

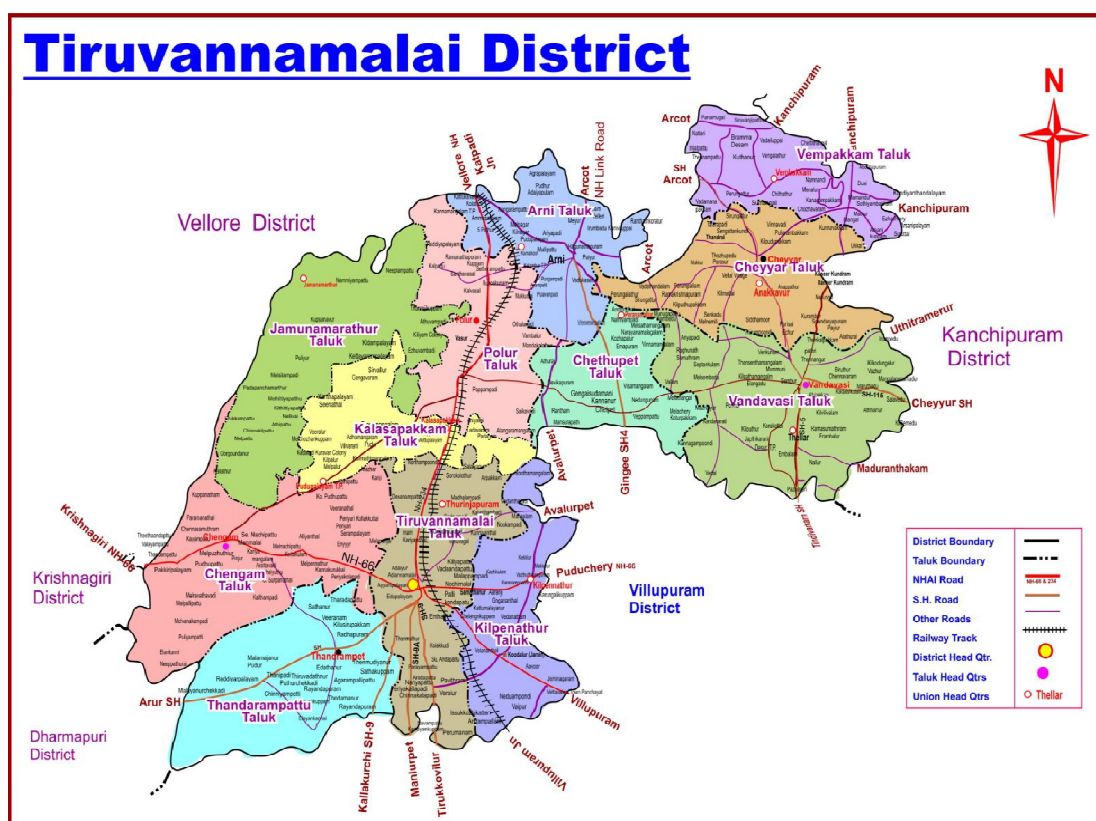
DISTRICT PROFILE

1. Name of the District : Thiruvannamalai, TamilNadu
2. Geographical Position :

North Latitude Between : $11^{\circ} 55'$ and $13^{\circ} 15'$ N

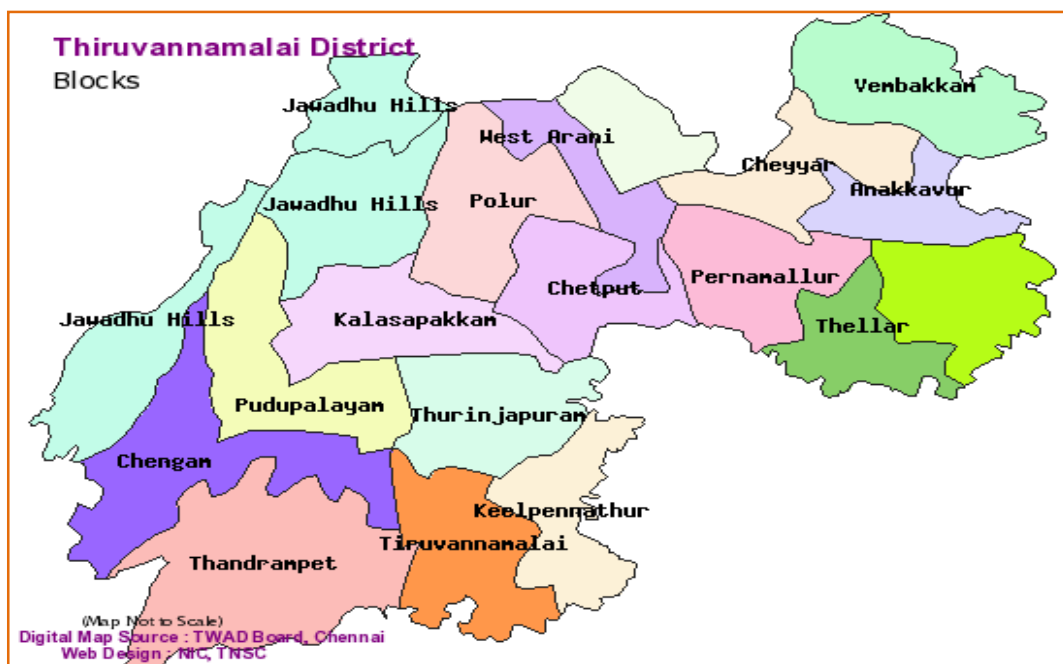
East Longitude Between : $78^{\circ} 20'$ and $79^{\circ} 50'$ E

DISTRICT MAP



3. Total area : 6188 Sq. Km
4. Total Geographical area as village : 631205 Ha.
5. District Headquarters name : Thiruvannamalai
6. No. Taluk details : 12
7. No. of Revenue Division : 3
8. Revenue Firkas : 54
9. No. of Block : 18
10. No. of Municipalities : 4
11. No. of Village panchayats : 860
12. No. of Revenue villages : 1067

Block Map



13. Details of Taluk, Blocks and Villages

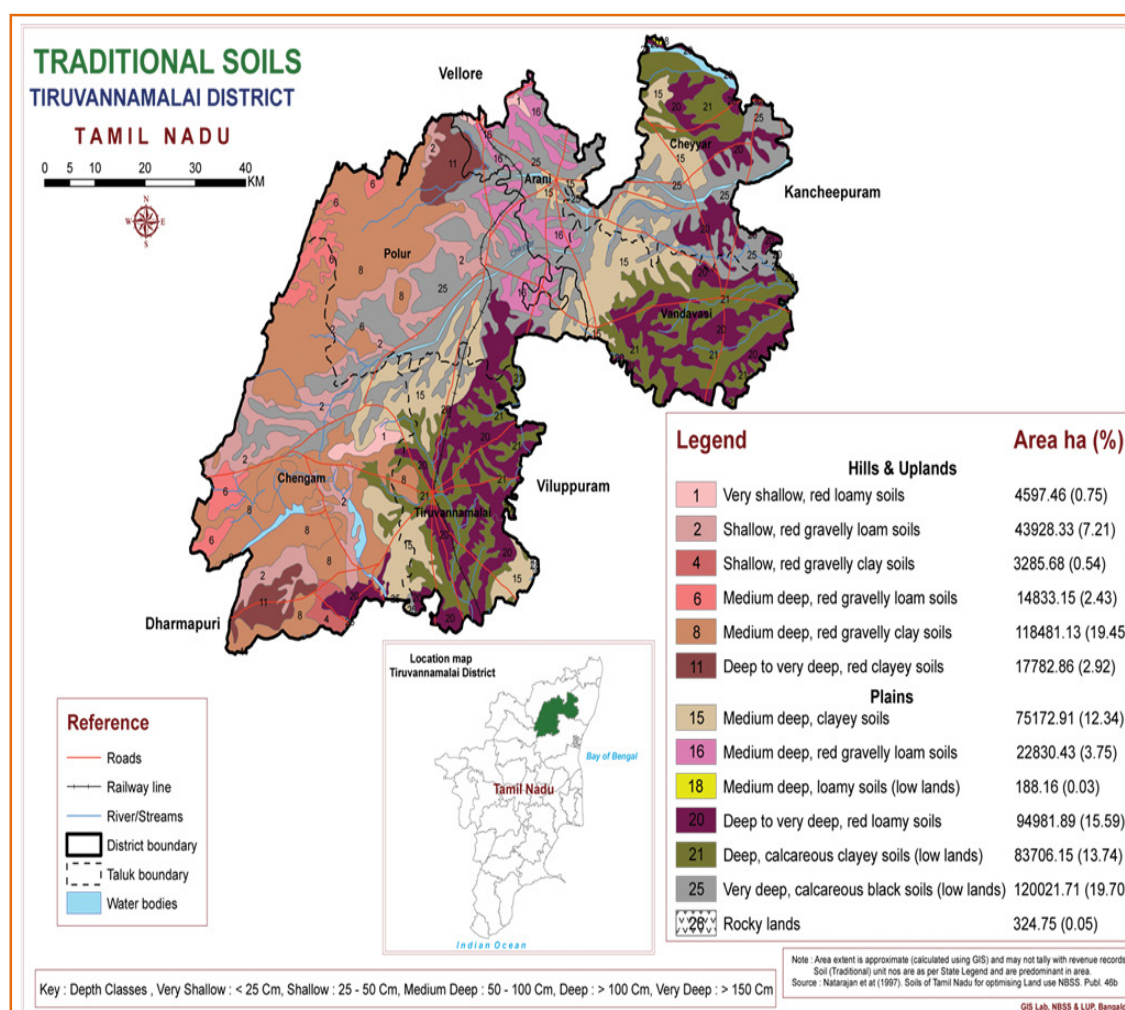
S. No	Name of the taluk	Name of Blocks covered	Revenue Firkas	No. of Village Panchayat	No. of Revenue villages	Area covered (Sq.Km)
1	Thiruvannamalai	Thiruvannamalai	7	69	89	327.98
		Thuringapuram		47	60	284.50
2	Kilpennathur	Kilpennathur	3	45	64	276.30
3	Thandarampattu	Thandarampattu	3	47	61	531.00
4	Chengam	Chengam	5	44	61	598.53
		Pudupalayam		37	43	352.75
5	Kalasapakkam	Kalasapakkam	3	45	49	221.86
6	Polur	Polur	5	40	56	279.00
7	Jamunamarathur	Jawathu hills	2	11	38	150.72
8	Chetpet	Chetpet	4	49	63	246.00
9	Arni	Arani	5	38	28	219.32
		West Arani		37	26	200.95
10	Vandavasi	Vandavasi	8	61	71	301.00
		Thellar		61	69	301.00
		Peranamallur		57	67	281.72
11	Cheyyar	Cheyyar	5	53	70	260.00
		Anakavur		55	61	260.42
12	Vembakkam	Vembakkam	4	64	91	331.16
				860	1067	-

14. Soil

The red loamy soil is predominantly found here. However Polur taluk has concentration of red series loam. The district has also different types of soils such as ferruginous loamy and sandy loamy however black series loam is found in tanks and river beds of Cheyyar and Vandavasi Taluks.

Sl.No.	Type of Soil	Places in District
1.	Red Loam	Small patches in the Taluks of Tiruvannmalai, Chengam and Polur
3.	Black Soil	Tiruvannamalai, Chengam, Polur, Arni, Cheyyar and Vandawasi
2.	Laterite Soil	Nil
4.	Sandy Coastal Alluvium	Nil
5.	Red Sandy Soil	Nil

Soil Map



District Soil Resource Map

S. No	Name of the block	Soil type	Major nutrients which are deficient	Micro-nutrients which are deficient
1	Thiruvannamalai	Sandy clay loam, Reddish brown clay loam	Nitrogen	Zinc
2	Keelpennathur	Sandy clay loam, Grayish brown clay	Nitrogen	Zinc, Ferrous
3	Thurinjapuram	Sandy clay loam, Grayish brown clay	Nitrogen	Zinc, Ferrous
4	Thandarampattu	Yellowish brown sandy loam, Gravelly sandy Loam.	Nitrogen	Zinc, Ferrous
5	Jawathu hills	-	-	-
6	Chengam	Yellowish brown sandy loam, Sandy clay loam	Nitrogen	Zinc, Ferrous
7	Pudupalayam	Yellowish brown sandy clay loam, Grayish brown clay	Nitrogen	Zinc, Ferrous
8	Kalasapakkam	Yellowish brown sandy loam, Silty clay, Sandy clay loam.	Nitrogen	Zinc, Ferrous
9	Chetpet	Sandy clay loam, Yellowish red sandy clay.	Nitrogen	Zinc
10	Polur	Grayish brown silty clay loam, Sandy clay loam, Silty clay.	Nitrogen	Zinc, Ferrous
11	Arni	Brown sandy clay loam, Grayish brown silty clay loam	Nitrogen	Zinc, Ferrous
12	West Arni	Brown sandy clay loam, Yellowish red sandy clay, Silty clay	Nitrogen	Zinc
13	Cheyyar	Sandy clay loam, Yellowish gray sandy clay loam.	Nitrogen	Zinc, Ferrous
14	Vembakkam	Yellowish brown sandy clay, Sandy clay loam, Silty clay	Nitrogen	Zinc, Ferrous
15	Anakavoor	Sandy clay loam, Silty clay, Yellowish sandy clay loam	Nitrogen	Zinc, Ferrous
16	Vandavasi	Loamy sand, Sandy clay loam.	Nitrogen	Zinc, Ferrous
17	Thellar	Loamy sand, Sandy clay loam, Yellowish brown sandy clay,	Nitrogen	Zinc, Ferrous
18	Pernamallur	Yellowish brown sandy loam, Loamy sand.	Nitrogen	Zinc

15. Climate and Rainfall

The general climate is tropical. The district receives rainfall from North East and South West monsoons. The Average rainfall is 1040 mm. The total rainfall during 2019-20 districts is 1039.60 mm.

Weather data

Month	Rainfall (mm)	Temperature ° C		Relative Humidity (%)
		Maximum	Minimum	
January 2021	5.70	27.50	20.50	61.10
February	3.00	30.10	23.40	61.25
March	2.30	35.30	25.00	48.00
April	1.80	33.40	27.00	50.70
May	0.00	34.20	27.40	67.50
June	186.4	35.20	28.00	53.80
July	142.3	33.40	27.70	50.70
August	132.1	34.20	27.30	67.50
September	166.7	33.30	26.60	34.20
October	141.70	30.30	24.20	69.60
November	135.30	28.50	22.50	73.30
December	117.20	28.10	22.10	69.20
Average/Total	1034.0	31.96	25.14	58.90

16. Demographic details

Area in Sq.Km	6188		
Density (Persons.Sq.km)	398		
Population Details	Male	Female	Total
Rural population	989726	980204	1969930
Urban Population	246163	248782	494945
Total Population	1235889	1228986	2464875
District Total Population	2464875		
Scheduled caste Population (SC)			
Rural population	247457	246468	493925
Urban Population	35158	36246	71404
Total SC Population	282615	282714	565329
District Total SC Population	565329		
Scheduled Tribes Population (ST)			
Rural population	43864	42911	86775
Urban Population	2092	2087	4179
Total ST Population	45956	44998	90954
District Total ST Population	90954		
Sex ratio (No. of female per 1000 males)	Male	Female	

Rural	993	990	1983
Urban	1000	1011	2011
Total	996	994	3994
Literacy (%) - General	Population	Rural	Urban
Male	1235889	62.05	78.13
Female	1228986	84.41	81.81
Total	2464875	81.18	-
Literacy (%) - SC			
Rural - Male	247457	78.71	-
Rural - Female	246468	61.49	-
Urban - Male	35158	87.76	-
Urban - Female	36246	73.40	-
Total	565329	-	-
Literacy (%) - ST			
Rural - Male	43864	55.64	-
Rural - Female	42911	36.92	-
Urban - Male	2092	63.82	-
Urban - Female	2087	50.08	-
Total	90954	-	-
Total Workers (Main and Marginal)	Persons	Ratio	
Male	738995	59.79	-
Female	499182	40.62	-
Total	1238177	50.23	-
Main workers			
Male	619210	50.10	-
Female	350862	28.55	-
Total	970072	39.36	-
Marginal workers			
Male	119785	9.69	-
Female	148320	12.07	-
Total	268105	10.88	-
Non-workers			
Male	496894	40.21	-
Female	729804	59.38	-
Total	1226698	49.77	-
Cultivators			
Male	175149	24.80	-
Female	90034	18.48	-
Total	265183	21.41	-
Agricultural labours			
Male	144758	19.59	-
Female	206552	36.68	-
Total	351310	28.37	-

Workers in household industries			
Male	21870	2.99	-
Female	15150	3.03	-
Total	37020	2.99	-
Other workers			
Male	244233	33.04	-
Female	72326	14.49	-
Total	316559	25.57	-

17. Other Demographic details

k)	Average labour wages for farm operations (Rs./manday of seven to nine hours)	Skilled job	Unskilled job
	Peak seasons		
	Male	98.14	76.47
	Female	43.71	35.83
	Lean seasons		
	Male	98.14	76.47
	Female	43.71	35.83
	Average labour wages for farm operations (Rs./manday of five to six hours)	Skilled job	Unskilled job
	Peak seasons		
	Male	98.14	76.47
	Female	43.71	35.83
	Lean seasons		
	Male	98.14	76.47
	Female	43.71	35.83
vi)	Major languages spoken in the district	Tamil	
vii)	Details on Birth-Death Rate (per 1000 population)		
	Birth Rate	13.4	
	Death Rate	5.6	
	Infant Mortality Rate	13.9	
	Expectation of life in years		
	Male	70	
	Female	67	

18. Educational and other infrastructural facilities

S. No	Particulars	Numbers / Values
01	Educational facilities	
a)	Primary School	1443
b)	Middle School	378
c)	High School	278
d)	Higher-Secondary	259
e)	CBSC School	14
f)	Special school (Music & Deaf)	3
g)	Computer centre	79
02	Colleges	
a)	Medical	1
b)	Engineering	10
c)	Agriculture	2
d)	Veterinary / Fisheries	-
e)	Others – Poly techniques	14
f)	ITI	21
g)	Teacher training school including	3
h)	Colleges for Special Education (Nursing)	3
i)	Colleges for Special Education (Pharmacy)	3
03	Number of Arts and Science Colleges	22
04	Institutional Credit Facility	
a)	Name of the Lead Bank	Indian Bank
b)	Number of branches of lead bank in the district	45
c)	Other National Bank	121
d)	Private sector Bank	50
e)	Regional Rural Bank	12
f)	Co-operative Banks	32
g)	District Central Co-operative Banks	1
h)	Urban Banks	4
i)	Primary Agricultural Co-operative Credit Society	157
j)	Housing Co-operative Societies	17
k)	Employees Co-operative Societies	38

l)	Weavers Co-operative Society	28
m)	Industrial Co-operative Society	4
n)	Primary Co-operative Stores	3
o)	Co-operative Sugar mills	1
q)	Other Marketing Society (please specify)	96
05	Agricultural Marketing and Processing	
a)	Number of Regulated Markets	18
b)	Number of Co-operative Marketing Society	7
c)	Number of Permanent Markets / Central Markets	-
d)	Number of weekly markets / shandies	-
e)	Number of drying yards	-
f)	Number of storage godowns	53
g)	Number of cold storage units for agricultural produce	7
h)	Number of agro based / agri-based processing industries	-
i)	Small scale industries	32
ii)	Medium scale industries	28
iii)	Large scale	15
i)	District supply and marketing society for SHG	12
06	No of Primary Health centre	40
	No. of Primary Health Sub Centers	638
	No. of Hospitals (Allopathy)	785
	No. of Ayurvedic	3
	No. of Sidda	42

19. Block wise population details (as per 2011 census)

S. No	Name of the block	Total area in ha	Number of Panchayat	Number of Villages	Urban Total			Rural Total			District Total		
					Total	Male	Female	Total	Male	Female	Total	Male	Female
1	Tiruvannamalai	30,460.25	69	89	163522	81684	81838	162204	81694	80510	325726	163378	162348
2	Thurinjapuram	28,453.80	47	60	0	0	0	123213	61920	61293	123213	61920	61293
3	Kilpennathur	24217.88	45	64	29224	14583	14641	103673	52305	51368	132897	66888	66009
4	Chengam	29,419.41	44	61	26980	13549	13431	142149	71994	70155	169129	85543	83586
5	Pudhupalayam	19,726.01	37	43	11382	5608	5774	89491	45453	44038	100873	51061	49812
6	Thandampet	39,313.26	47	61	0	0	0	178731	89702	89029	178731	89702	89029
7	Polur	26,516.23	40	56	42427	20984	21443	135345	67609	67736	177772	88593	89179
8	Kalasapakkam	22,181.62	45	49	0	0	0	120612	60781	59831	120612	60781	59831
9	Chetpat	23,437.00	49	63	19827	9772	10055	94387	47272	47115	114214	57044	57170
10	Jewadhu hills	13,796.04	11	38	0	0	0	51999	26483	25516	51999	26483	25516
11	Arni	21,784.73	38	28	87419	43150	44269	91174	45611	45563	178593	88761	89832
12	West Arni	19,537.76	37	26	22155	11093	11062	94228	46968	47260	116383	58061	58322
13	Cheyyar	24,439.02	53	70	50291	25050	25241	80616	40370	40246	130907	65420	65487
14	Anakkavur	26,090.30	55	61	0	0	0	79953	40365	39588	79953	40365	39588
15	Vembakkam	32,392.12	64	91	0	0	0	127752	64013	63739	127752	64013	63739
16	Vandawasi	28,890.52	61	71	31320	15566	15754	117072	58637	58435	148392	74203	74189
17	Thellar	29,063.19	61	69	4597	2246	2351	91856	45998	45858	96453	48244	48209
18	Peranamallur	24,419.99	57	67	5801	2878	2923	85475	42551	42924	91276	45429	45847
-	-	464,139.13	860	1067	494945	246163	248782	1969930	989726	980204	2464875	1235889	1228986

20. Block wise SC/ST population details (as per 2011 census)

S. No	Name of the block	Other than SC / ST population			SC / ST population			Total Literacy Rate		
		Total	Male	Female	Total	Male	Female	Total	Male	Female
1	Thiruvannamalai	179905	90686	89219	45605	23086	22519	3784	1892	1892
2	Keelpennathur	104216	52591	51625	27399	13794	13605	2477	1263	1214
3	Thurinjapuram	123213	61920	61293	28031	13938	14093	1662	841	821
4	Thandampattu	178648	89658	88990	41825	20778	21047	17018	8601	8417
5	Jawathu hills	51999	26483	25516	1071	568	503	47081	23952	23129
6	Chengam	142114	71975	70139	50814	25630	25184	2458	1206	1252
7	Pudupalayam	89491	45453	44038	28306	14282	14024	1118	598	520
8	Kalasapakkam	120612	60781	59831	32571	16352	16219	440	224	216
9	Chetpet	94387	47272	47115	11570	5764	5806	364	188	176
10	Polur	135345	67609	67736	27332	13575	13757	476	240	236
11	Arni	115884	57972	57912	25476	12635	12841	521	248	273
12	West Arni	108022	53952	54070	18615	9134	9481	377	184	193
13	Cheyar	94259	47226	47033	26658	13440	13218	1136	562	574
14	Vembakkam	127752	64013	63739	32673	16350	16323	1349	646	703
15	Anakavoor	78799	39786	39013	20848	10571	10277	1289	635	654
16	Vandavasi	110990	55670	55320	34271	17232	17039	2172	1085	1087
17	Thellar	97938	48965	48973	29911	14894	15017	2229	1103	1126
18	Pernamallur	85475	42551	42924	19068	9472	9596	1145	553	592
Total		2039049	1024563	1014486	502044	251495	250549	87096	44021	43075

21. Block wise Literacy details (as per 2011 census)

S. No	Name of the block	Total population	Literacy				Total Literacy Rate (%)			
			SC	ST	Others	Literacy	SC	ST	Others	Literacy
1	Thiruvannamalai	325726	63702	5574	164139	233415	19.56	1.71	59.52	80.79
2	Keelpennathur	132897	33923	3071	52051	89045	25.53	2.31	47.59	75.43
3	Thurinjapuram	123213	28031	1662	49227	78920	22.75	1.35	48.05	72.15
4	Thandampattu	178731	41825	17077	45520	104422	23.4	9.55	33.85	66.8
5	Jawathu hills	51999	1071	47081	27349	20803	2.06	90.54	46.16	46.44
6	Chengam	169129	58670	2552	42341	103563	34.69	1.51	33.59	69.79
7	Pudupalayam	100873	33087	1147	25834	60068	32.8	1.14	33.79	67.73
8	Kalasapakkam	120612	32571	440	43313	76324	27.0	0.36	43.87	71.23
9	Chetpet	114214	13396	530	62976	76902	11.73	0.46	63.27	75.46
10	Polur	177772	31583	526	87730	119839	17.77	0.3	57.47	75.54
11	Arni	178593	32111	766	93631	126508	17.98	0.43	60.71	79.12
12	West Arni	116383	20801	392	60177	81370	17.87	0.34	60.06	78.27
13	Cheyar	130907	31282	1323	58849	91454	23.9	1.01	52.78	77.69
14	Vembakkam	127752	32673	1349	51424	85446	25.58	1.06	48.34	74.98
15	Anakavoor	79953	21068	1313	30880	53261	26.35	1.64	46.07	74.06
16	Vandavasi	148392	40722	2754	57525	101001	27.44	1.86	46.60	75.9
17	Thellar	96453	28876	2198	32049	63123	29.94	2.28	40.13	72.35
18	Pernamallur	91276	19937	1199	40213	61349	21.84	1.31	51.40	74.55
Total		2464875	565329	90954	970530	1626813	22.94	3.69	47.58	74.21

22. Details on operational holdings 2019-20

S. No	Classification category	Category area*	Operational area in ha				% to area	Number of holdings				% to holdings
			SC	ST	Others	Total		SC	ST	Others	Total	
01	Marginal	< 1ha	46453	7310	310247	364010	81.00	16835	3194	114824	134853	46.77
02	Small	1-2 ha	6558	2133	55829	64520	14.36	8925	2972	76514	88411	30.66
03	Small-medium	2-4 ha	1222	873	15748	17843	3.97	3091	2348	41201	46640	16.17
04	Medium	4-10ha	101	209	2534	2844	0.63	541	1145	13614	15300	5.31
05	Large	>10 ha	9	5	158	172	0.04	122	74	2956	3152	1.09
Total		-	54343	10530	384516	449389	100	29514	9733	249109	288356	100

23. Irrigation Resources for 2020

S. No	Particulars	Number	Net area irrigated (ha)	Gross area irrigated (ha)
01	Canals			
	Government	144	1162	1162
	Private	-	-	-
02	Tanks			
	Large	605	33586	37458
	Small	1361	17030	18116
03	Wells			
	Bore wells	5167	4281	8059
	Dug cum bore wells	180862	149197	241915
04	Other major sources if any-Reservoirs	1	-	-

24. Area Production and Productivity of the Major crops in the district

S. No	Crop	Area (ha)	Production (tonnes)	Productivity (kg/ha)
1	Paddy	170608	687000	4027
2	Cumbu	6034	2482	2431
3	Cholam	37	45	1210
4	Ragi	4408	14207	3223
5	Samai	5418	10765	1987
6	Maize	965	5397	5593
7	Blackgram	39830	23699	595
8	Greengram	2136	1179	552
9	Redgram	1643	2083	1268
10	Groundnut	92990	252747	2718
11	Gingelly	2263	1122	496
12	Coconut	746	4898 (Nuts)	6566

13	Sugarcane	11819	305138	93000
14	Turmeric	294	1534	5217
15	Tapioca	1530	64570.6	42203
16	Cotton	282	261620	412
17	Tomato	717	9354.7	13047
18	Brinjal	991	10236.0	10329
19	Bhendi	653	4290.2	6570
20	Chillies	2344	1472	628
21	Banana	3281	112210	34200
22	Mango	405	2217.0	5474
23	Onion	247	0.891	8652
24	Mulberry	600	25.33 (Cocoons)	42.22
25	Others	29370	-	-
Total Cropped area (ha)		379611	-	-

25.1 Crop Area, Production and Productivity details for Horticulture

S. No	Particulars	Normal Area (Ha)	Area (Ha.)	Production (MT)	Productivity (MT/Ha)
1	Fruits	3509.00	4662.90	47701.467	10.23
2	Vegetables	9063.00	11805.00	198324	16.8
3	Flowers	4376.00	4840.00	42398.4	8.76
4	Spices & Condiments	2119.00	2017.00	3751.62	1.86
5	Plantation crops	571.00	654.00	300.84	0.46
6	Medicinal & Aromatic Plants	2924.00	3125.00	26125	8.36

25.2. Major Crops Area, Production and Productivity of Horticultural crops

Sl.No	Crop	Normal Area (Ha)	Area (Ha)	Production (MT)	Productivity (MT/Ha)
1	Banana	1971.00	2685.00	85920	32
2	Mango	1018.00	1334.00	16008	12
3	Tapioca	1970.00	1766.00	38852	22
4	Tomato	389.00	663.00	26520	40
5	Chillies	1445.00	1459.00	26262	18
6	Brinjal	1345.00	1642.00	49260	30
7	Bhendi	1078.00	1401.00	30822	22
8	Water melon	470.00	676.00	16900	25
9	Musk melon	228.00	502.00	13052	26
10	Gourds	552.00	997.00	17946	18
11	Turmeric	345.00	242.00	1936	8
12	Pepper	72.00	94.00	235	2.5
13	Medicinal Coleus	1387.00	1713.00	3768.6	2.2
14	Lemongrass	841.00	426.00	7668	18
15	Palmarosa	437.00	842.00	15156	18
16	Jasmine	1174.00	1250.00	10000	8
17	Tuberose	1905.00	2110.00	29540	14
18	Coconut	431.00	521.00	4168	8

26. Farm Gate Price of major crops

S. No	Crop	Farm Gate Price Rs./Q	Wholesale price Rs./Q	Retail price Rs./Kg.
01	Cereals			
a)	Paddy	708.64	1364.78	13.26
b)	Cholam	918.38	974.30	10.75
c)	Cumbu	735.86	843.05	8.92
d)	Ragi	851.36	910.62	9.46
02	Pulses			
a)	Redgram	2290.13	2945.30	42.60
b)	Blackgram	2919.5	2851.29	40.00
c)	Greengram	3011.96	3346.44	41.25
d)	Horsegram	1395.00	1425.00	14.75
03	Oilseeds			
a)	Groundnut	2269.72	2724.48	32.25
b)	Gingelly	2966.00	3491.45	43.00
04	Vegetables			
a)	Chillies	4084.25	4489.58	60.00
b)	Tomato	687.81	1000.00	17.00
c)	Bhendi	618.06	1150.55	16.25
d)	Brinjal	883.50	1000.00	18.00
05	Fruits			
a)	Banana – 100 Nos	85.53	-	-
06	Commercial including sugar and fibre crops	-	-	-
07	Spices and Plantation Crops	-	-	-
a)	Turmeric	3131.78	-	-
08.	Others pl. specify	-	-	-

27. Livestock and poultry population for 2019-20

Category	Population	Production	Productivity
Cattle			
<i>Crossbred</i>	694856	505260	6.86
<i>Indigenous</i>			
Buffalo	74741	104355	4.30
Sheep			
<i>Crossbred</i>	177712	424140	-
<i>Indigenous</i>			
Goats	248410	341440	-
Pigs			
<i>Crossbred</i>	5361	17200	-
<i>Indigenous</i>			

Rabbits	89	-	-
Poultry			
Hens	242311	8834000	-
<i>Desi</i>			
<i>Improved</i>			
Ducks			
Turkey and others			
Domestic dogs	4545	-	-

28. Block wise details of Livestock and poultry population

S. No	Name of the Block	Cattle		Buffalo	Sheep	Goat	Pig	Total livestock	Poultry
		Bullock	Cow						
1	Thiruvannamalai	9385	10167	7948	20141	43077	3062	53246	0
2	Thurinjapuram	13383	20436	634	8432	5773	40	47701	0
3	Thandarampattu	12684	26981	335	11527	9648	201	60041	11272
4	Keelpennathur	11139	17145	231	8903	5630	30	42081	28000
5	Chengam	38101	39997	537	40826	29244	3218	151015	45721
6	Pudupalayam	11631	45165	1707	19105	5150	1175	53690	575
7	Kalasapakkam	7750	12161	632	1157	15812	177	78632	94500
8	Polur	7250	12161	632	11570	15812	177	78632	94500
9	Jawathu hills	3949	9292	149	2442	7732	60	23636	0
10	Arni	6241	21693	854	28450	27510	850	88588	25765
11	West Arni	5807	21992	658	24350	26860	910	80889	25175
12	Chetpet	5121	18716	58	10375	5224	106	42840	10140
13	Vandavasi	2730	26149	1385	32876	32190	875	99135	29150
14	Thellar	2633	10980	21350	25650	9140	970	62397	21485
15	Pernamallur	5748	27218	1179	30768	29854	910	95677	35780
16	Cheyyar	6180	39238	4079	53642	54120	1410	158669	58250
17	Anakavoor	11631	45165	3549	53685	54923	1275	169228	56750
18	Vembakkam	11278	51119	4079	57245	55706	1452	179879	55910

29. Any other data / information which is relevant to be included may also please be included

i.	No. of hospitals	:	5
ii.	No. of dispensaries	:	123
iii.	Clinician centres	:	1
iv.	Sub centers	:	21
v.	Animal disease investigation unit	:	1
vi.	Mobile Unit	:	3