

AGRICULTURE IN KANNIYAKUMARI

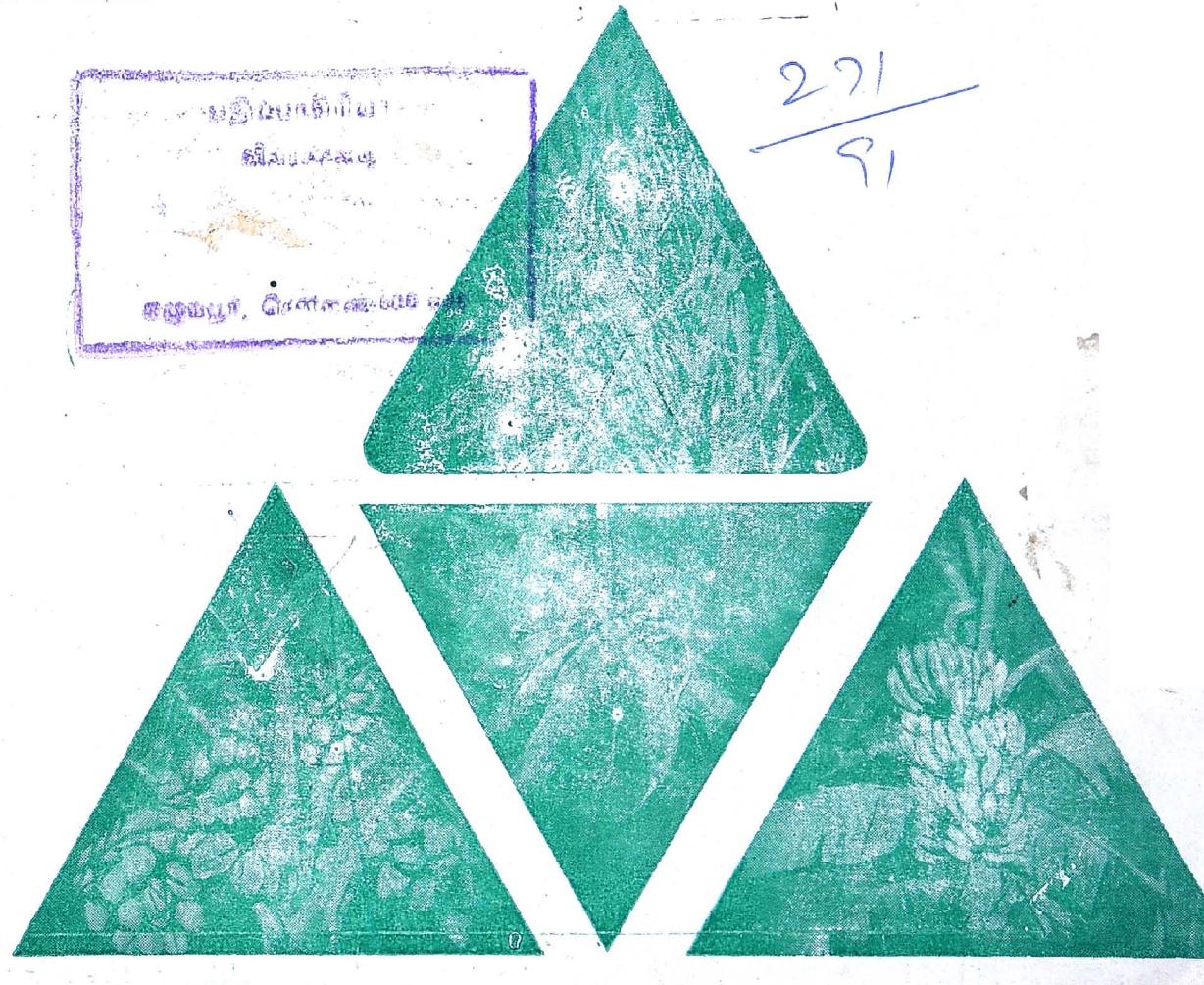
PRODUCTIVITY !

PROFITABILITY !!

AND

PROSPERITY !!!

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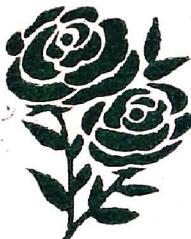


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**HIGHLIGHTS
OF
AGRICULTURE
IN**

**KANNIYAKUMARI
DISTRICT**



பதிப்பாசிரியர்
விவரச்சாலை

ஏழகுடி, திருச்சிமலை-600 002

Chennai
20.4.88
camp.

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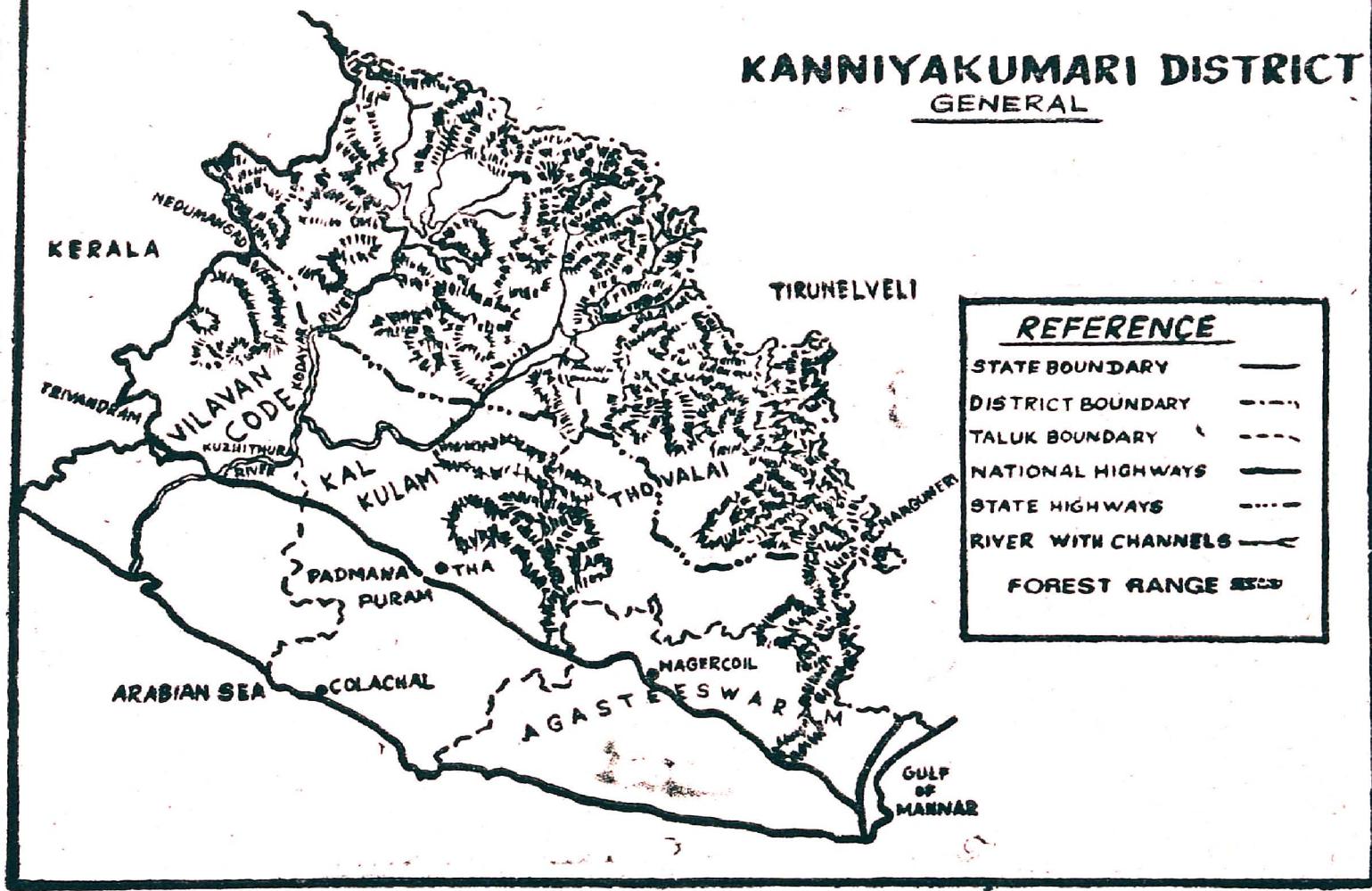
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KANNIYAKUMARI DISTRICT

GENERAL



KANNIYAKUMARI DISTRICT

LOCATION AND GENERAL BOUNDARIES (INTRODUCTION)

Kanniyakumari is the southern most and the smallest district in the state with an area of 845.5 miles (1671.85 Sq. km.). Population as per 1971 census is 14.12 lakhs which shows a density of 845 per Sq. km. The district lies between 77.05 Deg. and 77.36 Deg. of the eastern longitude and 8.03 Deg. and 8.35 Deg. and 8.35 Deg. of the northern latitude.

It is bounded by Tirunelveli district in the north and north east, bordered by Trivandrum district of Keraja State in the north west, patted by the waves Bay of Bengal in the south east, lulled by the Indian ocean in the south and adorned by the silvery coast of the Arabian Sea in the West.

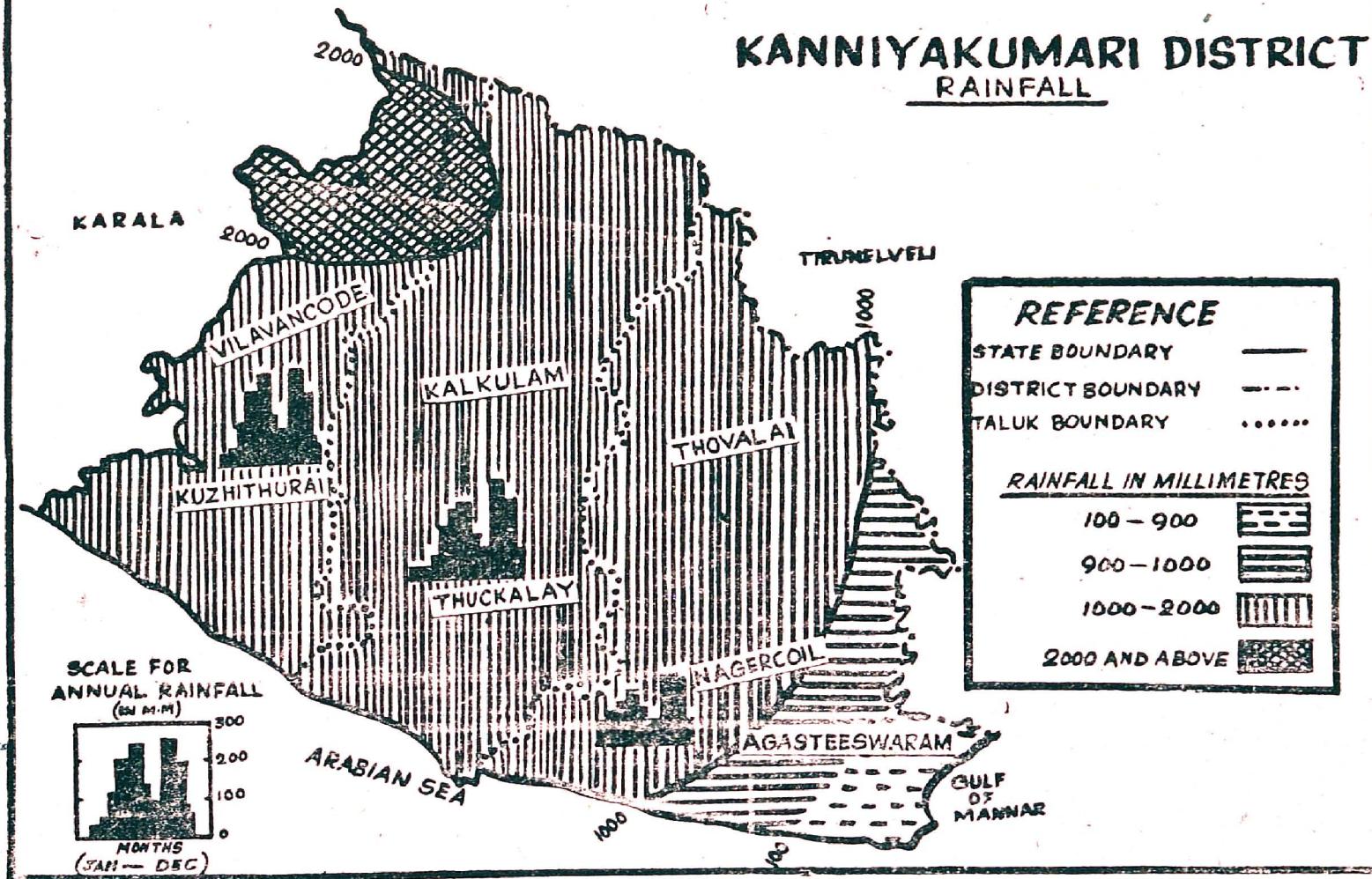
The district is situated at the foot of the western ghats and has a gentle but definite slope from east towards west. The Coastal belt extends over 68 Km. and it is rich minerals.

CLIMATE

This district is having a favourable agro-climatic condition, to grow a number of crops. Even though the district is small, it accommodates various food and non-food crops growing under different agro-climatic conditions. Because of its being nearer to equator its topography and other climatic factors favour the growth of the varied crops.

The general climate of the district is pleasant. Both the southwest monsoon and the Northeast monsoon greatly influence the climate of the region, besides the proximity of the sea and the dwindling heights of the western ghats.

KANNIYAKUMARI DISTRICT RAINFALL



RAINFALL

Unlike other districts in State of Tamilnadu, this district has a unique advantage of the rainfall both during the Southwest and northeast monsoon period rains. The Southwest monsoon period starts from the month of June and ends in September, while the Northeast monsoon period starts from October and ends in the middle of December. The rainfall is generally very high in the northern parts of the district, where the dams are situated, and low in the southern parts of the district which are mainly coastal areas. The average rainfall of the district is 1465 mm. per year.

- - - - -

Jaddeha

Monthwise Rainfall Distribution (Based on 50 years average)

January	-	20.59 mm
February	-	26.79 "
March	-	49.93 "
April	-	121.02 "
May	-	160.89 "
June	-	192.56 "
July	-	128.93 "
August	-	94.66 "
September	-	120.85 "
October	-	256.77 "
November	-	206.58 "
December	-	85.38 "
Total	-	<u>1464.95 mm</u>

MONTHWARI RAINFALL DISTRIBUTION FOR 10 YEARS

(In mm.)

MONTH	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983
JAN.	-	1.32	1.61	-	16.18	0.24	-	6.58	-	-
FEB.	43.82	18.18	-	50.86	4.27	102.18	-	7.04	0.31	-
MAR.	6.76	50.81	58.87	38.90	62.75	24.63	4.84	35.26	38.08	-
APR.	130.85	271.21	137.29	128.85	70.74	38.53	102.34	105.89	67.10	19.25
MAY	207.77	93.22	73.90	258.70	130.51	31.57	85.27	77.54	154.24	148.26
JUNE	54.25	268.21	47.62	88.73	102.73	191.60	166.06	338.77	226.54	115.08
JULY	141.45	92.45	65.67	75.13	91.93	88.28	70.25	71.65	106.30	46.55
AUG.	219.78	130.79	88.13	58.99	90.40	80.37	62.46	175.10	52.65	84.82
SEP.	215.38	226.22	34.16	107.79	33.70	149.83	73.23	173.82	251.13	56.00
OCT.	102.46	192.22	259.88	468.70	204.50	221.60	166.78	343.54	167.29	72.75
NOV.	93.56	231.47	322.10	291.70	591.64	365.10	202.24	190.70	181.65	140.12
DEC.	8.49	37.64	22.97	12.18	50.74	73.75	174.01	21.39	14.56	147.00

TOTAL 1224.57 1613.74 1112.20 15.053 1450.09 1367.74 1177.48 1547.28 1259.85 829.83

S O I L S



In Kanniyakumari District three main soil groups are present. Laterite type of soils occur in the blocks of Thiruvattar, Munchirai, Kurunthencode, Rajakkamangalam, Killiyoor Thuckalay and Melpuram. Mixed types of red and alluvial soil occur in Agasteeswaram and Thovalai Blocks. Soils are mostly red loam and lateritic in nature with coastal alluvium in the western side. The lateritic and red loam soils are poor to medium in fertility and the coastal alluvium is high in fertility. The soils are sandy to sandy loam in texture. Lime status is nil due to the occurrence of more area under acid condition. The high acidity prevalent in the district is mainly due to the heavy rainfall and heavy leaching of bases in the hilly areas.

The percentage of area under acidity, alkalinity and salinity is given below :

Block	Percentage of		
	Acidity	Alkalinity	Salinity
1. Thovalai	44	-	-
2. Agasteeswaram	20	-	-
3. Rajakkamangalam	53	-	-
4. Kurunthencode	84	-	-
5. Thuckalay	70	-	-
6. Thiruvattar	58	-	-
7. Melpuram	54	-	-
8. Killiyoor	45	-	-
9. Munchirai	33	-	-

The soil pH. generally ranges from 4. 5 to 8.

DISTRICT AT A GLANCE

1.	No. of Taluks	...	4
2.	No. of Revenue Villages	...	81 2
3.	Population	...	14.20 Lakhs
4.	Normal rainfall per year	...	1462 mm.
5.	Geographical area	...	167215 Ha.
6.	Net area sown	...	81181 Ha.
7.	Net area irrigated	...	26984 Ha.
8.	No. of tanks		
	No. of tanks having more than 100 ac. ayacut.	...	41
	No. of tanks having less than 100 ac. ayacut.	...	2633
9.	No. of irrigation wells	...	776
10.	No. of Agricultural Divisions	...	3
11.	No. of Agricultural Officers Circles	...	21
12.	No. of Assistant Agricultural Officers Group	...	156

13.	No. of Agricultural Depots	...	19
14.	No. of Fertilizer Sale Points	...	437
15.	No. of pesticides Sale points	...	137

LAND USE PATTERN

The Land pattern in Kanniakumari District during 1981-82 is as follows :

(AREA IN HECTARES)

1.	Forest	-	55,044
2.	Barren and uncultivable land	-	4,586
3.	Land put to non agricultural use	-	3,666
4.	Cultivable waste	-	430
5.	Permanent pastures and other grazing lands	-	380
6.	Land under miscellaneous tree crops and groves not included in the net area sown	-	231
7.	Current fallows	-	1,833
8.	Other fallows	-	347
9.	Net area sown	-	
	Total		81,181

SIZE - DISTRIBUTION OF HOLDINGS

The distribution of cultivating families by size of holdings reveals that over 90 percentage of the cultivators are small and Marginal farmers, who own nearly 57 percentage of the cultivated area. No. of holdings per size and area thereunder are given below:

Size group (Hectares)	Holdings		Area held		Average size of Holding (Ha.)
	Number	Percent	Hectares	Percent	
0.01 - 0.49	191437	78.0	33126	34.9	0.173
0.50 - 0.90	31087	12.6	21698	22.8	0.697
1.00 - 1.99	17605	7.2	23447	24.7	1.331
2.00 - 2.99	3306	1.3	7621	8.0	2.305
3.00 - 3.99	1477	0.6	5074	5.3	3.435
4.00 - 4.99	158	0.1	688	0.7	4.354
5.00 - 9.99	214	0.1	1442	1.5	6.738
10.00 - 19.99	118	0.1	1574	1.7	13.338
20.00 - 29.99	13	-	347	0.4	26.592
30.00 and above	-	-	-	-	-
Total -	245415	100.00	95017	100.00	0.387

Added

It may be seen from the above statement that about 35 percentage of the total area is held by marginal farmers with less than 0.50 hectares who forms 78 percentage of the total. The percentage of cultivators with less than 2.00 hectares is 93 who are cultivating 82 percentage of the total cultivated area. The average size of land held by a marginal farmer is about one sixth of a hectare or roughly 43 cents. 20 percentage of the cultivators are small farmers, who cultivate 48 percentage of the area and their average holding is less than a hectare. Tenancy cultivation and absentee landlordism are also prevalent in this district. Farms over 3 hectares constitute less than a percent of the total number of holdings.

RIVERS AND OTHER WATER RESOURCES

The rivers in the district are not perennial. The main rivers Paraliayar and Kodayar both of which unite to form the Kuzhithurayar or Thambaraparani. A dam at Pechipparai and another at perunchani had been constructed, and they form the major sources of irrigation. Chittar - pattanamkal is a new project recently constructed across Chittar.

1. PECHIPPARAI DAM

This dam was constructed during the period 1897-1906 across Kodayar river. FRL is 48'. The gross capacity of the dam is 5.3 TMCFTS and net capacity is 4,450 TMCFTS. The maximum surplusing capacity is 39,000 c/s (Cusec.).

2. PERUNCHANI DAM

This dam has been built during the period 1948-53 across Paraliyar. The FRL is 67'. The gross and net capacity of the dam is 2,890 TMCFTS with a surplusing capacity of 31,000 c/s.

3. CHITTAR DAM - I

This dam has been constructed across Chittar during the period 1964 - 70 with a gross capacity of 0.610 TMCFTS and net capacity of 0.395 TMCFTS with a surplusing capacity of 8,300 c/s. The FRL is 16'.

4. CHITTAR DAM - II

This dam has been constructed across Chittar during the period 1964-70 with a gross capacity of 1.009 TMCFTS and net capacity of 0.600 TMCFTS and with a surplusing capacity of 9350 c/s. Both Chittar Dam I & II are connected by an interconnecting channel.

Besides these dams, there are Pattinamkal system, Thirparappu weir system, Aruvikkarai weir system and Neyyar system. These systems also irrigate certain ayacuts. The Neyyar dam is situated in Kerala State and the current ayacut of the Tamil nadu branch (Kanniyakumari branch) is 1,400 Ha.

These dams and systems altogether irrigate an extent of 24,000 Ha.

AREA UNDER MAJOR IRRIGATION SOURCES

IMPORTANT RIVERS

1. Pazhyaru 2. Valliyaru, 3. Thoovalaru, 4. Thambiraparani, 5. Mullyar.

Sl.No.	Sources of irrigation	Name of Taluk	Numberwar area under assured sources of irrigation (Ha.)
I	Kodayar Project	1. Thovalai	4784.00
		2. Agasteeswaram	8468.00
		3. Kalkulam	5626.00
		4. Vilavancode	137 00
		Total	<u>19015.00</u>
II	Chittar Pattinamkal	1. Kalkulam	643.00
		2. Vilavancode	2143.00
		Total	<u>2786.00</u>
III	Neyyar Irrigation project	1. Villavancode	1457.00
		Other sources	750.00
		Grand Total	<u>24,008.00</u>

Net area irrigated by	1981-82	1980-81
1. Government canals	12,046	11,155
2. Private canals	--	--
3. Government tanks	15,906	15,229
4. Private tanks	5	--
5. Tube wells - Private		157
6. Wells - Government	1	1
7. Wells - Private	282	228
8. Wells - supplementing irrigation	16	28
9. Other sources - Government	267	118
10. Other sources - Private	98	96
11. Total irrigated area	28,605	28,984

TANKS	Nos.	Net area irrigated
With ayacut of 100 ac. & more	41	
With ayacut of less than 100 ac.	2592	
Total Tanks	2633	15911
Area covered by spring channels & other sources		365
Total irrigated area (bearing out areas supplemented by well irrigation through Khatcha wells etc)	)	28605
Area irrigated more than once		23845
Total area irrigated		52450
Wells having independent ayacut - Nos	472	
Wells for supplementing irrigation Nos.	222	

TANKS	Nos.	Net area irrigated
Tube wells - Oil engine pumpsets private	6	
Tube wells - Electric motor pumpsets private	92	
Wells - Electric motor pumpsets Govt.	1	
Wells (Pucca) Oil Engine pumpsets private	144	
Wells (Pucca) Electric motor pumpsets private	535	
Tube wells - for household energised	50	
Other wells	7450	
Area irrigated by wells having independent ayaicut	472	222
Area irrigated by tube wells having independent ayaicut	89	9

about

CROPPING PATTERN

This district produces Paddy, Tapioca, and oilseeds such as Groundnut and Coconut besides commercial crops such as Cashew, Rubber, Fruits (Mango, Jack, Pineapple) and Spices (Pepper, Cloves & Nutmeg). Another important feature of this district is the production of off season Mangoes, especially in the Kanniyanumari Tract.

PADDY is the main food crop of this district. It is raised in two seasons. 1st crop is sown in the month of April - May and second crop is raised in the month of September - October.

TAPIOCA is raised as a subsidiary food crop in this district. The main planting season is April - May. In some pockets September - October planting is also done as second season crop. It is purely raised as rainfed crop in this district.

COCONUT is an important cash crop in this district. The main planting season is May to July.

PULSES are raised purely in rice-fallows and as mixed crop in Tapioca. The important pulses are blackgram, greengram, horsegram, cowpea and redgram. In the months of April May & September - October pulses are raised as mixture with Tapioca. In the months of February-May pulses are raised as pure crop in rice-fallows.

CROPPING PATTERN KANNIYAKUMARI DISTRICT

CROPS MONTHS APRIL MAY JUNE JULY AUG SEP OCT NOV DEC JAN FEB MAR

- PADDY Ist CROP
- SEMI DRY CROP
- PADDY Ist CROP PLANTED CROP
- PADDY IInd CROP LONG DURATION
- PADDY IInd CROP MEDIUM DURATION
- TAPIOCA 1st SEASON
- TAPIOCA 2nd SEASON
- PULSES 1st CROP & 2nd CROP } INTER CROPS WITH TAPIOCA
- RICE FALLOWS CROP

TILLERING VEGITATING RIPENING

arbeitet

VEGETABLES are cultivated during January-February and July-August. Pot watering is the local practice. This is also raised as 3rd crop after the harvest of 2nd crop of paddy in some pockets of this district.

BANANA is cultivated mainly during March to May & September-October.

GROUNDNUT is raised during March-April and October-November as rainfed crop.

In addition, Pepper, Cloves, Areca nut, Betelvine, Cocoa, Gingelly, Ginger, Turmeric Arrowroot etc. are also grown in this district in small areas.

CROP SEQUENCE FOLLOWED IN KANNIYAKUMARI DISTRICT

1. Paddy - Paddy - Fallow (one year rotation)
2. Paddy - Paddy - Pulses (one year rotation)
3. Paddy - Banana - Paddy (2 years rotation)
4. Paddy - Banana - Tapioca (2 years rotation)

*Collected by
S. S. S. S. S.*

NORMAL AREA AND PRODUCTIVITY OF DIFFERENT CROPS

Sl. No.	Crop	Area in Ha	Normal Yield ha. in Kgs.
1.	Paddy	46,000 (23000 23000) (both crops)	3500 kgs. of Paddy
2.	Tapioca	12,000	10000 kgs.
3.	Coconut	15,200	10000 nuts/ha
4.	Groundnut	1,300	750 Kgs.
5.	Banana	3,006	25,000 Kgs./ ha.
6.	Cashew	2,420	2,000 M. Tons.
7.	Arecanut	757	5.0 lakh nuts
8.	Mango	1,769	20.000 M. Tons.
9.	Pepper	42	250 Kgs/ha.
10.	Pulses	7,000	220 Kgs / ha.
11.	Rubber	12,800	1,200 Kgs. /ha.

added ✓

COST OF CULTIVATION OF DIFFERENT CROPS

Name of the crop	Total cost of Cultivation / Ac.	Gross income	Net Income
Paddy (HYV)	1838.00	2749.00	919.00
Paddy (Local)	1450. ..	2120. ..	670. ..
Tapioca (Rainfed)	1640. ..	2660. ..	1020. ..
Coconut (Rainfed)	2625. ..	5075. ..	2450. ..
Banana (Nendran) Eathanvazhai	6120. ..	9600. ..	3480. ..
Banana (Poovan, Monthan & other local varieties)	3120. ..	6400. ..	3280. ..
Groundnut (Rainfed)	1035. ..	1500. ..	465. ..
Rubber (Maintenance)	2250. ..	7200. ..	4950. ..
Pulses (Rainfed)	361.50	800. ..	438.50
Cashewnut (Rainfed)	940.00	2400. ..	1860.00
Vegetables (Brinjal)	1825. ..	5250. ..	3425. ..
Betelvine	11920. ..	20000. ..	8080. ..
Flowers (Jasmine)	6175. ..	16800. ..	10625. ..

DISTRIBUTION OF INPUTS IN KANNIYAKUMARI DISTRICT FOR TEN YEARS

1. PADDY SEED

Year	Total seed distribution
1974 - 75	169 . 499
1975 - 76	171 . 068
1976 - 77	280 . 105
1977 - 78	211 . 725
1978 - 79	158 . 020
1979 - 80	165 . 917
1980 - 81	179 . 000
1981 - 82	178 . 000
1982 - 83	161 . 609
1983 - 84	350 . 000

addition

2. FERTILISER

DISTRIBUTION OF FERTILISERS (Tonnes)

YEAR	N	P	K
1974 - 75	2878. 017	1363. 392	897. 655
1975 - 76	5012. 000	1680. 000	1510. 000
1976 - 77	3671. "	1580. "	1497. "
1977 - 78	3151. "	1560. "	1507. "
1978 - 79	2991. "	1091. "	1194. "
1979 - 80	3583. "	1277. "	1288. "
1980 - 81	3488. "	1201. "	1201. "
1981 - 82	3965. "	1276. "	1300. "
1982 - 83	5286. "	1708. "	1516. "
1983 - 84	4083. "	1599. "	1633. "

average

AVERAGE PER HEC. CONSUMPTION OF N.P. K

YEAR	N	P	K
1974 - 75	32.5	15.0	10.0
1975 - 76	55.0	20.0	17.5
1976 - 77	51.8	22.50	12.5
1977 - 78	38.8	19.2	18.5
1978 - 79	36.8	13.4	14.7
1979 - 80	44.1	15.7	15.8
1980 - 81	42.9	14.7	14.7
1981 - 82	48.8	15.7	16.0
1982 - 83	65.10	21.0	18.6
1983 - 84	50.2	19.7	20.1

PLANT PROTECTION CHEMICALS DISTRIBUTED

YEAR	DUST FORM (M. T. S.)	LIQUID FORM (Litres)
1974 - 75	52.0	8377.7
1975 - 76	107.9	8675.1
1976 - 77	43.8	2657.1
1977 - 78	48.68	3441.4
1978 - 79	68.22	2337.0
1979 - 80	74.5	2604.3
1980 - 81	150.6	2187.7
1981 - 82	206.8	2415.1
1982 - 83	142.163	2132.200
1983 - 84	538.644	8843.500

ADAPTIVE RESEARCH TRIAL IN KANNIYAKUMARI DISTRICT

1981 - 82 RABI

1. Cultures / Varieties tried

IR 20, TNAU 17005, TNAU 15776,
TNAU 4372 & DPI - 591.

2. No. of locations tried

9

3. Yield recorded

		Average	Maximum (Kg./acre)	Minimum
IR 20	...	1442	2300	580
TNAU 17005	...	1640	2801	660
TNAU 15776	...	1435	2300	700
TNAU 4372	...	1175	2010	620
DPI 591	...	1177	2320	73

4. No. of location recorded above the normal yield & below the normal yield

	Normal	Above normal	Below normal
IR 20	5	2	2
TNAU 17005	4	3	2
TNAU 15776	6	1	2
TNAU 4372	4	1	4
DPI 591	5	1	3

5. In 3 locations TNAU 17005 recorded the maximum yield.

In no location TNAU 17005 recorded the minimum yield.

1982 - 83 KHARIF

1. Name of Varieties / cultures tried	-	T. P. 1334-1, T. K. M. 9, Kattisamba.	
2. No. of locations	-	9	
3. Average yield / ha.	TP. 1334 - 1	TKM 9	Kattisamba
Grain	4254	4608	4362
Straw	8277	5629	8013
4. Maximum yield recorded			
Grain	4950	6037	5250
Straw	12500	8762	11000
5. Minimum yield recorded			
Grain	3325	2855	3820
Straw	5500	3710	5450
6. Duration (Average)	107	105	110
a. Maximum duration	113	113	115
b. Minimum duration	101	101	101
7. No. of locations recorded			
a. Maximum yield	1	6	2
b. Minimum yield	5	3	1
8. Conclusion :	TP. 1334-1 has not proved superior even when compared with Kattisamba and TKM 9.		

1982 - 83 RABI

TPS 1974 vs AS 781/1 vs IIR 20

1. Name of Varieties / cultures tried	Ponni	TP. 1974	AS. 781/1	IIR 20
2. No . of locations	11	11	5	11
3. Average yield / ha.				
Grain (Dry)	3028	4061	3034	3317
Straw (Wet)	10843	10786	8716	8193
4. Maximum yield recorded				
Grain (Dry)	4900	5555	3094	5550
Straw (Wet)	15400	15600	10820	12794
5. Minimum yield recorded				
Grain (Dry)	1877	2591	2550	1335
Straw (Wet)	6125	6148	5162	5816
6. Duration (Average)	127	128	130	125
a. Maximum duration	141	141	141	127
b. Minimum duration	121	119	127	119
7. No. of locations recorded				
a. Maximum yield	1	6	1	3
b. Minimum yield	6	-	1	4
8. Per day production	23.84	31.72	23.33	26.53
9. Conclusion :	TPS 1974 has given higher yield (grain) and was generally found to be acceptable by farmers, but in a cooking test it was found to be glutinous a little bit.			

1983 - 84 KHARIF

1. Series No. I
 2. Name of Varieties / cultures tried
 3. No . of locations
 4. Average yield / ha.
- | | | | | | | |
|--|---|---|-----------|--------|----------|---------|
| | 1. AS. 18696, 2. Kattisamba, 3. IET, 7564 | 4. As. 688 5. IET. 7566 6. Cul. 23332-2 | | | | |
| | 6 | | | | | |
| | AS18696 | Katti- | JET. 7564 | AS.698 | IET 7566 | Cul. |
| | | samba | | | | 23332-2 |

Grain	2100	3763	2359	3106	2774	3135
Straw	5647	9874	6210	6314	6993	6125 X

X Culture 23332 - 2 was tried in only one location in this series

5. Maximum yield recorded

Grain	3320	4560	3675	3925	3940	3135
Straw	9752	13900	9225	8615	9145	6125

6. Minimum yield recorded

Grain	780	3125	1735	1910	989	-
Straw	1375	6844	3422	4166	2678	-

7. Duration (Average)

a. Maximum duration	102	119	102	110	104	131
b. Minimum duration	111	126	110	124	112	-
	84	111	91	101	92	-

8. No. of locations recorded

a. Maximum yield	-	4	-	2	-	-
b. Minimum yield	3	-	2	-	1	-

9. Per day production (Kg.)

20.58	31.62	23.13	27.98	26.67	23.93
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10. Conclusion : As 688 has come first in 2 locations & though it has yielded less than Kattisamba is a suitable substitute for Katrisamba for tailend areas, where water shortage in later stages of crop growth bring down the yield of Kattisamba.

1. Series No. II. A

2. Name of the Varieties / cultures tried

1. TKM 9. 2. Kattisamba. 3. AS. 19703
4. As. 688 5. TP. 1334-1 6. Cul. 23332-2 X

"X Culture 23332 - 2 was tried in only two locations in this series"

3. No. of locations

- 8

4. Average yield / ha.

	TKM 9	Katti-samba	AS. 19703	AS.688	TP 1334-1	Cul. 23332-2
--	-------	-------------	-----------	--------	-----------	--------------

Grain	4782	4081	3393	3392	4277	3067
Straw	8855	10834	7959	8115	11203	6550

5. Maximum yield recorded

Grain	7575	5729	5924	5225	6775	3067
Straw	12598	14422	12877	9595	14997	6550

6. Minimum yield recorded

Grain	3330	2870	1900	1600	2000	-
Straw	6500	8000	4450	6350	6874	-

7. Duration (Average)

a. Maximum duration	114	115	119	110	116	124
b. Minimum duration	126	120	134	134	134	137

8. No. of locations recorded

a. Maximum yield	2	2	-	1	3	-
b. Minimum yield	1	1	3	3	-	-

9. Per day production (Kg.)

41.95	35.49	28.51	30.84	36.87	24.73
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10. Conclusion : TP. 1334-1 is a suitable replacement for local Kattisamba, as it has outyielded it in both grain & straw. It can come up well in areas where TKM 9 is not favoured for its lower straw yield though the grain yield of TKM 9 is higher than TP-1334-1

1. Series No. II. B					
2. Name of the Varieties / cultures tried	1. TP. 1334-1	2. TKM 9	3. AS. 688		
	4. As. 19703	5. Cul. 23332/2			
3. No. of locations	- 3				
4. Average yield / ha.	TP. 1334-1	TKM 9	AS.688	AS.19703	Cul. 23332/2
	Grain	4072	4708	4245	4565
	Straw	13166	10379	10756	9918
5. Maximum yield recorded	Grain	4390	6900	6700	7800
	Straw	17250	12000	14000	12500
6. Minimum yield recorded	Grain	3750	2850	3217	3100
	Straw	7688	10700	8400	6298
7. Duration (Average)		112	114	108	121
a. Maximum duration		127	127	127	141
b. Minimum duration		106	106	95	108
8. No. of locations recorded		2	-	-	1
a. Maximum yield		1	-	1	1
b. Minimum yield					
9. Per day production (Kg.)		36.36	41.29	39.31	37.73
					44.38
10. Conclusion :	Culture 23332/2, a Kerala culture has performed best when compare to others as regards grain. It is also red grained. But the straw out turn is lower than TP. 1334-1 though higher than TKM 9.				

1. Series No. III. A.				
2. Name of the Varieties / cultures tried	1. AD. 9246 4. ADT. 36,	2. TKM 9. 5. Cul. 1907	3. AS. 19789	
3. No. of locations	- 7			
4. Average yield / ha.	AD. 9246 9	TKM 19789 9	AS. 36 36	ADT. Cul. 1907
5. Maximum yield recorded	Grain Straw	3295 8248	4778 8757	4636 7205
6. Minimum yield recorded	Grain Straw	3600 8962	6750 10000	5400 12000
7. Duration (Average)		122	121	124
a. Maximum duration		133	130	133
b. Minimum duration		114	114	114
8. No. of locations recorded				
a. Maximum yield			4	3
b. Minimum yield			4	3
9. Per day production (Kg.)		27.00	39.49	37.87
				30.77
				34.48

10. Conclusion: AS. 19789 and Culture 1907 from Kerala are two promising cultures liked farmers besides TKM 9.

1. Series No. III. B.					
2. Name of the Varieties / cultures tried	1. AS. 19789 4. Cul. 1907	2. TKM 9. 5. AD. 9246	3. ADT. 36,		
3. No. of locations	- 4				
4. Average yield / ha.	AS. 19789	TKM 9	ADT. 36	Cul. 1907	AD. 9246
	Grain 5151	2755 4801	2584 5776	2999 7012	2953 5439
5. Maximum yield recorded	Grain 10262	4303 8689	4594 10401	4683 13825	4858 11325
6. Minimum yield recorded	Grain 2500	825 2115	1450 3810	1210 3413	1050 1442
7. Duration (Average)	113	126	112	114	117
a. Maximum duration	126	126	126	126	126
b. Minimum duration	106	105	107	110	107
8. No. of locations recorded					
a. Maximum yield	-	1	1	2	-
b. Minimum yield	1	1	1	1	1
9. Per day production (Kg.)	24.38	23.07	26.31	25.24	22.95
10. Conclusion :	ADT. 36 Culture 1907 are better yielding than the rest. Cul. 1907 has got a better straw value also.				

1. Series No. IV

2. Name of the Varieties / cultures tried

3. No. of locations

4. Average yield / ha.

1. PY - 1 2. Paiyoor 3. AS. 781-1
4. Ponni 5. Co. 43.

- 6

PY-1 Paiyoor AS. 781-1 Ponni Co.43

	Grain	4106	4241	3331	4188	2826
	Straw	12014	11245	8306	11038	8394

5. Maximum yield recorded

	Grain	5696	5750	5525	5437	4315
	Straw	16875	15950	11625	14575	10875

6. Minimum yield recorded

	Grain	2767	2750	400	2708	1600
	Straw	5458	5433	4705	5292	5030

7. Duration (Average)

a. Maximum duration	148	150	146	148	145
b. Minimum duration	158	158	153	158	153

8. No. of locations recorded

a. Maximum yield	2	2	-	2	1
b. Minimum yield	-	-	-	2	4

9. Per day production (Kg.)

27.74	28.27	22.82	28.30	19.49
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10. Conclusion : Both Paiyoor-1 and Py-1 seem to be good alternatives to Ponni which is often affected by blast late in the 1st crop season. Paiyoor-1 has given better grain and straw out turn than Ponni. Paiyoor-1 has given the maximum straw out turn.

RABI 1983 - 84

1. Series No. 7/12					
2. Name of the Varieties / cultures tried	1. Paiyoor - 1 2. PY - 1, 3. Co .43, 4. AS. 781/1, 5. Ponni				
3. No. of locations	- 8				
4. Average yield (Kg.)/ ha.	Paiyoor-1	PY-1	Co.43	AS.781/1	Ponni
Grain	4189	3710	3404	4114	4139
Straw	9556	8916	7222	7418	10015
5. Maximum yield recorded					
Grain	6591	5455	5745	5975	5864
Straw	14192	13535	12525	12121	13232
6. Minimum yield recorded					
Grain	3030	2600	1768	3182	2894
Straw	4394	5101	2626	4747	5303
7. Duration (Average)					
a. Maximum duration	139	138	137	136	139
b. Minimum duration	151	146	143	145	151
8. No. of locations recorded					
a. Maximum yield	2	3	-	1	2
b. Minimum yield	-	3	4	1	-
9. Per day production	30.13	26.88	24.84	30.25	29.76
10. Conclusion :	Paiyoor-1 and Ponni are on par and have given better grain and straw out-turn than other varieties. Paiyoor-1 and AS. 781/1 seem to be good alternatives to Ponni as the per day production in respect of Paiyoor-1 and AS. 781/1 is more than Ponni.				

RABI 1983 - 84

1. Series No. 8/12

2. Name of the Varieties / cultures tried

3. No. of locations

4. Average yield (Kg./ ha.)

1. IR. 50 2. TP 1974 3. Co. 43, 4. IR.20

- 10
IR 50 TP 1974 Co 43. IR 20

Grain	2725	4211	4135	3596
Straw	3781	7418	6710	5783

5. Maximum yield recorded

Grain	4300	5970	6462	5271
Straw	8025	12010	11333	9000

6. Minimum yield recorded

Grain	286	2600	3023	2328
Straw	2150	3250	3750	3250

7. Duration in days (Average)

a. Maximum duration	108	123	126	123
b. Minimum duration	112	135	132	132
	99	110	114	114

8. No. of locations recorded

a. Maximum yield	-	5	5	-
b. Minimum yield	7	1	-	2

9. Per day production

25.23	34.23	32.81	29.23
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10. Conclusion : TP. 1974 has performed better than Co. 43. both in grain and straw out-turn. This variety is good alternative to IR 20. It gives the highest fodder value and is therefore preferred by the farmers also who raise it better than IR 20 or Co. 43.

1. Series No. 9/12				
2. Name of the Varieties / cultures tried		1. IET. 1722, 2. IET 7564, 3. IET 7566 & ADT 36.		
3. No. of locations	- 9			
4. Average yield (/ ha.)	IET 1722	IET 7564	IET 7566	ADT 36
	Grain	1695	1935	1690
	Straw	3154	3383	3086
5. Maximum yield recorded				
	Grain	2952	4600	2815
	Straw	6088	5800	3875
6. Minimum yield recorded				
	Grain	260	580	250
	Straw	750	1125	800
7. Duration in days (Average)				
a. Maximum duration		99	98	100
b. Minimum duration		105	104	107
c. Average duration		92	86	92
8. Per day production (Kgs.)	17.12	19.74	16.9	25.46

9. Conclusion : ADT. 36 is superior to the other both in terms of grain and straw though in summer the yield of 2597 Kgs/ha. is far below that of the average obtained in the tract.

RABI 1983 - 84

BPT SERIES

1. Name of the Varieties / cultures tried	1. BPT 1235	2. IR 20
2. No. of locations	- 9	
3. Average yield / ha.	<u>BPT 1235</u>	<u>IR 20</u>
	Grain 3782	3181
	Straw 5881	5077
4. Maximum yield recorded		
	Grain 5210	3775
	Straw 8520	6500
5. Minimum yield recorded		
	Grain 2468	2108
	Straw 3250	3625
6. Duration in days	114	122
7. No. of locations recorded		
a. Maximum duration	8	1
b. Minimum duration	1	8
8. Per day production	33.17	26.07
9. Conclusion:	BPT has performed better than IR 20 both in grain and straw output. This variety is good alternative to IR 20 and matured in 114 days which is 8 days lesser than IR 20.	

IET SERIES

1. Name of the cultures tried	1. IET. 7614, 2. IET. 7564, 3. IET. 7992, 4. IET. 7265, 5. IET. 7566, 6. IET. 7613
2. No. of locations	- 2
3. Average yield / ha.	IET.7614 IET.7564 IET.7992 IET.7265 IET.7566 IET.7613
	Grain 2623 2340 2417 2001 2390 2570
	Straw 5282 5059 4222 3932 6043 4531
4. Maximum yield recorded	
	Grain 3590 3905 2960 2710 2590 3390
	Straw 7940 8525 6070 5740 6275 6375
5. Minimum yield recorded	
	Grain 1656 775 1875 1293 2150 1750
	Straw 2625 1594 2375 2125 5812 2687
6. Duration in days(Average)	91 88 93 93 93 91
a. Maximum duration	93 93 93 93 93 93
b. Minimum duration	89 84 93 93 93 89
7. Per day production	28.82 26:59 25.98 21.51 25.48 28.24
8. No. of locations recorded	
a. Maximum yield	1 - - - - 1
b. Minimum yield	1 - - - - 1
9. Conclusion :	The Yield trend is uniformly poor for all the varieties. None of these varieties can be said to be promising.

SERIES NO 1/2

1. Name of the Varieties / cultures tried	1. AD 9246 4. TKM 9	2. AD 9408 5. IET 1444	3. AS 19789	
2. No. of locations	- 4			
3. Average yield / ha.	AD 9246 Grain Straw	AD 9408 2386.4 7076.4	AS19789 2272.1 7833.4	TKM 9 2565.71 6594.30
				IET 1444 1996.5 5493.4
4. Maximum yield recorded	Grain Straw	4175.0 17950.0	3937.5 21750.0	3937.50 15000.00
				3875.0 14375.0
5. Minimum yield recorded	Grain Straw	937.5 3125.0	625.0 2750.0	1000.00 3315.00
				1437.5 1875.0
6. Duration in days(Average)	103	109	100	101
a. Maximum duration	107	122	103	108
b. Minimum duration	99	99	99	99
7. No. of locations recorded				
a. Maximum yield	1	-	2	1
b. Minimum yield	-	1	-	3
8. Per day production	23.16	20.83	25.65	19.76
				18.02

9. Conclusion : As 19789 has recorded higher yield than other varieties and the per day production also works out to be 25.65 Kgs. which is higher than all other varieties.

HARVEST DETAILS OF MINIKITS

Sl.No.	Name of the variety	Total No. of minikits sucessfully harvested	Yield data (Kg/Ha)		
			Average	Maximum	Minimum
1.	PY-1	3	4283	5600	2725
2.	ADT 36	4	4187	4400	4000
3.	Puthuvai Ponni	3	4093	4780	3500
4.	BPT. 3402	8	3944	6187	2775
5.	CR. 1009	981	3913	8750	1500
6.	AU 42/1	196	3782	7375	500
7.	TP. 1974	92	3752	9000	1264
8.	IR 50	1315	3744	9000	750
9.	Mashoori	8	3709	3650	2508
10.	Ponni	340	3667	5822	1071
11.	Co. 43	435	3526	7175	1145
12.	AS. 781/1	3	3525	3875	950
13.	IET. 7302	33	3374	6875	950
14.	IR 20	430	3346	6250	300
15.	Lekshmi	9	3126	4675	1500
16.	Paiyoor - 1	5	2856	3450	2010
17.	IET. 7613	20	2798	4650	1120
18.	IET. 7566	7	2060	2650	1250
Total		<u>3892</u>			

**ANALYSIS OF CROP CUTTING EXPERIMENTS
FOR SIX YEARS**

	1978-79		1979-80		1980-81		1981-82		1982-83		1983-84	
	Ist	IIInd	Ist	IIInd	Ist	IIInd	Ist	IIInd	Ist	IIInd	Ist	IIInd
	Crop	Crop	Crop	Crop	Crop	Crop	Crop	Crop	Crop	Crop	Crop	Crop
1. High yielding variety (percentage)	45	46.6	20	27.5	32.5	40	37.5	35.7	10	20	30	53.85
2. Dept. seed (percentage)	8.3	6.6	12.5	5.0	7.5	7.5	10.0	11.9	-	12	18	30.77
3. Irrigation												
a Tank (percentage)	45	33.0	25.0	35.0	40.0	22.5	32.5	45.25	25	50	50	48.08
b Channel (percentage)	55	64.0	72.5	65.0	55.0	77.5	60.0	54.75	65	47.5	38	50.00
c Well or self spring (percentage)	-	3.0	2.5	-	5.0	-	7.5	-	10	2.5	12	1.92
4. Crop rotation (P-Paddy)	P-P	P-P	P-P	P-P	P-P	P-P	P-P	P-P	P-P	P-P	P-P	P-P
5. Chemical Fertilisers used (Kg/Ha)	N	33.5	43.65	39.32	45.75	55.0	24.97	43.82	36.25	45.47	31.15	24.78
	P	7.4	10.8	10.6	13.37	14.7	11.77	10.62	14.48	14.95	15.77	6.0
	K	7.3	11.2	10.6	14.27	15.6	12.51	10.62	14.28	25.40	15.72	6.6
6. P.P Chemicals used (percentage of farmers)	43.0	76.0	57.5	65.0	57.5	60.0	40.0	73.8	25.0	40.0	22.0	63.46
7. Yield obtained (in terms of rice)	2154	2110	2926	1955	2700	1666	2491	2199	2513	1349	2109	2301

AGRICULTURAL DEPARTMENTAL INPUT SERVICE POINTS

There are 19 Agri. Depots in the district catering the needs of Agri. Inputs primary seeds and plant protection chemicals besides serving as a farm information centre.

The name and address of the depots are given below:-

I. NAGERCOIL DIVISION

Agasteeswaram and Thovalai Taluks

SITUATION	ADDRESS OF DEPOTS
1. Nagercoil Town	151, Joshua Street Nagercoil. Agri. Depot. Panchayat Union Campus, Pazhavilai. Pin : 629 501.
2. Rajakkamangalam Block at Pazhavilai	Agri. Sub Depot, Parakkai. Agri. Depot, Panchayat Union Campus, Bhoothapandi. Pin : 629 852
3. Parakkai	Agri. Sub Depot, Sahayanagar. Vellamadam P. O.
4. Boothapondy	Agri. Depot, Panchayat Union Campus, Perumalpuram, Kottaram P.O. Pin : 629 703
5. Sahayanagar	
6. Kottaram	

SITUATION	ADDRESS OF DEPOTS
7. Sucindrum	Agri. Sub Depot, Vazhukkumparai Suchindrum P.O.
8. Anjugramum	Agri. Sub Depot, Anjugramum Pin : 629 157.
II THUCKALAY DIVISION	
Kalkulam Taluk	
9. Thuckalay Block at Kozhiporvilai	Agri. Depot, Panchayat union Campus, Kozhiporvilai
10. Thuckalay	Mulagumoodu P. O. Agri. Sub Depot, Door No. 19-77, Mettukadai Tharka Road. Thuckalay.
11. Kumarapuram	Agri. Sub. Depot, Kumarapuram Chemparuthivilai P. O.
12. Kuruthencode	Agri. Depot, Panchayat Union Campus, Kuruthencode P. O.
13. Monday Market	Agri. Sub Depot. Monday Market. Neyyoor P. O. Pin: 629 802
14. Thiruvattar	Agri. Depot, Panchayat Union Campus, Thiruvattar P.O.

III KUZHITHURAI DIVISION

Vilavancode Taluk

AREA BENEFITTED	ADDRESS OF DEPOTS
15. Melpuram	Agri. Depot, Panchayat Union Campus, Melpuram Pahode P.O.
16. Munchirai	Agri. Depot, Panchayat Union Campus. Munchirai Puthukadai P.O.
17. Killiyoor	Agri. Depot, Panchayat Union Campus Killiyoor.
18. Thoduvatty	Agri. Sub Depot, Thoduvatti No. 27-28-B "CALADIUM" Main St. Marthandam Pin 629 165
19. Karingal	Agri. Sub Depot, Karingal, Karingal P.O, Pin 629 157.

STATE SEED FARM - THIRUPPATTISARAM

Year of Commencement	.....	1914
Extent	.....
Wet lands	.....	50.42
Roads, Buildings etc.	.....	8.95
Total	.....	<u>59.37</u> acres
Average Rainfall	.....	1178 MM.

Irrigation Sources

1. Kodayar Irrigation system
2. Puthanar canal
3. Santhayarkulam
4. Meliyakulam

SOILS

Clayey	.....	32.49 Acres
Sandy clayey	.....	18.93 Acres
Normal PH.	.....	6.5 to 8.0
Depth of soil	.....	6'
Rock bottom	.....	soft rock

**PRODUCTION OF PADDY IN THE STATE SEED FARM
THIRUPPATHISARAM**

Year	Area in acres	Seed	Paddy	Total	Average Yield/acre
1973-74	--	100017	63618	163635	--
1974-75	115.76	92722	79840	172562	1491
1975-76	118.49	--	--	187228	1637
1976-77	87.74	64844	17958	82802	943
1977-78	108.59	116530	50211	166741	1535
1978-79	105.80	65800	30946	96746	912
1979-80	104.79	106310	31208	137578	1312
1980-81	104.11	128600	36589	165183	1586
1981-82	104.83	118130	37777	155907	1487
1982-83	104.87	128120	28520	156640	1494

PROFIT AND LOSS ACCOUNT OF STATE SEED FARM
AT THIRUPPATHISARAM

Year	Expenditure	Receipt	Net Profit
1973-74	136427	251227	114800
1974-75	143627	367594	223967
1975-76	85545	214954	129409
1976-77	275948	243532	-32416 (Drought)
1977-78	301502	379960	78457
1978-79	351974	278031	-73943 (Flood)
1979-80	247040	299426	52386
1980-81	370139	510665	140526
1981-82	463102	614254	151152
1982-83	532018	771272	239254

STATE SEED FARM, THIRUPPATTISARAM
COST OF CULTIVATION PER ACRE

Year	First Crop	Second Crop
1973-74	565.29	615.75
1974-75	961.07	723.25
1975-76	1118.25	979.50
1976-77	977.15	1105.75
1977-78	1266.70	1143.81
1978-79	987	1127
1979-80	1105	1132
1980-81	1683	1192
1981-82	1392	1283
1982-83	1424	1471.25

RATE OF WAGES PAID

Year	Men	Women	Boys	Pair
1974-75	3.25	2.25	1.50	8.00
	3.50	2.50	2.00	10.00
	4.00	2.75	--	--
1975-76	4.00	2.75	2.25	12.00
	--	3.00	--	10.00
1977-78	5.00	3.50	--	10.00
1978-79	5.00	3.50	--	10.00
1979-80	7.00	5.00	--	13.00
1980-81	7.00	5.00	--	13.00
1981-82	7.00	5.00	--	15.00
1982-83	10.00	7.00	--	20.00
1983-84	10.00	8.00	--	18.00

A Glimpse at the Training and Visit System*

Training and Visit System of Extension from is in operation 1.7.'82 onwards in Kanniyakumari District. Under this system, all the farming families are identified and each 800 farming families are under the direct contact of one Assistant Agricultural Officer. This 800 families are divided into 8 Convenient microgroups and from each microgroup 10 farmers are selected as contact farmers. The visit schedule of the Assistant Agricultural Officer to these microgroups is so programmed, that the Assistant Agricultural Officer visit each of the microgroup on a fixed day of every fortnight.

Every 6 to 8 Assistant Agricultural Officers are under the direct technical guidance of an Agricultural Officer, who also visit all the microgroups in a systematic and planned manner. Every 6 to 8 Agricultural Officers are under the control of an Assistant Director of Agriculture who is having a separate office at Taluk level. The talukwar staff position is furnished below:-

Taluk	A. D. A.'S Office at	No. of Agri. Officers	No. of Asst. Agri. Officers
Thovalai & Agasteeswaram	NAGERCOIL	6	42
Kalkutam	THUCKALAY	8	58
Vilavancode	KUZHITHURAI	7	56

In addition to the above, each of the Assistant Director of Agriculture is provided with 3 Subject matter Specialists, each dealing in separate subjects like Agronomy, Plant Protection and Information and Training. One more Agricultural Officer is looking after the input position in each Assistant Director of Agriculture Division. At District level one Joint Director of Agriculture helped by District SMS's, is implementing all the T & V Programmes.

District Level Monthly Zonal Workshops are being held in the State Seed Farm Thiruppathisaram once for every 2 fortnights, in which scientists from University, Research Stations and Officers from all the sister departments and agricultural department participate.

All the important field operations, which are to be carried out during the subsequent 2 fortnights are discussed in detail by the Scientists and the other participants of the Workshop and definite messages are finalised on each of the field operations. Rehearsals are done by the Task Subject matter Specialists on the message finalised.

Based on the messages finalised in the workshop, taluk level fortnightly trainings are conducted for the Assistant Agricultural Officers for every fortnight. These specific messages are conveyed to the contact farmers and the other non contact farmers by the Assistant Agricultural Officer with suitable simple teaching aids, during his visit to the microgroups. Thus the messages are conveyed to all the farmers of all the microgroups within the fortnight through the Village meetings. Field demonstrations are also shown to the farmers. To convince the farmers of the new messages conveyed, mini demonstrations are conducted

in the farmers holdings. Any problems raised by the farmers are cleared by the visiting officers such as Agricultural Officer, Subject Matter Specialist and Assistant Director of Agriculture. The unsolved problems are brought to the workshop for discussion. If any problem remain unsolved in the workshop, they are fed back to the research Stations and University for detail study. Thus all the problems are got cleared by the Scientists at all level.

Training and Visit System has started gaining momentum and the farmers are fully availing the facilities provided through this system.

It is sure that this system will help the farmers for better **PRODUCTIVITY** thereby giving them a good **PROFITABILITY** finally leading to their **PROSPERITY**.

OUR AIM

**5 TONS OF PADDY
PER HECTARE**

WATER LEVEL - PECHPARAI DAM
STORAGE - MFLT.
REGULATED MARKET DETAILS

Sl. No.	Month	YEAR OF OPENING	PLACE OF THE REGULATED MARKETS										1988 Storage Level	1988 Storage Level	1988 Storage Level	1988 Storage Level	1988 Storage Level	1988 Storage Level			
			1st	2nd	3rd	4th	5th	6th	7th	8th	9th	10th									
1.	January	1967	Eathamozhy Regulated Market	Door No. 19/4	Door No. 19/4	Door No. 19/4	Door No. 19/4	Door No. 19/4	Door No. 19/4	Door No. 19/4	Door No. 19/4	Door No. 19/4	Door No. 19/4	Door No. 19/4	Door No. 19/4	Door No. 19/4	Door No. 19/4	Door No. 19/4	Door No. 19/4		
2.	February	"	Vadasery Regulated Market	Door No. 19/3 & 2-A, A.187	Door No. 19/3 & 2-A, A.187	Door No. 19/3 & 2-A, A.187	Door No. 19/3 & 2-A, A.187	Door No. 19/3 & 2-A, A.187	Door No. 19/3 & 2-A, A.187	Door No. 19/3 & 2-A, A.187	Door No. 19/3 & 2-A, A.187	Door No. 19/3 & 2-A, A.187	Door No. 19/3 & 2-A, A.187	Door No. 19/3 & 2-A, A.187	Door No. 19/3 & 2-A, A.187	Door No. 19/3 & 2-A, A.187	Door No. 19/3 & 2-A, A.187	Door No. 19/3 & 2-A, A.187	Door No. 19/3 & 2-A, A.187	Door No. 19/3 & 2-A, A.187	
3.	March	"	Vadasery Krishnancoil Road	Krishnancoil - Nagercoil	Krishnancoil - Nagercoil	Krishnancoil - Nagercoil	Krishnancoil - Nagercoil	Krishnancoil - Nagercoil	Krishnancoil - Nagercoil	Krishnancoil - Nagercoil	Krishnancoil - Nagercoil	Krishnancoil - Nagercoil	Krishnancoil - Nagercoil	Krishnancoil - Nagercoil	Krishnancoil - Nagercoil	Krishnancoil - Nagercoil	Krishnancoil - Nagercoil	Krishnancoil - Nagercoil	Krishnancoil - Nagercoil	Krishnancoil - Nagercoil	
4.	April	"	Kaliakkavilai Regulated Market	Kozhivilai Junction, Kaliakkavilai-Kollemcode Road, Kaliakkavilai	Kaliakkavilai-Kollemcode Road, Kaliakkavilai	Kaliakkavilai-Kollemcode Road, Kaliakkavilai	Kaliakkavilai-Kollemcode Road, Kaliakkavilai	Kaliakkavilai-Kollemcode Road, Kaliakkavilai	Kaliakkavilai-Kollemcode Road, Kaliakkavilai	Kaliakkavilai-Kollemcode Road, Kaliakkavilai	Kaliakkavilai-Kollemcode Road, Kaliakkavilai	Kaliakkavilai-Kollemcode Road, Kaliakkavilai	Kaliakkavilai-Kollemcode Road, Kaliakkavilai	Kaliakkavilai-Kollemcode Road, Kaliakkavilai	Kaliakkavilai-Kollemcode Road, Kaliakkavilai	Kaliakkavilai-Kollemcode Road, Kaliakkavilai	Kaliakkavilai-Kollemcode Road, Kaliakkavilai	Kaliakkavilai-Kollemcode Road, Kaliakkavilai	Kaliakkavilai-Kollemcode Road, Kaliakkavilai	Kaliakkavilai-Kollemcode Road, Kaliakkavilai	
5.	May	"	Monday Market Regulated Market	Peria Palli Salai, Monday Market.	Peria Palli Salai, Monday Market.	Peria Palli Salai, Monday Market.	Peria Palli Salai, Monday Market.	Peria Palli Salai, Monday Market.	Peria Palli Salai, Monday Market.	Peria Palli Salai, Monday Market.	Peria Palli Salai, Monday Market.	Peria Palli Salai, Monday Market.	Peria Palli Salai, Monday Market.	Peria Palli Salai, Monday Market.	Peria Palli Salai, Monday Market.	Peria Palli Salai, Monday Market.	Peria Palli Salai, Monday Market.	Peria Palli Salai, Monday Market.	Peria Palli Salai, Monday Market.		
6.	June	"	Thoduvatty Regulated Market	Thoduvatty - Marthandam Road, Near Vetturini, Thoduvatty	Thoduvatty - Marthandam Road, Near Vetturini, Thoduvatty	Thoduvatty - Marthandam Road, Near Vetturini, Thoduvatty	Thoduvatty - Marthandam Road, Near Vetturini, Thoduvatty	Thoduvatty - Marthandam Road, Near Vetturini, Thoduvatty	Thoduvatty - Marthandam Road, Near Vetturini, Thoduvatty	Thoduvatty - Marthandam Road, Near Vetturini, Thoduvatty	Thoduvatty - Marthandam Road, Near Vetturini, Thoduvatty	Thoduvatty - Marthandam Road, Near Vetturini, Thoduvatty	Thoduvatty - Marthandam Road, Near Vetturini, Thoduvatty	Thoduvatty - Marthandam Road, Near Vetturini, Thoduvatty	Thoduvatty - Marthandam Road, Near Vetturini, Thoduvatty	Thoduvatty - Marthandam Road, Near Vetturini, Thoduvatty	Thoduvatty - Marthandam Road, Near Vetturini, Thoduvatty	Thoduvatty - Marthandam Road, Near Vetturini, Thoduvatty	Thoduvatty - Marthandam Road, Near Vetturini, Thoduvatty	Thoduvatty - Marthandam Road, Near Vetturini, Thoduvatty	Thoduvatty - Marthandam Road, Near Vetturini, Thoduvatty
7.	July	"	Kulasekharam Regulated Market	Kulasekharam	Kulasekharam	Kulasekharam	Kulasekharam	Kulasekharam	Kulasekharam	Kulasekharam	Kulasekharam	Kulasekharam	Kulasekharam	Kulasekharam	Kulasekharam	Kulasekharam	Kulasekharam	Kulasekharam	Kulasekharam	Kulasekharam	
8.	August	"	Karungal Regulated Market (Sub Market)	Karungal-Colachel Road, Karungal	Karungal-Colachel Road, Karungal	Karungal-Colachel Road, Karungal	Karungal-Colachel Road, Karungal	Karungal-Colachel Road, Karungal	Karungal-Colachel Road, Karungal	Karungal-Colachel Road, Karungal	Karungal-Colachel Road, Karungal	Karungal-Colachel Road, Karungal	Karungal-Colachel Road, Karungal	Karungal-Colachel Road, Karungal	Karungal-Colachel Road, Karungal	Karungal-Colachel Road, Karungal	Karungal-Colachel Road, Karungal	Karungal-Colachel Road, Karungal	Karungal-Colachel Road, Karungal	Karungal-Colachel Road, Karungal	
9.	September	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	
10.	October	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	
11.	November	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	
12.	December	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	
13.	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	
14.	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	
15.	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	"	

WATER LEVEL - PECHIPPARAI DAM

LEVEL - IN. FT.

STORAGE - MCFT.

Sl. No.	Month	1974		1975		1976		1977		1978	
		Level	Storage	Level	Storage	Level	Storage	Level	Storage	Level	Storage
1.	January	1st	19.40	1222.00	6.37	1333.0	10.6	2508.0	7.72	1672.0	38.40
		15th	16.95	1010.50	4.63	918.1	30.2	2060.0	20.8	1330.0	34.70
2.	February	1st	9.70	541.00	5.80	300.2	27.3	1442.0	12.5	727.0	28.80
		15th	5.10	260.30	0.97	155.1	16.0	947.7	5.5	283.8	22.80
3.	March	1st	4.10	204.30	2.50	117.9	10.6	601.0	4.9	249.0	16.80
		15th	3.90	193.20	4.60	232.1	13.3	781.4	3.3	163.1	16.15
4.	April	1st	3.95	195.95	4.80	243.3	16.4	1002.0	6.5	340.0	15.60
		15th	4.10	204.30	4.95	251.9	17.7	1098.0	9.1	502.3	19.45
5.	May	1st	4.90	249.00	8.30	443.2	18.4	1151.5	11.2	644.2	20.85
		15th	6.30	329.20	10.40	587.3	18.6	1163.1	16.1	981.5	21.90
6.	June	1st	11.30	648.5	12.50	727.0	19.7	1248.0	20.0	1268.0	22.60
		15th	13.75	815.50	16.35	999.4	14.7	882.0	22.0	1419.0	17.90
7.	July	1st	11.00	627.90	7.16	1534.0	4.7	237.8	17.0	1044.0	13.90
		15th	8.00	430.90	7.13	1524.0	0.7	117.9	10.5	592.8	11.60
8.	August	1st	7.40	393.00	18.0	1119.0	4.3	215.4	6.4	3035.1	8.00
		15th	11.30	648.50	6.03	1283.0	2.8	133.8	4.4	221.6	5.10
9.	Sept.	1st	23.10	1499.00	4.54	897.3	7.1	376.0	5.4	270.4	8.15
		15th	20.60	1312.00	13.10	772.5	11.6	666.7	7.2	381.9	7.10
10.	Oct.	1st	9.15	2058.00	23.30	1517.0	14.8	889.0	6.3	329.0	5.90
		15th	36.40	2719.00	24.40	1603.0	5.21	1054.0	1.21	701.3	7.10
11.	Nov.	1st	35.75	2627.00	26.0	1726.0	6.3	1322.0	36.2	2694.0	18.30
		15th	32.90	2275.00	37.00	2302.0	7.5	1111.0	41.9	3505.0	46.00
12.	Dec.	1st	28.30	1905.00	38.70	3023.0	30.0	2046.0	45.6	4068.0	45.60
		15th	25.20	1659.00	10.89	2627.0	28.2	1901.0	43.1	3669.0	45.15
											3994.0

WATER LEVEL - PECHIPPARAI DAM

LEVEL - in ft. / STORAGE - mcft.

No.	Month	1979		1980		1981		1982		1983	
		Level	Storage	Level	Storage	Level	Storage	Level	Storage	Level	Storage
1. January	1st	41.5	3451.0	37.40	2841.0	21.2	1358.0	42.2	3540.6	7.20	381.9
"	15th	38.0	2927.0	33.85	2389.0	17.0	1044.0	39.2	3100.0	2.4	112.7
2. February	1st	32.9	2275.0	23.55	1925.0	8.9	489.7	34.7	2502.8	1.7	33.0
"	15th	28.5	1918.0	23.50	1534.0	4.3	218.2	31.1	2127.0	1.1	47.3
3. March	1st	25.8	1685.0	16.8	1032.0	2.2	104.8	26.0	1726.0	1.4	61.9
"	15th	24.7	1626.5	9.60	534.4	2.0	92.0	26.4	1754.0	0.09	-
4. April	1st	25.2	1659.0	8.65	473.5	2.5	117.9	30.9	2117.1	1.0	42.6
"	15th	26.25	1744.0	9.40	522.3	3.0	144.4	31.8	2187.0	0.5	26.8
5. May	1st	27.9	1879.0	10.35	583.9	3.5	171.3	34.5	2468.0	0.7	28.6
"	15th	29.6	2008.0	11.55	663.4	5.0	254.9	36.7	2760.5	1.2	52.1
6. June	1st	30.3	2069.5	12.45	723.9	5.9	309.0	28.4	1916.0	2.80	13.8
"	15th	28.5	1918.0	14.45	861.8	26.1	1735.0	29.5	1991.0	2.80	12.0
7. July	1st	27.1	1815.0	13.10	772.0	31.7	2182.0	36.9	2789.0	6.60	288.2
"	15th	27.0	1815.0	10.15	570.5	28.3	1909.5	34.1	2425.5	6.50	341.0
8. August	1st	24.6	1614.0	8.60	469.8	22.2	1432.0	33.8	2384.0	7.05	70.0
"	15th	24.7	1626.5	5.90	306.0	23.7	1545.0	33.0	2280.0	7.10	376.0
9. Sept.	1st	19.6	1243.5	7.55	403.5	27.2	1824.0	28.9	1954.0	9.10	502.3
"	15th	17.2	1059.0	3.10	149.7	25.2	1659.0	27.7	1858.0	5.00	254.9
10. Oct.	1st	16.1	981.5	3.60	176.3	36.1	2676.3	21.0	1343.0	8.00	-
"	15th	12.4	720.9	8.20	444.5	38.8	3041.4	14.7	882.8	6.80	-
11. Nov.	1st	19.9	1259.0	13.25	778.7	45.5	404.0	4.6	232.0	6.30	329.0
"	15th	30.7	2103.0	18.00	1119.0	45.7	4074.0	11.3	648.5	17.60	-
12. Dec.	1st	37.8	2910.0	19.20	1208.0	45.5	4501.7	16.1	981.5	16.00	981.5
"	15th	40.1	3231.0	17.50	1083.0	45.0	3967.0	15.7	958.6	15.70	958.6

WATER LEVEL - PERUNCHANI DAM

LEVEL - in ft.

STORAGE - mcft.

Sl. No.	Month	1974		1975		1976		1977		1978		
		Level	Storage	Level	Storage	Level	Storage	Level	Storage	Level	Storage	
1.	January	1st	39.6	478.0	22.5	173.0	57.5	1270.0	50.8	911.4	67.6	2036.0
	"	15th	32.1	276.0	28.1	6.3	50.9	915.7	40.2	488.0	60.7	1480.8
2.	February	1st	1.0	7.0	4.5	34.5	38.9	460.1	26.1	204.2	50.6	904.4
	"	15th	0.4	2.8	0.4	2.9	32.8	293.6	21.5	165.4	45.0	679.9
3.	March	1st	0.5	3.5	1.4	9.8	25.7	200.3	11.7	97.9	41.8	551.0
	"	15th	5.5	43.5	10.5	84.9	26.0	203.4	8.1	65.2	41.5	537.0
4.	April	1st	8.7	69.6	12.5	102.4	26.4	206.6	12.3	100.4	41.1	521.0
	"	15th	12.5	102.4	14.1	115.5	28.9	221.8	15.5	122.7	40.6	505.4
5.	May	1st	14.2	116.0	23.5	181.0	29.4	232.6	20.7	158.6	40.1	490.9
	"	15th	15.9	124.5	26.5	207.0	29.6	235.0	33.0	300.4	40.0	480.4
6.	June	1st	30.0	237.0	29.0	229.0	31.2	250.4	39.0	463.0	40.6	506.8
	"	15th	33.9	324.2	34.4	338.7	24.2	186.8	40.1	490.9	35.2	359.7
7.	July	1st	30.8	243.4	55.2	1138.4	9.7	78.0	40.9	514.0	22.3	171.4
	"	15th	32.3	381.4	49.0	837.0	0.5	3.5	35.7	371.8	2.2	16.0
8.	August	1st	34.2	327.0	46.5	739.5	13.7	112.7	33.7	318.6	30.5	241.4
	"	15th	38.2	299.0	53.9	1010.8	9.0	64.0	13.5	110.5	31.0	245.0
9.	Sept.	1st	51.3	938.2	55.3	1143.5	28.5	224.5	24.5	189.5	38.3	442.7
	"	15th	48.8	829.0	48.4	813.0	30.7	243.0	21.5	165.0	30.4	240.2
10.	Oct.	1st	55.7	1164.4	58.4	1333.6	29.8	235.4	22.1	169.8	16.0	125.2
	"	15th	58.1	1314.4	55.5	1154.0	35.9	377.3	35.8	374.6	14.5	117.5
11.	Nov.	1st	52.0	977.6	58.7	1356.0	37.9	431.3	68.5	2100.0	40.2	495.2
	"	15th	49.4	853.0	68.5	2100.0	40.8	512.5	70.0	2220.0	75.2	270.2
12.	Dec.	1st	49.0	837.0	62.6	1632.0	50.2	1384.8	74.0	2580.0	73.6	254.7
	"	15th	40.7	508.3	59.2	1420.0	58.7	1356.0	72.5	2450.0	70.9	229.6

WATER LEVEL - PERUNCHANI DAM

LEVEL - in ft.

STORAGE - mcft.

Sl. No.	Month	1979		1980		1981		1982		1983	
		Level	Storage	Level	Storage	Level	Storage	Level	Storage	Level	Storage
1.	January	1st	67.7	2040.0	63.8	1742.0	52.5	286.8	65.7	1880.0	4.87
	"	15th	64.6	1798.0	57.8	1295.0	21.6	166.2	59.7	1416.0	4.05
2.	February	1st	57.9	1201.0	46.1	721.0	7.5	60.0	48.4	813.0	6.20
	"	15th	49.6	863.0	30.0	237.0	5.0	39.0	41.3	529.0	8.70
3.	March	1st	45.6	703.3	10.0	80.12	7.2	57.6	39.3	470.5	6.60
	"	15th	34.75	316.5	18.7	112.7	6.7	53.6	39.1	465.5	-
4.	April	1st	27.1	212.3	11.8	96.2	10.9	83.1	33.7	484.3	6.70
	"	15th	27.5	215.9	14.5	117.7	13.3	180.1	38.5	448.5	0.25
5.	May	1st	27.6	216.8	17.4	133.2	14.3	115.7	41.7	547.0	4.85
	"	15th	31.6	262.5	20.5	157.0	20.2	155.3	46.0	719.0	7.55
6.	June	1st	32.4	284.1	23.5	181.0	21.50	175.0	38.9	461.5	16.15
	"	15th	27.4	214.6	30.7	243.0	60.8	1490.4	38.7	454.3	16.5
7.	July	1st	34.8	344.0	41.4	535.0	68.8	2124.0	53.1	1031.8	32.60
	"	15th	38.2	441.2	41.3	531.0	67.1	1988.0	48.7	825.0	34.45
8.	August	1st	37.8	428.6	29.0	229.0	61.3	1525.0	53.2	1037.0	39.90
	"	15th	45.9	715.5	5.0	39.0	67.1	1988.0	58.2	1324.2	33.60
9.	Sept.	1st	34.6	342.6	10.7	86.3	65.8	1888.0	54.9	1122.8	21.10
	"	15th	34.7	346.0	4.0	30.7	63.9	1732.0	40.0	489.0	19.75
10.	Oct.	1st	34.5	341.3	16.5	127.5	70.9	2293.0	12.5	100.0	26.65
	"	15th	36.0	380.0	26.7	208.6	67.2	2000.0	9.7	78.0	25.90
11.	Nov.	1st	41.9	553.0	34.8	349.1	74.8	2682.0	20.9	160.2	46.00
	"	15th	60.1	1442.4	37.1	409.7	75.0	2702.0	36.2	-	-
12.	Dec.	1st	67.8	2044.0	38.0	435.0	73.0	2495.0	30.9	244.6	44.15
	"	15th	67.8	2048.0	27.3	213.2	59.2	2160.0	19.6	150.9	30.20
											238.6



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