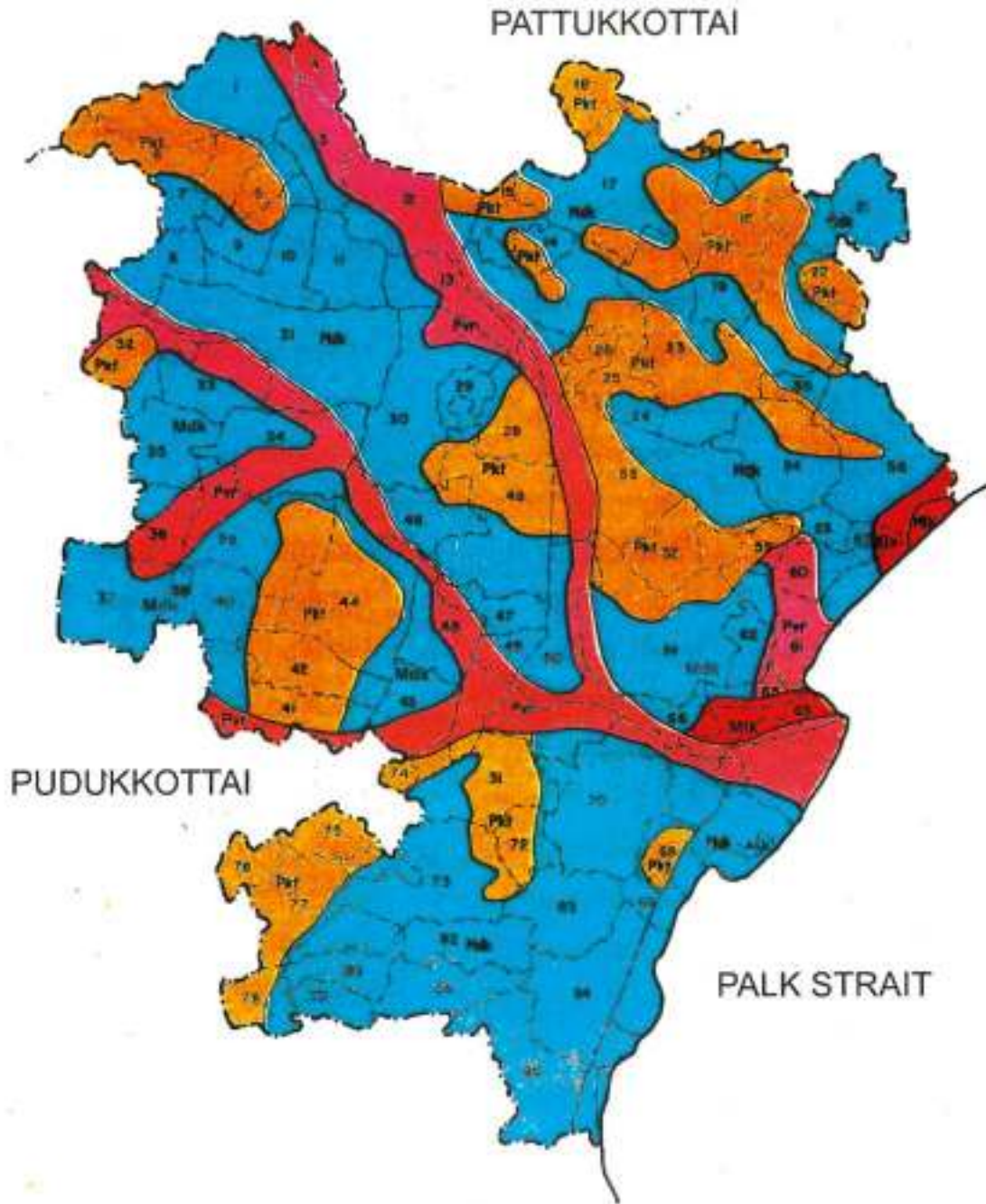
PERAVURANI TALUK

Sl. No.	Soil series	Extent (ha)	% to total
1.	Madukkur (Mdk)	10,680	40.30
2.	Pattukkottai (Pkt)	8,824	33.30
3.	Peravurani (Pvr)	6,025	22.73
4.	Melkadu (Mlk)	648	2.45
5.	Kallivayal (Klv)	324	1.22
	Total	26,501	100.00



SOILS

PERAVURANI TALUK



**REVENUE VILLAGE WISE SOIL DISTRIBUTION
PERAVURANI TALUK
THANJAVUR DISTRICT**

Sl. No.	Village No.	Village name	Soil distribution (%)
1. Perumagalur firka.			
1.	82	Perumagalur Thenpathi	Mdk 100
2.	73	Perumagalur Vadapathi	Mdk 80, Pkt 20
3.	75	Kolakudi	Pkt 100
4.	79	Valaiyanvayal	Mdk 100
5.	85	Kupputhevan	Mdk 80, Mdk saline 20
6.	83	Solaikkadu	Mdk 100
7.	81	Thoorankudi	Mdk 100
8.	80	Kalayanaramanathapuram	Mdk 100
9.	76	Panangulam	Pkt 100
10.	74	Poonankollai	Pkt 80, Pvr 10, Mdk 10
11.	77	Mudhukadu	Pkt 80, Mdk 20
12.	78	Aavidayanikottai	Pkt 60, Mdk 40
13.	72	Pattankadu	Pkt 55, Mdk 45
14.	69	Ariyakkuttihevan	Mdk 80, Pkt 20
15.	51	Ruthrasinthamani	Pkt 50, Pvr 30, Mdk 20
16.	84	Thiruvathevan	Mdk 90, Mdk saline 10
17.	67	Adaikkathevan	Mdk 50, Pkt 30, Pvr 20
18.	70	Vilangulam	Mdk 80, Pvr 20
19.	68	Senthalaivayal	Pkt 60, Mdk 40
20.	63	Raavuthanvayal	Mlk 50, Pvr 50
21.	65	Maravanvayal	Mdk 80, Pvr 20
22.	64	Villunivayal	Pvr 100
2. Kuruvikkarambai firka.			
23.	56	Nadiyam	Mdk 55, Klv 20, Pkt 15, Mlk 10
24.	54	Marungapallam	Mdk 55, Pkt 45
25.	55	Santhanpettai	Mdk 90, Pkt 10

Sl. No.	Village No.	Village name	Soil distribution (%)
26.	23	Kuruvikkarambai Part I	Pkt 70, Mdk 30
27.	22	Karambakkadu	Mdk 15, Pkt 85
28.	51	Umathanadu	Mdk 60, Pkt 35, Pvr 5
29.	57	Sethubavachatram	Klv 60, Mdk 30, Mlk 10
30.	21	Serubalakkadu	Pkt 70, Mdk 30
31.	23	Kuruvikarambai Part II	Pkt 70, Mdk 30
32.	60	Thuraiyur	Pkt 50, Mdk 50
33.	59	Reghunayaghipuram	Mdk 100
34.	53	Nayagathivayal	Mdk 90, Pkt 10
35.	61	Marakkavalasai	Pvr 60, Mlk 20, Mdk 10, Pkt 10
36.	66	Pethanachivayal	Mdk 60, Mlk 20, Pvr 20
37.	49	Kalanivasal	Pkt 55, Mdk 45
38.	82	Kodivayal	Mdk 100
39.	50	Periyakath thikkottai	Mdk 100
40.	26	Regunathapuram	Pkt 100
41.	53	Veeriyangkottai Part I	Pkt 45, Mdk 40, Pvr 15
42.	52	Kaivinivayal	Pkt 95, Mdk 5
43.	20	Kangatharapuram	Mdk 45, Pkt 55
44.	25	Poonaikuthikkadu	Pkt 100
45.	24	Vathalaikkadu	Mdk 100
46.	53	Veeriyangkottai Part II	Pkt 45, Mdk 40, Pvr 15
47.	19	Palacherykkadu	Pkt 50, Mdk 50
48.	18	Kottaikkadu	Pkt 85, Mdk 15
3. Avanam firka.			
49.	1	Periyamayagipuram	Mdk 85, Pvr 15
50.	6	Avanam	Pkt 90, Mdk 10

Sl. No.	Village No.	Village name	Soil distribution (%)		
51.	32	Paingaludkatai	Pkt 40,	Mdk 25,	Pvr 35
52.	7	Lakshminarasimpuam	Pkt 80,	Mdk 20	
53.	5	Pulichangadu	Pkt 95,	Mdk 5	
54.	8	Anathikkarampai	Mdk 85,	Pvr 15	
55.	10	Ammaiyandi	Mdk 100		
56.	17	Kalagam (Part 2)	Mdk 55,	Pkt 45	
57.	17	Kalagam (Part 2)	Mdk 55,	Pkt 45	
58.	3	Sengamalam	Mdk 90,	Pvr 10	
59.	14	Thennangudi	Mdk 70,	Pkt 30	
60.	3	Arasalangarampai	Pvr 55,	Mdk 45	
61.	13	Mavadukurichi (Part 2)	Mdk 55,	Pvr 35,	Pkt 10
62.	12	Palayanagarm	Pvr 50,	Mdk 30,	Pkt 20
63.	9	Panchanathipuram	Mdk 70,	Pkt 30	
64.	16	Kalooranikkadu	Pkt 100		
65.	13	Mavadukurichi	Mdk 55,	Pvr 35,	Pkt 10
66.		Maravanvayal	Mdk 45,	Mdk 35,	Pvr 20
67.		Arasalangarampai	Pvr 55,	Mdk 45	
68.		Thaloor	Pkt 100		
69.	15	Thonthupulikkadu	Pkt 60,	Mdk 40	
4. Peravurani firka					
70.	39	Pennavasal	Mdk 45,	Pkt 35,	Pvr 20
71.	46	Athanoor	Mdk 65,	Pkt 15,	Pvr 20
72.	28	Nattanikkottai	Pkt 70,	Mdk 20,	Pvr 10
73.	41	Manakkadu	Mdk 45,	Pkt 35,	Pvr 20
74.	44	Nelliyadikkadu	Pkt 65,	Mdk 25,	Pvr 10
75.	36	Padappanarvayal	Pvr 80,	Mdk 20	

Sl. No.	Village No.	Village name	Soil distribution (%)
76.	29	Mudappulikkadu	Mdk 100
77.	42	Veerakudi	Pkt 70, Mdk 30
78.	45	Rettavayal	Mdk 100
79.	33	Sanakkarai	Mdk 55, Pvr 45
80.	30	Peravurani	Mdk 75, Pvr 15, Pkt 10
81.	30	Peravurani (Part 2)	Mdk 75, Pvr 15, Pkt 10
82.	37	Somakkadu	Mdk 95, Pvr 5
83.	43	Rettavayalukatai	Mdk 55, Pvr 35, Pkt 10
84.	48	Koratoor	Mdk 90, Pvr 10
85.	47	Koratoor	Mdk 75, Pvr 25
86.	29	Mudappulikkadu	Mdk 100
87.	35	Andakkottai	Mdk 95, Pvr 5
88.	11	Renganayagipuram	Mdk 100
89.	34	Chithathikkadu	Mdk 60, Pvr 40
90.	38	Panchery	Mdk 60, Pvr 40
91.	40	Valaperamangadu	Mdk 85, Pkt 15

**FERTILITY INDICES FOR THE VILLAGES IN
PERAVURANI TALUK
THANJAVUR DISTRICT**

Sl. No.	Village No.	Village name	Fertility Indices (Kg / ac)		
			N	P ₂ O ₅	K ₂ O
1.	82	Perumagalur Thenpatthi	53	230	155
2.	73	Perumagalur Vadapathi	61	121	98
3.	75	Kolakudi	57	45	101
4.	85	Kupputheran	73	162	238
5.	83	Solaikkadu	53	17	46
6.	74	Poonankollai	53	47	68
7.	77	Mudhukadu	53	122	128
8.	68	Senthalaivayal	65	134	125
9.	54	Marungapallam	58	219	205
10.	23	Kurvikaranbai Part - I	65	75	330
11.	51	Umathanadu	58	83	392
12.	57	Sethubavachatram	65	97	145
13.	60	Thuraiyur	56	57	119
14.	49	Kalanivasal	57	217	320
15.	1	Periyanayakipuram	67	18	141
16.	6	Avanam	65	40	102

Sl. No.	Village No.	Village name	Fertility indices (Kg / ac)		
			N	P ₂ O ₅	K ₂ O
17.	32	Paingalukatai	61	7	60
18.	8	Anathikkarampai	72	98	94
19.	17	Kalagam (Part - II)	65	73	190
20.	12	Palayanagaram	53	175	91
21.	9	Panchanathipuram	67	103	141
22.	16	Kalloranikkadu	45	15	183
23.	13	Mavadukunichi	68	41	60
24.		Arasalangampai	81	99	470
25.	36	Padappanarvayal	53	119	80
26.	29	Mudappulikkadu	53	50	150
27.	42	Veerakudi	53	41	114
28.	30	Peravurani	53	213	273
29.	43	Rettavayalukkadai	53	93	85
30.	35	Andakkottai	46	89	129
31.	11	Renganayakipuram	53	75	196
32.	34	Chithathikadu	53	26	141

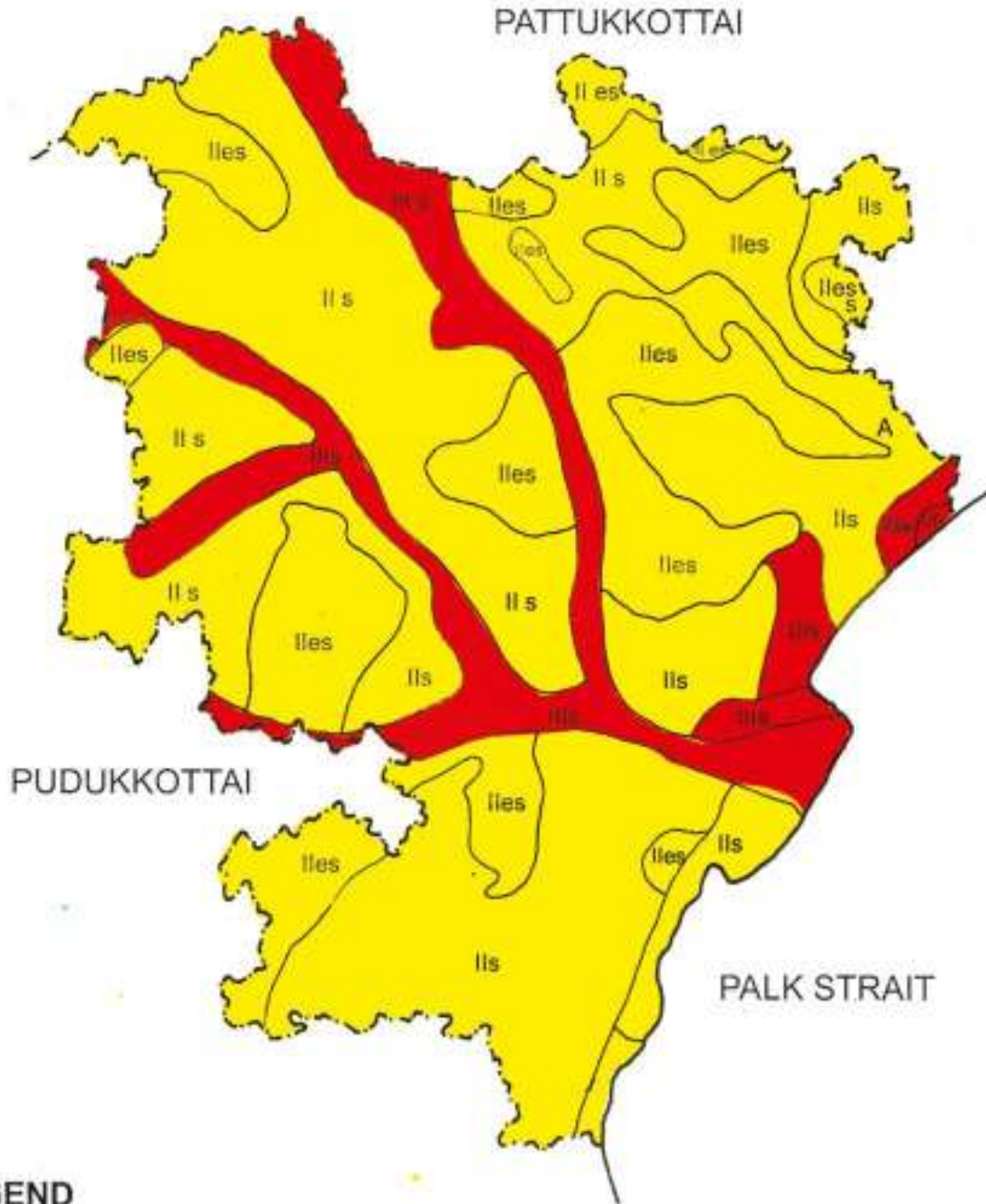
LAND CAPABILITY CLASSIFICATION

PERAVURANI TALUK

Sl. No.	Soil series	Class , sub-class	Extent (ha)	% to total	Soil limitations	Special needs
1.	Madukkur	II s - Lands that have moderate limitations for sustained use under cultivation.	10,680	40.30	Surface run off	Use of conservation irrigation methods.
2.	Peravurani	II s -do-	6,025	22.73	Surface run off & salinity / alkalinity	Soil conservation & addition of organics.
3.	Pattukkottai	II es -do-	8,824	33.30	Surface run off & erosion.	Use of conservation irrigation methods, soil conservation measures & addition of organics.
4.	Melkadu	III s - Lands that have severe limitaitons for sustained use under cultivation.	648	2.45	Erosion, texture & salinity / alkalinity	Soil conservation & organics application.
5.	Kallivayal	III s w -do-	324	1.22	Texture, drainage & salinity / alkalinity	Drainage improvement & growing suitable crops.
	Total		26,501	100.00		

LAND CAPABILITY

PERAVURANI TALUK



LEGEND

CLASS



II - Moderate limitation



III - Severe limitation

SUB CLASS

s - soil limitation

e - erosion limitation

w - wetness limitation

LAND IRRIGABILITY CLASSIFICATION

PERAVURANI 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.	10,680	40.30	Texture & permeability.
2.	Peravurani	2s -do-	8,824	33.30	Texture & salinity / alkalinity.
3.	Pattukkottai	2 st -do-	6,025	22.73	Topography, erosion & low water holding capacity.
4.	Melkadu	3s - Lands that have severe limitations for sustained use under irrigation.	648	2.45	Texture, rapid permeability & salinity / alkalinity.
5.	Kallivayal	3 sd -do-	324	1.22	Texture, drainage, permeability & salinity / alkalinity.
	Total		26,501	100.00	

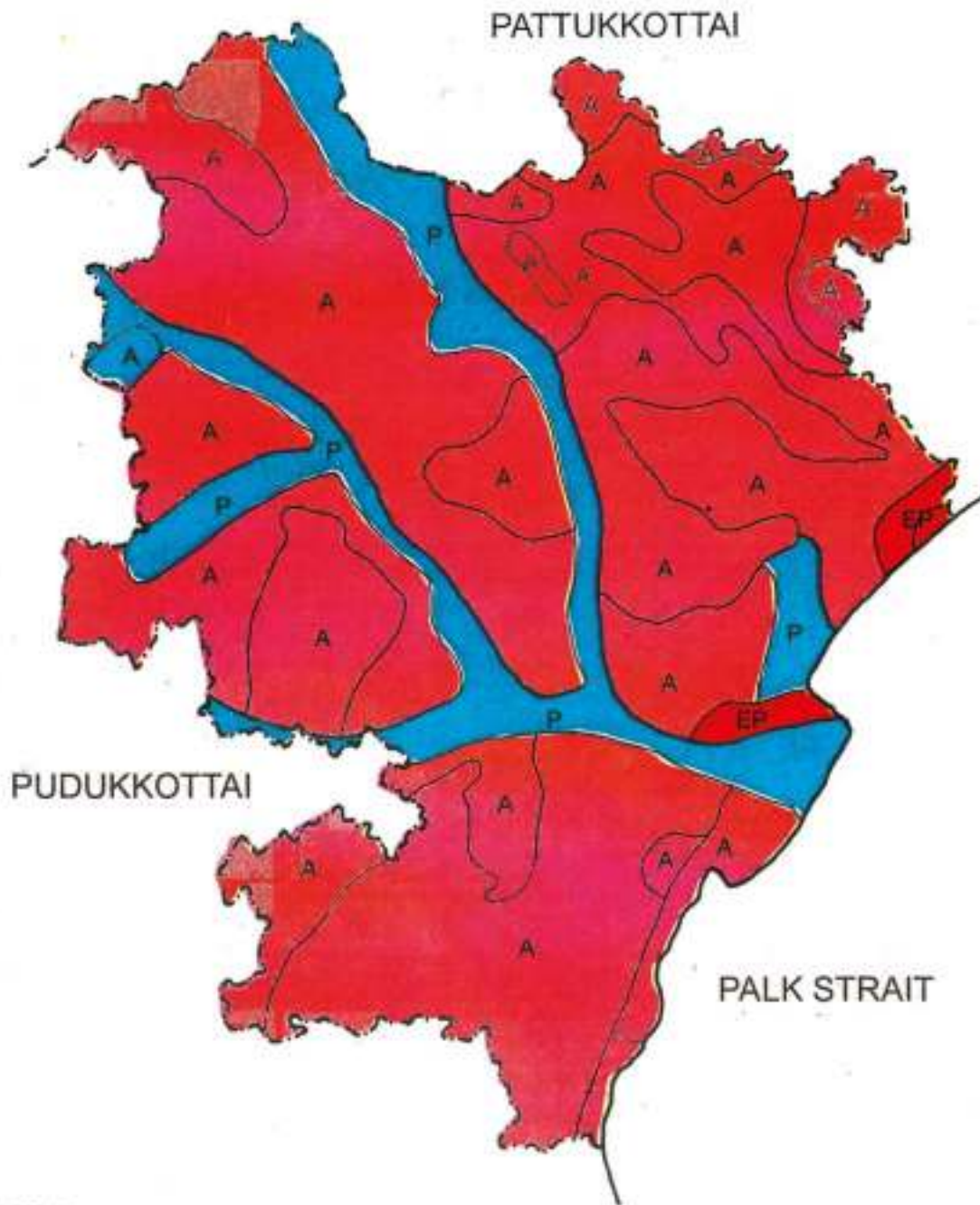
SOIL PRODUCTIVITY

PERAVURANI TALUK



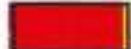
Sl. No.	Rating	Productivity classes	Soil series	Extent (ha)	% to total
1.	0 - 7	Extremely Poor (EP)	Melkadu & Kallivayal	972	3.77
2.	8 - 19	Poor (P)	Peravurani	6,025	22.73
3.	20 - 34	Average (A)	Madukkur & Pattukkottai	19,504	73.50
Total				26,501	100.00

SOIL PRODUCTIVITY

PERAVURANI TALUK



LEGEND

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

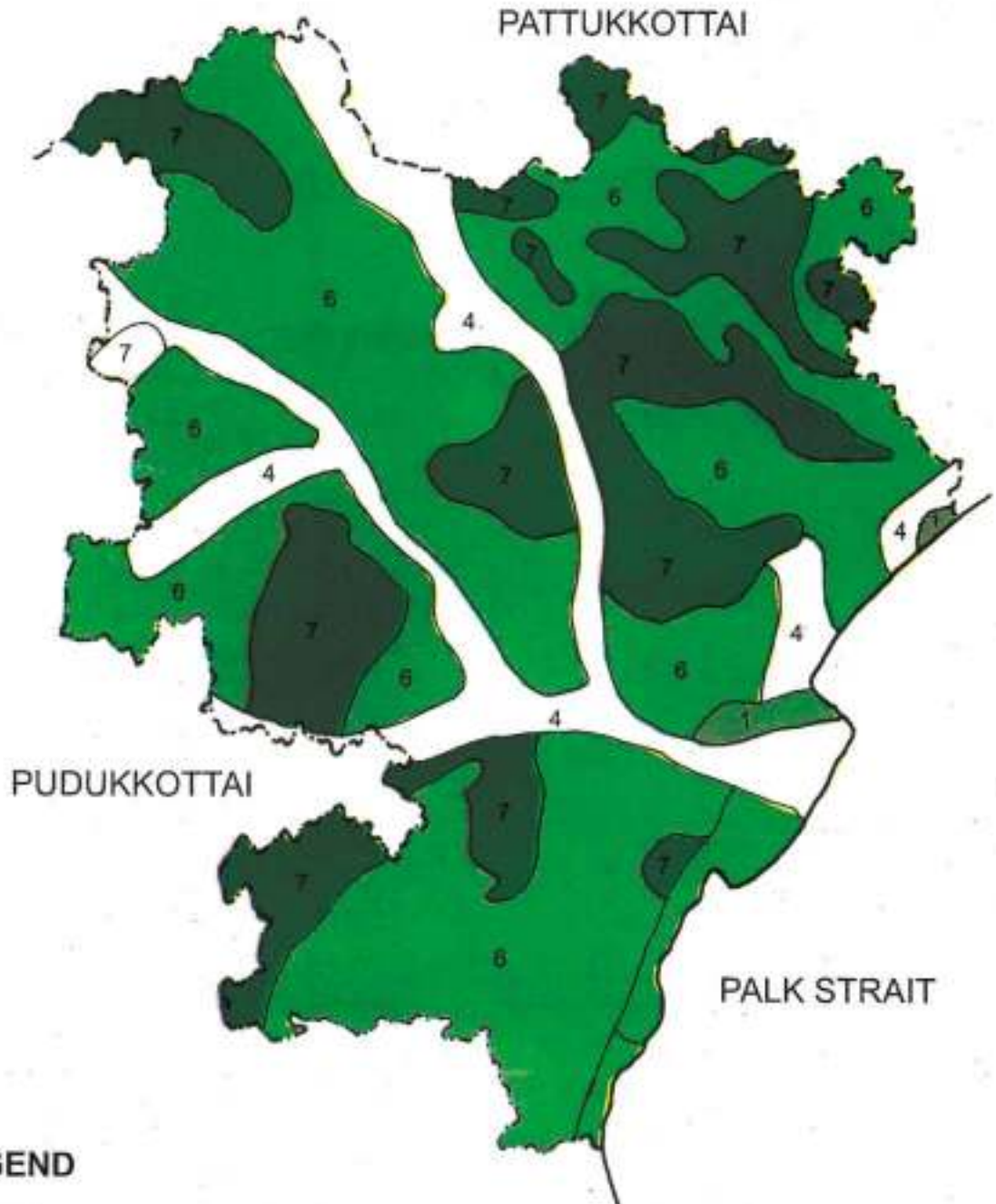
CROPS GROWN

PERAVURANI TALUK





S. No.	Crops grown		Map symbol	Soil series
	Irrigated	Rainfed		
1.	Tobacco & Gingelly.	Groundnut & Casuarina	1	Melkadu
2.	Paddy & Pulses	—	4	Kallivayal & Peravurani
3.	Groundnut, Gingelly, Paddy, Millets & Chillies.	Groundnut & Millets	6	Madukkur
4.	Groundnut, Gingelly, Vegetables & Chillies.	Groundnut, Coconut, Fruit trees, Eucalyptus & Casuarina.	7	Pattukkottai

CROPS GROWN

PERAVURANI TALUK



LEGEND

	1
	4
	6
	7

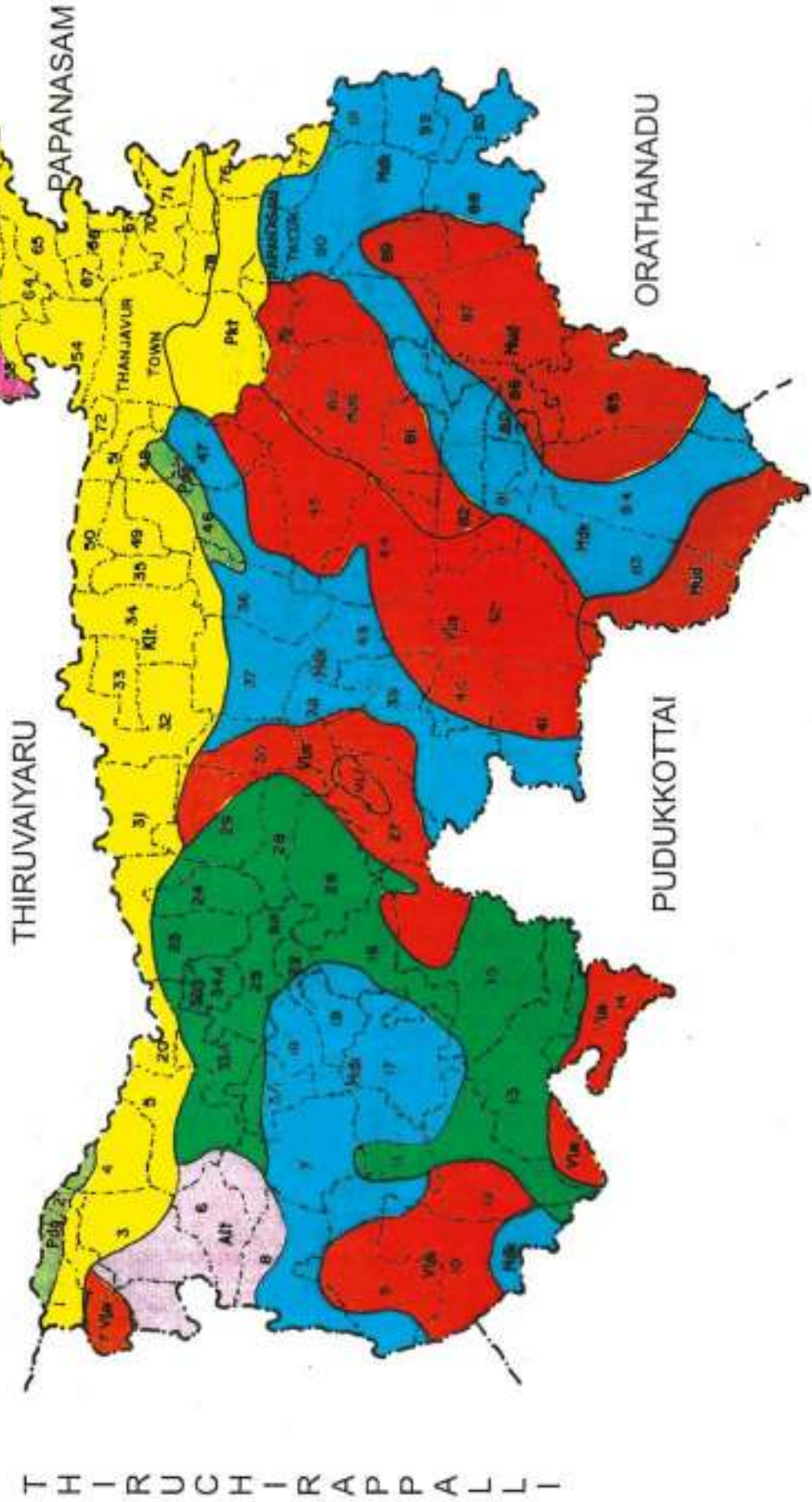
SOILS

THANJAVUR TALUK

Sl. No.	Soil series	Extent (ha)	% to total
1.	Kalathur (Klt)	14,260	23.42
2.	Vallam (Vlm)	13,045	21.43
3.	Madukkur (Mdk)	12,641	20.76
4.	Budalur (Bdl)	6,449	10.59
5.	Mudukulam (Mud)	6,166	10.13
6.	Alathur (Alt)	2,523	4.14
7.	Adhanur (Adn)	2,213	3.64
8.	Padugai (Pdg)	2,119	3.48
9.	Pattukkottai (Pkt)	1,463	2.41
	Total	60,879	100.00



SOILS THANJAVUR TALUK



T H I R U C H I R A P P A L L I

**REVENUE VILLAGEWISE SOIL DISTRIBUTION
THANJAVUR TALUK
THANJAVUR DISTRICT**

Sl. No.	Village No.	Village name	Soil distribution (%)
1. Budalur firka			
1.	1	Indalur	Klt 55, Pdg 45
2.	2	Kadambakudy	Klt 60, Pdg 20 Alt 15, Adn 5
3.	3	Solagampatti	Klt 60, Alt 40
4.	4	Maraneri	Klt 80, Pdg 20
5.	5	Kangeyampatti	Bdl 45, Mdk 55
6.	5/1	Kottarapatti	Mdk55, Bdl 45
7.	18	Muthuveerakkandiyampatti	Mdk95, Bdl 5
8.	19	Nandharavanapatti	Mdk100,
9.	20	Thondarayanpadi	Klt 70, Bdl 30
10.	22	Avarampatti	Bdl 70, Mdk 30
11.	23	Budalur	Bdl 90, Klt 10
12.	24	Kovilpathu	Bdl 95, Klt 5
13.	25	Veeramarampeitai	Bdl 90, Mdk 10
14.	26	Marudhakkudi	Bdl 90, Vlm 10
15.	28	Sellappanpeitai	Bdl 85, Vlm 15
16.	29	Chithrakudi Mudhanmai	Bdl 50, Vlm 35, Klt 15
17.	29/1	Chithrakudi Kooduthal	Bdl 50, Vlm 35, Klt 15
18.	31	Rayanthur	Klt 100
2. Sengipatti firka			
19.	6	Sorakkudipatti	Alt100
20.	7	Vendayampatti	Mdk70, Alt 20, Bdl10
21.	8	Rayamundanpatti	Mdk70, Alt 30
22.	9	Pudukudy Vadapathi	Vlm60, Mdk 35, Bdl 5
23.	10	Pudukudi Thenpatti	Vlm60, Mdk 35, Bdl 5
24.	11	Manayeripatti	Mdk60, Vlm 40
25.	12	Palayapatti North	Bdl 40, Vlm 40, Mdk 20

Sl. No.	Village No.	Village name	Soil distribution (%)
26.	13	Palayappatti South	Bdl 80, Vlm 20
27.	14	Achampatti	Vlm 80, Bdl 20
28.	15	Sengipatti	Bdl 70, Vlm 25, Mdk 5
29.	16	Pudupatti	Bdl 65, Mdk 30, vlm 5
30.	17	Sanoorapatti	Mdk 90, Bdl 10
3. Perambur firka			
31.	30	Kalvirayanpettai	Vlm 70, Klt 15, Mdk 15
32.	32	Perambur II Sethi	Klt 100
33.	33	Perambur I Sethi	Klt 100
34.	34	Pillayarnatham	Klt 100
35.	35	Seeralur	Klt 100
36.	36	Vannarapettai Mudhanmai	Mdk 60, Klt 30, Pdg 10
37.	36/1	Vannarapettai Kooduthai	Mdk 60, Klt 30, Pdg 10
38.	37	Alakkudy Mudhanmai	Mdk 65, Klt 35
39.	37/1	Alakkudy Kooduthal	Mdk 65, Klt 35
40.	49	Sakkarasamantham	Klt 100
41.	50	Vennalodai	Klt 100
4. Vallam firka			
42.	27	Tirumalaisamudram	Vlm 65, Black Soil 25, Mdk 10
43.	38	Kuruvadipatti	Mdk 60, Vlm 35, Black Soil 5
44.	39	Vallampudur	Mdk 60, Vlm 40
45.	40	Vallam South	Vlm 80, Mdk 20
46.	41	Sennampatti	Vlm 60, Mdk 40
47.	42	Thirukkannurpatti	Vlm 85, Mud 15
48.	43	Vallam North	Mdk 55, Vlm 45
49.	44	Pillayaripatti	Vlm 65, Mdk 35
50.	83	Kurungulam West	Mdk 50, Mud 40, Vlm 10

Sl. No.	Village No.	Village name	Soil distribution (%)
51.	84	Kurungulam East	Mud55, Mdk 45
5. Ramapuram firka			
52.	55	Narasanayakipuram	Adn 55, Kl 45
53.	56	Thirurvedhikudy	Adn 100
54.	58	Mannangorai	Adn 100
55.	59	Thandangorai	Adn 100
56.	60	Mathur	Pdg 60, Adn 40
57.	61	Nallichery	Adn 100
58.	62	Kondavattanthidal	Klt 100
59.	63	Thottakadu	Klt 55, Adn 45
60.	64	Ramapuram	Klt 95, Adn 5
61.	65	Thittai	Klt 100
62.	66	Budalur	Klt 100
63.	67	Kurungalur	Klt 100
64.	70	Kadkadappai	Klt 100
65.	71	Melasitharkadu	Klt 100
66.	76	Pinnainallur	Pkt 80, Klt 20
6. Nanjikottai firka			
67.	77	Kulichapattu	Pkt 60, Mdk 40
68.	80	Nanjikottai	Mdk70, Mud 30
69.	81	Inathanpatti	Vlm100
70.	82	Najikottai Vallundampattu	Mdk55, Mud 45
71.	85	Marungulam	Mud70, Mdk 30
72.	86	Kollankarai Vallundanpattu	Mud70, Mdk 30
73.	87	Kollangari	Mud95, Mdk 5
74.	88	Pudur	Mdk65, Mud 35
75.	89	Kandhithampattu	Mud80 Mdk 20

Sl. No.	Village No.	Village name	Soil distribution (%)
76.	90	Vilar	Mdk70, Mud 30
77.	90/1	Soorakottai	Mdk70, Mud 30
78.	91	Valavirankottai	Mdk100
79.	92	Kattur	Mdk100
80.	93	Madigai	Mdk100
81.	45	Nilagiritherkuthottam	Vlm80, Mud 10, Mdk10
82.	46	Ramanathapuram Mudhanmai	Klt 30, Vlm 25, Mdk25, Pdg 20
83.	46/1	Ramanathapuram Kooduthal	Klt 30, Vlm 25, Mdk25, Pdg 20
84.	47	Melavelithottam	Mdk65, Vlm 15, Klt 15 Pdg 5
85.	48	Pallieri	Klt 75, Pdg 25
86.	51	Velur	Klt 100
87.	51/1	Valampuri unit	Klt 100
88.	54	Palliagraharam	Klt 100
89.	72	Ausahibthottam	Klt 100
90.	74	Keeraikollai	Klt 80, Adn 20
91.	78	Puliyanthope	Pkt 40, Klt 40, Mdk 20
92.	75	Karunthattankudi	Klt 100
93.	79	Pudupattinam	Mud70, Pkt 20, Mdk 10

FERTILITY INDICES FOR THE VILLAGES IN THANJAVUR TALUK

THANJAVUR DISTRICT

Sl. No.	Village No.	Village name	Fertility indices (Kg / ac)		
			N	P ₂ O ₅	K ₂ O
1.	1	Indalur	49	30	175
2.	4	Maraneri	52	203	114
3.	5	Kangeyampatti	53	7	58
4.	19	Nandhavanapatti	53	54	657
5.	23	Budalur	53	10	40
6.	24	Kovilpathu	53	24	74
7.	15	Sengipatti	57	49	226
8.	16	Pudupatti	44	44	292
9.	35	Seeralur	49	106	386
10.	37	Alakkudy Mudhanmai	53	34	82
11.	37/1	Alakkudy Kooduthal	65	197	598
12.	27	Thirumalaisamudram	53	12	194
13.	40	Vallam South	53	24	126
14.	42	Thirukkanurpatti	69	55	88
15.	83	Kurungulam West	55	120	264
16.	58	Manankorai	57	57	214

Sl. No.	Village No.	Village name	Fertility indices (Kg / ac)		
			N	P ₂ O ₅	K ₂ O
17.	59	Thandangorai	57	124	228
18.	61	Nallachery	57	18	195
19.	64	Ramapuram	49	131	436
20.	71	Melachitarkadu	49	42	399
21.	80	Nanjikottai	53	13	34
22.	90	Vilar	54	10	65
23.	90/1	Soorakottai	53	12	204
24.	92	Kattur	53	108	106
25.	75	Karunthattankudi	49	49	220

LAND CAPABILITY CLASSIFICATION

THANJAVUR TALUK

S. No.	Soil series	Class, sub-class	Extent (ha)	% to total	Soil limitations	Special needs
1.	Kalathur	II s- Lands that have moderate limitation for sustained use under cultivation.	14,260	23.42	Heavy texture, drainage & salinity or alkalinity.	Drainage improvement, soil breeding & liberal addition of organics.
2.	Madukkur & Padugai	II s- -do-	14,760	24.24	Surface run off	Use of conservation irrigation methods.
3.	Adhanur	II s -do-	2,213	3.64	Heavy texture	Drainage improvement.
4.	Budalur Pattukkottai & Mudukulam	II es -do-	14,078	23.13	Surface run off & erosion	Use of conservation irrigation methods, Soil conservation measures & liberal addition of organics.
5.	Alathur	II sw -do-	2,523	4.14	Heavy texture, drainage & salinity / alkalinity.	Drainage improvement & selection of suitable crops.
6.	Vallam	III es -Lands that have severe limitations for sustained use under cultivation.	13,045	21.43	Erosion, shallow depth, texture & topography.	Soil conservation measures & liberal addition of organics.
Total			60,879	100.00		



LAND CAPABILITY

THANJAVUR TALUK

T H I R U C H I R A P P A L L I

THIRUVAIYARU

PAPANASAM

ORATHANADU

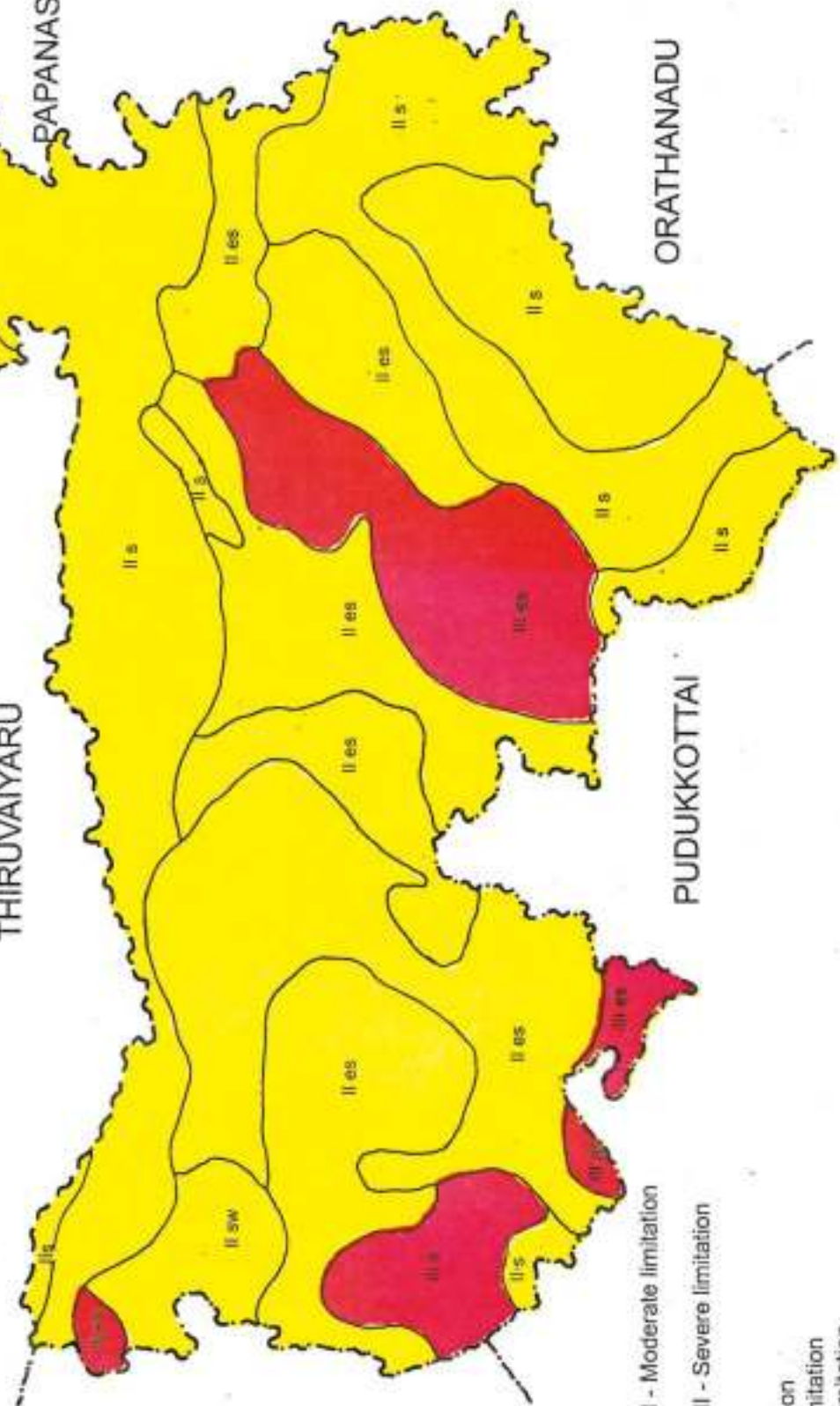
PUDUKKOTTAI

LEGEND

-  II - Moderate limitation
-  III - Severe limitation

SUB CLASS

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



LAND IRRIGABILITY CLASSIFICATION

THANJAVUR TALUK

Sl. No.	Soil series	Class, sub - class	Extent (ha)	% to total	Soil limitations
1.	Madukkur	2s- Lands that have moderate limitation for sustained use under irrigation.	2,213	3.64	Texture & permeability
2.	Adhanur	2s "			Drainage & permeability.
3.	Kalathur & Alathur	2sd-Lands that have moderate limitations for sustained use under irrigation.	27,305	44.85	Drainage, permeability & salinity / alkalinity.
4.	Budalur, Padugai, Pattukkottai & Mudukulam	2st -do-	14,078	23.13	Erosion & topography
5.	Vallam	3st- Lands that have severe limitation for sustained use under irrigation.	14,760	24.24	Topography, texture, erosion & shallow depth.
Total			60,879	100.00	



LAND IRRIGABILITY

THANJAVUR TALUK

T H I R U C H I R A P P A L L I

THIRUVAIYARU

BAPANASAM

ORATHANADU

PUDUKKOTTAI

LEGEND

CLASS



2 - Moderate limitation



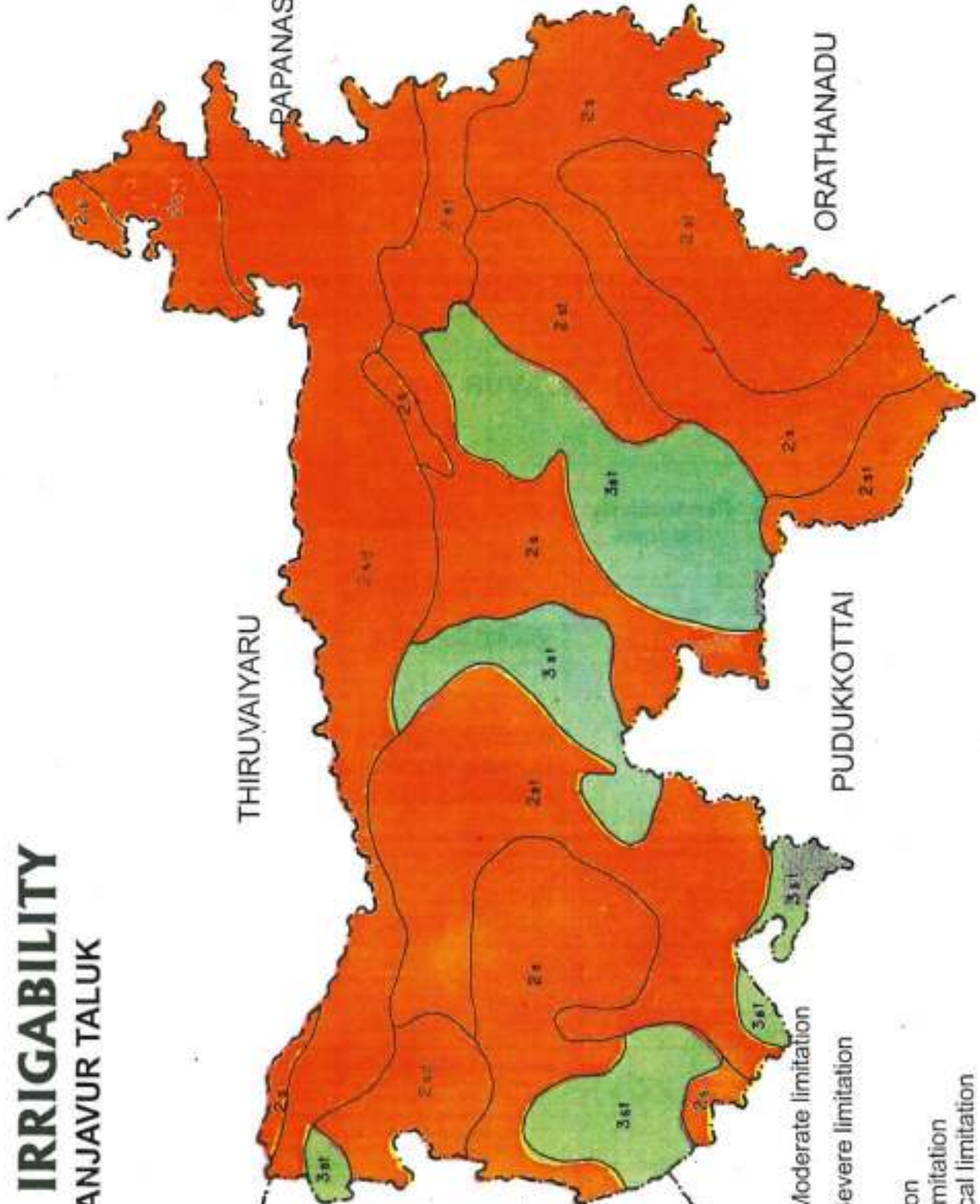
3 - Severe limitation

Subclass

s - soil limitation

d - drainage limitation

t - topographical limitation



SOIL PRODUCTIVITY

THANJAVUR TALUK

Sl. No.	Rating	Productivity classes	Soil series	Extent (ha)	% to total
1.	8-19	Poor (P)	Vallam & Alathur	15,568	25.57
2.	20-34	Average (A)	Kalathur, Madukkur, Budalur, Mudukulam, Adhanur & Pattukottai	43,192	70.95
3.	35-64	Good (G)	Padugai	2,119	3.48
Total				60,879	100.00



SOIL PRODUCTIVITY

THANJAVUR TALUK

T H I R U C H I R A P P A L L I

THIRUVAIYARU

PAPANASAM

ORATHANADU

PUDUKKOTTAI

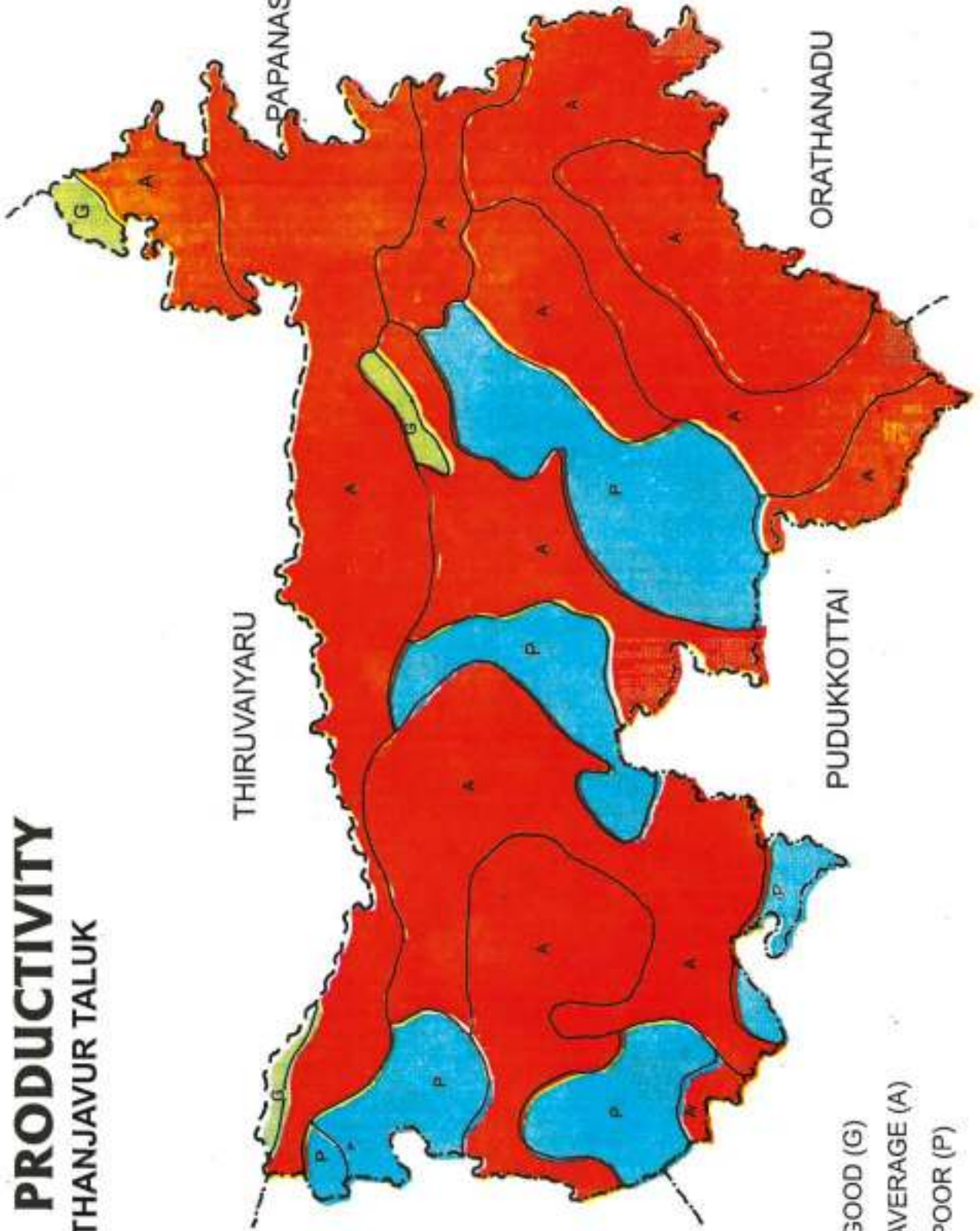
LEGEND

CLASS

GOOD (G)

AVERAGE (A)

POOR (P)



CROPS GROWN

THANJAVUR TALUK

Sl. No.	Crops grown		Map symbol	Soil series
	Irrigated	Rainfed		
1.	Banana, Sugarcane, Vegetables, Flowers & Paddy.	Groundnut, Gingelly & Eucalyptus.	3	Padugai
2.	Paddy, Sugarcane & Millets.	—	5	Alathur
3.	Groundnut, Gingelly, Paddy, Millets & Chillies.	Groundnut & Millets	6	Budalur & Madukkur
4.	Groundnut, Gingelly, Vegetables & Chillies.	Groundnut, Coconut, Fruit trees, Eucalyptus & Casuarina.	7	Pattukkottai
5.	Groundnut, Flowers & Vegetables	Groundnut, Millets & Fruit trees.	8	Mudukulam
6.	—	Groundnut, Millets, Cashewnut & Eucalypts	9	Vallam
7.	Paddy, Sugarcane & Cotton.	Pulses	10	Kalathur & Adhanur



CROPS GROWN THANJAVUR TALUK

T H I R U C H I R A P P A L L I

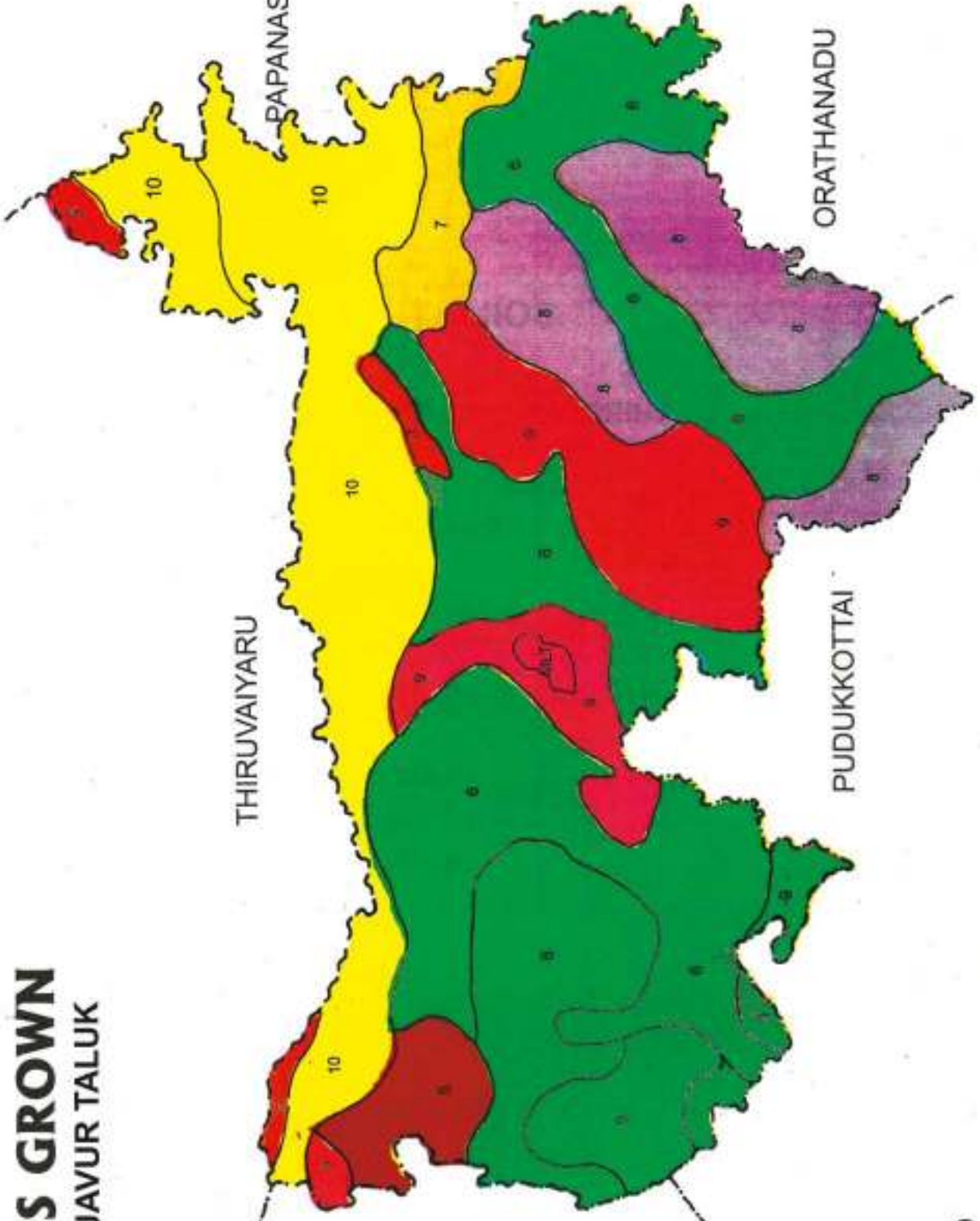
THIRUVAIYARU

BAPANASAM

ORATHANADU

PUDUKKOTTAI

LEGEND



SOILS

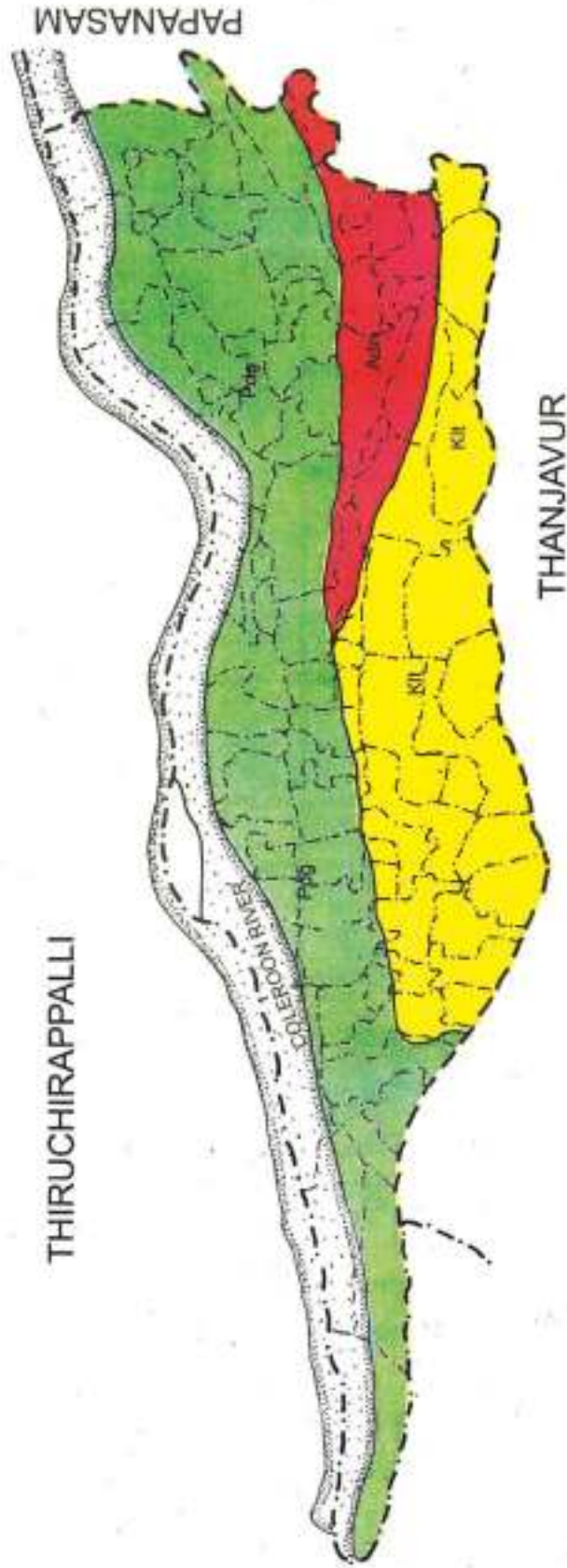
THIRUVAIYARU TALUK

Sl. No.	Soil series	Extent (ha)	% to total
1.	Padugai (Pdg)	14,002	49.11
2.	Kalathur (Klt)	10,523	36.91
3.	Adhanur (Adn)	3,986	13.98
	Total	28,511	100.0



SOILS

THIRUVAIYARU TALUK



REVENUE VILLAGE WISE SOIL DISTRIBUTION
THIRUVAIYARU TALUK
THANJAVUR DISTRICT

Sl. No.	Village No.	Village name	Soil distribution (%)
1.		Thogur	Pdg 100
2.		Pathirakkudi	Pdg 100
3.		Koviladi	Pdg 100
4.		Thiruchinampoondi	Pdg 100
5.		Nemam	Pdg 100
6.		Renganathapuram	Klt 35, Pdg 15
7.		Rajagiri	Pdg 85, Klt 15
8.		Agarappettai	Pdg 95, Klt 5
9.		Mahadevapuram	Pdg 100
10.		Kachonamangalam	Pdg 90, Klt 10
11.		Mekalathur	Klt 65, Pdg 35
12.		Ujaini	Klt 100
13.		Pazhamameri	Pdg 70, Klt 30
14.		Alamelupuram	Pdg 100
1. Thirukkattuppalli firka			
15.		Orathur	Klt 100
16.		Nathamangalam	Klt 100
17.		Vishnumpettai	Pdg 100
18.		Vittalapuram	Pdg 100
19.		Pavanamangalam	Pdg 100
20.		Umbathuveli	Pdg 80, Klt 20
21.		Thirukkattuppalli	Pdg 70, Klt 30
22.		Deechasamudram	Klt 100
23.		Arkadu	Klt 100
24.		Budarayanallur	Klt 100
25.		Vinnamangalam	Klt 100
26.		Adanji	Klt 100
27.		Venkatasamudram I st Sethi	Klt 95, Pdg 5

Sl. No.	Village No.	Village name	Soil distribution (%)
28.		Michelpatti	Pdg 100
29.		Kandamangalam	Pdg 100
30.		Koothur	Pdg 100
31.		Vanarangudi	Pdg 100
32.		Maharajapuram	Pdg 100
33.		Sathanoor	Pdg 100
34.		Valappakkudi	Pdg 100
35.	28 - 1	Venkatasamudram	Pdg 55, Klt 45
36.	28 - 2	Venkatasamudram 2 nd Sethi	Pdg 55, Klt 45
2. Nadukkaveri firka			
37.		Mannarsamudram	Pdg 90, Klt 10
38.		Eswarankoilpathu	Pdg 80, Klt 20
39.		Konerirajapuram	Pdg 50, Klt 30, Adn 20
40.		Varahoor	Klt 100
41.		Ammailagaram	Klt 100
42.		Kazhumangalam	Klt 100
43.		Allur	Klt 100
44.		Ambathumelagaram	Klt 100
45.		Kuzhimathur	Adn 100
46.		Karuppur	Pdg 75, Adn 25
47.		Nadukkaveri (East)	Pdg 90, Adn 10
48.		Nadukkaveri (West)	Pdg 90, Adn 10
49.		Vellamperapur (East)	Klt 65, Adn 35
50.		Vellamperapur (West)	Klt 65, Adn 35
51.		Thiruvallampozhil	Pdg 95, Adn 5
3. Kandyur firka			
52.		Thenperambur	Klt 100
53.		Nagathi	Adn 70, Klt 30
54.		Melathiruppanthuruthi (Ist Sethi)	Adn 55, Pdg 45
55.		Melathiruppanthuruthi (Addition)	Adn 55, Pdg 45
56.		Keezhathiruppanthuruthi	Pdg 100
57.		Mukasakalyanapuram	Pdg 100

Sl. No.	Village No.	Village name	Soil distribution (%)
58.		Kalyanapuram (1st Sethi)	Pdg 100
59.		Uppukkachipettai	Pdg 100
60.		Thiruchottruthurai	Pdg 90, Adn 10
61.		Kalyanapuram (2ndSethi)	Pdg 65, Adn 35
62.		Kandiyur	Adn 60, Pdg 40
63.		Rajendrapuram	Klt 50, Adn 50
64.		Manakkarambai	Klt 90, Adn 10
65.	74	Avikkarai	Pdg 65, Adn 35
66.	52	Karur	Adn 100
67.	76/1	Kaliyapanrajathottam	Klt 50, Adn 50
68.	76/2	Sengazhuneer Thottam	Klt 55, Adn 45
69.	76/3	Arasur Sinna Avusakap Thottam	Klt 60, Adn 40
70.	76/4	Seshanarayana Thottam	Klt 55, Adn 45
4. Thiruvaiyaru firka			
71.		Marur	Pdg 100
72.		Vaithyanathanpettai	Pdg 100
73.		Kadaveli	Pdg 100
74.		Melappunavasal	
75.		Punavasal	Pdg 100
76.		Perumpuliyur	Pdg 100
77.		Thiruvaiyaru (East)	Pdg 100
78.		Thiruvaiyaru (West)	Pdg 100
79.		Rayampettai	Pdg 100
80.		Karkudi	Pdg 100
81.		Villankudi (1st Sethi)	Pdg 100
82.	44	Thullasenthiramaharajapuram	Pdg 100
83.	46	Vaduhakkudi	Pdg 100
84.	47	Achanoor	Pdg 100
85.	74	Villangudi	Pdg 100
86.	75	Thiruppazhanam	Pdg 100
87.	76	Semmangudi	Pdg 100
88.	77	Peramoor	Pdg 100
89.	78	Okkadai	Pdg 100

**FERTILITY INDICES FOR THE VILLAGES IN
THIRUVAIYARU TALUK
THANJAVUR DISTRICT**

Sl. No.	Village No.	Village name	Fertility indices (Kg / ac)		
			N	P ₂ O ₅	K ₂ O
1.		Thogur	57	63	144
2.		Koviladi	57	148	472
3.		Nemam	57	57	129
4.		Agarappettai	57	33	99
5.		Kachonamangalam	57	58	213
6.		Pazhamanneri	57	62	253
7.		Orathur	49	52	63
8.		Nathamampalam	49	56	64
9.		Vittalapuram	57	67	166
10.		Pavanamangalam	57	40	227
11.		Umbathuveli	61	54	93
12.		Thirukkattupalli	57	55	198
13.		Arkadu	49	61	521
14.		Vinnamangalam	49	17	197
15.		Michelpatti	57	23	139
16.		Kandamangalam	57	219	143
17.		Maharajapuram	57	198	194
18.		Mannarsamuthram	65	41	148
19.		Eswarankoilpathu	57	93	352
20.		Ambathumelagaram	49	25	222
21.		Vellamperambur	49	6	207
22.		Thiruvalampozhil	45	260	218
23.		Nagathi	57	34	183
24.		Kelyanapuram (1 St sethi)	57	53	564
25.		Thiruchotruthurai	69	19	140
26.		Kandiyur	57	42	94
27.		Vaithyanathanpettai	57	21	138
28.		Melapunavasal	57	42	123
29.		Thiruvaiyam (East)	69	25	133
30.		Karukudi	65	56	237
31.		Vilangudi	57	27	196
32.		Thiruppazhanam	57	21	120

LAND CAPABILITY CLASSIFICATION

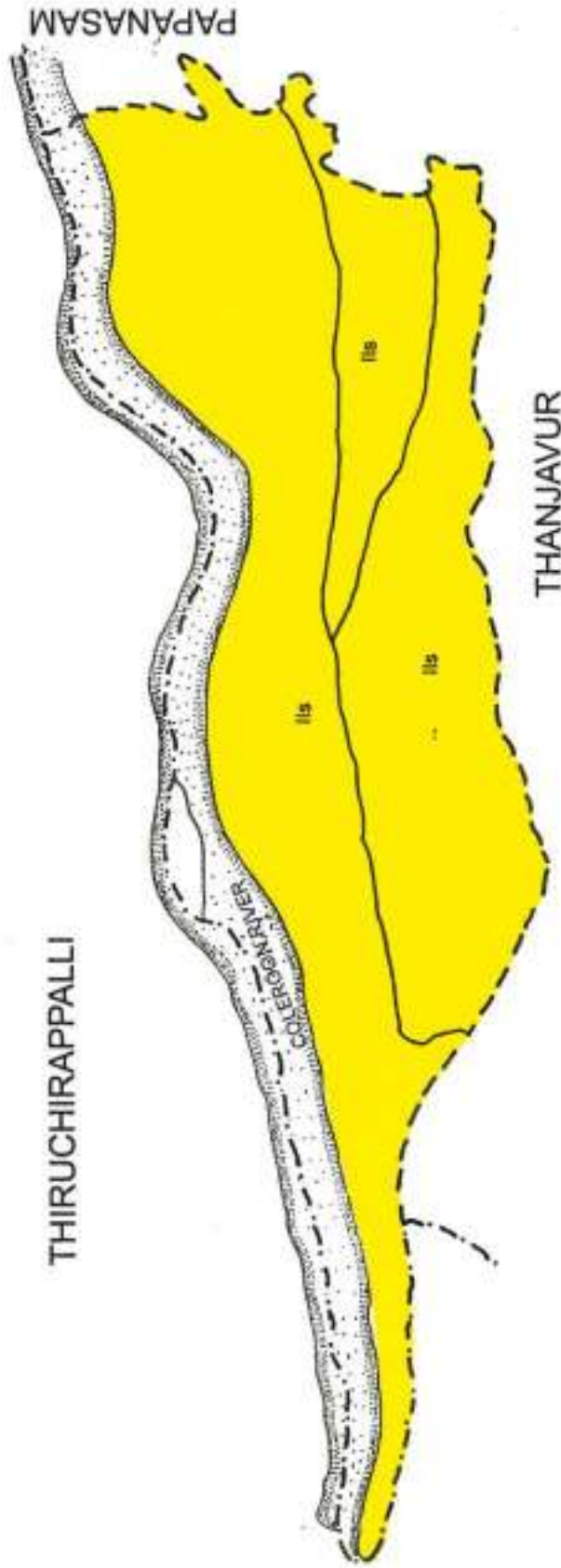
THIRUVAIYARU TALUK

Sl. No.	Soil series	Class , sub - class	Extent (ha)	% to total	Soil limitations	Special needs
1.	Padugai	II s - Lands that have moderate limitations for sustained use under cultivation.	14,002	49.11	Surface run off	Conservation irrigation methods.
2.	Kalathur	II s - -do-	10,523	36.91	Heavy texture, drainage & salinity or alkalinity.	Drainage improvement, soil breeding & liberal addition of organics.
3.	Adhanur	II s - -do-	3,986	13.98	Heavy texture	Drainage improvement.
Total			28,511	100.00		



LAND CAPABILITY

THIRUVAIYARU TALUK



LEGEND
CLASS

 II - Moderate limitation

Subclass

s - soil limitation

LAND IRRIGABILITY CLASSIFICATION

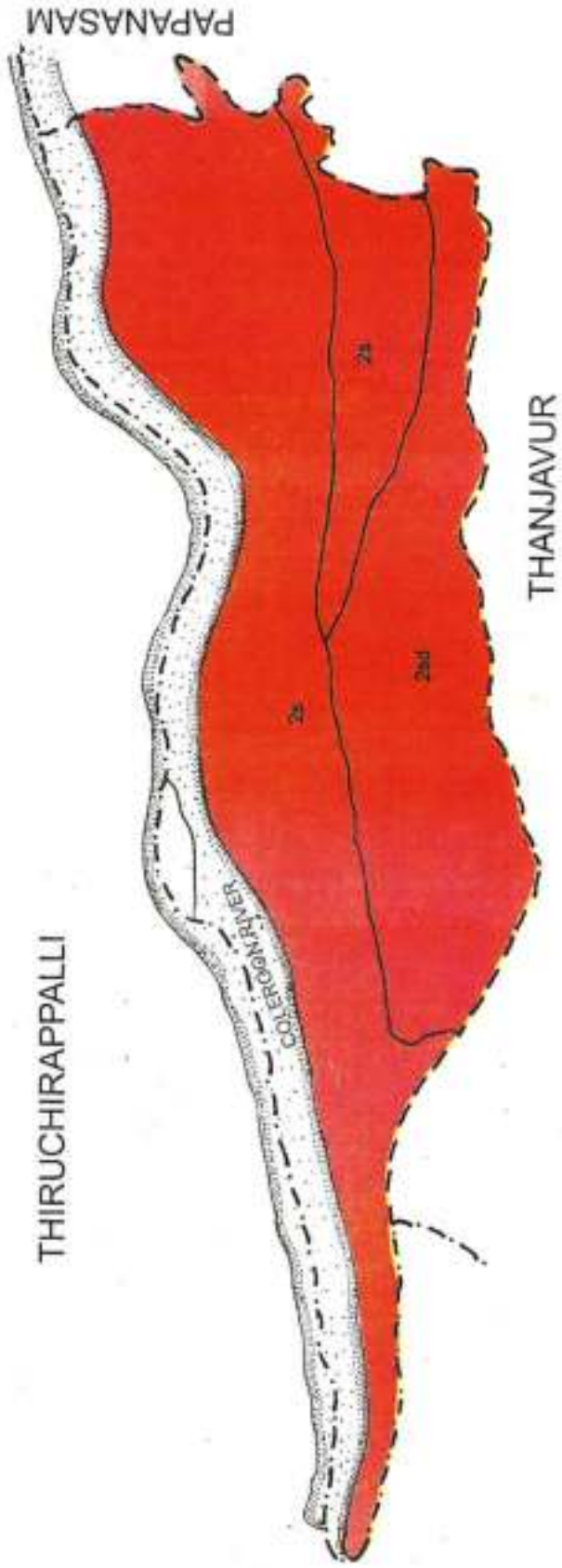
THIRUVAIYARU TALUK

Sl. No.	Soil series	Class, sub - class	Extent (ha)	% to total	Soil limitations
1.	Padugai	2 s -Lands that have moderate limitation for sustained use under irrigation.	14,002	49.11	Topography & erosion.
2.	Adhanur	2s - -do-	3,986	13.98	Drainage, permeability.
3.	Kalathur	2s - -do-	10,523	36.91	Drainage, permeability, salinity / alkalinity.
Total			28,511	100.00	



LAND IRRIGABILITY

THIRUVAIYARU TALUK



LEGEND

CLASS

 2 - Moderate limitation

Subclass

s - soil limitation

d - drainage limitation

SOIL PRODUCTIVITY

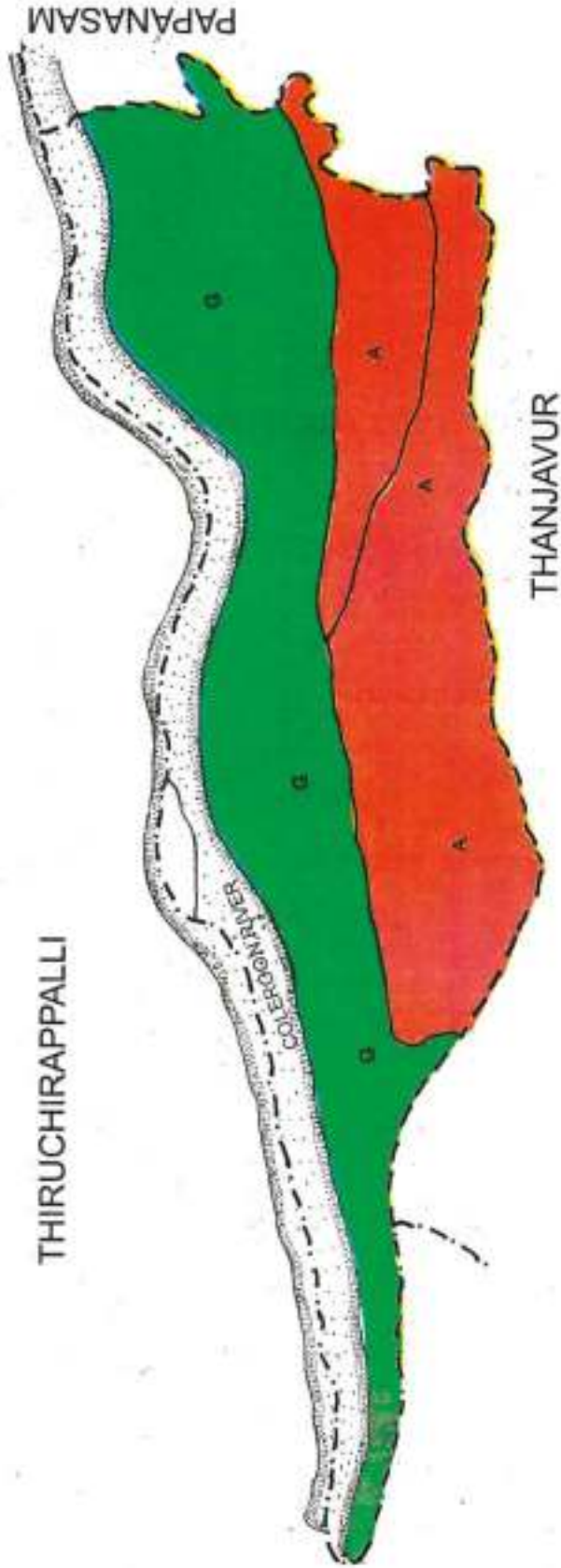
THIRUVAIYARU TALUK

Sl. No.	Rating	Productivity classes	Soil series	Extent (ha)	% to total
1.	20 - 34	Average (A)	Kalathur & Adhanur	14,509	50.89
2.	35 - 64	Good (G)	Padugai	14,002	49.11
Total				28,511	100.00




SOIL PRODUCTIVITY

THIRUVAIYARU TALUK



LEGEND

 GOOD (G)

 AVERAGE (A)

CROPS GROWN

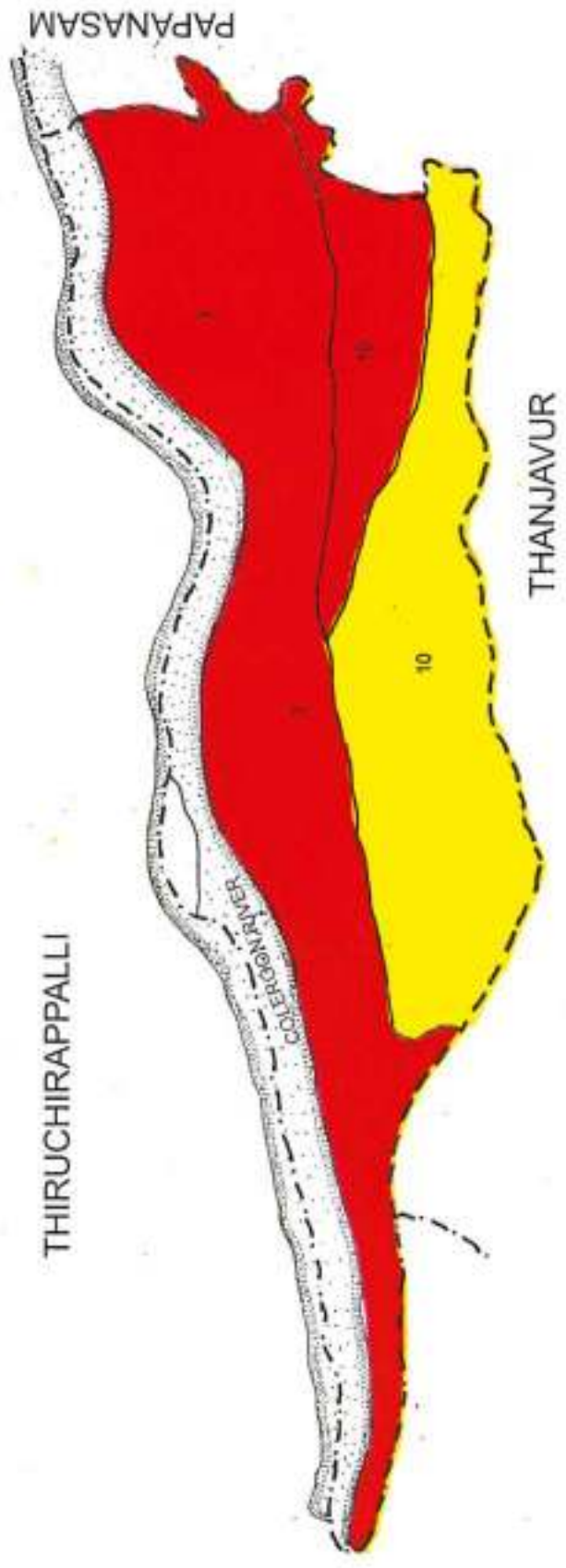
THIRUVAIYARU TALUK

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



CROPS GROWN

THIRUVAIYARU TALUK



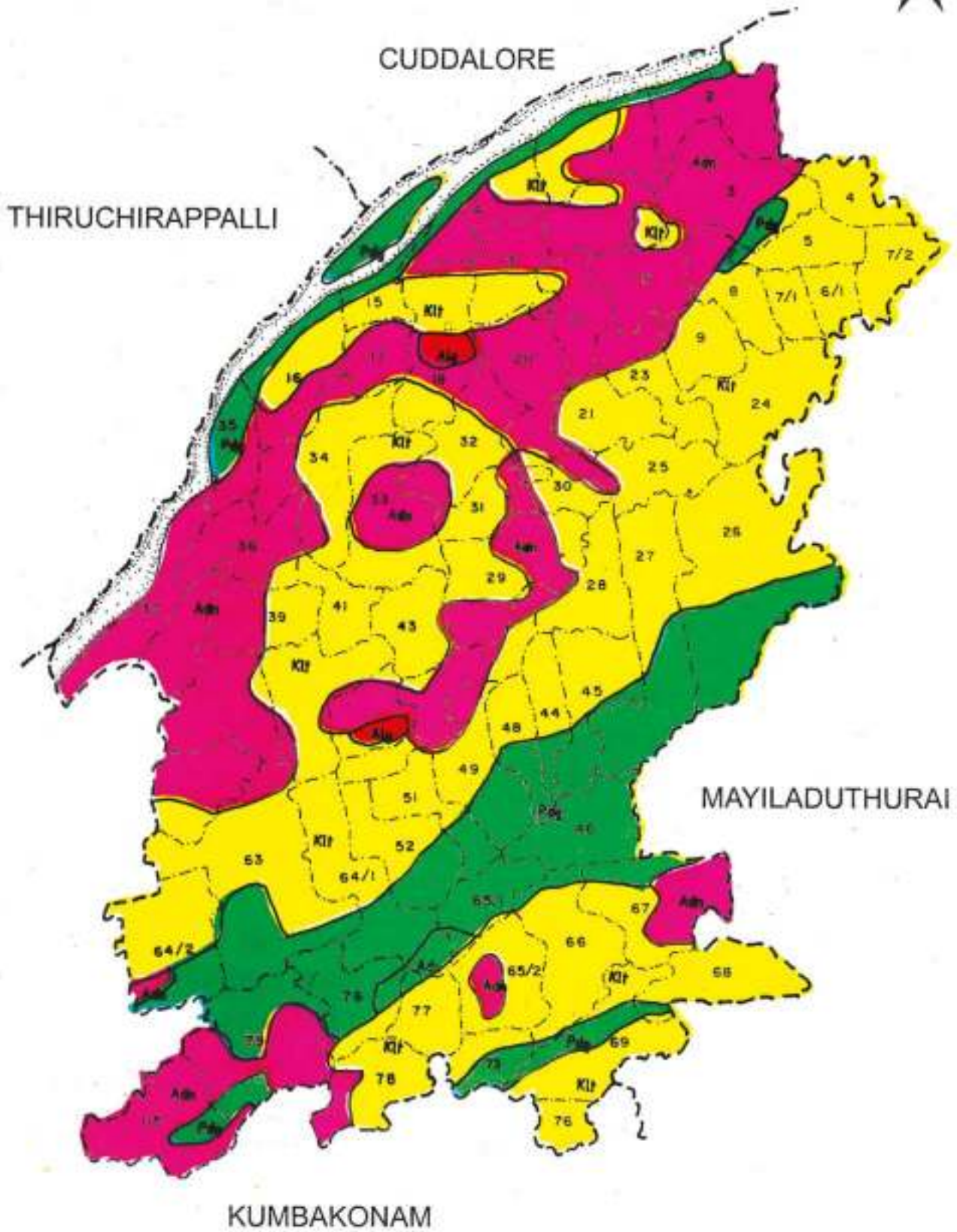
SOILS

THIRUVIDAIMARUDHUR TALUK

S. No.	Soil series	Extent (ha)	% to total
1.	Kalathur (Kit)	13,051	47.97
2.	Adhanur (Adn)	8,862	32.57
3.	Padugai (Pdg)	4,968	18.26
4.	Alangudi (Alg)	324	1.20
Total		27,205	100.00

SOILS

THIRUVIDAIMARUDHUR TALUK



**REVENUE VILLAGE WISE SOIL DISTRIBUTION
THIRUVIDAIMARUDHUR TALUK**

THANJAVUR DISTRICT

Sl. No.	Village No.	Village name	Soils distribution (%)
1. Pandanallur firka			
1.	1	Kulasekaranallur	Adn 60, Klt 40
2.	2	Sarafogirajapuram	Adn 80, Pdg 20
3.	3	Marathurai	Adn 65, Klt 25, Pdg 10
4.	4	Neivasal	Klt 95, Adn 5
5.	5	Sayanapuram	Klt 95, Pdg 5
6.	6	Vannikkudi	Klt 100
7.	7	Thirumangaicheri	Klt 100
8.	8	Neikkuppai	Klt 80, Adn 15, Pdg 5
9.	10	Pandanallur	Adn 90, Klt 10
10.	11	Irumoolai	Adn 75, Klt 25
11.	12	Kavanoor	Adn 90, Klt 10
12.	13	Koveilramapuram	Klt 55, Adn 45
13.	14	Mullangudi	Pdg 40, Klt 15 Adn 45,
14.	18	Kurichi	Klt 55, Adn 20, Alg 25
15.	19	Melakkattur	Adn 100
16.	20	Athipakkam	Adn 95, Klt 5
17.	203	Thittacheri	Klt 50, Pdg 50
2. Thiruppanandal firka			
18.	15	Vinayakantheru	Klt 55, Pdg 45
19.	16	Ukkarai	Klt 45, Adn 35, Pdg 20
20.	17	Chidambaranathapuram	Adn 90, Klt 10s
21.	32	Kondasamudram	Klt 70, Adn 30
22.	33	Sikkalnaikanpettai	Klt 60, Adn 40
23.	34	Thiruppanadal (west)	Klt 30, Adn 20
24.	34	Thiruppanadal (East)	Klt 80, Adn 20
25.	34 - 4	Pattam	Klt 85, Adn 15

Sl. No.	Village No.	Village name	Soil distribution (%)
26.	36	Veerakan	Adn 80, Klt 20
27.	41	Kattanagaram	Klt 100
28.	43	Manikkudi	Klt 90, Adn 10
29.	53	Sathanoor	Adn 50, Klt 30, Alg 20,
30.	54	Narikkudi	Adn 90, Alt 10
31.	55	Puthur	Adn 90, Klt 10
3. Kathiramangalam firka			
32.	9	Karuppur	Klt 100
33.	21	Serukudi	Klt 80, Adn 20
34.	23	Keezhemathur	Klt 70, Adn 30
35.	24	Velur	Klt 100
36.	25	Aralore	Klt 90, Adn 10
37.	26	Mullukudi	Klt 90, Adn 10
38.	26-1	Konathalapadi	Klt 90, Adn 10
39.	27-1	Koothanoor	Klt 45, Pdg 55
40.	27-1	Thirukkodikkaval	Adn 100
41.	27--2	Maharajapuram	Adn 100
42.	27-3	Baskararajapuram	Pdg 55, Klt 45
43.	28	Keelasuriyamoolai	Klt 100
44.	29	Thiruloki	Klt 45, Adn 55
45.	29-1	Sivapurani	Klt 45, Adn 55
46.	30	Keezhamanakkudi	Klt 80, Adn 20
47.	31	Kannarakkudi	Klt 75, Adn 25
48.	44	Sooriyamoolai	Adn 60, Klt 40
49.	204	Kathiramangalam	Pdg 100
4. Aduthurai firka			
50.	45	Thugili	Klt 80, Pdg 20
51.	46	Narasingampettai	Pdg 100
52.	47	Kottur	Klt 75, Pdg 25
53.	48	Kanjanoor	Klt 65, Adn 35
54.	49	Manaloore	Klt 75, Adn 25
55.	50	Thirumanthurai	Klt 100
56.	51	Sooriyanarkoil	Klt 60, Pdg 40
57.	52	Thirumangalakkudi	Pdg 55, Klt 45

Sl. No.	Village No.	Village name	Soil distribution (%)
58.	65	Marudhuvakkudi - 1	Klt 70, Adn 30
59.	65	Marudhuvakkudi - 2	Klt 70, Adn 30
60.	66	Manjamalli	Klt 85, Pdg 15
61.	67	Sathanoor	Adn 35, Klt 45, Pdg 20
62.	68	S.Pudur	Klt 90, Pdg 10
63.	69	Melaiyur	Klt 80, Pdg 20
64.	76	Thiruneelakkudi	Pdg 55, Klt 45
65.	63	Veppathur/1	Klt 60, Adn 10, Pdg 30
66.	63	Veppathur/2	
67.	63/1	Bhagavathapuram	
68.	64	Paruthikkudi	Klt 50, Pdg 40, Adn 10
69.	64 - 1	Thiruvialoor	Klt 60, Pdg 40
70.	65 - 1	Govindapuram	Pdg 90, Adn 10
71.	76 - 1	Govindapuram	Pdg 90, Adn 10
72.	77 - 1	Govindapuram	Pdg 90, Adn 10
73.	76	Viswanathapuram	Pdg 60, Klt 25, Adn 15
74.	76 - 1	Nadukkaveripadugai thottam	Pdg 100
75.	77	Mahadhanapuram	Klt 90, Adn 10
76.	77 - 2	Izhuppanithottam	Pdg 100
77.	77 - 3	Jambaha Thottam	Pdg 100
78.	77 - 4	Manickanachi thottam	Pdg 100
79.	77 - 5	Puduthopputhottam	Pdg 100
80.	77 - 6	Santhaivelithottam	Pdg 100
81.	77 - 7	Sengazhuneerodaithotta	Pdg 100
82.	77 - 8	Thondarampettai Thottam	Pdg 100
83.	78	Muthur	Pdg 100
84.	79	Thiravidaimaruthur	Pdg 60, Avn 40
85.	79 - 1	Thirupuvanam	Pdg 90, Adn 10
86.	81 - 1	Thirupuvanam	Pdg 90, Adn 10
87.	115	Thepperumanallur	Adn 80, Pdg 20
88.	205	T.Pandaravadai	Klt 60, Pdg 30, Adn 10

**FERTILITY INDICES FOR THE VILLAGES IN
THIRUVIDAIMARUDHUR TALUK
THANJAVUR DISTRICT**

Sl. No.	Village No.	Village name	Fertility indices (Kg / ac)		
			N	P ₂ O ₅	K ₂ O
1.	46	Narasingampettai	88	104	197
2.	47	Kottur	49	91	309
3.	52	Thirumangalakudi	57	19	172
4.	65	Maruthuvakkudi	49	37	192
5.	66	Manjamalli	49	135	468
6.	67	Sathanur	49	49	188
7.	69	Melaiyur	49	48	262
8.	76	Thiruneelakudi	57	69	115
9.	64	Paruthikkudi	53	85	600
10.	65 - 1	Govindapuram	81	36	367
11.	76	Viswanathapuram	65	203	238
12.	77	Mahadhanapuram	53	96	108
13.	79	Thiruvudaimaruthur	57	36	186
14.	81 / 1	Thirupuvanam	61	85	102
15.	115	Thepperumanallur	61	91	130
16.	7	Thirumangaicheri	49	76	189
17.	10	Pandanallur	57	87	290
18.	20	Athipakkam	57	136	81
19.	16	Ukkarai	57	53	195
20.	32	Kondasamudram	49	214	99
21.	34	Thiruppanandal (West)	49	52	100
22.	36	Veerakan	57	137	65
23.	41	Kattanagaram	49	92	178
24.	43	Manikkudi	57	59	307
25.	53	Sathanur	49	49	188
26.	54	Narikkudi	49	58	198
27.	24	Velur	49	103	120
28.	25	Aralore	49	68	113
29.	26/1	Konathalapadi	60	137	145
30.	27/1	Thirukkodikaval	62	93	260
31.	27/3	Baskararajapuram	57	230	591
32.	29	Thiruloki	57	10	82
33.	31	Kannarakudi	49	114	122
34.	44	Soriyamoolai	50	44	215
35.	204	Kathiramangalam	57	110	98
36.	45	Thugili	49	46	263

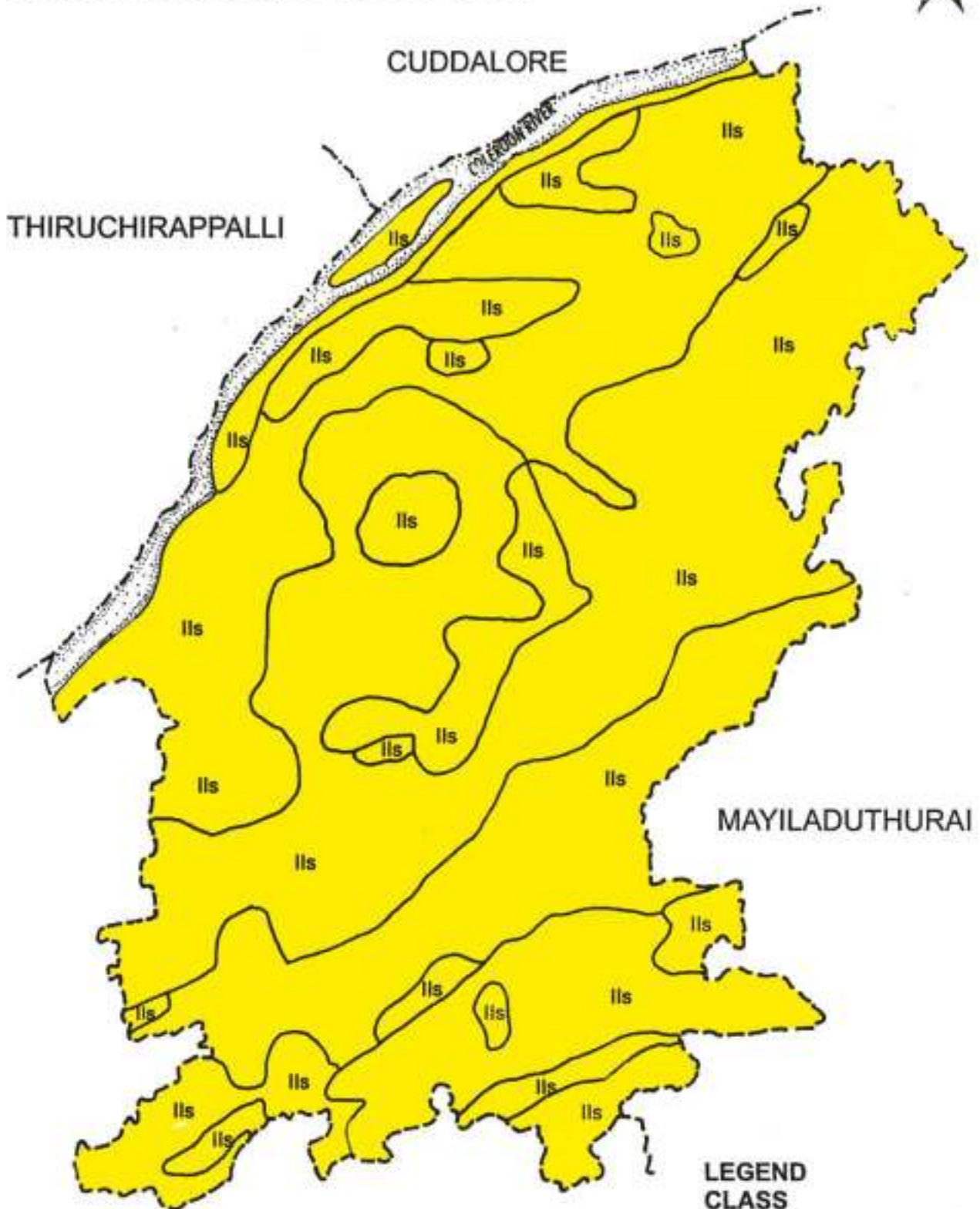
LAND CAPABILITY CLASSIFICATION

THIRUVIDAIMARUDHUR TALUK

S. No.	Soil series	Class, sub - class	Extent (ha)	% to total	Soil limitations	Special needs
1.	Kalathur & Alangudi	II s - Lands that have moderate limitation for sustained use under cultivation.	13,375	49.17	Heavy texture, salinity / alkalinity.	Drainage improvement, soil breeding & liberal addition of organics.
2.	Adhanur	II s -do-	8,862	32.57	Heavy texture	Drainage improvement
3.	Padugai	II s -do-	4,968	18.26	Surface run off	Conservation irrigation methods.
Total			27,205	100.00		

LAND CAPABILITY

THIRUVIDAIMARUDHUR TALUK



LEGEND

CLASS

 II - Moderate limitation

Subclass
s - soil limitation

KUMBAKONAM

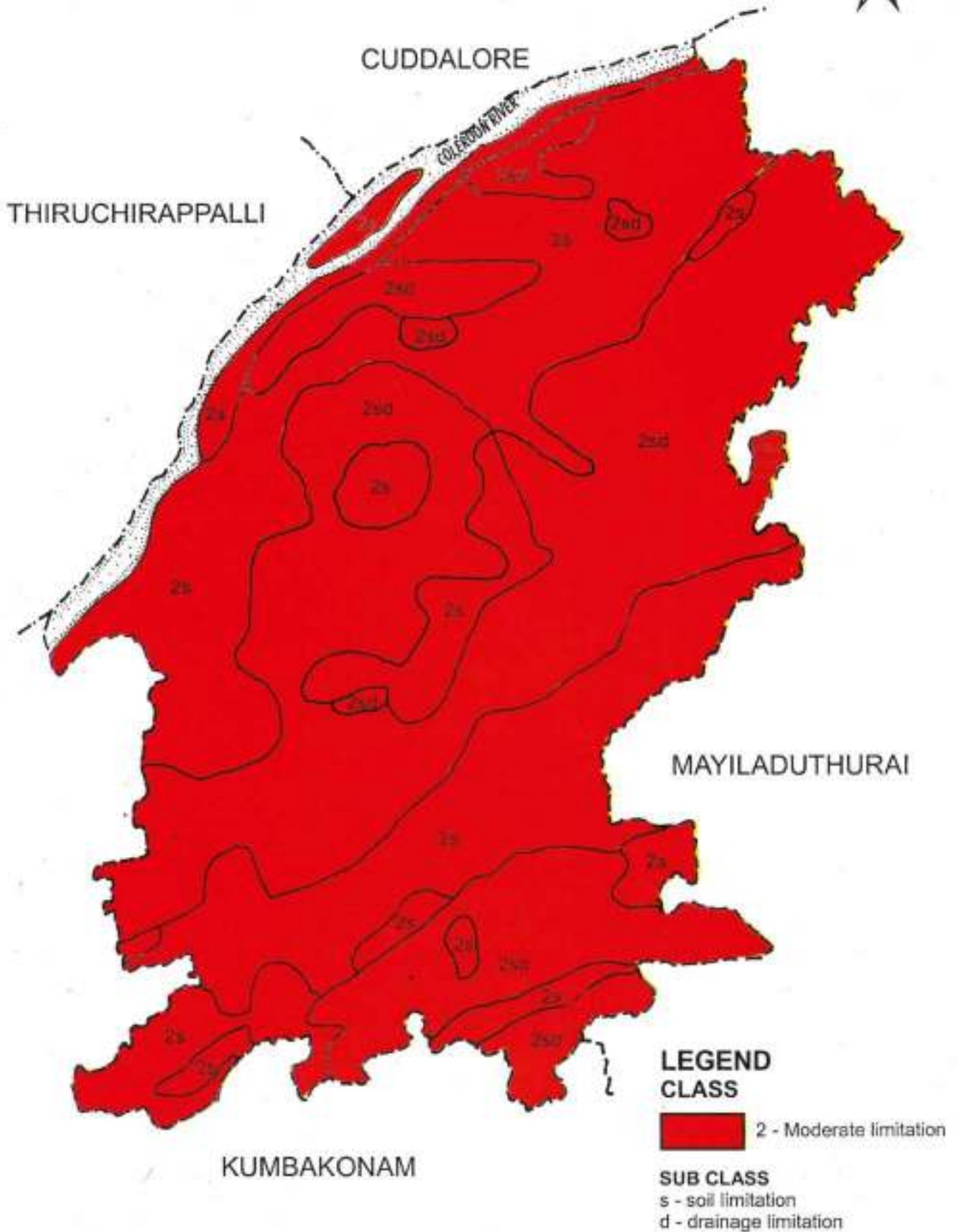
LAND IRRIGABILITY CLASSIFICATION

THIRUVIDAIMARUDHUR TALUK

Sl. No.	Soil series	Class, sub class	Extent (ha)	% to total	Soil limitations
1.	Kalathur & Alangudi	2sd - Lands that have moderate limitations for sustained use under irrigation.	13,375	49.17	Drainage, texture, permeability & salinity / alkalinity.
2.	Adhanur	2s - -do	8,862	32.57	Drainage & permeability.
3.	Padugai	2s - -do-	4,968	18.26	Topography and erosion.
Total			27,205	100.00	

LAND IRRIGABILITY

THIRUVIDAIMARUDHUR TALUK



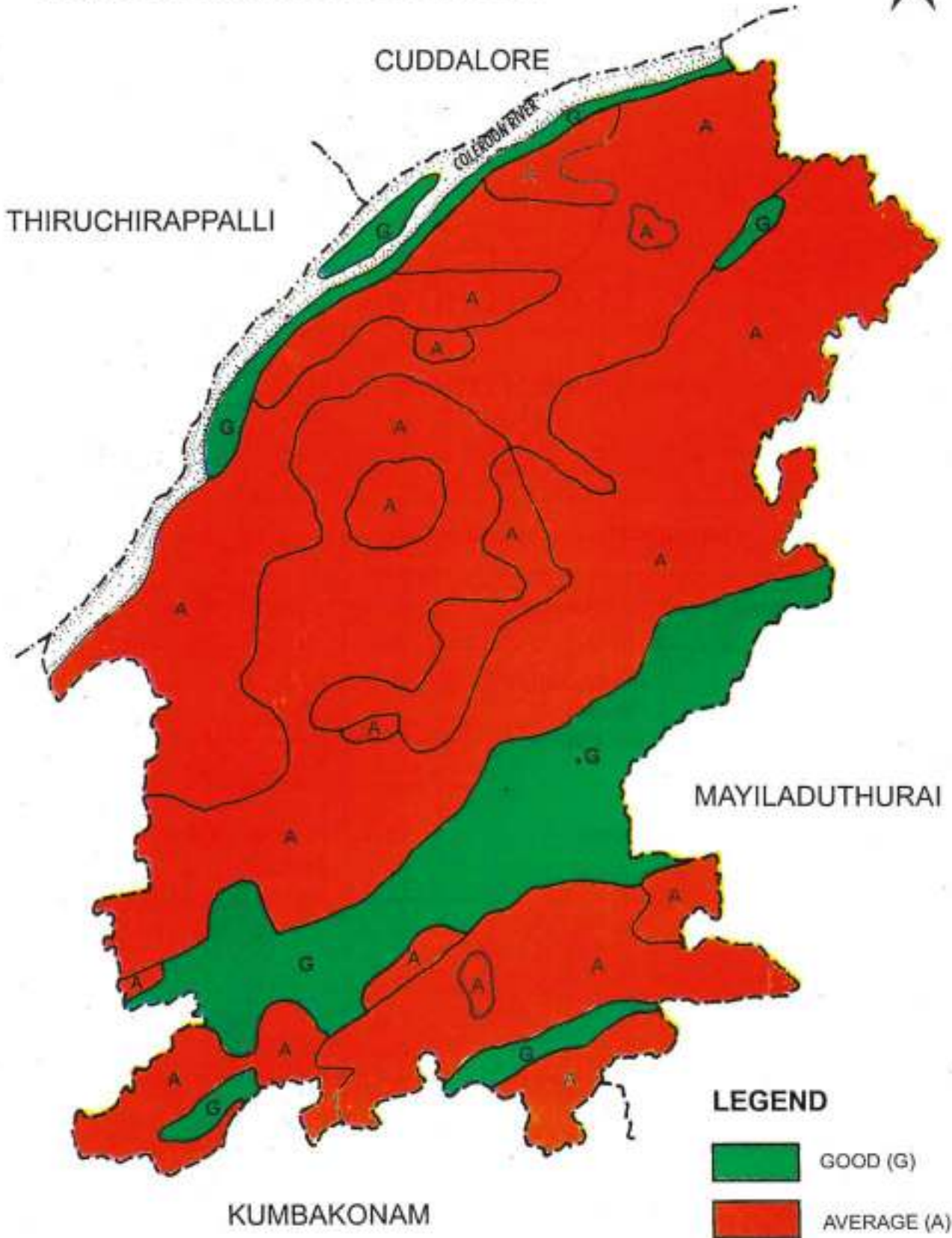
SOIL PRODUCTIVITY

THIRUVIDAIMARUDHUR TALUK

Sl. No.	Rating	Productivity classes	Soil series	Extent (ha)	% to total
1	20-34	Average (A)	Kalathur, Adhanur & Alangudi	22,237	81.74
2	35-64	Good (G)	Padugai	4,868	18.26
Total				27,205	100.00

SOIL PRODUCTIVITY

THIRUVIDAIMARUDHUR TALUK



CROPS GROWN

THIRUVIDAIMARUDHUR TALUK

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

