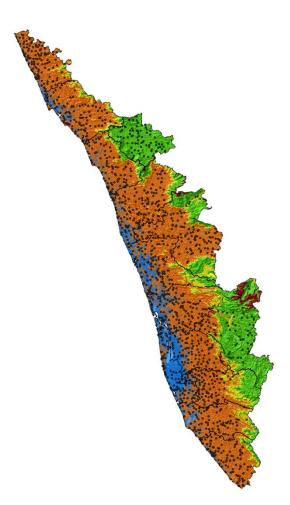
TECHNICAL REPORT SERIES



GROUND WATER YEAR BOOK OF KERALA (2017-2018)



KERALA REGION THIRUVANANTHAPURAM

NOVEMBER 2018



GROUND WATER YEAR BOOK OF KERALA (2017-2018)

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FOREWORD

Ground water is an important source of water for meeting the drinking, agricultural and industrial needs in India. Over the last few decades, the use of ground water in the country has increased manifold, exerting pressure on the limited resources available and threatening their long-term sustainability in many places. Kerala, though blessed with copious rainfall and abundant surface water resources, depends heavily on the limited ground water resources to meet its drinking and domestic water requirements, especially in the rural habitations. In the recent past, scarcity of drinking water resources during summer months is being faced by several habitations in the State with increasing regularity.

Kerala State has limited ground water development prospects owing to the largely undulating topography and predominance of crystalline rocks devoid of any primary porosity. Increasing demand of fresh water resources due to change in life styles, agricultural practices and urbanisation has resulted in increasing stress on the ground water regime in several areas of the State. Contamination of ground water resources from natural and anthropogenic sources is also emerging as a major threat to the sustainability of ground water resources in many areas. Anticipated impact of impending climate change and sea level rise also has the potential to change the ground water regime in the State. Scientific management of ground water resources of the State has become imperative to ensure prevention of further ground water depletion and contamination and to ensure its long-term sustainability.

To build a realistic ground water management strategy, assessment of ground water availability and its quality is a pre-requisite. With this in view, Central Ground water Board has established a network of Ground Water Monitoring Wells (GWMW) tapping different aquifers in the State. Presently, there are 1668 GWMW in Kerala State, out of which 1402 are dug wells tapping phreatic aquifers and 266 are bore wells /tube wells tapping deeper semi-confined/confined aquifers, which are monitored four times a year. The document "**Ground Water Year Book Kerala (2017-18)**" is a compilation of water level and water quality data collected from these wells during 2017-18. The behaviour of water level during the four monitoring periods and their fluctuations – both seasonal and long term, have been analysed and included in this report. Besides this, behaviour of piezometric heads of deeper aquifers in hard rock as wells as in sedimentary aquifers have also been discussed. The chapter on Hydrochemistry brings out the ground water quality of water samples collected from the wells tapping the phreatic aquifer.

The efforts of the Officers of CGWB, Kerala Region, Thiruvananthapuram in collecting the data and the meticulous work done by the team of officers comprising Dr. N. Vinayachandran, Scientist-D, Shri.M.Santhana Subramani Scientist- C, Shri Sreehari Sarangan, AHG, Smt. V. N. Sreelatha, Sc- D, and Smt. Bindu J. Viju, Scientist- B in compiling this document deserve appreciation. I hope this compilation will be of use to planners, policy makers and stakeholders in the field of ground water in Kerala.

Thiruvananthapuram November 2018.

(V. Kunhambu) Regional Director

I INTRODUCTION

The awareness among the public about the importance of the groundwater has increased during the recent years. The need for groundwater being felt by all sectors because of the shortage of surface water sources to mitigate the growing needs of the society. Recently the problems of decline in water table, contamination of groundwater, seawater intrusion etc are being reported at many places. The shortage of rainfall in recent years and the increased utilisation of ground water caused concern among the public that water may become scarce commodity in future. In order to assess the real situation of ground water conditions, it is very essential to monitor the groundwater level and water quality over time and space. Central Ground Water Board is monitoring water level and quality through a network of Ground Water Monitoring Wells distributed throughout the State. The monitoring started from the year 1969 for nine monitoring wells and the numbers of monitoring wells were increased during the subsequent years and became 224 by the year 1979 and the number became 460 by the year 1988. Presently the total number of Ground Water Monitoring Wells (GWMWs) through out the Kerala State is 1668. Water level is being monitored four times a year during January, April, August and November months and water quality is being monitored from the water samples collected from GWMWs during April.

Kerala State is a narrow stretch of land covering 38863 sq.km area bordering the Lakshadweep Sea on the western side and Tamil Nadu and Karnataka States on the eastern side. The length of the State from north to south is 560 km and the average width is 70 km. with a maximum of 125 km. It lies between North latitudes $08^{0}18$ ' and $12^{0}48$ ' and East longitudes $74^{0}52$ ' and $77^{0}22$ '.

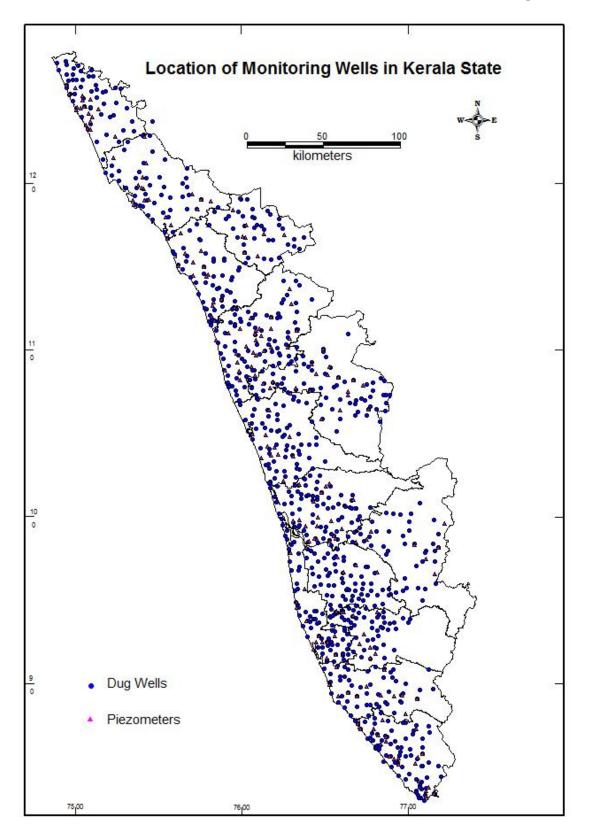
The total number of GWMWs as on 31.3.2018 is 1668. Out of these, 1402 are Dug wells tapping phreatic aquifers and 266 are Borewells /Tubewells tapping deeper aquifers of confined / semi-confined nature. These GWMWs are spread over all the physiographic divisions of the State. About 62% of the GWMWs fall in the midland region, 18% in coastal plains, 15% in highlands and 5% in Plateau region. Among the GWMWs tapping phreatic aquifer, 65% are tapping laterite, 17% tapping weathered and fractured crystallines, 15% tapping coastal alluvium and 3% tapping riverine alluvium. The data of these GWMWs were analysed to understand the depth to water level scenario in the State, annual fluctuation in the water levels due to the monsoon recharge, long term trend in water levels and the nature of the quality of ground water and the salient features are brought out in this report. Maps of depth to water level, water level fluctuation with respect to April and decadal mean are prepared using the data of GWMWs tapping phreatic aquifer. Some hydrographs representing phreatic, semi-confined and confined aquifers in sedimentary and hard rock aquifers are also incorporated in this report.

The district wise break-up of GWMWs are given in the Table 1.1 and locations are shown in Figure 1.1. The water level data collected during the year 2017– 18 of GWMWs (dug wells) are given in Annexure-I. The hydro-chemical data of water samples collected during April 2017 are given in Annexure-II.

Sl. No.	Name of district	No. of	Density km²/		
		Dug Wells	Piezometers	Total	GWMW
1.	Thiruvananthapuram	114	22	136	12.1
2.	Kollam	108	20	128	12.4
3.	Pathanamthitta	82	14	96	11.1
4.	Alappuzha	81	22	103	12.6
5.	Kottayam	99	8	107	19.2
6.	Idukki	69	8	77	31
7.	Ernakulam	123	18	141	15.1
8.	Thrissur	120	20	140	13.7
9.	Palakkad	120	42	162	18.0
10.	Malappuram	121	22	143	17.3
11.	Kozhikode	84	20	104	18.2
12.	Wayanad	75	9	84	15.5
13.	Kannur	100	16	116	20.8
14.	Kasaragod	106	25	131	14.5
	Total	1402	266	1668	

Table 1.1:District wise breakup of Ground Water Monitoring Wells in Kerala
State as on 31-03-2017





II HYDROGEOLOGY

The occurrence and movement of ground water is mainly controlled by many factors such as physiography, geology, climate etc and are described in the following paragraphs.

Physiography

Physiographically the State is divided into three major units viz. the coastal plains, the midlands and the hill ranges. The coastal plains have an elevation of less than 7.6m whereas the elevation of the midland ranges from 7.6 to 76 m and that of the hill ranges is more than 76 m above mean sea level (amsl). Along the hill ranges two distinct plateau regions are seen, the important being the Wayanad plateau, which covers major part of Wayanad district, the general elevation of which is above 700 m amsl. The other plateau is the Munnar plateau in Idukki district, the elevation of which is about 1000 m amsl.

Geology

Geologically 88% of the State is underlain by crystalline rocks of Archaean age, which is a part of the peninsular shield. The crystalline complex of Kerala is composed of charnockites, gneisses, schists, migmatites and rocks of the Wayanad supracrustals. Along the western portion of the State the crystalline rocks are overlain by the sedimentary formations of Tertiary age and Recent alluvial formations. The Tertiary sequence of formations have been divided into four beds viz. Alappuzha, Vaikom, Quilon and Warkalli, the age of which ranges from Eocene to Lower Miocene. Laterites of Subrecent age derived from the crystallines as well as sedimentary formations are seen all along the midlands. Along the coastal plains, sedimentaries and laterites are overlain by alluvium of Recent age. The geological succession in Kerala is given in Table 2.1.

AGE	FORMATION	LITHOLOGY
Recent	Alluvium	Sand, clay, riverine alluvium etc. and flood plain deposits of Kuttanad area
Sub-recent	Laterite	Derived from crystalline and sedimentary rocks
	Warkalli	Sand stone, clays with lignite seams
	Quilon	Limestone, marl and clay
	Vaikom	Sandstone with pebbles and gravel beds, clay and lignite
	Alappuzha	Carbonaceous clay and fine sand
Undated	Intrusives	Dolerite, Gabbro, Granites, Quartzo-feldspathic Veins

	Wayanad group	Granitic gneiss and Schists
Archaean	Charnockites	Charnockites and associated rocks
	Khondalites	Khondalites suite of rocks and its associates

Occurrence of Groundwater

Ground water occurs under phreatic, semi-confined and confined conditions in the above formations. The weathered crystallines, laterites and alluvial formations form the major phreatic aquifers, whereas the deep fractures in the crystallines and the granular zones in the Tertiary sedimentary formations form the semi-confined and confined aquifers.

Thick zones of weathered crystallines are seen along midland region. The depth to water level in the weathered crystallines in the midland area ranges from 3 to 16 mbgl. The midland area sustains medium capacity dug wells for irrigation. Along the hill ranges, the crystalline rocks are covered by thin weathered zone. Mostly dug wells that can cater to domestic needs are feasible along topographic lows. Bore wells tapping deeper fracture aquifer are feasible along potential fractures in the midland and hill ranges. Potential fractures are seen down to 240 mbgl and the most productive zone lies between 60 and 175 mbgl and the discharge of bore wells range between 36,000 and 1,25,000 lph.

Of the four Tertiary beds, the two beds viz. the Vaikom and Warkalli form potential aquifers. The oldest Alappuzha beds contain brackish water as inferred from electrical logs, whereas the Quilon beds are poor aquifers. The Vaikom aquifer is seen all along the coast between Quilon and Ponnani and the piezometric surface ranges from 1 to 18 m above msl. The aquifer is extensively developed between Quilon and Kayamkulam. The aquifer contains fresh water south of Karuvatta in Alappuzha district and also in isolated pockets in Ernakulam district. The annual flow in the aquifer is computed as 43 MCM, of which 10 MCM is brackish. The Warkalli aquifer is seen south of Cochin. The piezometric head in the aquifer varies from 2.6 m above msl to 10 m below msl. The aquifer is largely developed in and around Alappuzha. The annual flow in the aquifers is computed as 63 MCM and the draft is around 22 MCM.

Laterites are the most widely distributed lithological unit in the State and the thickness of the formation varies from a few meters to about 30m. The depth to water level in the formation ranges from less than a meter to 25 mbgl. Laterite forms potential aquifers along valleys and can sustain medium duty irrigation wells with the yields in the range of $0.5 - 6 \text{ m}^3$ per day.

The alluvium forms potential aquifer along the coastal plains and ground water occurs under phreatic and semi-confined conditions in this aquifer. The thickness of this formation varies from few meters to above 100 m and the depth to water level ranges from less than a meter to 6 mbgl. Filter point wells are feasible wherever the saturated thickness exceeds 5 m.

III RAINFALL DISTRIBUTION IN KERALA DURING 2017-18

Introduction rain

Rainfall is the major source of ground water recharge and the rainfall pattern plays an important role on the water levels in the phreatic aquifers and in the deeper aquifers.Therainfall data received from India Meteorological Department, Thiruvananthapuram for the period from April 2017 to March 2018 is analysed and discussed in this report.

Annual rainfall distribution

The total rainfall ranged from 1755 to 3158 mm during the period from April 2017 to March 2018. The maximum rainfall was recorded in Kozhikode district and the minimum in Thiruvananthapuram district. During the southwest monsoon season, Thiruvananthapuram district recorded 764 mm and Kasaragod district recorded 2646 mm, which are the lowest and highest rainfall respectively. During the northeast monsoon season, Wayanad district recorded the lowest rainfall of 165 mm and Kollam district recorded the highest rainfall of 950 mm.

Monthly rainfall distribution

The monthly rainfall data for all the fourteen districts are given in Table 3.1. The state used to receive sufficient rainfall during the months of June to September i.e. southwest monsoon in all the 14 districts. Almost all the districts recorded with deficient rainfall during the month of October to December due to the influence of north-east monsoon season.

Normal rainfall vs. actual rainfall

The actual rainfall during different seasons has been compared with the normal rainfall of the seasons to find out the variation of the rainfall and is discussed in detail in the following paragraphs.

Summer period

The seasonal rainfall and their percentage departure from normal rainfall are given in Table 3.2. During the months of April-May 2017, the departure of pre-monsoon rainfall varied from - 67 to 21 % in different districts. As per the IMD norms, five districts were recorded with normal and only one district recorded with excess types of rainfall, seven districts received deficient and remaining one district recorded largest deficient rainfall during this period. The maximum departure towards negative side was

observed in Kasaragod district with a maximum deviation of - 67% from the normal. Excess rainfall was received only in Kollam district. There is no scanty rainfall observed. The details are presented in Figure 3.1(a) and table. 3.2

South-west monsoon period

During the southwest monsoon season from June to September 2017, the departure of rainfall in the districts varied from -37% to 2%. The maximum deficit rainfall recorded in Wayanad district out of all fourteen rainfall districts. Record time for all the districts, thirteen district recorded normal rainfall and the one district received deficient rainfall. The details are given in Figure 3.1(b) and table.3.2.

North-east monsoon period

During the northeast monsoon season from October to December 2017, the departure of rainfall varied from 49 % to - 59 % in different districts. The maximum departure towards deficient rainfall recorded in Palakkad district. Only three districts recorded excess rainfall during this season, six districts recorded deficient and one district recorded large deficient type of rainfall. Normal rainfall is observed in four districts during the period and the details are presented in Figure 3.1(c) and table.3.2.

Winter period

During the months of January to March 2018, the departure of rainfall varied from 163% to -46 %.

The maximum departure towards large excess rainfall recorded in Kasaragod district. Four districts recorded large excess rainfall during this season, four districts recorded excess rainfall and three districts recorded deficient type of rainfall. Normal rainfall is observed in three districts during this winter season.

This may be mainly recent development of climate. The details are presented in Figure 3.1(d) and table.3.2.

Seasonal rainfall contribution to the total rainfall of the year 2017-18

The seasonal rainfall contributions to the total rainfall in percentages are given in Table 3.3 and shown in Figure 3.2. The pattern shows that the southwest monsoon season's contribution is increasing from south to north whereas, during the northeast monsoon season the rainfall is increasing from north to south. The other two seasons do not follow any specific pattern.

The rainfall during April and May contributes 3 % to 16.90 %, south-west monsoon season from June to September 43.50% to 89.90 %, north-east monsoon season

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from October to December 6.10 % to 38 % and January to March 0.5% to 4.7 % in different districts.

Comparison of 2017-18 rainfall with previous year rainfall

The rainfall in various seasons of 2017-18 has been compared with the previous year rainfall for the assessment of the change in the ground water regime. The details are given in the following paragraphs.

Summer season

The rainfall of April and May 2017 has been compared with the summer rainfall of 2016 and the departure is given in Table 3.4 and Figure 3.3. The departure in summer rainfall in the district varied from 83.4 % to -42 %. The maximum negative departure is observed in Thiruvananthapuram district and the minimum in Kottayam district. Five districts during the season received positive departure and the maximum positive departure is observed in Wayanad district. Comparatively, this summer season recorded excess rain rainfall than the previous year summer season.

Southwest monsoon season

The rainfall during June to September in 2017 has been compared with that in 2016 and the departure is given in Table 3.4 and Figure 3.3. The departure varied from 15.6 % to 60.1%. All fourteen districts recorded excess rainfall in comparison with the previous year southwest monsoon season. The average rainfall during the season is 1850 mm which is 70% of the annual rainfall.

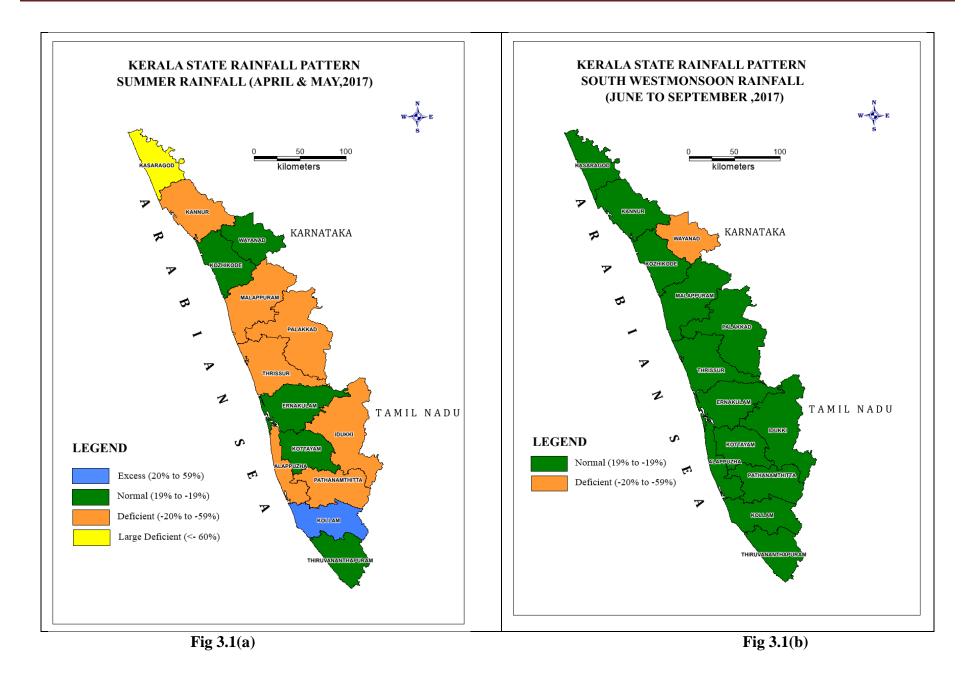
Northeast monsoon season

The rainfall during October to December 2017 has been compared with that 2016 and the departure is given in Table 3.4 and Figure 3.3. The departure varied from 28.7 % to 493.7 %. All the fourteen districts recorded much excess rainfall in comparison with previous year northwest monsoon season.

Winter season

The rainfall during January to March of 2018 has been compared with the rainfall of January to March 2017 and the departure is given in Table 3.4 and Figure 3.3. The departure varied from 70.2 % to -254.90 %. During the winter season, only two districts was recorded large excess rainfall and two districts recorded normal rainfall and remaining thirteen districts were recorded deficient rainfall in comparison with the previous year winter season. Record time the state has received excess rainfall during this and this be mainly due climate season may to change.

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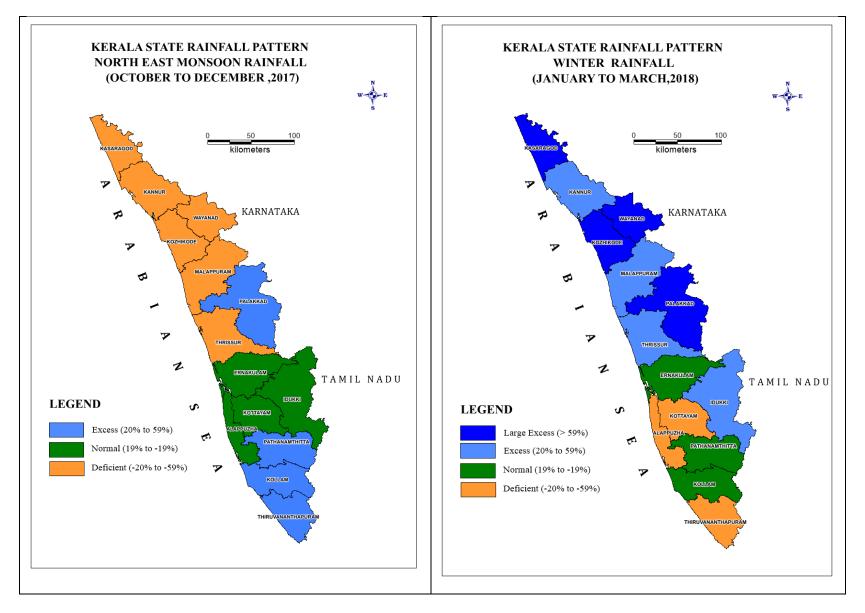


Fig 3.1(c)



Table 3.1

(Figures in mm)															
			2017									2018			
		April	May	June	July	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar		
1	Alappuzha	40.3	287.9	544.7	280.4	323.5	438.5	226.2	195.2	63.5	1.5	14.8	37.5	2454	
2	Kannur	48.2	181.2	694.3	623.6	553	430.4	170.9	69.4	5.9	2	0	12.6	2791.5	
3	Ernakulam	31.4	306	706.3	435.4	415.8	445.3	293	217.8	28.1	1.4	7	51.1	2938.6	
4	Idukki	71.1	210	517.9	293.4	713.1	534.5	285.3	117.1	91	1.8	41.5	51.5	2928.2	
5	Kasaragod	15.5	71.8	858.7	752.8	702.8	331.4	126.2	39.5	14.4	0	4.8	26	2943.9	
6	Kollam	137.7	356.8	532.5	128.5	282.4	412.2	322.5	369	258.5	3.5	8.6	110.7	2922.9	
7	Kottayam	58.2	315.9	654	342.3	450.3	482.4	287.3	267.4	79.1	0.2	5	38.3	2980.4	
8	Kozhicode	68.1	251.8	822.5	662.9	544.6	491.6	216.2	46.1	9.1	7.7	0.8	36.7	3158.1	
9	Malappuram	26.6	122.9	568.8	427	459.7	472.7	211.1	95.6	37.1	0	5.9	19.1	2446.5	
10	Palakkad	28.3	139.5	433.2	317.2	398	375.6	102.8	35.2	38.9	0	25.7	46.6	1941	
11	Pathanamthitta	100	260.1	553.7	204.8	454.3	541.2	427	389.3	76	4.7	42.7	101	3154.8	
12	Thiruvananthapuram	54.2	228.3	318.8	52.9	123	269.3	241.4	274.7	151.2	9.2	13.1	19.3	1755.4	
13	Thrissur	12.9	175.7	674.8	419.3	427.2	354.7	188	113	15.5	0	3.7	30.6	2415.4	
14	Wayanad	60.9	182.8	343.2	419.6	435	454.2	118.5	37.5	9.1	0	11.2	62.4	2134.4	

Monthly Rainfall Distribution during 2017-18

IMD Classification

Large Excess: +60% and above, Excess : +20% to +59%, Normal : +19% to -19%, Deficient : -20% to -59%, Large Deficient : -60% or less, No rain : -100%

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Table 3.2

	Seasonai Kainian, Normai Kainian and the percentage Departure in 2017-18 in Keraia State													
		Sun	nmer Seas	on	S.W. Monsoon Season			N.E. Mo	onsoon Se	ason	Winter season			
			2017		2017				2017		2018			
		April + May	Normal	% Dep	June to September	Normal	% Dep	October to December	Normal	% Dep	January to March	Normal	% Dep	
1	Alappuzha	328.2	432.7	-24	1587.1	1745.9	-9	484.9	572.1	-15	53.8	90.5	-41	
2	Kannur	229.4	292.9	-22	2301.3	2669	-14	246.2	345.1	-29	14.6	12.1	21	
3	Ernakulam	337.4	412.4	-18	2002.8	2065	-3	538.9	489.3	10	59.5	63.2	-6	
4	Idukki	281.1	383	-27	2058.9	2276.2	-10	493.4	564.2	-13	94.8	79.1	20	
5	Kasaragod	87.3	264.5	-67	2645.7	3007.5	-12	180.1	337.9	-47	30.8	11.7	163	
6	Kollam	494.5	407	21	1355.6	1332.3	2	950	638.6	49	122.8	113.8	8	
7	Kottayam	374.1	417.9	-10	1929	1897.3	2	633.8	535.1	18	43.5	80.2	-46	
8	Kozhicode	319.9	337.5	-5	2521.6	2603.1	-3	271.4	422.2	-36	45.2	21.3	112	
9	Malappuram	149.5	308.1	-51	1928.2	2060.4	-6	343.8	448.3	-23	25	18.3	37	
10	Palakkad	167.8	257.4	-35	1524	1572.7	-3	176.9	428	-59	72.3	31.9	127	
11	Pathanamthitta	360.1	479.6	-25	1754	1715.7	2	892.3	624.2	43	148.4	138.9	7	
12	Thiruvananthapura m	282.5	333.3	-15	764	871.3	-12	667.3	522.7	28	41.6	75.9	-45	
13	Thrissur	188.6	368.3	-49	1876	2197.5	-15	316.5	469.4	-33	34.3	27.9	23	
14	Wayanad	243.7	257.9	-6	1652	2632.1	-37	165.1	332.5	-50	73.6	30.6	141	

Seasonal Rainfall, Normal Rainfall and the percentage Departure in 2017-18 in Kerala State

IMD Classification

Large Excess: +60% and above, Excess : +20% to +59%, Normal : +19% to -19%, Deficient : -20% to -59%, Large Deficient : -60% or less, No rain : -100%

Table 3.3

Seasonal Rainfall Distribution and their Percentage Contribution to Annual Rainfall (2017-18)

		April & May		June to September		October to De	ecember	January to March		
		2017	7	2017		2017		2018		
		Rainfall	%	Rainfall	%	Rainfall	%	Rainfall	%	mm
1	Alappuzha	328.2	13.4	1587.1	64.7	484.9	19.8	53.8	2.2	2454
2	Ernakulam	229.4	8.2	2301.3	82.4	246.2	8.8	14.6	0.5	2791.5
3	Idukki	337.4	11.5	2002.8	68.2	538.9	18.3	59.5	2.0	2938.6
4	Kannur	281.1	9.6	2058.9	70.3	493.4	16.8	94.8	3.2	2928.2
5	Kasaragod	87.3	3.0	2645.7	89.9	180.1	6.1	30.8	1.0	2943.9
6	Kollam	494.5	16.9	1355.6	46.4	950	32.5	122.8	4.2	2922.9
7	Kottayam	374.1	12.6	1929	64.7	633.8	21.3	43.5	1.5	2980.4
8	Kozhicode	319.9	10.1	2521.6	79.8	271.4	8.6	45.2	1.4	3158.1
9	Malappuram	149.5	6.1	1928.2	78.8	343.8	14.1	25	1.0	2446.5
10	Palakkad	167.8	8.6	1524	78.5	176.9	9.1	72.3	3.7	1941
11	Pathanamthitta	360.1	11.4	1754	55.6	892.3	28.3	148.4	4.7	3154.8
12	Thiruvananthapuram	282.5	16.1	764	43.5	667.3	38.0	41.6	2.4	1755.4
13	Thrissur	188.6	7.8	1876	77.7	316.5	13.1	34.3	1.4	2415.4
14	Wayanad	243.7	11.4	1652	77.4	165.1	7.7	73.6	3.4	2134.4

IMD Classification

Large Excess: +60% and above, Excess : +20% to +59%, Normal : +19% to -19%, Deficient : -20% to -59%, Large Deficient : -60% or less, No rain : -100%

Table	3.4
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		Summer Season April & May			S.W. Monsoon Season June to September			N.E. Monsoon Season October to December			Winter season January to March		
		2017 (mm)	2016 (mm)	% Dep	2017 (mm)	2016 (mm)	% Dep	2017 (mm)	2016 (mm)	% Dep	2018 (mm)	2017 (mm)	% Dep
1	Alappuzha	328.2	320.6	2.4	1587.1	1134.8	39.9	484.9	208.4	132.7	53.8	112.3	-52.1
2	Ernakulam	229.4	139.4	64.6	2301.3	1991	15.6	246.2	84.4	191.7	14.6	18.3	-20.2
3	Idukki	337.4	366.6	-8.0	2002.8	1569.4	27.6	538.9	295.1	82.6	59.5	115.2	-48.4
4	Kannur	281.1	331.8	-15.3	2058.9	1569.5	31.2	493.4	174.1	183.4	94.8	136.5	-30.5
5	Kasaragod	87.3	138.4	-36.9	2645.7	2252.8	17.4	180.1	71.2	152.9	30.8	18.1	70.2
6	Kollam	494.5	451.7	9.5	1355.6	950.9	42.6	950	406.8	133.5	122.8	166.1	-26.1
7	Kottayam	374.1	375.2	-0.3	1929	1330.7	45.0	633.8	252.4	151.1	43.5	158.5	-72.6
8	Kozhicode	319.9	265.8	20.4	2521.6	1887.3	33.6	271.4	74.6	263.8	45.2	29.1	55.3
9	Malappuram	149.5	159.2	-6.1	1928.2	1251.2	54.1	343.8	118.2	190.9	25	33.5	-25.4
10	Palakkad	167.8	173.3	-3.2	1524	1034.7	47.3	176.9	137.5	28.7	72.3	83.1	-13.0
11	Pathanamthitta	360.1	550.7	-34.6	1754	1095.4	60.1	892.3	425.8	109.6	148.4	329.2	-54.9
12	Thiruvananthapuram	282.5	487.2	-42.0	764	572.3	33.5	667.3	112.4	493.7	41.6	91.4	-54.5
13	Thrissur	188.6	294.7	-36.0	1876	1219.6	53.8	316.5	152.1	108.1	34.3	45	-23.8
14	Wayanad	243.7	132.9	83.4	1652	1073.8	53.8	165.1	104.8	57.5	73.6	65.1	13.1

Comparison of 2017-18 Seasonal Rainfall with the Previous Year Seasonal Rainfa	all of 2016-17
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IMD Classification

Large Excess: +60% and above, Excess : +20% to +59%, Normal : +19% to -19%, Deficient : -20% to -59%, Large Deficient : -60% or less, No rain : -100%

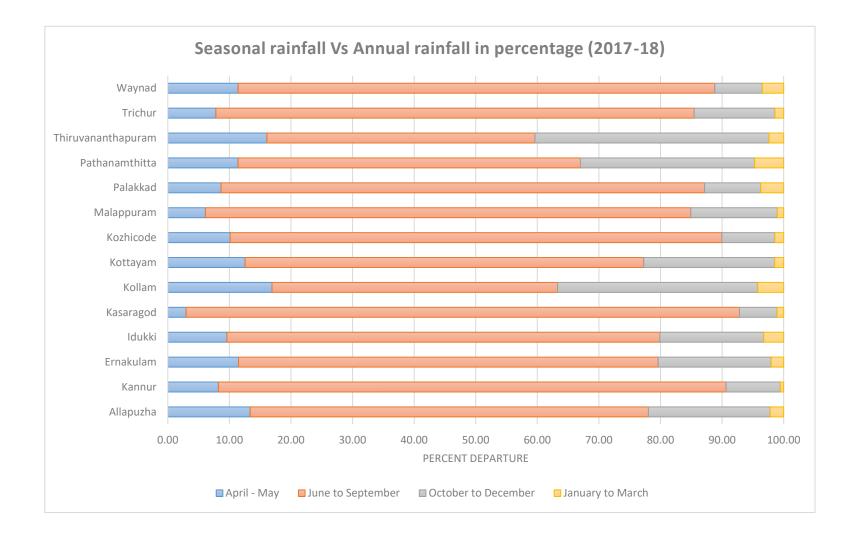


Fig. 3.2 Seasonal rainfall contribution to annual rainfall in percentage (2017-18)

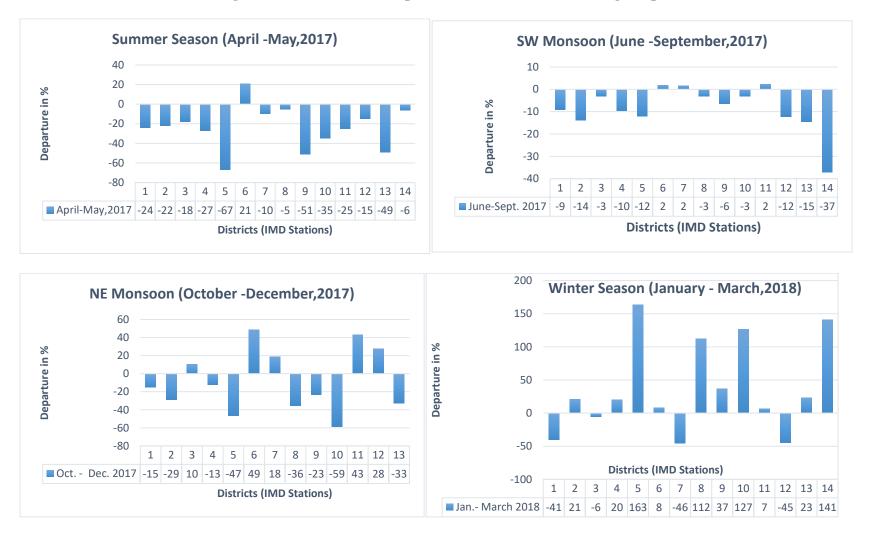
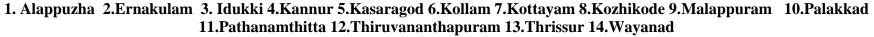


Fig.3.3 Seasonal rainfall Departure from its Normal during the period 2017-18



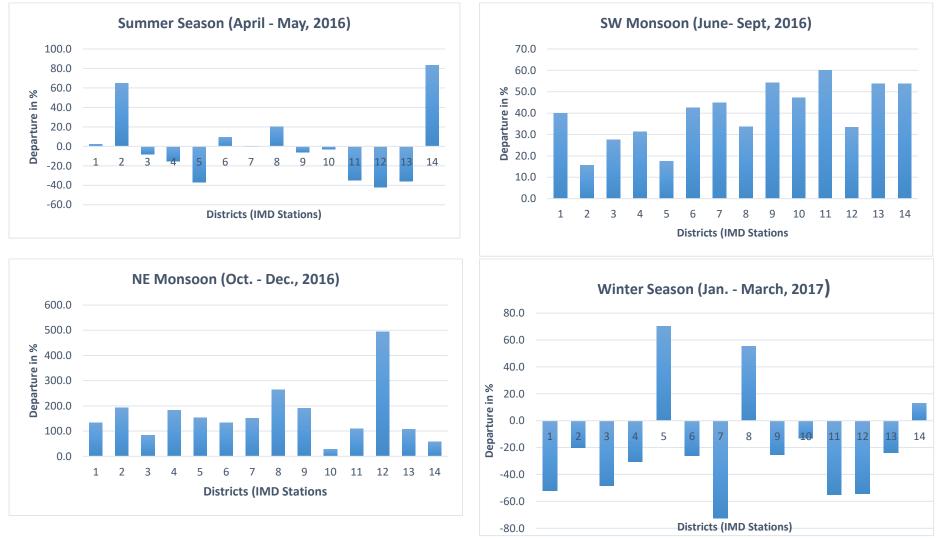


Fig.3.4 Comparison of Seasonal rainfalls of year (2017-18) with previous year (2016-17) rainfall

1. Alappuzha 2.Ernakulam 3. Idukki 4.Kannur 5.Kasaragod 6.Kollam 7.Kottayam 8.Kozhikode 9.Malappuram 10. Palakkad 11.Pathanamthitta 12.Thiruvananthapuram 13.Thrissur14.Wayanad

IV. DEPTH TO WATER LEVEL SCENARIO DURING 2017-18

The depth to water level is being monitored from 1668 monitoring wells distributed throughout the State during the months of April, August, November and January. The water level measured during the month of April is taken as pre-monsoon water level and the data of August and November are taken as post-monsoon water level depending on the rainfall distribution. The water level data of GWMWs during 2017-18 is compiled in Annexure I.The depth to water level mostly depends on the hydrogeological conditions of the area as well as topography, rainfall pattern etc. In coastal plains the depth to water level is generally restricted to 6 mbgl. In midland areas, where the undulating topography is seen, the depth to water level generally varies from near ground level to 25 mbgl. The variation is mostly due to topographical variations, thickness of lateritic overburden etc. In areas where laterites are underlain by sedimentary aquifers of Tertiary age, the water level goes very deep, even to the extent of 55 mbgl. In highlands the depth to water level is in the range of few cm to 10 mbgl depending on the topography and thickness of overburden (weathered zone).

DEPTH TO WATER LEVEL DURING APRIL 2017

During the month of April 2017, the depth to water level in the State varied widely from 0.2 to 56.2 m bgl in dug wells. Shallow water level in the range of 0 - 2 m bgl is seen in Alappuzha district, coastal tracts of Ernakulam, Thrissur and Kozhikode districts and in the valley portion located in the eastern part of Idukki, Kottayam, Malappuram and Kozhikode districts. The areas falling in the midland region generally show water level in the range of 2 - 10 mbgl. Water level of more than 20 m mbgl is seen as isolated patches in Thiruvananthapuram, Palakkad, Malappuram and Kasaragod districts. The district-wise well frequency for different ranges of depth to water level during April 2017 has been prepared and is given in Table 4.1. The analysis of the data reveals that 76.43 % of the monitoring wells (GWMWs) have water levels within the range of 0.1 to10 mbgl. Deeper water level (> 20 mbgl) is seen in Thiruvananthapuram, Palakkad, Malappuram and Kasaragod districts as isolated pockets which can be attributed to the local hydro geological conditions such as thick lateritic overburden and the wells situated at elevated areas. The map showing the depth to water level in Kerala State during April 2017 is given in Figure 4.1. In Kollam, Kottayam, Palakkad and Thrissur districts, more than 50% of monitoring wells show water level greater than 5 m bgl.

DEPTH TO WATER LEVEL DURING AUGUST 2017

During the month of August 2017 the depth to water level in Kerala State in dug wells varied widely from 0.20 to 57 mbgl. Shallow water level in the range of 0 - 2 mbgl is seen in Alappuzha district, coastal tracts of Ernakulam, in the valley portion found in Idukki, Pathanamthitta ,Kottayam, and Kozhikkod districts and also as small patches in remaining districts. The areas falling in the midland region generally show water level in the range of 2 - 10 mbgl. Water level of more than 20 m bgl is seen as patches in Thiruvananthapuram district only. The district-wise well frequency for different ranges of depth to water level during August 2017 has been prepared and is given in Table 4.2. The analysis of the data reveals that 91.06 % of the monitoring wells (GWMWs) shows water level within the range of 0.1 to10 mbgl. Deeper water level (> 20 mbgl) is seen in Thiruvananthapuram (Poovar, Pulluvila and Kanjiramkulam), Kollam, Malappuram, Kannur and Kasaragod district as isolated pockets which can be attributed to the local hydrogeological conditions mainly due to thick lateritic overburden and moreover the wells are located in an elevated area. The map showing the depth to water level in Kerala State during August 2017 is given in Figure 4.2. In Kollam district it is observed that more than 50% of monitoring wells show water level greater than 5 m bgl. Deepest water level is encountered in Thiruvananthapuram district.

DEPTH TO WATER LEVEL DURING NOVEMBER 2017

During the month of November 2017, the depth to water level in the State varied widely from 0.1 to 47.98 mbgl in dug wells. Shallow water level in the range of 0 - 2mbgl is seen in Alappuzha district, coastal tracts of Ernakulam, Thrissur and Kozhikkod districts and in the valley portion located in the eastern part of Idukki and Palakkad districts and also as small patches in remaining districts. The areas falling in the midland region generally show water level in the range of 2 - 10 mbgl. Water level of more than 20 m bgl is seen as isolated patches in Malappuram, Thiruvananthapuram, Kollam and Kasaragod districts. The district-wise well frequency for different ranges of depth to water level during November 2017 has been prepared and is given in Table 4.3. The analysis of the data reveals that 88.6% of the monitoring wells (GWMWs) have water levels within the range of 0.1 to 10 mbgl. Deeper water level (> 20 mbgl) is seen in Malappuram (Othukungal, Parambilpeedika), Thiruvananthapuram (Athazhamangalam, Kanjiramkulam, Tirupuram, Veiyloor, Mangalapuram and Melvttoor), Poovar, and Kasaragod(Mavinakatta and Sasthangode) district as isolated pockets which can be

attributed to the local hydrogeological conditions such as thick lateritic overburden and the wells situated at elevated areas. The map showing the depth to water level in Kerala State during November 2017 is given in Figure 4.3. In Alappuzha, Ernakulam, Idukki, Kottayam, Kozhikode, Malappuram, Palakkad, Pathanamthitta and Thrissur districts more than 50% of monitoring wells show water level lesser than 5

DEPTH TO WATER LEVEL DURING JANUARY 2018

During the month of January 2018 the depth to water level in the State varied widely from 0.39 to 25.04 mbgl in dug wells and shallow tube wells. Shallow water level in the range of 0 - 2 mbgl is seen in Alappuzha district, coastal tracts of Kollam, Ernakulam, Thrissur and Kozhikkod districts and in the valley portion located in the eastern part of Idukki districts and also as small patches in Kottayam and Pathanamthitta districts. The areas falling in the midland region generally show water level in the range of 5 - 10 mbgl. Water level of more than 20 m bgl is seen as isolated patches in Thiruvananthapuram, Malappuram and Kasaragod districts. The districtwise well frequency for different ranges of depth to water level during January 2018 has been prepared and is given in Table 4.4. The analysis of the data reveals that 82.75% of the monitoring wells (GWMWs) show water levels within the range of 0.1 to10 mbgl. Deeper water level (> 20 mbgl) is seen in Thiruvananthapuram (Poovar, Pulluvila and Kanjiramkulam), Malappuram, Palakkad and Kasaragod district as isolated pockets which can be attributed to the local hydrogeological conditions such as thick lateritic overburden and the wells situated at elevated areas. The map showing the depth to water level in Kerala State during January 2018 is given in Figure 4.4. In Kollam, Kottayam, Thrissur and Palakkad districts, more than 50% of monitoring wells show water level greater than 5 m bgl.Deepest water level is recorded in Thiruvananthapuram district.

District	No. of Wells Analysed	Wells Water		Range of								
		Min	Max	U /	2.0 - 5.0	5.0 - 10.0	10.0 - 20.0	20.0 - 40.0	> 40.0			
ALAPPUZHA	84	0.53	13.3	23 27.38%	48 57.14%	10 11.9%	3 3.57%	0	0			
ERNAKULAM	125	0.55	14.8	19 15.2%	41 32.8%	55 45.00%	10 8.00%	0	0			
IDUKKI	69	0.2	13.65	6 8.7%	38 55.073%	19 27.54%	6 8.7%	0	0			
KANNUR	106	1.94	39.3	1 0.94%	21 19.81%	48 45.28%	33 31.13%	3 2.83%	0			
KASARAGOD	122	2.5	25.75	0	5 4.1%	35 28.69%	80 65.57%	2 1.64%	0			
KOLLAM	100	0.9	26.22	5 5%	15 15.00%	53 53.00%	24 24.00%	3 3.00%	0			
KOTTAYAM	90	1.09	12.71	5 5.56%	32 33.56%	48 53.33%	5 5.56%	0	0			
KOZHIKODE	89	1.07	15.64	6 6.74%	37 41.57%	40 44.94%	6 6.74%	0	0			
MALAPPURAM	113	1.81	39.36	1 0.88%	18 15.93%	57 50.44%	32 28.32%	5 4.42%	0			
PALAKKAD	141	1.15	56.2	2 1.42%	30 21.28%	73 51.77%	29 20.57%	5 3.55%	2 1.42%			
PATHANAMTHITTA	85	1.28	15.7	2 2.35%	37 43.53%	42 49.41%	4 4.71%	0	0			
THIRUVANANTHAPURAM	94	1.72	28.71	2 2.13%	18 19.15%	30 31.91%	35 17.39%	9 9.57%	0			
THRISSUR	112	1.23	14.5	4 3.57%	33 29.46%	60 53.57%	15 7.44%	0	0			
WAYANAD	66	1.08	20	4 6.06%	21 31.82%	22 33.33%	19 18.84%	0	0			
TOTAL	1396	0.2	56.20	80 5.73%	394 28.23%	592 42.40%	301 21.56%	27 1.93%	2 0.14%			

Table 4.1: District Wise Well Frequency for Different Ranges of Depth to Water Level for April 2017

District	No. of Well Analysed	No. of Wells Depth to Analysed Water level(mbgl)			No. &Percentage of Wells Showing Depth to Water Table (mbgl) in the Range of							
		Min	Max	0.0 - 2.0	2.0 - 5.0	5.0 - 10.0	10.0 - 20.0	20.0 - 40.0	> 40.0			
ALAPPUZHA	89	0.02	10.95	66 74. 16%	15 16. 85%	6 6.74%	2 2.25%	0	0			
ERNAKULAM	133	0.03	15.30	46 34. 59%	47 35. 34%	3 28.57%	2 1.50%	0	0			
IDUKKI	69	0.10	9.30	20 28. 99%	37 53. 62%	12 17. 39%	0	0	0			
KANNUR	103	0.05	20.38	20 19. 42%	32 31. 07%	40 38. 83%	10 9.71%	1 9.7%	0			
KASARAGOD	121	0.20	20.90	29 23. 97%	33 27. 27%	44 36. 36%	14 11. 57%	1 0.83%	0			
KOLLAM	102	0.32	20.62	12 11. 76%	22 21. 57%	60 58. 82%	7 6.86%	1 0.98%	0			
KOTTAYAM	101	0.14	10.50	31 30. 69%	53 52. 48%	16 15. 84%	1 0.99%	0	0			
KOZHIKODE	93	0.08	13.95	39 41. 94%	32 34. 41%	19 20. 43%	3 3.23%	0	0			
MALAPPURAM	123	0.22	26.48	20 16. 26%	38 30. 89%	47 38. 21%	16 13. 04%	2 1.63%	0			
PALAKKAD	116	0.40	18.95	26 22. 41%	41 35. %	41 35. 34%	8 6.90%	0	0			
PATHANAMTHITTA	88	0.75	12.60	25 28. 41%	35 39. 77%	26 29. 55%	2 2.27%	0	0			
THIRUVANANTHAPURAM	115	0.68	57.00	3 2.61%	26 22. 61%	41 35. 65%	35 30. 43%	9 7.83%	1 0.87%			
THRISSUR	123	0.22	11.80	31 25. 30%	34 27. 64%	55 44. 72%	3 2.44%	0	0			
WAYANAD	68	0.04	20.00	18 26. 47%	14 20. 59%	25 36. 76%	11 16. 18%	0	0			
TOTAL	1444	0.02	57.00	386 26.7%	459 31. 79 %	470 32. 54%	114 7.9%	14 0. 96 %	1 0.069%			

Table 4.2: District Wise Well Frequency for Different Ranges of Depth to Water Level for August 2017

District	No. of Wells Analysed			No. &Percentage of Wells Showing Depth to Water Table (mbgl) in the Range of							
		Min	Max	0.0 - 2.0	2.0 - 5.0	5.0 - 10.0	10.0 - 20.0	20.0 - 40.0	> 40.0		
ALAPPUZHA	89	0.14	16.5	60 67.42%	13 14.61%	9 10.11%	7 7.87%	0	0		
ERNAKULAM	137	0.25	17.5	36 26.28%	46 33.58%	51 37.23%	4 2.92%	0	0		
IDUKKI	74	0.31	49.4	16 21.62%	41 55.41%	15 20.27%	1 1.35%	0	1 1.35%		
KANNUR	115	0.73	19.99	10 8.70%	36 31.30%	52 45.22%	17 14.78%	0	0		
KASARAGOD	125	1.04	22.2	5 4.00%	14 11.20%	74 59.20%	30 24.00%	2 1.60%	0		
KOLLAM	105	0.22	19.95	16 15.24%	29 27.62%	51 48.57%	9 8.57%	0	0		
KOTTAYAM	102	0.1	12.25	22 21.57%	55 53.92%	22 21.57%	3 2.94%	0	0		
KOZHIKODE	99	0.58	59.45	19 19.19%	42 42.42%	30 30.30%	6 6.06%	1 1.01%	1 1.01%		
MALAPPURAM	129	0.39	29.02	21 16.28%	35 27.13%	54 41.86%	17 13.18%	2 1.55%	0		
PALAKKAD	142	0.7	49.5	12 8.45%	60 42.25%	55 38.73%	11 7.75%	0	4 2.82%		
PATHANAMTHITTA	86	0.4	14.96	30 34.88%	38 44.19%	15 17.44%	3 3.49%	0	0		
THIRUVANANTHAPURAM	116	0.1	47.98	11 9.48%	31 26.72%	42 36.21%	23 19.83%	8 6.90%	1 0.86%		
THRISSUR	127	0.45	22.65	25 19.69%	31 24.41%	63 49.61%	7 5.51%	1 0.79%	0		
WAYANAD	79	0.72	19.2	11 13.92%	23 29.11%	30 37.97%	15 18.99%	0	0		
TOTAL	1525	0.1	59.45	294 19.28%	494 32.39%	563 36.92%	153 10.03%	14 0.92%	7 0.46%		

Table 4.3: District Wise Well Frequency For Different Ranges Of Depth To Water Level For November 2017

District	No. of Wells Analysed	Depth to Water level(mbgl)		No. & Percentage of Wells Showing Depth to Water Table (mbgl) in the Range of							
		Min	Max	0.0 - 2.0	2.0 - 5.0	5.0 - 10.0	10.0 – 20.0	20.0 - 40.0	> 40.0		
ALAPPUZHA	82	0.48	15.65	45 54.88%	20 24.39%	7 8.54%	10 12.20%	0	0		
ERNAKULAM	135	0.59	15.70	26 19.26%	40 29.63%	65 48.15%	4 2.96%	0	0		
IDUKKI	67	0.39	11.94	7 10.45%	37 55.22%	20 29.85%	3 4.48%	0	0		
KANNUR	106	1.35	21.18	5 4.72%	25 23.48%	52 49.06%	23 21.70%	2 1.89%	0		
KASARAGOD	124	1.99	23.16	1 8.06%	12 9.68%	51 41.13%	57 45.97%	2 1.62%	0		
KOLLAM	110	0.51	19.15	13 11.82%	16 14.55%	68 61.82%	13 11.82%	0	0		
KOTTAYAM	101	0.42	15.66	15 14.85%	33 32.67%	50 49.5%	3 2.97%	0	0		
KOZHIKODE	89	0.85	25.04	10 11.24%	43 48.31%	27 30.34%	8 8.99%	$1 \\ 1.12\%$	0		
MALAPPURAM	130	1.02	29.96	6 4.62%	33 25.38%	62 47.69%	27 20.77%	2 1.54%	0		
PALAKKAD	148	1.30	51.50	6 4.05%	50 33.78%	65 43.92%	22 14.86%	2 1.35%	2 1.35%		
PATHANAMTHITTA	89	0.73	17.20	9 10.11%	35 39.33%	42 47.19%	3 3.37%	0	0		
THIRUVANANTHAPURAM	125	0.80	55.70	3 2.4%	34 27.2%	49 39.2%	30 24%	7 5.6%	2 1.6%		
THRISSUR	131	0.93	22.45	10 7.63%	43 32.82%	59 45.04%	18 13.74%	1 0.76%	0		
WAYANAD	76	1.01	19.20	6 7.89%	22 28.95%	30 39.47%	18 23.68%	0	0		
TOTAL	1513	0.39	55.70	162	443	647	240	17	4		

Table 4.4 : District Wise Well Frequency For Different Ranges Of Depth To Water Level For January 2018

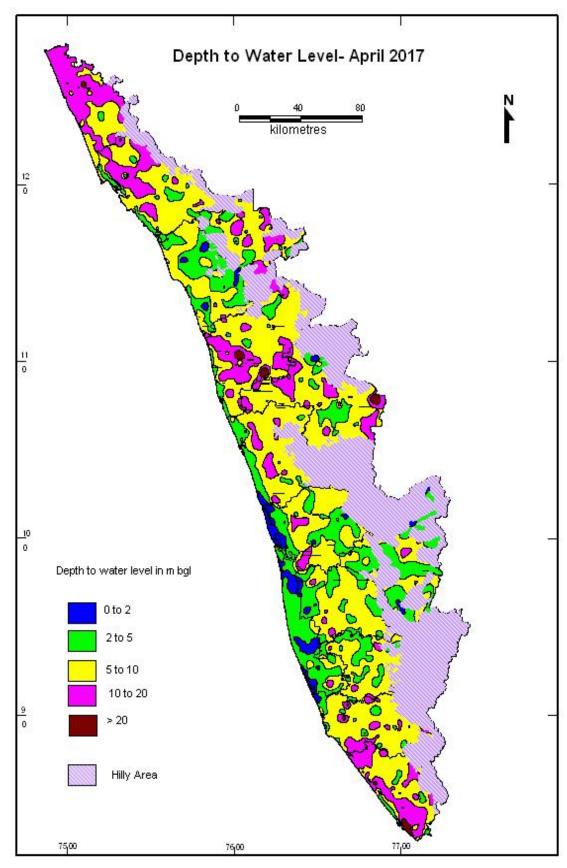


Figure 4.1: Depth to Water Level during April 2017

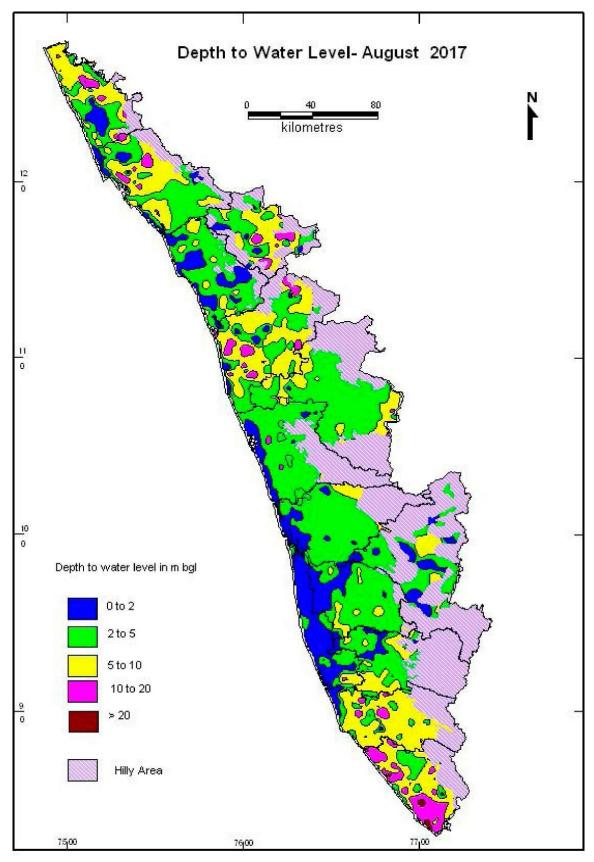


Figure 4.2: Depth to Water Level during August 2017

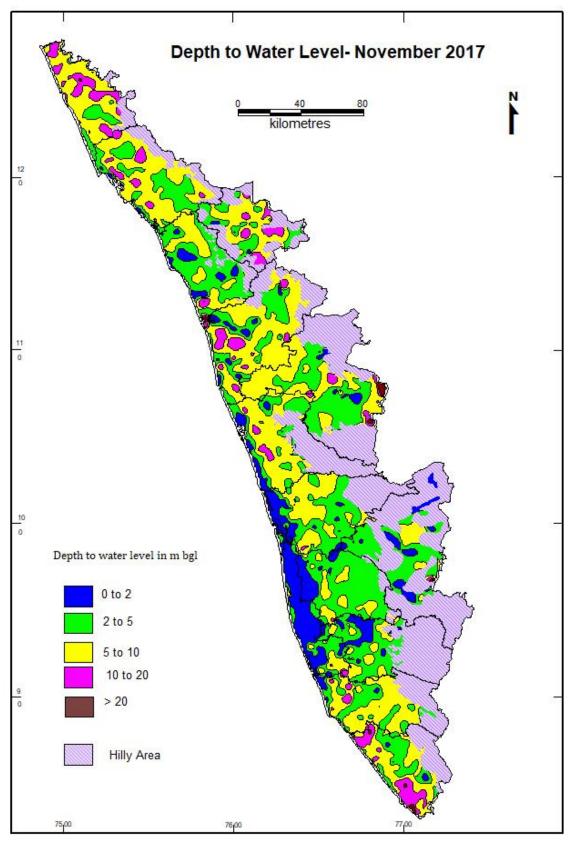


Figure 4.3: Depth to Water Level during November 2017

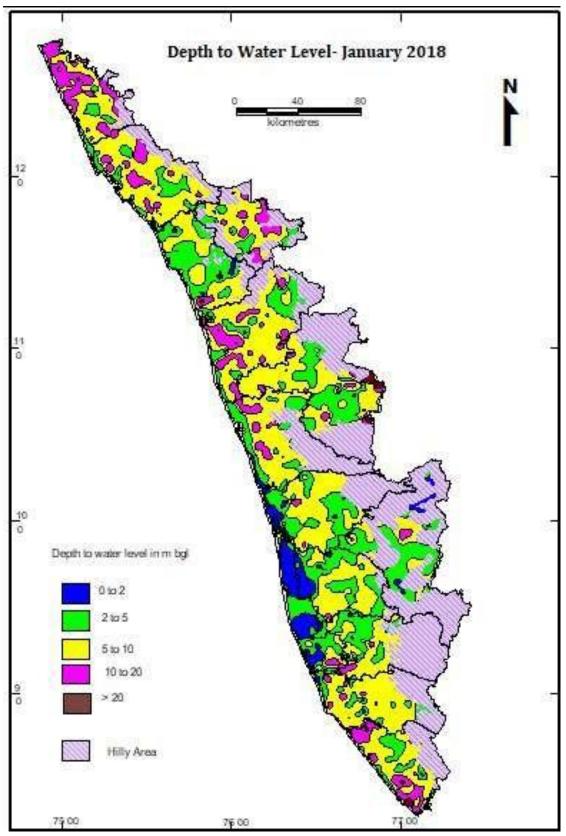


Figure 4.4: Depthto WaterLevelduringJanuary 2018

V WATER LEVEL FLUCTUATION IN KERALA DURING 2017 – 2018

In Kerala the premonsoon water level measurements are carried out during April and postmonsoon measurements during August and November. The fourth water level measurement is during January. The estimation of water level fluctuation between premonsoon and postmonsoon is very important in the estimation of natural recharge to groundwater regime, which gives the dynamic resource of available groundwater.

The water level fluctuation between and pre and postmonsoon periods in coastal alluvium, riverine alluvium and valley fills are mostly restricted to 4 meters. In laterites water level fluctuation is generally in the range of a few centimetres to 9 metres, but mostly restricted to 4 m. In crystalline areas the water level fluctuation is in the range of a few cm to 6m.

FLUCTUATIONBETWEEN APRIL 2017 AND AUGUST 2017

Comparison of August 2017 waterlevel with that of April 2017 indicate rise in waterlevel in the range of 0–8.00 metres in most parts of the State whereas fall in waterlevel also is noticed incertain small isolated pockets mainly in Thiruvananthapuram, Ernakulam and hilly tracts of Idukki and Wayanad districts. In the southern districts of Kerala the rise in waterlevel is in the range of 0–2m as seen in major parts of the area, where as in the northern districts of Kerala, rise in waterlevel up to 8m is seen particularly in Kasaragod. In Kasaragod district majority of wells (73.1%) indicate rise in waterlevel is in the range on 4-8m. Rise in water level is represented by 94.24 % of total monitoring wells. Rise in water level fluctuation of more than 4m is encountered in all districts and fall of morethan 4m is seen in isolated pockets of Kasaragod, Alappuzha, Thiruvananthapuram and Wayanaddistricts. The map of Kerala showing fluctuation between August 2017 and April 2017 is given in Fig: 5.1. District-wise well frequency for different ranges of water level fluctuation (August 2017and April 2017) is given inTable5.1.

FLUCTUATION BETWEEN APRIL 2017 AND NOVEMBER 2017

Comparison of November 2017 water level with that of April 2017 indicates rise in water level in the range of 0.02 - 4.97 metres in most parts of the State whereas fall in water level is noticed in certain small isolated pockets in all districts. Rise in water level is reflected in 92.62% of the monitoring wells. Except Ernakulam district, fall in water level is represented by less than 10% of the monitoring wells when compared to April 2017. More

than 50% of the wells show rise in water level in the range of 2-4m in Thiruvananthapuram and Kollam districts. The map of Kerala showing fluctuation between November 2017 and April 2017 is given in Fig: 5.2. District-wise well frequency for different ranges of water level fluctuation (November 2017 and April 2017) is given in Table 5.2.

FLUCTUATION BETWEEN APRIL 2017AND JANUARY 2018

Comparison of January 2018 water level with that of April 2017 of dug wells and shallow bore wells indicate a rise in water level fluctuation in the range of 0–4 metres in most parts of the State whereas fall in water level fluctuation is noticed in certain small isolated pockets in all districts. In general, the rise in water level is in the range of 0-2 m throughout all districts represented by 67.3% of the monitoring wells. Rise in water level in the range of 4 m and above is noticed in isolated pockets in Kasaragod, Kollam, Malappuram, Palakkad, Thrissur and Thiruvananthapuram districts. The map showing water level fluctuation between January 2018 and April 2017 is given in Fig: 5.3. District-wise well frequency for different ranges of water level fluctuation (January 2018 and April 2017) is given in Table 5.3.

District	No. of	Ra	nge of Flu	ctuation	(m)	No. &Pe	rcentage of	Wells /Perc	entage Sho	wing Fluc	tuation	Total No	o. of Wells
	Wells]	Rise	F	all		Rise			Fall			
		Min	Max	Min	Max	0 to 2	2 to 4	>4	0 to 2	2 to 4	>4		
ALAPPUZHA	80	0.01	8.90	0.40	4.02	53	20	3	2	1	1	76	4
ALAFTUZHA						66.25%	25.00%	3.72%	2.50%	1.25%	1.25%		
ERNAKULAM	122	0.03	9.31	0.10	2.16	70	34	12	5	1	0	116	6
ENNAROLAM						57.38%	27.875	9.84%	4.10%	0.82%			
IDUKKI	66	0.06	5.80	0.09	1.13	43	16	4	3	0	0	63	3
IDOKKI						65.15%	24.24%	6.06%	4.55%				
	102	0.51	33.60	0.88	0.88	26	42	33	1	0	0	101	1
KANNUR						25.49%	41.18%	32.3%	0.98%				
KASARAGOD	119	0.25	16.67	4.05	4.05	10	21	87	0	0	1	118	1
						8.40%	17.65%	73.1%			0.8%		
KOLLAM	88	0.07	5.77	0.12	1.09	45	29	8	6	0	0	82	6
						51.14%	32.95%	9.09%	6.82%				
KOTTAYAM	88	0.19	6.86	1.37	1.40	36	35	15	2	0	0	86	2
						40.91%	39.77%	17.05%	2.27%				
KOZHIKODE	89	0.03	8.09	0.36	0.36	32	49	7	1	0	0	88	1
KOZHIKODE						35.96%	55.06%	7.87%	1.12%				
	110	0.14	25.24	0.10	1.85	30	49	27	3	0	0	106	3
MALAPPURAM						27.27%	44.55%	24.55%	2.73%	Ť	Ť		-
	111	0.05	20.00	0.03	1.80	33	43	26	8	0	0	102	8
PALAKKAD						29.73%	38.74%	23.4%	7.21%				
	83	0.04	5.70	0.04	3.92	41	30	7	3	2	0	78	5
PATHANAMTHITTA						49.4%	36.14%	8.43%	3.61%	2.41%			
THIRUVANANTHA	86	0.06	6.67	0.02	5.92	51	7	4	18	2	3	62	23
PURAM						59.30%	8.14%	4.65%	20.93%	2.33%	3.49%		
THRISSUR	11	0.03	7.16	0.11	1.34	38	61	8	4	0	0	107	4
						34.23%	54.95%	7.21%	3.60%				
WAYANAD	64	0.14	11.88	0.04	6.16	27	26	5	2	0	1	58	3
						42.19%	40.63%	7.81%	3.13%		1.50%		
TOTAL	1319	0.51	5.70	0.02	6.16	535 40.56%	462 35.62%	246 18.65%	58 4.38%	6 0.45%	6 0.45%	1243 94.24%	70 5.03%

Table.5.1: District wise – Water Level Fluctuation and Frequency Distribution for Different Ranges from April 2017 – August 2017

	N C	Range	of Fluctu	ation (n	1)	No. &Perc	entage of W	/ells /Percer	ntage Showi	ng Fluctua	ntion	Total No.	of Wells
District	No. of Wells	Rise		Fall		Rise			Fall				
	wens	Min	Max	Min	Max	0 to 2	2 to 4	>4	0 to 2	2 to 4	>4		
ALAPPUZHA	71	0.14	4.6	0.75	2.9	41 57.75%	24 33.80%	1 1.41%	3 4.23%	2 2.82%	0	66	5
ERNAKULAM	104	0.05	4.32	0.02	3.3	73 70.19%	11 10.58%	3 2.88%	12 11.54%	5 4.81%	0	87	17
IDUKKI	64	0.06	4.84	0.12	1.19	41 64.06%	16 25.00%	2 3.13%	5 7.81%	0	0	59	5
KANNUR	90	0.03	4.91	0.01	1.75	49 54.44%	30 33.33%	6 6.67%	5 5.56%	0	0	85	5
KASARAGOD	92	0.05	4.79	0.87	4.75	33 35.87%	43 46.74%	12 13.04%	2 2.17%	1 1.09%	1 1.09%	88	4
KOLLAM	64	0.03	4.97	0.01	0.32	23 35.94%	34 53.13%	4 6.25%	3 4.69%	0	0	61	3
KOTTAYAM	80	0.2	4.67	0.14	1.5	48 60.00%	22 27.50%	6 7.50%	4 5.00%	0	0	76	4
KOZHIKODE	82	0.02	4.67	0.03	1.77	57 69.51%	13 15.85%	4 4.88%	8 9.76%	0	0	74	8
MALAPPURAM	94	0.18	4.9	0.1	2.26	40 42. 55%	39 41.49%	11 11.70%	3 3.19%	1 1.06%	0	90	4
PALAKKAD	82	0.15	4.1	0.3	1.75	36 43.90%	39 47.56%	1 1.22%	6 7.32%	0	0	76	6
PATHANAMTHITTA	75	0.24	4.65	0.1	1.35	37 49.33%	25 33.33%	10 13.33%	3 4.00%	0	0	72	3
THIRUVANANTHAPURAM	51	0.13	4.81	0.16	4.36	15 29.41%	26 50.98%	5 9.80%	2 3.92%	2 3.92%	1 1.96%	46	5
THRISSUR	103	0.04	4.86	0.06	3.4	61 59.22%	29 28.16%	5 4.85%	6 5.83%	2 1.94%	0	95	8
WAYANAD	72	0.04	4.1	0.25	4.89	53 73.61%	12 16.67%	1 1.39%	5 6.94%	0	1 1.39%	66	6
TOTAL	1124	0.02	4.97	0.01	4.89	607 54.00%	363 32.30%	71 6.32%	67 5.96%	13 1.16%	3 0.27%	1041 92.62%	83 7.47%

 Table 5.2: District wise – Water Level Fluctuation and Frequency Distribution for Different Ranges (November 2017 – April 2017)

District	No. of	Range	of Fluctua	ation (m)		No.& Perce	entage of Wells	s /Percentag	e Showing Fl	uctuation			Total No. o	of Wells
	Wells	Rise		Fall		Rise			Fall					
		Min	Max	Min	Max	0 to 2	2 to 4	>4	0 to 2	2 to 4	>4			
ALAPPUZHA	71	0.07	3.8	0.3	1.8	61 85.91%	5 7.04%	0	5 7.04%	0	0	0	66	5
ERNAKULAM	122	0.01	3.19	0.01	3.51	75 61.48%	8 6.55%	0	38 31.14%	1 0.81%	0	0	83	39
IDUKKI	63	0.01	3.05	0.01	2.31	34 53.96%	7 11.11%	0	20 31.74%	1 1.58%	0	1 1.58%	41	21
KANNUR	101	0.09	3.74	0.04	3.26	72 71.28%	15 14.85%	0	13 12.87%	1 0.99%	0	0	87	14
KASARAGOD	112	0.02	4.1	0.02	2.45	70 62.5%	29 25.89%	1 0.89%	10 8.92%	2 1.7%	0	0	100	12
KOLLAM	88	0.18	4.21	0.01	1.44	50 56.88%	26 29.54%	1 1.14%	11 12.5%	0	0	0	77	11
KOTTAYAM	88	0.02	3.25	0.05	1.6	53 60.22%	8 9.09%	0	24 27.27%	0	0	3 3.40%	61	24
KOZHIKODE	83	0.03	3.19	0.24	1.5	69 83.16%	6 7.2%	0	8 9.639%	0	0	0	75	8
MALAPPURAM	103	0.01	4.13	0.11	3.71	76 73.78%	16 15.53%	2 1.94%	8 7.76%	0	0	1 0.97%	94	8
PALAKKAD	123	0.1	4.5	0.04	3.55	69 56.09%	28 22.76%	2 1.62%	17 13.82%	3 2.43%	0	4 3.25%	99	20
PATHANAMTHITTA	82	0.05	3.64	0.02	3.19	64 78.04%	6 7.31%	0	10 12.19%	2 2.43%	0	0	70	12
THIRUVANANTHA PURAM	88	0.02	4.37	0.37	3.99	44 50%	33 37.5%	1 1.13%	7 7.95%	3 3.4%	0	0	78	10
THRISSUR	109	0.01	4	0.04	3.76	83 76.14%	11 10.09%	1 0.91%	11 10.09%	3 2.75%	0	0	95	14
WAYANAD	70	0.04	2.67	0.01	3.3	57 60%	4 5.71%	0	7 10%	1 1.42%	0	1 1.42%	61	8
TOTAL	1303	0.01	5.68	0.01	4.05	877 67.31%	202 15.5%	8 0.61%	189 14.5%	17 1.3%	0	10 0.77%	1087 83.42%	206 15.81%

 Table 5.3: District wise – Water Level Fluctuation and Frequency Distribution for Different Ranges from January 2018 – April 2017

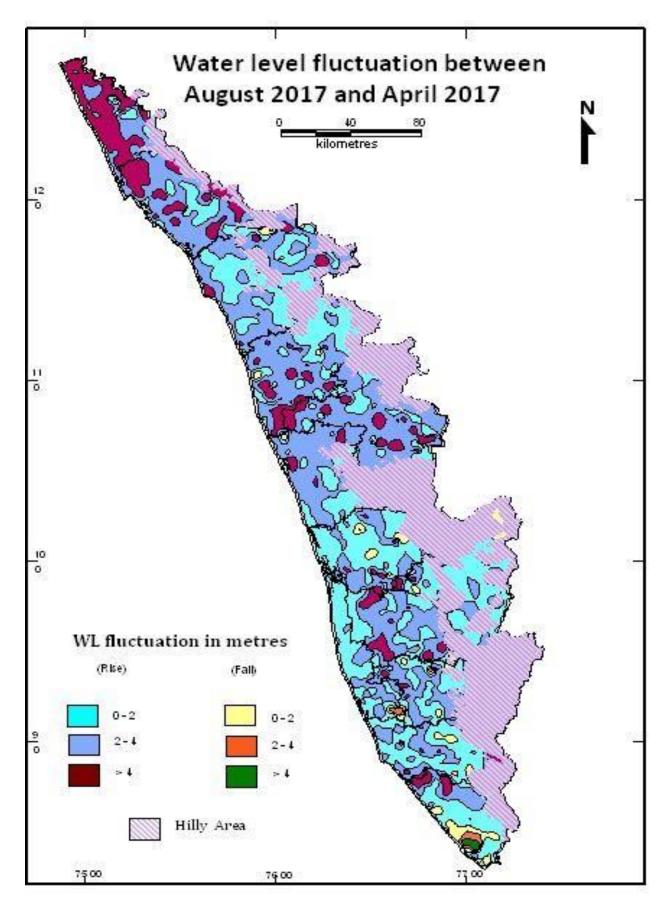


Fig5.1: WaterLevelFluctuation(August2017VsApril 2017)

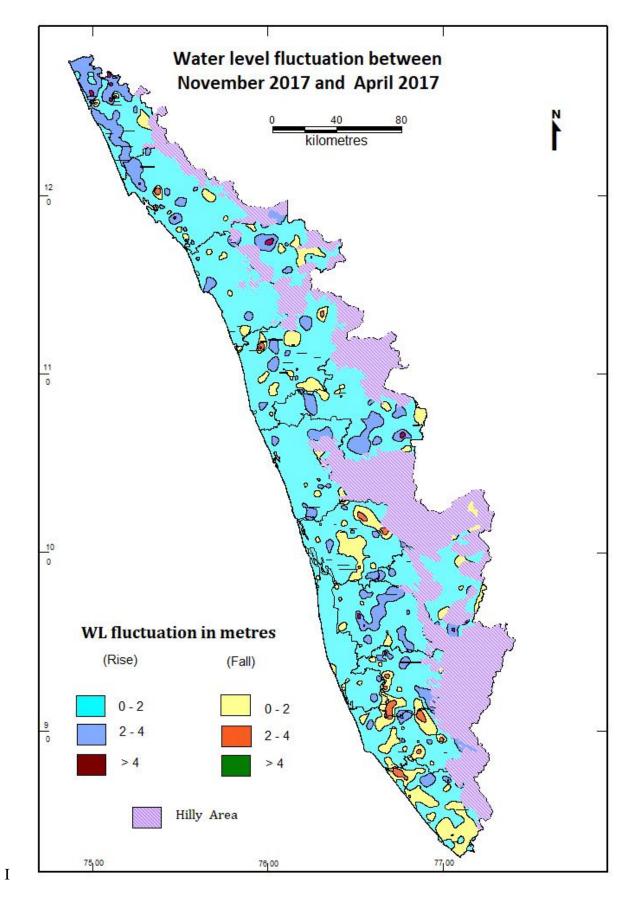


Fig 5.2: Water Level Fluctuation (November 2017 Vs April 2017)

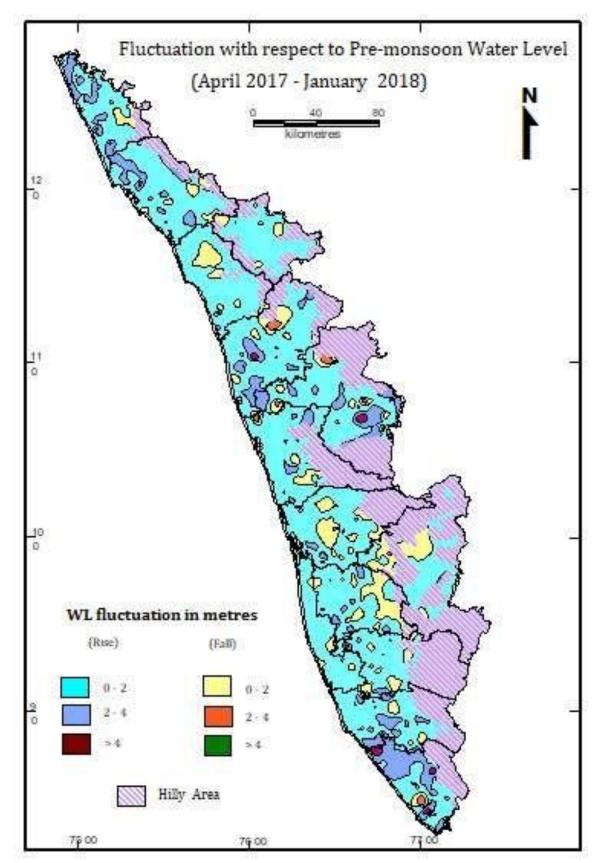


Fig5.3:WaterLevelFluctuation(January 2018VsApril 2017)

VI. WATER LEVEL FLUCTUATION BETWEEN APRIL 2017 AND APRIL 2016

Annual Ground water level fluctuation has been calculated by comparing the water level data during April 2017 with April 2016. Comparison indicates that majority of the dug wells shows a fall in water level which is represented by 57.90 % of total wells monitored. Fall in water level is equally distributed in all districts. The continuity and uniformity of falling trend is attributed to the deficiency in rainfall in all these districts. In Eranakulam , Kannur and Kasargod districts , the rise isn water level is above 50% of total wells. Among the wells showing fall in water level fluctuation, about 51% of the wells show fall in the range of 0-2 m. The map of Kerala showing fluctuation between April 2016 and April 2017 is given in Fig.6.1. District-wise well frequency for different ranges of water level fluctuation (April 2016 and April 2017) is given in Table 6.1.

WATER LEVEL FLUCTUATION BETWEEN AUGUST 2017 AND AUGUST 2016

Annual Ground water level fluctuation has been calculated by comparing the water level data during August 2017 with August 2016. Comparison indicates that majority of the dug wells shows a rise in water level which is represented by 75.62 % of total dug wells monitored.Fall is mainly noticed in Thiruvananthapuram and Kannur and eastern parts of malappuram and and its northen extension in Wayanad districts. Rise in water level fluctuation of more than 4 m is encountered in isolated pockets of Kasaragod, Kollam, Kottayam, Malappuram, Palakkad, Pathanamthitta, Thiruvananthapuram, Thrissur and Wayanad districts and fall of more than 4 m is observed few locations in Kollam,Malappuram, Palakkad, Thiruvananthapuram,Thrissur and Wayanad districts. The map of Kerala showing fluctuation between August 2017 and August 2016 is given in Fig:6.2. District-wise well frequency for different ranges of water level fluctuation (August 2017 and August 2016) is given in Table 6.2

WATER LEVEL FLUCTUATION BETWEEN NOVEMBER 2017 AND NOVEMBER 2016

Annual Ground water level fluctuation has been calculated by comparing the water level data during November 2017 with November 2016. Comparison indicates that majority of the dug wells shows a rise in water level which is represented by 81.49% of total wells monitored. In all the districts, more than 50% of the monitoring wells show rise in water level in the range of 0-2m when compared to previous year. Rise in water level fluctuation in the range of 2-4 m is most predominant in southern districts mainly Thiruvananthapuram and Kollam. Fall is represented by only 18.50% of the monitoring wells which is mainly noticed as pockets in all districts. The map of Kerala showing fluctuation between November 2017 and November 2016 is given in Fig: 6.3. District-wise well frequency for different ranges of water level fluctuation (November 2017 and November 2016) is given in Table 6.3

WATER LEVEL FLUCTUATION BETWEEN JANUARY 2018 AND JANUARY 2017

Annual Ground water level fluctuation has been calculated by comparing the water level data during January 2018 with January 2017 for dug wells and shallow bore wells. Comparison shows a rise in water level in 76.81 % of total dug wells monitored. Rise in water level fluctuation is predominant in all districts and fall is observed as small patches in seven districts particularly Kasaragod, Palakkad, Malappuram, Thrissur and Thriuvananthapuram. The map of Kerala showing fluctuation between January 2018 and January 2017 is given in Fig.6.4. District-wise well frequency for different ranges of water level fluctuation (January 2018 and January 2017) is given in Table 6.4.

District	No. of Wells	Range	e of Flu	ctuation	n (m)	No.& Per Fluctuati	0	of Wells /P	ercentage	Showing		Total N Wells	o. of
		Rise		Fall		Rise			Fall				
		Min	Max	Min	Max	0 to 2	2 to 4	>4	0 to 2	2 to 4	>4		
ALAPPUZHA	77	0.01	0.65	0.01	1.91	7 9.09%	0	0	68 88.31%	0	0	7	68
ERNAKULAM	118	0.05	2.65	0.05	4.25	71 60.17%	2 1.69%	0	38 32.20%	3 2.54%	1 0.85%	73	42
IDUKKI	69	0.05	5.61	0.01	2.60	34 49.28%	3 4.35%	1 1.45%	29 42.03%	2 2.90%	0	38	31
KANNUR	102	0.01	3.17	0.02	8.45	53 51.96%	2 1.96%	0	43 42.16%	2 1.96%	2 1.96%	55	47
KASARAGOD	116	0.01	7.95	0.01	8.67	62 53.45%	2 1.72%	2 1.72%	42 36.21%	4 3.45%	4 3.45%	66	50
KOLLAM	88	0.01	5.62	0.02	16.17	40 45.45%	3 3.41%	1 1.14%	35 39.77%	6 6.82%	2 2.20%	44	43
KOTTAYAM	89	0.10	3.08	0.04	2.50	32 35.96%	6 6.74%	0	47 52.81%	3 3.37%	0	38	50
KOZHIKODE	88	0.02	1.38	0.03	2.12	44 50.00%	0	0	42 47.73%	1 1.14%	0	44	43
MALAPPURAM	91	0.01	7.15	0.02	8.14	26 28.57%	3 3.30%	1 1.10%	50 54.95%	5 5.49%	6 6.59%	30	61
PALAKKAD	118	0.05	13.50	0.04	6.80	28 23.73%	3 2.54%	3 2.54%	62 52.54%	14 11.86%	3 2.54%	34	79
PATHANAMTHITTA	83	0.02	4.92	0.04	4.03	23 27.71%	0	2 2.41%	53 63.86%	3 3.61%	1 1.20%	25	57
THIRUVANANTHA PURAM	84	0.02	3.27	0.07	10.18	11 13.10%	1 1.19%	0	51 60.71%	13 15.48%	8 9.52%	12	72
THRISSUR	108	0.01	1.76	0.01	5.23	42 38.89%	0	0	58 53.70%	4 3.70%	2 1.85%	42	64
WAYANAD	66	0.01	9.25	0.02	2.19	17 25.76%	2 3.03%	2 3.03%	40 60.61%	4 6.06%	0	21	44
TOTAL	1297	0.10	0.65	0.01	16.17	490 37.77%	27 2.08%	12 0.92%	658 50.73%	64 4.93%	29 2.23%	529 40.78%	751 57.90%

Table 6.1: District wise – Water Level Fluctuation and Frequency Distribution for Different Ranges from April 2016 – April 2017

District	No. of	Range	of Fluctua	tion (m)		No.& Perc	centage of V	Vells /Perce	entage Showi	ing Fluctuat	ion	Total No.	of Wells
	Wells	Rise		Fall		Rise			Fall				
		Min	Max	Min	Max	0 to 2	2 to 4	>4	0 to 2	2 to 4	>4		
ALAPPUZHA	77	0.01	2.30	0.02	2.25	62	2	0	11	2	0	64	13
ALAFFUZHA						80.52%	2.60%		14.29%	2.60%			
ERNAKULAM	126	0.01	3.50	0.01	0.90	97 76.98%	10 7.94%	0	19 15.08%	0	0	107	19
IDUKKI	69	0.10	2.53	0.20	3.60	55 79.71%	2 2.90%	0	7 10.14%	2 2.90%	0	57	9
KANNUR	99	0.01	3.44	0.08	2.48	67 67.68%	10 10.10%	0	17 17.17%	3 3.03%	0	77	20
KASARAGOD	118	0.01	5.81	0.05	3.35	77 65.25%	25 21.19%	4 3.39%	9 7.63%	2 1.69%	0	106	11
KOLLAM	86	0.05	5.60	0.03	7.56	51 59.30%	2 2.33%	1 1.1%	28 32.56%	1 1.16%	2 2.33%	54	31
KOTTAYAM	100	0.05	5.00	0.05	3.34	78 78.00%	9 9.00%	1 1.00%	10 10.00%	1 1.00%	0	88	11
KOZHIKODE	92	0.01	3.61	0.02	0.94	73 79.53%	3 3.26%	0	15 16.30%	0	0	76	15
MALAPPURAM	122	0.02	6.19	0.01	5.84	77 63.11%	16 13.11%	5 4.10%	18 14.75%	5 4.10%	1 0.82%	98	24
PALAKKAD	104	0.05	14.60	0.08	8.10	43 41.35%	12 11.54%	5 4.81%	33 31.73%	5 4.81%	3 2.88%	60	41
PATHANAMTHITTA	85	0.05	5.28	0.02	2.88	53 62.35%	19 22.35%	2 2.35%	9 10.59%	2 2.35%	0	74	11
THIRUVANANTHA PURAM	110	0.07	26.48	0.04	8.47	19 17.27%	1 0.91%	1 0.91%	60 54.55%	16 14.55%	13 11.82%	21	89
THRISSUR	1190	0.04	4.69	0.03	6.71	104 87.39%	3 2.52%	1 0.84%	9 7.56%	$1 \\ 0.84\%$	1 00.84%	108	11
WAYANAD	67	0.01	9.99	0.02	7.44	43 64.18%	5 7.46%	1 1.49%	15 22.39%	2	1 1.49%	49	18
TOTAL	1374	0.10	2.30	0.01	8.47	899 65.42%	119 8.66%	21 1.52%	260 18.92%	42 3.05%	21 1.52 %	1039 75.61%	323 23.51%

Table 6.2.District wise – Water Level Fluctuation and Frequency Distribution for Different Ranges from August 2016– August 2017

District	No. of Wells	Ran	ige of Flu			No.& 1				Showing Flue	ctuation	Total No	. of Wells
		R	ise	ŀ	all		Rise			Fall			
		Min	Max	Min	Max	0 to 2	2 to 4	>4	0 to 2	2 to 4	>4		
ALAPPUZHA	76	0.05	3.82	0.02	3.55	62 81.58%	6 7.89%	0	7 9.21%	1 1.32%	0	68	8
ERNAKULAM	110	0.02	3.92	0.02	2.75	80 72.73%	5 4.55%	0	23 20.91%	2 1.82%	0	85	25
IDUKKI	68	0.06	3.5	0.03	1.91	48 70.59%	3 4.41%	0	17 25.00%	0	0	51	17
KANNUR	98	0.05	4	0.06	3.65	75 76.53%	13 13.27%	0	9 9.18%	1 1.02%	0	88	10
KASARAGOD	115	0.03	4.33	0.35	4.8	92 80.00%	9 7.83%	2 1.74%	7 6.09%	3 2.61%	2 1.74%	103	12
KOLLAM	79	0.31	4.65	0.62	0.73	45 56.96%	30 37.97%	2 2.53%	2 2.53%	0	0	77	2
KOTTAYAM	95	0.05	3.33	0.05	4.2	59 62.11%	4 4.21%	0	28 29.47%	3 3.16%	1 1.05%	63	32
KOZHIKODE	86	0.05	4.58	0.02	3.7	53 61.63%	5 5.81%	1 1.16%	25 29.07%	2 2.333%	0	59	27
MALAPPURAM	105	0.02	4.28	0.12	2.47	78 74.29%	18 17.14%	2 1.90%	6 5.71%	1 0.95%	0	98	7
PALAKKAD	88	0.1	4	0.03	4.4	44 50.00%	7 7.95%	0	34 38.64%	2 2.27%	1 1.14%	51	37
PATHANAMTHITTA	77	0.02	3.58	0.02	0.32	55 71.43%	14 18.18%	0	8 10.39%	0	0	69	8
THIRUVANANTHAPURAM	77	0.08	4.25	0.52	3.07	49 63.64%	21 27.27%	1 1.30%	3 3.90%	3 3.90%	0	71	6
THRISSUR	110	0.03	3.52	0.02	0.73	89 80.91%	4 3.64%	0	17 15.45%	0	0	93	17
WAYANAD	64	0.02	4.73	0.01	2.24	39 60.94%	1 1.56%	1 1.56%	21 32.81%	2 3.13%	0	41	23
TOTAL	1248	0.01	4.73	0.01	4.8	868 69.55%	140 11.22%	9 0.72%	207 16.58%	20 1.60%	4 0.32%	1017 81.49%	231 18.50%

Table 6.3 : District wise – Water Level Fluctuation and Frequency Distribution for Different Ranges from November 2017 – November 2016

District	No. of	Range	of Fluctu	uation (r	n)	No.& Pero	centage of V	Wells /Per	centage Sh	owing Flu	ictuation		Total No	. of Wells
	Wells	Rise		Fall		Rise			Fall					
		Min	Max	Min	Max	0 to 2	2 to 4	>4	0 to 2	2 to 4	>4			
ALAPPUZHA	73	0.4	4.8	0.15	1.46	61 83.56%	2 2.73%	0	8 10.95%	0	0	2 2.73%	63	8
ERNAKULAM	131	0.01	3.78	0.01	1.81	86 65.64%	5 3.81%	0	37 28.24%	0	0	3 2.29%	91	37
IDUKKI	64	0.06	3.57	0.08	0.86	33 51.56%	6 9.37%	0	24 37.5%	0	0	1 1.56%	39	24
KANNUR	103	0.01	3.26	0.02	2.38	72 69.9%	4 3.88%	0	26 25.24%	0	0	1 0.97%	76	26
KASARAGOD	116	0.01	3.92	0.01	4.05	67 57.75%	5 4.31%	0	36 31.03%	3 2.58%	0	5 4.31%	72	39
KOLLAM	103	0.07	4.96	0.08	1.68	66 64.07%	25 24.27%	5 4.85%	7 6.79%	0	0	0	96	7
KOTTAYAM	98	0.03	3.95	0.02	1.46	66 67.34%	6 6.12%	0	23 23.46%	0	0	3 3.06%	72	23
KOZHIKODE	87	0.01	2.75	0.02	1.27	75 86.2%	1 1.15%		10 11.49%	0	0	1 1.15%	76	10
MALAPPURAM	113	0.01	3.72	0.08	2.09	74 65.48%	6 5.3%	1 0.88%	30 26.54%	1 0.88%	0	1 0.88 %	81	31
PALAKKAD	127	0.02	4.34	0.03	2.92	68 52.71%	11 8.5%	2 1.82%	41 31.78%	3 3.1%	0	2 1.55%	81	44
PATHANAMTHITTA	84	0.05	4.35	0.1	2.97	72 85.71%	4 4.76%	1 1.19%	5 5.95%	1 1.19%	0	1 1.19%	77	6
THIRUVANANTHA PURAM	113	0.01	4.24	0.03	3.04	65 57.52%	24 21.23%	3 2.65%	20 17.59%	1 0.88%	0	0	92	21
THRISSUR	123	0.06	5.68	0.01	4.0	84 68.29%	4 3.25%	1 0.81%	31 25.20%	3 2.4%	0	0	89	34
WAYANAD	72	0.02	1.46	0.02	3.47	56 77.77%	0	0	15 20.83%	1 1.38%	0		56	16
TOTAL	1407	0.01	5.68	0.01	4.05	945 67.16%	103 7.32%	13 0.92%	313 22.25%	13 0.92%	0	20 1.41%	1061 75.41%	326 23.17%

 Table 6.4 : District wise – Water Level Fluctuation and Frequency Distribution for Different Ranges

 from January 2017 – January 2018

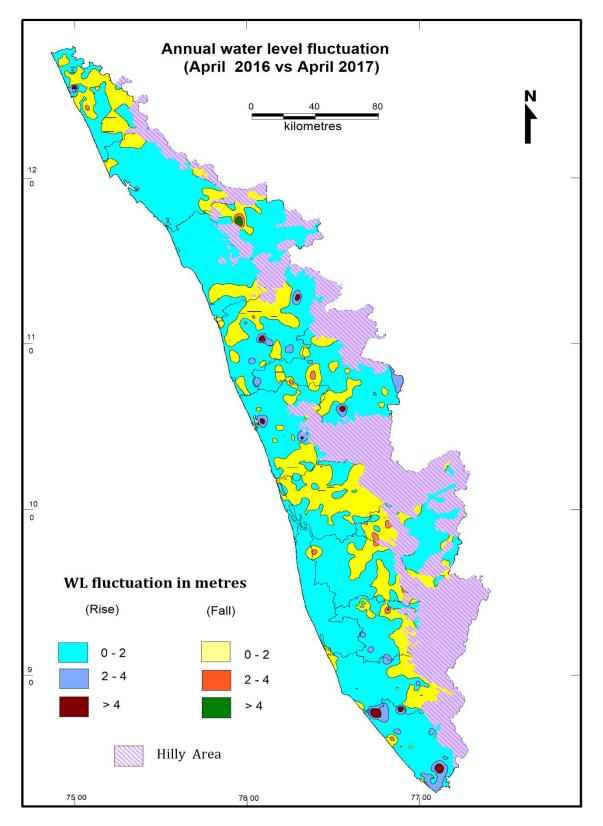


Fig 6.1: Annual Water Level Fluctuation (April 2016 Vs April 2017)

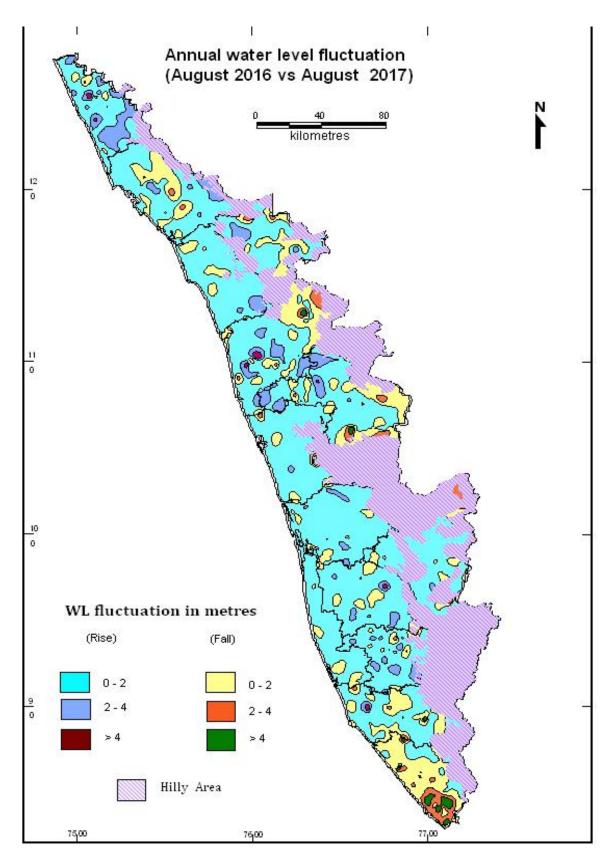


Fig 6.2: Annual Water Level Fluctuation (August 2016 Vs August 2017)

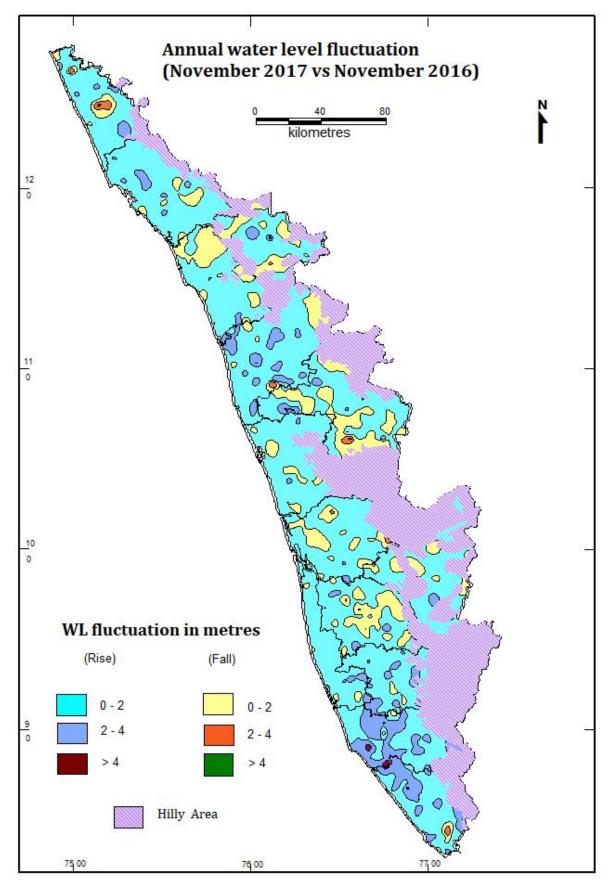


Fig 6.3: Annual Water Level Fluctuation (November 2017 vs November 2016)

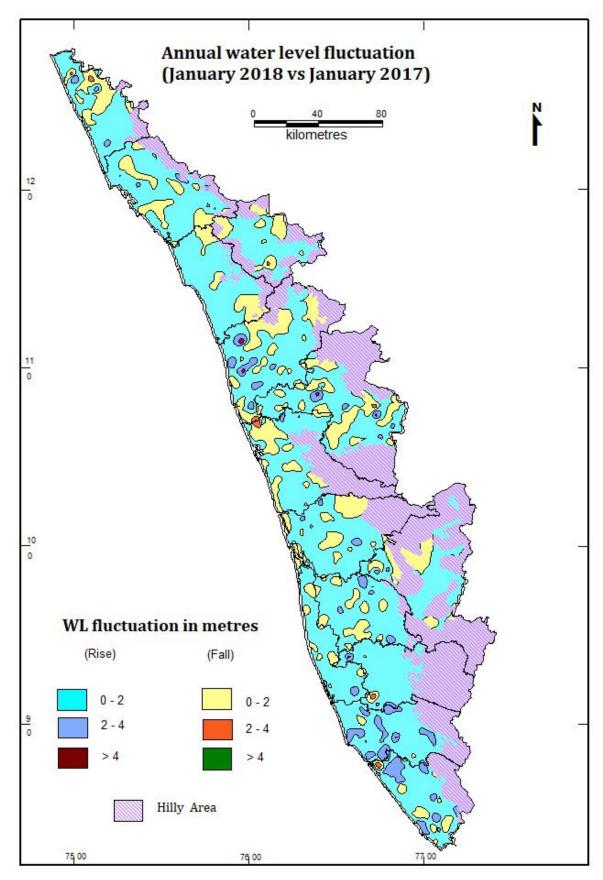


Fig 6.4: Annual Water Level Fluctuation (January 2018 Vs January 2017)

VII COMPARISON OF 2017 - 18 WATER LEVELS WITH THE DECADAL MEAN (2007-2016)

Water levels during the year 2017-18 in comparison with the decadal mean (2007-2016) value of the respective measurements is discussed in this chapter. The analysis brings out the deviations in water level from the general behaviour of water level of the past decade. In general, the change in water level is confined to the range of +2 to -2 m.

FLUCTUATION BETWEEN DECADAL MEAN (APRIL WATER LEVEL OF THE PERIOD 2007 – 2016) AND APRIL 2017

The change in water level over the last ten years period is brought out by the comparison of water level of April 2017 with the decadal mean value of April measurements of the period 2007-2016. This analysis indicate that the change in water level is mostly restricted to +2 (rise) to -2 (fall) m as recorded by 89 % of GWMW. However fall in water level is predominant and continuous in all districts from Kollam to Kasaragod as represented by 70.20 % of monitoring wells. The Rise in water level is predominant in Thiruvananthapuram,Palakkad districts and some parts of Thrissur,Wayanad,Kannur and Kasargod districts. The frequency of wells showing rise and fall in different ranges (0-2m,2-4m, 4m) when compared with decade mean water level is given in Table 7.1. Figure 7.1 shows the water level fluctuation in the state for April 2017 with respect to Decadal mean (2007-2016).

FLUCTUATIONBETWEENDECADALMEAN(AUGUST WATERLEVELOFTHEPERIOD2007–2016)ANDAUGUST2017

The change in water level over the last ten years period is brought out by the comparisonofwaterlevel with the mean value of August measurements of the period 2007-2016. of August 2017 2 Thisanalysisindicate that the change inwater level is mostly restricted to +2 (rise) to-(fall)masrecordedby87.87% of GWMW. However rise inwaterlevelispredominant in many parts of the stateas represented by 62.79% of monitoring wells. In Thiruvananthapuram district, thefall(>4 m)ispredominantly seen around Pulluvila and Kanjiramkulamareas. Thefrequencyofwellsshowingrise andfallindifferentranges(0-2m, 2-4m,4m)whencompared with decade mean water leveling iven in Table 7.2.Figure 7.2shows thewaterlevel fluctuationinthestate forAugust2017withrespecttoDecadalmean(2007-2016).

FLUCTUATION BETWEEN DECADAL MEAN (NOVEMBER WATER LEVEL OF THE PERIOD 2007 – 2016) AND NOVEMBER 2017

The change in water level over the last ten years period is brought out by the comparisonofwaterlevel of November 2017 with the mean value of August measurements of the period 2007-2016. This analysis indicate that the change inwater level is mostly restricted to +2 (rise) to -2 (fall) mass recorded by 90.98% of GWMW. However rise inwater level is predominant in many parts of the state as represented by 56.14% of monitoring wells. In Thiru vanant hap uram district, the fall (>4 m) is predominantly seen around Aralumode and vengano or areas. In Palakkad district the fall (>4

m) is predominantly observed around Eruthenpathi, Gopalapuram and Walayar area, whereas in Kasaragod the same range of fall is observed around Bovikkanam,Kundamkuzhy, Mandecapand Manjeswar. Thefrequencyofwellsshowingrise andfallindifferentranges(0-2m, 2-4m,4m)whencomparedwithdecademeanwaterlevelisgiveninTable 7.3.Figure 7.3shows thewaterlevel fluctuationinthestate forAugust2017withrespecttoDecadalmean(2007-2016).

FLUCTUATION BETWEEN DECADAL MEAN (JANUARY WATER LEVEL OF THE PERIOD 2008 – 2017) AND JANUARY 2018

The change in water level over the last ten years period is brought out by the comparison of water level of January 2018 with the mean value of January measurements of the period 2008-2017 of dug wells and shallow bore wells. This analysis indicate that the change in water level is mostly restricted to +2 (rise) to -2 (fall) m as recorded by 95.99 % of GWMW. However, fall in waterlevel is predominant in southern districts mainly Thiruvananthapuram and Kollam.Rise in water level is observed as isolated patches in all districts. The frequency of wells showing rise and fall in different ranges (0-2m,2-4m, >4m) when compared with decade mean water level is given in Table 7.4. Figure 7.4 shows the water level fluctuation in the state for January 2017 with respect to Decadal mean (2008-2017).

District	No. of Wells	Rar	ige of Flu	uctuation	n (m)	No. 8	Percentage o	of Wells /Per	centage Sho	owing Fluctu	uation	Total N	o. of Wells
		Ri	se]	Fall		Rise			Fall			
		Min	Max	Min	Max	0 to 2	2 to 4	>4	0 to 2	2 to 4	>4		
ALAPPUZHA	84	0.08	1.10	0.01	2.84	16 19.05%	0	0	67 79.76%	1 1.19%	0	16	68
ERNAKULAM	121	0.01	3.25	0.00	5.40	51 42.15%	1 0.83%	0	66 54.55%	1 0.83%	1 0.83%	52	68
IDUKKI	69	0.02	3.62	0.04	3.36	33 47.83%	3 4.35%	0	30 43.48%	3 4.35%	0	36	33
KANNUR	106	0.02	1.83	0.03	27.70	39 36.79%	0	0	59 55.66%	6 5.66%	2 1.89%	39	67
KASARAGOD	122	0.01	7.42	0.01	5.35	18 14.75%	3 2.46%	1 0.82%	81 66.39%	15 12.30%	4 3.28%	22	100
KOLLAM	95	0.04	4.16	0.04	3.81	33 34.74%	6 6.32%	1 1.05%	48 50.53%	7 7.37%	0	40	55
KOTTAYAM	89	0.03	2.33	0.01	3.87	28 31.46%	2 2.25%	0	56 62.92%	3 3.37%	0	30	59
KOZHIKODE	89	0.0	2.19	0.00	2.01	26 29.21%	1 1.12%	0	61 68.54%	1 1.12%	0	27	62
MALAPPURAM	102	0.06	2.15	0.00	8.74	17 16.67%	3 2.94%	0	69 67.65%	7 6.86%	6 5.88%	20	82
PALAKKAD	135	0.01	7.80	0.00	37.19	22 16.30%	5 3.70%	1 0.74%	74 54.81%	23 17.04%	8 5.93%	28	105
PATHANAM THITTA	85	-	1.42	0.02	3.70	34 40.00%	0	0	48 56.47%	3 3.53%	0	34	51
THIRUVANAN THAPURAM	92	0.02	1.60	0.00	6.22	11 11.96%	0	0	65 70.65%	14 15.22%	2 2.17%	11	81
THRISSUR	111	00	1.29	0.01	2.33	33 29.73%	0	0	76 68.47%	1 0.90%	0	33	77
WAYANAD	66	0.02	8.50	0.02	4.96	12 18.18%	2 3.03%	1 1.52%	43 65.15%	7 10.61%	1 1.52%	15	51
TOTAL	1366	1.10	0.08	0.00	37.19	373 27.3%	26 1.9%	4 0.29%	843 61.71%	92 6.73%	24 1.76%	403 29.5%	959 70.20%

TABLE 7.1: DISTRICT WISE – WATER LEVEL FLUCTUATION WITH MEAN (APRIL 2007-2016) AND APRIL 2017

	No.of	Rang	eofFluctu	ation(m)			No.&Per	0	lls/Percentage uation	Showing		TotalNo. Wel	
District	Wells	Ris	se	Fa	1		Rise			Fall			
		Min	Max	Min	Max	0to2	2to4	>4	0to2	2to4	>4		
ALAPPUZHA	89	0.01	6.25	0.02	4.88	67 75.28%	1 1.12%	1 1.12%	16 17.98%	3 3.37%	1 1.12%	69	20
ERNAKULAM	130	0.02	3.41	0.02	0.66	103 79.23%	7 5.38%	0	20 15.38%	0	0	110	20
IDUKKI	69	0.01	1.53	0.01	3.60	53 76.81%	0	0	14 20.29%	2 2.90%	0	53	16
KANNUR	102	0.01	4.02	0.01	5.01	65 63.73%	7 6.86%	1 0.98%	26 25.49%	2 1.96%	1 0.98%	73	29
KASARAGOD	121	0.01	5.76	0.01	1.84	74 61.16%	27 22.31%	5 4.13%	15 12.40%	0	0	106	15
KOLLAM	102	0.03	3.12	0.03	4.42	44 43.14%	2 1.96%	0	53 51.96%	1 0.98%	2 1.96%	46	56
KOTTAYAM	100	0.01	3.23	0.01	3.51	77 77.00%	2 2.00%	0	19 19.00%	2 2.00%	0	79	21
KOZHIKODE	93	0.01	3.31	0.02	1.91	55 59.14%	3 3.23%	0	35 37.63%	0	0	58	35
MALAPPURAM	122	0.01	5.79	0.00	5.54	59 48.36%	5 4.10%	1 0.82%	48 39.34%	6 4.92%	3 2.46%	65	57
PALAKKAD	116	0.00	12.20	0.06	11.92	43 37.07%	4 3.45%	4 3.45%	41 35.34%	18 15.52%	6 5.17%	51	65
PATHANAM THITTA	87	0.01	5.28	0.07	4.15	65 74.71%	3 3.45%	1 1.15%	16.18.39 %	1 1.15%	1 1.15%	69	18
THIRUVANAN THAPURAM	113	0.02	30.46	0.02	11.45	7 6.19%	0	1 0.88%	72 63.72%	20 17.70%	13 11.50%	8	105
THRISSUR	123	0.01	3.03	0.00	6.94	78 63.41%	1 0.81%	0	42 34.15%	1 0.81%	1 0.81%	79	44
WAYANAD	68	0.04	2.52	0.16	4.62	33 48.53%	2 2.94%	0	21. 30.88%	10 14.71%	2 2.94%	35	33
TOTAL	1435	0.04	12.20	0.07	11.92	823 57.35%	64 4.46%	14 0.98%	438 30.52%	66 4.6%	30 2.09%	901 62.79%	534 37.21%

TABLE 7.2. DISTRICTWISE-WATERLEVELFLUCTUATION WITHMEAN (AUGUST2007-2016)ANDAUGUST2017

District	No.of	Rang	geofFluctu	ation(m)			No.&Perc	entageofWell Fluctu		Showing			lNo.of /ells
District	Wells	R	ise	F	all		Rise			Fall			
		Min	Max	Min	Max	0to2	2to4	>4	0to2	2to4	>4		
ALAPPUZHA	84	0.02	2.53	0.02	4.77	67 79.76%	1 1.19%	0	14 16.67%	0	1 1.19%	68	15
ERNAKULAM	126	0.00	2.58	0.02	2.94	58 46.03%	2 1.59%	0	65 51.59%	1 0.79%	0	60	66
IDUKKI	74	0.00	3.89	0.00	2.18	41 55.41%	2 2.70%	0	30 40.54%	1 1.35%	0	43	31
KANNUR	114	0.02	5.71	0.01	3.09	59 51.75%	5 4.39%	2 1.75%	46 40.35%	2 1.75%	0	66	48
KASARAGOD	130	0.01	3.95	0.02	4.94	75 57.69%	7 5.38%	0	42 32.31%	1 0.77%	4 3.08%	82	47
KOLLAM	100	0.05	3.80	0.13	2.07	67 67.00%	13 13.00%	0	19 19.00%	1 1.00%	0	80	20
KOTTAYAM	99	0.02	3.01	0.03	5.08	46 46.46%	3 3.03%	0	48 48.48%	1 1.01%	1 1.01%	49	50
KOZHIKODE	112	-	2.71	0.00	5.23	38 33.93%	3 2.68%	0	67 59.82%	3 2.68%	1 0.89%	41	71
MALAPPURAM	118	0.01	9.00	0.01	7.71	70 59.32%	3 2.54%	3 2.54%	39 33.05%	1 0.85%	2 1.69%	76	42
PALAKKAD	133	0.01	7.24	0.03	31.60	25 18.80%	1 0.75%	$\begin{array}{c}1\\0.75\%\end{array}$	89 66.92%	10 7.52%	6 4.51%	27	105
PATHANAM THITTA	85	0.04	3.89	0.02	1.27	59 69.41%	16 18.82%	0	10. 11.76%	0	0	75	10
THIRUVANAN THAPURAM	122	0.01	11.75	0.06	8.03	67 54.92%	11 9.02%	2 1.64%	35 28.69%	4 3.28%	3 2.46%	80	42
THRISSUR	116	0.02	3.41	0.01	1.16	67 57.76%	1 0.86%	0	48 41.38%	0	0	68	48
WAYANAD	69	0.02	4.06	0.04	6.60	15 21.74%	1 1.45%	1 1.45%	43. 62.32%	6 8.7%	2 2.90%	17	51
TOTAL	1482	2.53	11.75	0.00	31.60	754 50.87%	69 4.65%	9 0.60%	595 40.14%	31 2.09%	20 1.34%	832 56.14%	646 43.58%

TABLE 7.3.DISTRICTWISE–WATERLEVELFLUCTUATION WITHMEAN(NOV2007-2016) AND NOVEMBER 2017

District	No.of Wells	Range	ofFluct	uation	(m)	No.&Per	centageof	Wells/Pe	ercentageS	bowingFl	uctuati	on	TotalNo Wells	.of
		Ri	ise	Fa	all		Rise			Fall				
		Min	Max	Min	Max	0 to2	2 to4	>4	0 to2	2 to4	>4			
ALAPPUZHA	81	0.1	3.85	0.09	2.2	21 25.92%	2 2.46%	0	57 70.37%	1 1.23%	0	0	23	58
ERNAKULAM	134	0.03	1.99	0.01	2.25	58 43.28%	0	0	76 56.71%	0	0		58	76
IDUKKI	66	0.06	2.56	0.01	3.25	43 65.15%	1 1.51%	0	21 31.81%	1 1.51%	0		44	22
KANNUR	105	0.01	3.51	0.02	2.94	58 55.23%	2 1.90%	0	43 40.95%	2 1.9%	0		60	45
KASARAGOD	120	0.01	3.52	0.01	3.26	67 55.5%	6 5%	0	44 36.66%	2 1.6%	0	1 0.83%	73	46
KOLLAM	109	0.02	1.78	0.02	4.2	11 10.09	0	0	89 81.65%	8 7.33%	1 0.91%		11	98
KOTTAYAM	101	0.01	3.47	0.02	1.9	57 56.43%	2 1.98%	0	42 41.58%	0	0		59	42
KOZHIKODE	88	0.01	1.1	0.01	1.41	45 51.13%	0	0	41 46.59%	0	0	2 2.27%	45	41
MALAPPURAM	125	0.01	4.33	0.01	2.72	55 44%	3 2.4%	2 1.6%	61 48.8%	2 1.6%	0	2 1.6%	60	63
PALAKKAD	137	0.02	3.56	0.03	4.09	83 60.58%	9 6.56%	2 1.45%	36 26.27%	6 4.37%	0	1 0.79%	94	42
PATHANAMTHITTA	89	0.01	2.56	0.01	3.65	19 21.34%	3 3.37%	0	65 73.03%	1 1.12%	0	1 1.12%	22	66
THIRUVANANTHA PURAM	121	0.01	2.08	0.01	4.14	43 35.53%	1 0.82%	0	74 61.15%	2 1.65%	1 0.83%		44	77
THRISSUR	128	0.01	3.99	0.02	2.7	65 50.78%	5 3.98%	0	56 43.75%	1 0.78%	0	1 0.78%	70	57
WAYANAD	75	0.03	4	0.02	0.93	45 60%	8 10.67%	0	22 29.33%		0		53	22
TOTAL	1479	0.01	5.68	0.01	4.05	670 45.3%	42 2.8%	4 0.27%	727 49.15%	26 17.45%	2 0.13%	8 0.54%	716 48.41%	755 51.05%

TABLE 7.4.DISTRICTWISE-WATERLEVELFLUCTUATIONWITHMEAN (JANUARY2008-2017)ANDJANUARY2018

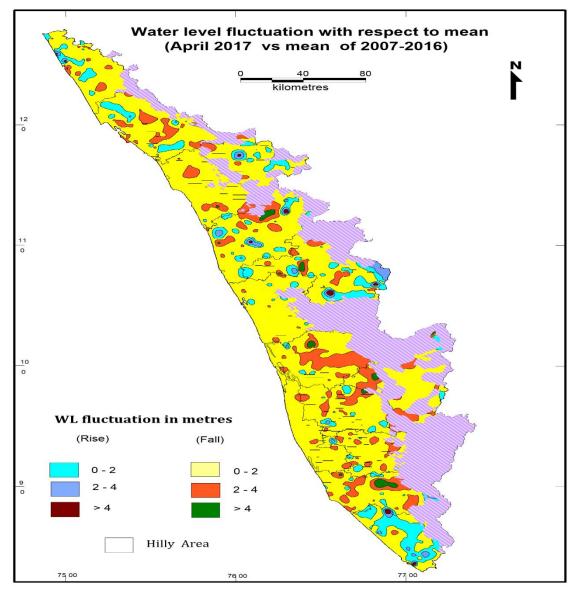


Fig.7.1: Water level fluctuation with respect to April 2017 Vs mean (April 2007-2016)

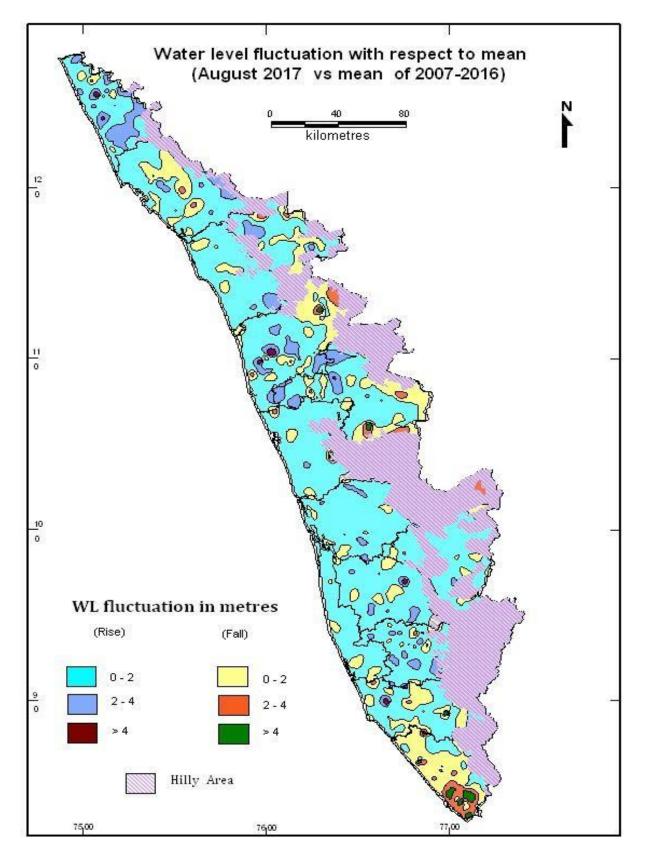


Fig. 7.2:WaterlevelfluctuationwithrespecttoAugust2017vs mean (August 2007-2016))

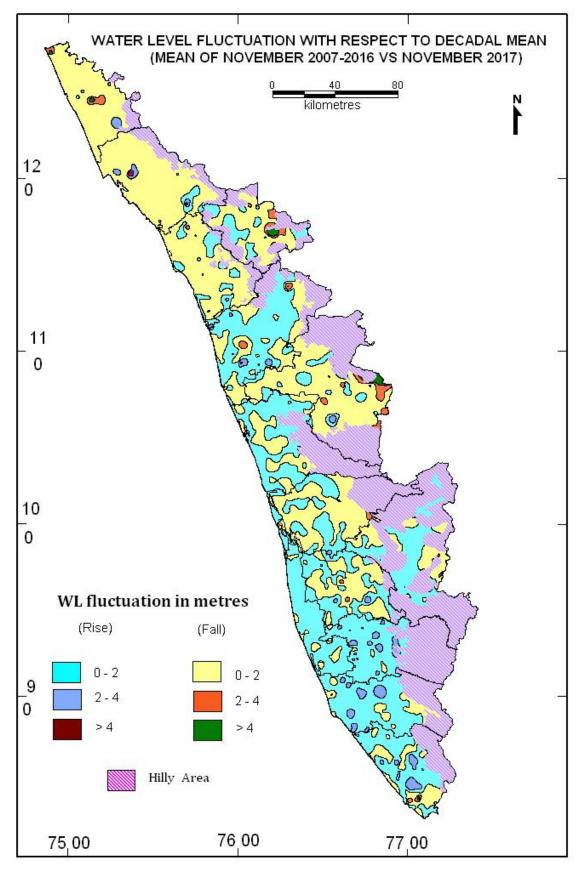
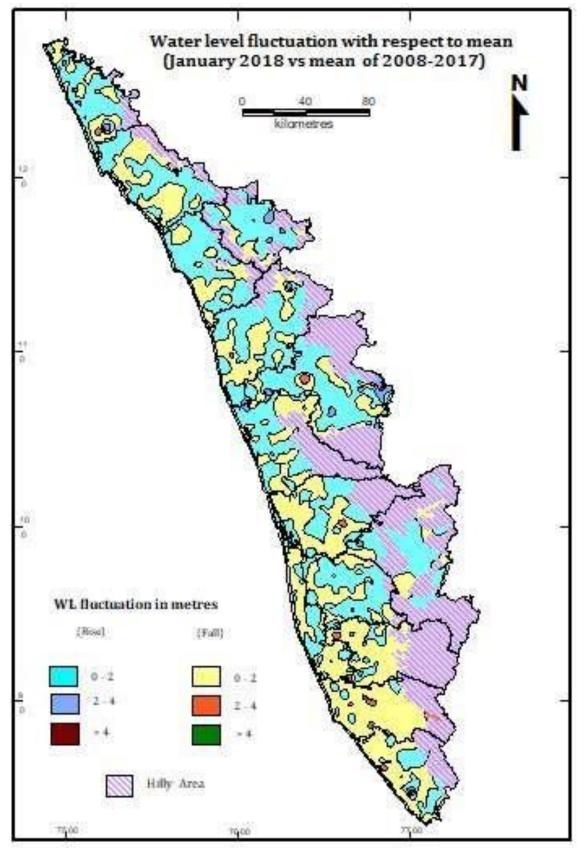


Fig.7.3:Waterlevelfluctuationwithrespectto November2017 vs Mean (NOV2007-2016)



 $Fig. 7.4: Waterlevel fluctuation with respect to January 2018 Vs\ mean (January\ 2008-2017))$

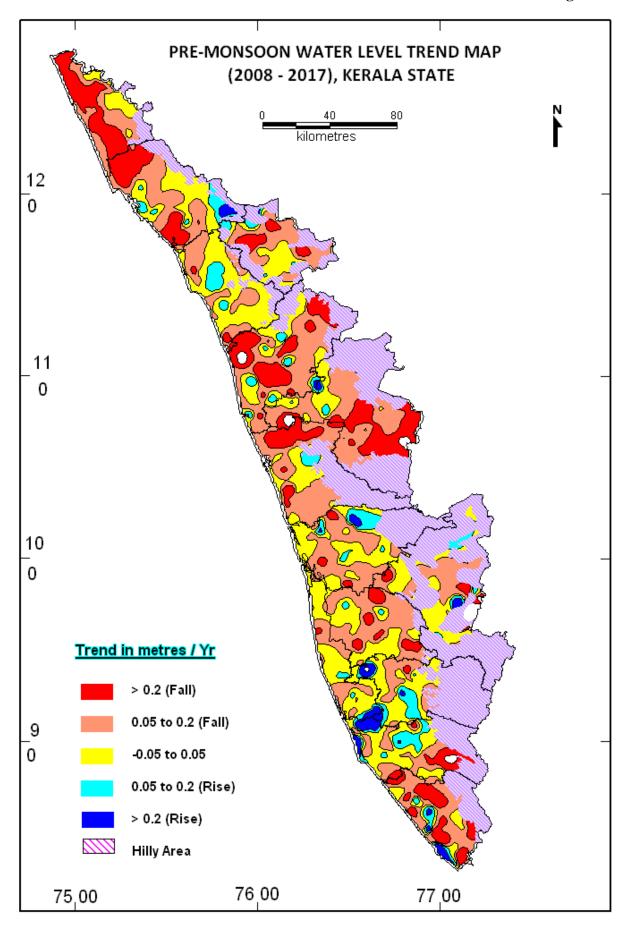
VIII. LONG TERM GROUND WATER LEVEL TREND

The long-term water level data was analysed for the period of 2008-2017. The analysis of pre-monsoon water level trend for the last decadal period (i.e during 2008–2017) indicates that only 29.3% of GWMWs have recorded negligible change in water level in the range of +0.05 to -0.05 m/year. 37.6 % of monitoring wells have recorded declining trend in the range of 0.05 to 0.2 m/year 19.7 % of monitoring wells have recorded declining trend above 0.2 m/year while 4.3% of of monitoring wells have recorded rising trend above 0.2 m/year. 9.1% of monitoring wells show rise in the range of 0.05 to 0.2 m/year. From the above data, it is clear that the long term trend for the pre-monsoon period indicates anoverall fall in water level. The maps showing pre-monsoon water level trend for the period 2008-2017 is shown in Figure 8.1

The analysis of post-monsoon water level trend for the last decadal period (i.e during 2008–2017) indicates that 42.1 % of GWMWs have recorded negligible change in water level in the range of +0.05 to -0.05 m/year. The 22.7 % of monitoring wells have recorded declining trend in the range of 0.05 to 0.2 m/year and 10.67 % of monitoring wells have recorded declining trend above 0.2 m/year. 16.7 % of monitoring wells have recorded rising trend in the range of 0.05 to 0.2 m/year and 7.7 % of monitoring wells have recorded rising trend above 0.2 m/year. The data analysis indicates that the long-term ground water level trend shows a rising trend in major portions of the state when compared to postmonsoon period. The maps showing premonsoon water level trend for the period 2006-2015 is shown in Figure 8.2.

Typical hydrographs showing the negligible change in water level are depicted in Figures 8.3 &8.4. Many of the monitoring wells which are showing declining pre-monsoon water level, have a rising or a steady post monsoon water level trend, indicating the enhanced ground water recharge to recoup to the original level (Figure 8.5 &8.6). A few monitoring wells like Palakkad, Elanthoor, Pathanamthitta District and Naranganam, Kottayam District have shown falling trend of both pre-monsoon and post-monsoon water levels (Figure 8.8 &8.10).

Figure 8.1



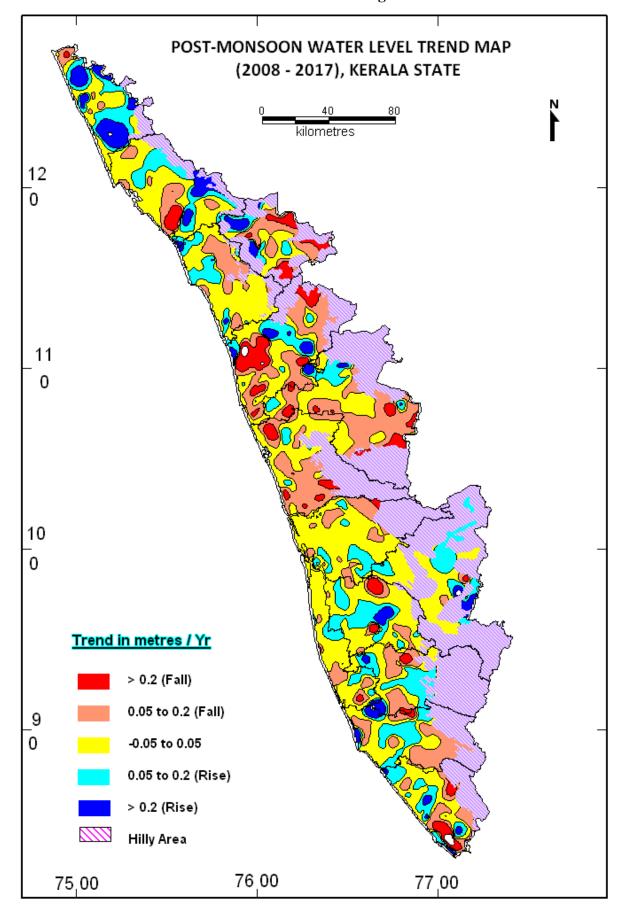


Figure 8.2

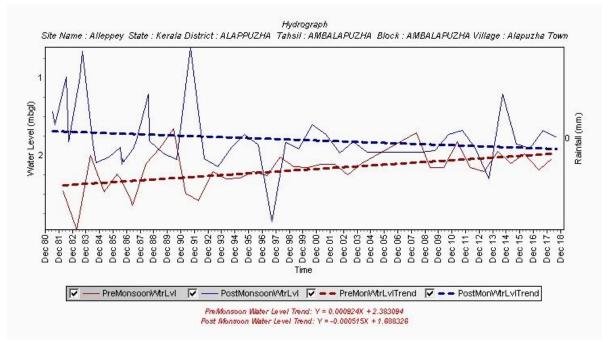


Fig 8.3Hydrograph of GWMWs tapping phreatic aquifer in laterites at Alappuzha Town, Alappuzha District

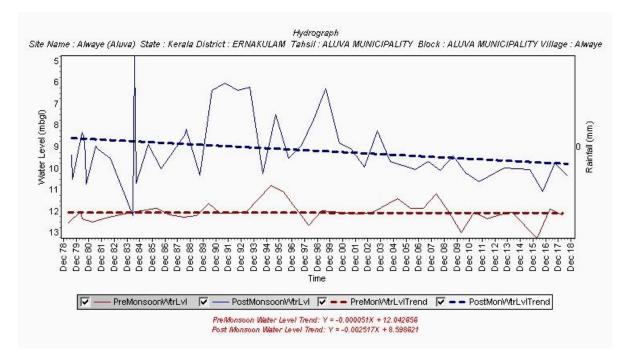


Fig 8.4Hydrograph of GWMW tapping phreatic aquifer in laterites at Alwaye, Ernakulam District

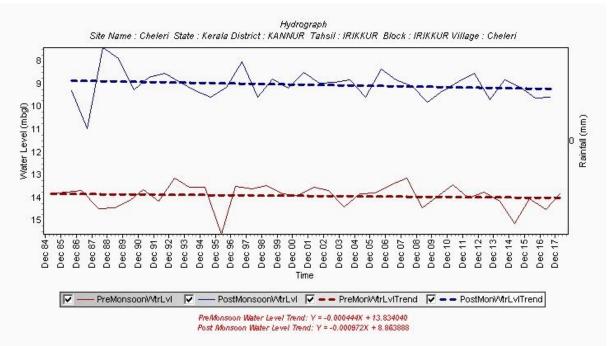


Fig 8.5Hydrograph of GWMW tapping phreatic aquifer in laterites at Cheleri, Kannur District

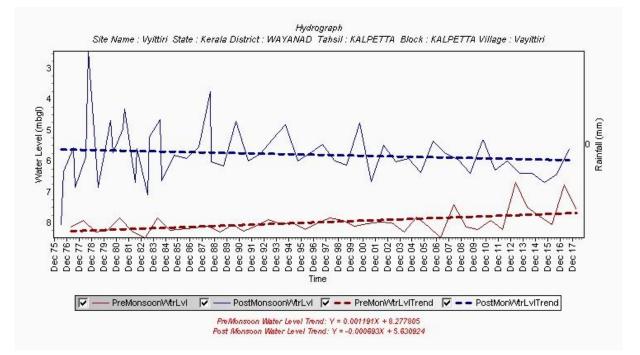


Fig 8.6Hydrograph of GWMW tapping phreatic aquifer in laterites at Vayittiri, Wayanad District

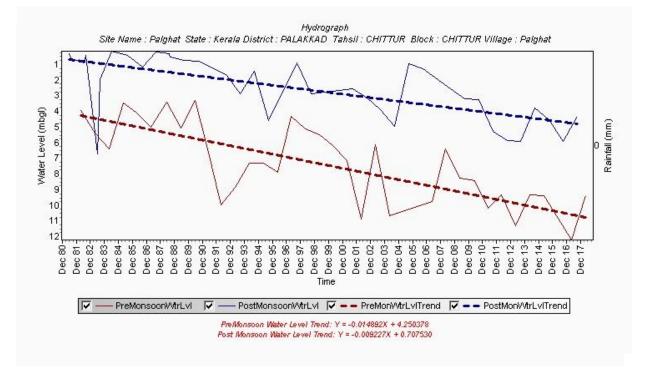


Fig 8.7Hydrograph of GWMW tapping phreatic aquifer in laterites at Ayur,Kollam District

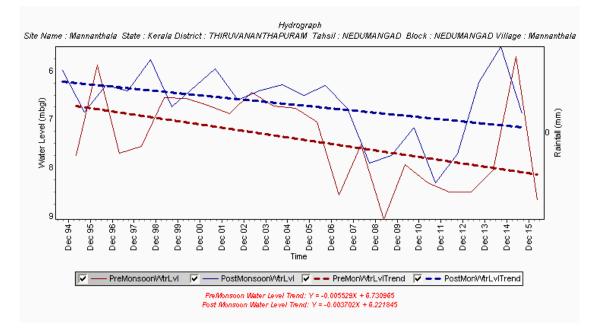


Fig 8.8Hydrograph of GWMW tapping phreatic aquifer in weathered crystallines at Palakkad, Palakkad District

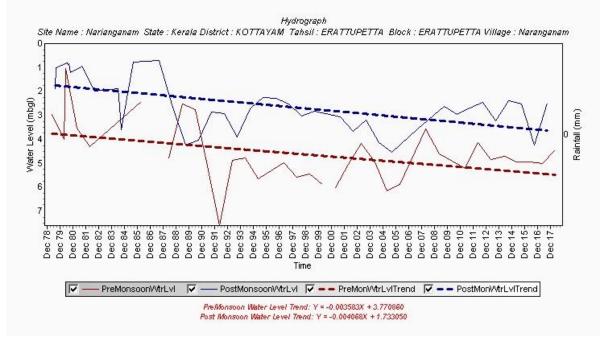


Fig 8.9Hydrograph of GWMW tapping phreatic aquifer in laterites at Naranganam, Kottayam District

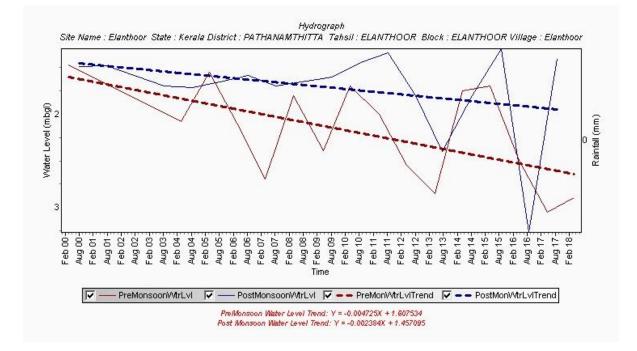


Fig8.10Hydrograph of GWMW tapping phreatic aquifer in laterites at Elanthoor, Pathanamthitta District

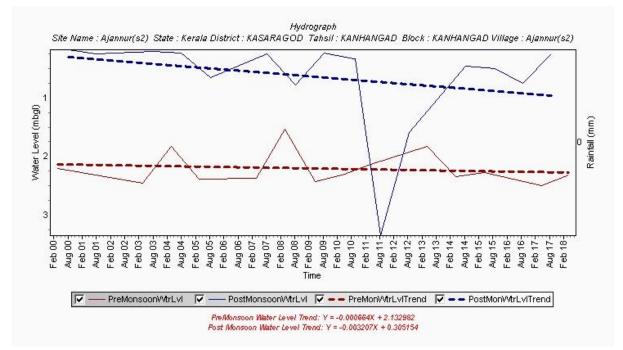


Fig 8.11Hydrograph of GWMW tapping phreatic aquifer in laterites at Ajannur, Kasaragod District

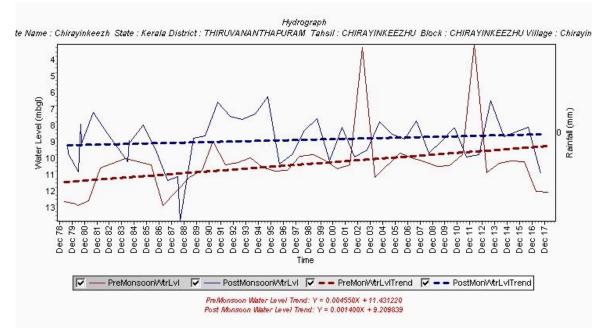


Figure 8.12Hydrograph of GWMW tapping phreatic aquifer in laterites at Chirayinkeezhu, Thiruvananthapuram District

IX. BEHAVIOUR OF PIEZOMETRIC HEADS IN DEEP AQUIFERSOF CONFINED/SEMICONFINED NATURE DURING THE YEAR 2008-2017

A total of 268 piezometers constructed by CGWB in various districts of the State are being monitored four times a year. Out of these 51 piezometers (Tube wells) are constructed in sedimentary areas. The depth range of these piezometers is from 10 m. to 450 m. The remaining 117 piezometers (Bore wells) are in hard rock areas and the depth range of these wells is from 10 m. to 300 m. About 44% of these borewells are tapping shallow fracture zones within 30 metres depth. These wells were manually monitored for water level during the months of April, August, November 2017 and January 2018. The analysis of the data acquired from these piezometers is discussed below.

Sedimentary area:

In the deeper aquifers of Tertiary age, ground water occurs under confined / semi-confined conditions. In the shallow aquifers in Tertiary formation in northern Kerala and in Recent alluvial formations in coastal plains, ground water occurs under unconfined to semi-confined condition. The piezometric heads in these aquifers is at about 18 m.amsl in the eastern boundary of recharge areas of Tertiary beds and reduced to near MSL in coastal areas. The depth to piezometric heads in deep tube wells tapping confined aquifers ranges from 0.83 to 19.7 mbgl during April 2017 (premonsoon). The annual fluctuation of the piezometric head in the year 2016 – 17 is mostly restricted to 3 metres. Free flowing wells are also encountered in some places and the decline in head with time is inferred from the reduction in free flow. Analysis of the long term piezometric head data of deeper aquifers at Karthikapally tapping Quilon and Warkali formations are showing a declining trend in both during pre-monsoon and post-monsoon. Hydrographs of piezometers at Karthikapally (Alappuzha District) tapping Warkali andHaripad(e) Quilon aquifers are shown in Figs 9.1 & 9.2.

Crystalline area:

In hard rock areas, groundwater occurs under confined / semi-confined conditions in the deep fracture zones and unconfined to semi-confined conditions in shallow fractured zones. The depth to piezometric heads in bore wells range from 0.7 to 49.4 m bgl during pre-monsoon period (April 2017). About 88.7 % of the borewells in the hard rock areas are showing piezometric head of less than 10 mbgl. The annual fluctuation of piezometric head (between April and November months) is in the range of 0.3 - 10 metres. The hydrograph of the hard rock piezometers are given in Figs. 9.3 &9.4.

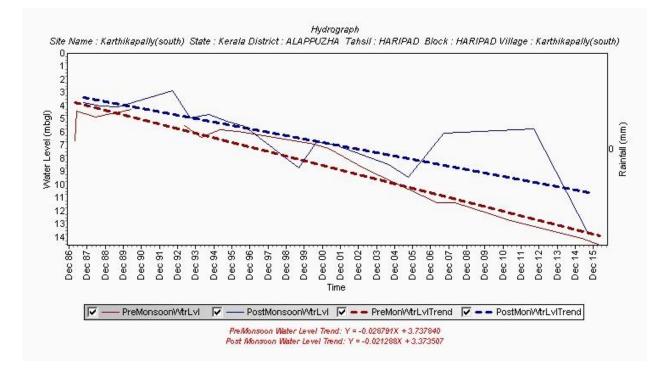


Fig 9.1 Hydrograph of Piezometer tapping Warkalai aquifer at Karthikapally, Alappuzha District

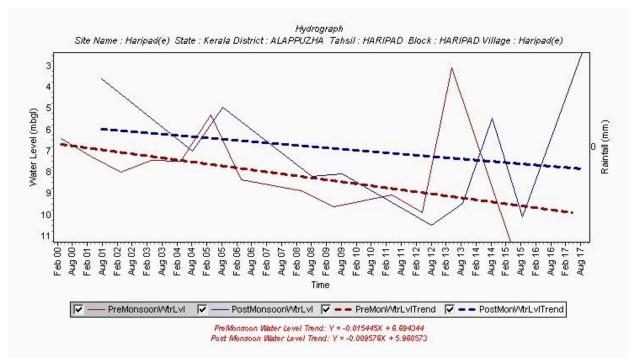


Fig 9.2 Hydrograph of Piezometer tapping Quilon aquifer at Haripad(e), Alappuzha District

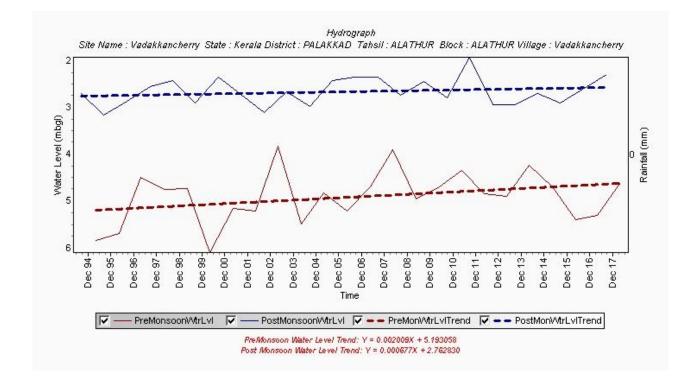


Fig 9.3 Hydrograph of Piezometer tapping fractured aquifers at Vadakkancherry, Palakkad District

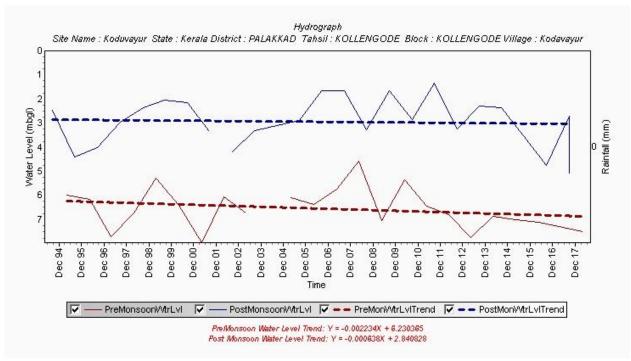


Fig. 9.4: Hydrograph of Piezometer tapping fractured aquifers at Kollengone, Palakkad District

X. HYDROCHEMISTRY

The chemical quality of shallow groundwater in Kerala State has been evaluated by sampling and analysing the water samples from National Hydrograph Monitoring Wells. 444 water samples were collected and analysed for pH, electrical conductivity, total hardness, calcium, Magnesium, Sodium, Potassium, Carbonate, Bicarbonate, Sulphate, Chloride, Fluoride and Nitrate concentrations. The analysis data is presented in Appendix. The frequency distribution of electrical conductivity data of National Hydrograph Monitoring Wells is presented for entire Kerala State as well as district-wise in Table 10.1 along with wells having nitrate concentration more than 45 mg/L and chloride concentration more than 250 mg/L in each district.

The shallow groundwater in Kerala State is generally of good quality, as per Table 10.1. Out of 444 water samples, the electrical conductivity value of 367(82.7%) water samples are in the range 0-500 Microsiemens/cm at 25° C, 56(12.6%) water samples are in the range of 501-1000 Microsiemens/cm at 25° C and 21(4.7%) water samples are in the range 1001-2000 Microsiemens/cm at 25° C. The highest electrical conductivity value of 4200Microsiemens/cm at 25° C is registered in the well of Kandakadavu of Ernakulam district

On perusal of the data presented in the Appendix it is understood that the locations where the electrical conductivity value had exceeded 1000 Microsiemens/cm at 25^oC in districts other than Palakkad district are all in Coastal plains. Due to Closeness to sea and backwaters a marginal increase of dissolved solids in groundwater is observed during the summer months. In Palakkad district the locations where the electrical conductivity had exceeded 1000Microsiemens/cm at 25^oC are situated in the eastern and southern part of the district. The eastern part of Palakkad district is more mineralised where the values of calcium and magnesium concentrations are slightly more when compared to other districts of Kerala State. This is evident from the Geological Map of Kerala State.

The wells which had shown nitrate concentration above 45mg/L are distributed sporadically over the state and are not confined to any area. These stations are most likely to represent the levels of localized pollution.

Locations where the values of parameters like electrical conductivity more than 1000 Microsiemens/cm at 25° C, and nitrate more than 45 Milligram per litre are tabulated in Tables 8.1,2 and 3 and indicated in Map 10.1& 10.2.

Sl. No.	Name of the district	Total No.of Samples		Electrical Conductivity (Microsiemens/cm at 25 ⁰ C)						Chloride >250 mg/L
		Samples	0-500		501-1	000	>1000)		mg/L
			No.of Samples	%	No.of Samples	%	No.of Samples	%		
1	Kasaragod	28	28	100	0	0	0	0	1	0
2	Kannur	33	32	97	1	3	0	0	1	0
3	Kozhikode	31	26	83.9	4	12.9	1	3.2	5	0
4	Wyanad	17	13	76.5	4	23.5	0	0	1	0
5	Malappuram	36	26	72.2	7	19.5	3	8.3	6	1
6	Thrissur	56	47	83.9	8	14.3	1	1.8	2	0
7	Palakkad	27	12	44.5	11	40.7	4	14.8	2	0
8	Ernakulam	53	41	77.4	5	9.4	7	13.2	2	5
9	Kottayam	40	35	87.5	4	10	1	2.5	3	1
10	Idukki	20	16	80	4	20	0	0	4	0
11	Alappuzha	23	23	100	0	0	0	0	0	0
12	Pathanamthitta	16	15	93.8	1	6.2	0	0	1	0
13	Kollam	28	27	96.4	0	0	1	3.6	3	1
14	Thiruvananthapuram	36	26	72.2	7	19.5	3	8.3	9	1
Total		444	367	82.7	56	12.6	21	4.7	40	9

Table – 8.1 Frequency Distribution of Electrical Conductivity(Microsiemens/cm at 25°C), Nitrate concentration >45 mg/L and Chloride concentration >250 mg/L in district wise in National Hydrograph Monitoring Wells of Kerala State during April 2017

Sl. No.	District	Block	Location	Latitude	Longitude	Electrical Conductivity in μS/cm at 25 ⁰ C
1	Kozhikode	Kozhikode Corporation	Ramanattukara	11°10'30" N	75°51'30" E	1040
		Nilambur	Chungathara	11°20'0" N	76°07'15" E	1160
		Manjeri Municipality	Manjeri	11°07'05" N	76°05'02" E	1090
		Ponnani Municipality	Ponnani	10°46'54" N	75°55'15" E	2200
3	Thrissur	Chavakkad	Kottapadi	10°37'10" N	76°02'49" E	1070
		Alathur	Alathur	10°39'0" N	76°32'30" E	1010
		Kollengode	Chemmampathi (nearby well)	10°34'15" N	76°49'55" E	1100
		Malampuzha	Kanjikode	10°47'40" N	76°45'0" E	1300
		<u> </u>	Kollengode 1			1380
		Palluruthy	Chellanum	9°48'25" N	76°17'05" E	2900
		Palluruthy	Cheriyakadavu	9°55'10" N	76°16'29" E	2000
		Alangad	Elur North	10°05'08" N	76°17'50" E	1870
			Ernakulam South			1060
		Tripunithura Municipality	Irumbanam	9°57'0" N	76°21'0" E	1260
		Palluruthy	Kandakadavu	9°50'59" N	76°16'01" E	4200
		Vypin	Vypeen	9°59'18" N	76°14'22" E	1130
6	Kottayam		Mannanam			1110
7	Kollam		Mayyanad			3300
		Kazhakkoottam	Pudukurichi	8°36'40" N	76°48'25" E	1190
		Parassala	Pozhiyoor	8°18'0" N	77°05'42" E	2000
		Perumkadavila	Vellarada	8°26'28" N	77°11'50" E	1080

Table 8. 2 Location where Electrical conductivity is >1000 μS /cm at 25% C

SI. No.	District	Block	Location	Latitude	Longitude	Nitrate in mg/L
1	Kasaragod	Kangad	Bekal	12°24'1" N	75°2'20" E	54
		Kannur	Chalad	11°52'58" N	75°21'12" E	58
		Koothuparamba	Koothuparamba	11°49'37" N	75°33'55" E	71
3	Wayanad	Kalpetta	Padinjarattara	11°40'12" N	75°57'0" E	64
		Vadakara Municipality	Vadakara	11°35'30" N	75°35'15" E	48
		Kozhikode	Kozhikode Beach	11°22'18" N	75°51'22" E	83
		Kunnamangalam	Chelavur	11°17'59" N	75°52'58" E	49
			Kallai	11°35'30" N	75°35'15" E	86
		Koyilandi Municipality	Koyilandi	11°26'24" N	75°41'39" E	66
			Chungathara	11°35'30" N	75°35'15" E	63
			Kalikavu	11°35'30" N	75°35'15" E	65
		Kuttippuram	Kuttippuram	11°35'30" N	75°35'15" E	46
		Tirur	Mangalam	10°54'36" N	75°55'12" E	98
		Manjeri Municipality	Manjeri			58
			Parappanangadi			62
		Puzhackal	Keecherry	10°36'55" N	76°07'20" E	67
		Kodungallur Municipality	Kodungallur	10°13'50" N	76°11'50" E	61
			Mathilakam			53
			Chemmampathi (nearby well)			54
		Chittur	Meenakshipuram	10°38'02" N	76°51'57" E	48
		Alangad	Elur North	10°5'8" N	76°17'50" E	48
		Kochi Corporation	Palluruthy	10°38'02" N	76°51'57" E	149
		Changanassery Municipality	Changanassery	9°26'43" N	76°31'46" E	49
		Madappally	Edinjillam	9°25'21" N	76°33'27" E	61
		Madappally	Paippad	9°25'40" N	76°34'30" E	50

Table 8.3 Location where Nitrate is >45mg/L

Sl. No.	District	Block	Location	Latitude	Longitude	Nitrate in mg/L
10	Idukki	Kattappana	Irattayar	9°47'51" N	77°6'17" E	77
		Kattappana	Kattappana	9°45'20" N	77°7'10" E	86
		Nedumkandam	Poopara	9°58'25" N	77°12'20'' E	84
		Azutha	Vandiperiyar	9°34'10" N	77°05'25" E	91
11	Pathanamthitta	Konni	Konni	9°14'0" N	76°51'0" E	55
	Kollam	Chittumala	Anchalummoodu	8°55'40" N	76°36'10" E	65
			Mayyanad			697
		Nemom	Balaramapuram	8°25'23" N	77°02'45" E	220
			Cherunniyoor			91
		Chirayinkeezhu	Kadakkavur	8°41'15" N	76°46'20" E	68
		Vellanad	Kattakkada	8°30'25" N	77°05'00'' E	84
		Vamanapuram	Pangode	8°45'55" N	76°58'10" E	59
		Chirayinkeezhu	Perumkuzhi	8°37'52" N	76°48'55" E	150
		Chirayinkeezhu	Pudukurichi	8°36'40" N	76°48'25" E	116
			Poonthura			107
		Parassala	Poovar(School)	8°19'0" N	77°4'0" E	85
			Vellarada			55

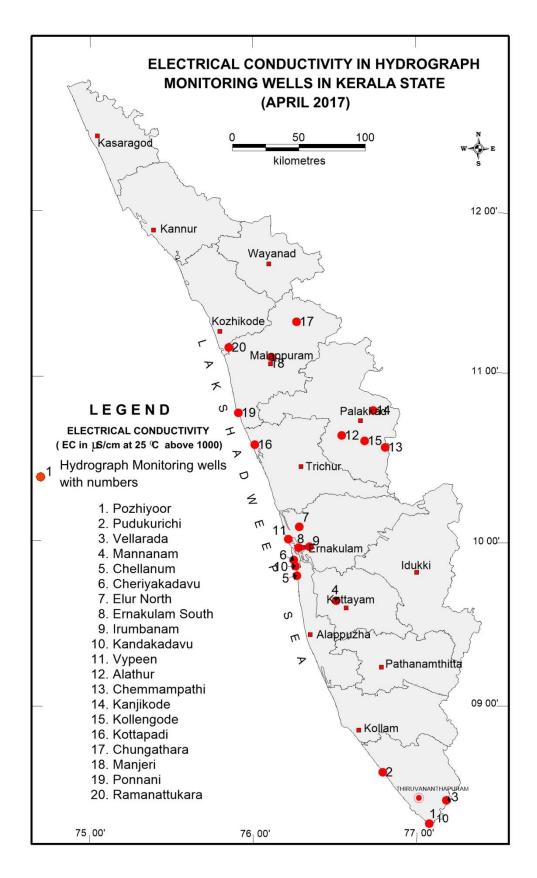


Fig. 10.1 Distribution NHS wells showing Higher EC values in Kerala State

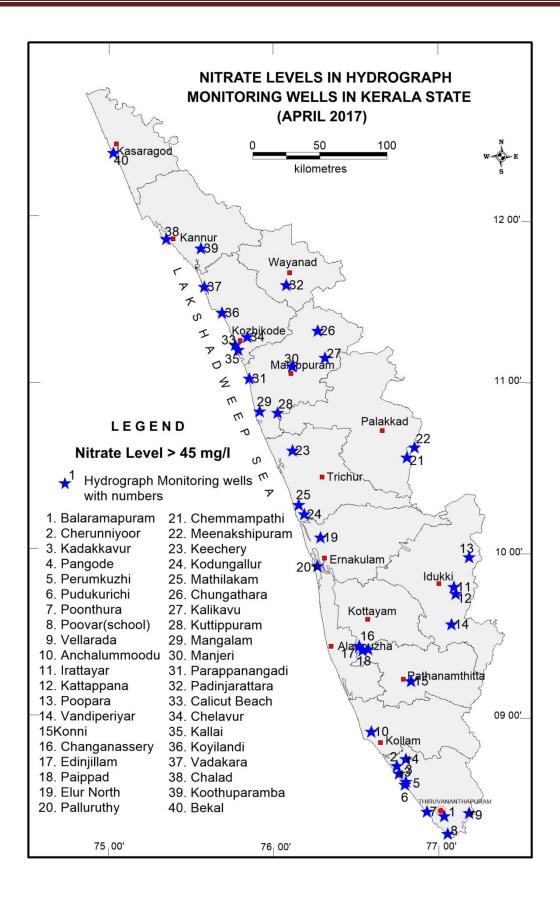


Fig. 10.2 Distribution NHS wells showing Higher Nitrate values in Kerala State

SUM UP

- The total number of Ground Water Monitoring Wells (GWMW) in Kerala State as on 01.04.2017 was 1668. These monitoring wells include 1404 dug-wells tapping phreatic aquifers and 269 piezometers tapping phreatic zones and deeper aquifers in sedimentary as well as hard rock terrains The water level monitoring was carried out in the months of April, August and November 2017 and January 2018. Water sampling was carried out in 444 GWMWs (dug-wells) during the month of April 2017.
- 2. The monitoring wells are spread over in all the physiographic regions of the State. 62 % of which fall in the midland region, 18 % in coastal plains, 15 % in high lands and 5 % in plateau region.
- 3. Out of the monitoring wells tapping phreatic aquifer, 65% of the well are tapping lateritic aquifer which is the widely distributed aquifer in the state,17 % tapping weathered and fractured crystallines followed by coastal alluvium and river alluvium represented by 15 % and 3 % respectively.
- 4. The total rainfall ranged from 1755 to 3158 mm during the period from April 2017 to March 2018. The maximum rainfall was recorded in Kozhikode district and the minimum in Thiruvananthapuram district. During the southwest monsoon season, Thiruvananthapuram district recorded 764 mm and Kasaragod district recorded 2646 mm, which are the lowest and highest rainfall respectively. During the northeast monsoon season, Wayanad district recorded the lowest rainfall of 165 mm and Kollam district recorded the highest rainfall of 950 mm.
- 5. During the southwest monsoon season from June to September 2017, the departure of rainfall in the districts varied from -37% to 2%. The maximum deficit rainfall recorded in Wayanad district out of all fourteen rainfall districts. Record time for all the districts, thirteen district recorded normal rainfall and the one district received deficient rainfall.
- 6. During the northeast monsoon season from October to December 2017, the departure of rainfall varied from 49 % to 59 % in different districts. The maximum departure towards deficient rainfall recorded in Palakkad district. Only three districts recorded excess rainfall during this season, six districts recorded deficient and one district recorded large deficient type of rainfall.

- 7. During the months of January to March 2018, the departure of rainfall varied from 163% to -46 %. The maximum departure towards large excess rainfall recorded in Kasaragod district. Four districts recorded large excess rainfall during this season, four districts recorded excess rainfall and three districts recorded deficient type of rainfall. Normal rainfall is observed in three districts during this winter season.
- 8. The depth of water level varies from place to place according to the topographical conditions and is widely in the range of near ground level to 55 m bgl. However water level is in the range of 1 10 mbgl in major parts of Kerala State. In the coastal plains of the Kerala State and in certain areas in high ranges of Idukki and Pathanamthitta districts shallow water level in the range of 1 6 m bgl is seen. In mid land region water level is generally in the range of 2 15 m bgl. However deep water level in the range of 10 30 m bgl is seen in certain areas of Kasaragod, Wayanad, Palakkad, Kollam and Thiruvananthapuram districts where thick lateritic overburden occurs.
- 9. During April 2017 about 76.43 % of monitoring wells was showing water level within the depth range of 0.10 to 10 mbgl. Whereas about 91.06 % of monitoring wells were showing water level of less than 10 mbgl during August 2017.
- 10. Annual Ground water level fluctuation during August 2017 and August 2016 reveals that majority of the dug wells shows a rise in water level which is represented by 75.62 % of total dug wells monitored
- Comparison of water level data of the year 2017 2018 with the decadal mean value of the period 2007 2016 and 2008-2017 indicates that majority of monitoring wells (89 %-April, 87.87%-August, 90.98%- November, 95.99 %-January) have recorded either rise or fall in water level with the magnitude of less than 2 m. indicating insignificant change in water level over the past decade.
- 12. Long term ground water level trend for the pre-monsoon period indicate a fall in water level in the range of 0.05-0.2 m/year is more predominant.
- 13. Long term ground water level trend for the post-monsoon period indicate that majority of the state shows a rising trend.

- 14. The chemical quality of shallow groundwater in Kerala State has been evaluated by sampling and analysing the water samples collected from Ground Water Monitoring Wells established in various physiographic divisions tapping different aquifers. During April 2017, 444 water samples have been collected which represents the premonsoon ground water quality and are subjected to physical and chemical analysis.
- 15. Majority of the water samples show electrical conductivity within 500 μ S/cm. The low conductivity of water samples can be attributed to the peculiar physiographic setting of the state.Out of 444 water samples, the electrical conductivity value of 367(82.7%) water samples are in the range 0-500 Microsiemens/cm at 25^oC , 56(12.6%) water samples are in the range of 501-1000 Microsiemens/cm at 25^oC and 21(4.7%) water samples are in the range 1001-2000 Microsiemens/cm at 25^oC .
- 16. The chemical analysis data shows that in some of the water samples concentration of chloride and nitrate are above the permissible limit. The wells which had shown nitrate concentration above 45mg/L are distributed sporadically over the state and are not confined to any area. These stations are most likely to represent the levels of localized pollution.

Annexure I

GROUND WATER LEVEL DATA OF GWMW'S IN KERALA STATE DURING 2017-18

SL.			APRIL	AUGUS	NOVEMB	JAN-	WELL
No	DISTRICT	LOCATION	17	T 17	ER -17	18	TYPE
	DISTRICT		1/	1 1/		10	DUG
1	ALAPPUZHA	Adikattukulangara	6.6	3.45	3.4	4.5	WELL
	712/11/02/17		0.0	5.15	5.1	1.5	DUG
2	ALAPPUZHA	Alappuzha Town	4.3	3.2	3.3	3.6	WELL
				0.1	0.0	0.0	DUG
3	ALAPPUZHA	Alappuzha	2.19	1.68	1.74	1.36	WELL
							DUG
4	ALAPPUZHA	AmbAlappuzha	2.63	0.15	0.45	1.37	WELL
							DUG
5	ALAPPUZHA	Aranootimangalam			6.9	7.15	WELL
							DUG
6	ALAPPUZHA	Arukutti	2.57	1.02	1.27		WELL
							DUG
7	ALAPPUZHA	Arur	2.28	0.4	0.84	1.3	WELL
_							DUG
8	ALAPPUZHA	Champakulam	1.2	0.25	0.15	0.6	WELL
•			2.60	0.64			DUG
9	ALAPPUZHA	Chandirur (R1)	2.69	0.64	1.11	1.64	WELL
10	ALAPPUZHA	Charummoodu	6.65	9.55	8.05	15.3 5	DUG WELL
10	ALAPPUZHA	Chardminoodd	0.05	9.55	0.05	5	DUG
11	ALAPPUZHA	Chelakkad	1.3	0.5	0.65	1.1	WELL
			1.0	0.0	0.05		DUG
12	ALAPPUZHA	Chengannur	7.8	3.7	4.52	7.3	WELL
		¥					DUG
13	ALAPPUZHA	Chennithala South		0.7	0.91	1.68	WELL
							DUG
14	ALAPPUZHA	Cherthalai	1.2	0.8	0.6	0.71	WELL
							DUG
15	ALAPPUZHA	Cheruvaranam	3.15	1.25	1.12	1.85	WELL
							DUG
16	ALAPPUZHA	Chettikulangara	2.35	0.75	0.69	0.9	WELL
17	ALAPPUZHA	Edathua(R2)	1	0.24	0.3	2.8	DUG WELL
17	ALAPPUZNA		1	0.24	0.5	2.0	DUG
18	ALAPPUZHA	Eramallur	2.63	1	1.26		WELL
10			2.05		1.20		DUG
19	ALAPPUZHA	Haripad	3.64	0.02	0.87	2.12	WELL
-							DUG
20	ALAPPUZHA	Idakunnam		9.3	10.08	11.7	WELL
							DUG
21	ALAPPUZHA	Kadaikadu (Cheriyanad)	5.1	3.4	4.3	4.55	WELL
							DUG
22	ALAPPUZHA	Kaidavana-R1	1.75	0.3	0.49	0.82	WELL
							DUG
23	ALAPPUZHA	Kalavamkodam	2.05	1.4	1.22	1.72	WELL

SL.			APRIL	AUGUS	NOVEMB	JAN-	WELL
No	DISTRICT	LOCATION	17	T 17	ER -17	18	ТҮРЕ
							DUG
24	ALAPPUZHA	Kalavur	1.93	0.45	0.55	0.87	WELL
							DUG
25	ALAPPUZHA	Kallissery	4.53	1.45	2.1		WELL
							DUG
26	ALAPPUZHA	Kandiyur (R1)	4.4	1.55	1.78	2.62	WELL
							DUG
27	ALAPPUZHA	Kanichukulangara	2.9	1.7		2.01	WELL
20					0.07		DUG
28	ALAPPUZHA	Karumancherry	1.48	0.3	0.37	0.8	WELL
20		Karuwatta (D1)	2	0.2	0.57	1 7	DUG WELL
29	ALAPPUZHA	Karuvatta (R1)	3	0.2	0.57	1.7	DUG
30	ALAPPUZHA	Kattanam	13.3	10.95	10.62	11.6	WELL
- 50		Kattanam	15.5	10.55	10.02	11.0	DUG
31	ALAPPUZHA	Kattoor (R1)	2.2	0.7	0.9	1.3	WELL
				• · ·			DUG
32	ALAPPUZHA	Kayamkulam	1.08	0.1	0.52	0.48	WELL
							DUG
33	ALAPPUZHA	Kayippuram (Muhamma)	3.4	1	0.93	1.68	WELL
							DUG
34	ALAPPUZHA	Kokkothamangalam	3.15	1.2	1.3	2.21	WELL
							DUG
35	ALAPPUZHA	Kudassanad	6	3.45	2.73	5.5	WELL
26		K		0.0	0.00	1.24	DUG
36	ALAPPUZHA	Kunnamkari Kuttitheruvu		0.3	0.29	1.34	WELL
37	ALAPPUZHA	(Kayamkulam)	3.48	1.5	1.15	1.75	DUG WELL
57			5.40	1.5	1.15	1.75	DUG
38	ALAPPUZHA	Kuzhamathu	12.7	8.7	8.1	11.6	WELL
							DUG
39	ALAPPUZHA	Mahadevikad	1.3	0.55			WELL
							DUG
40	ALAPPUZHA	Mancombu	1	1.49	1.75	0.52	WELL
							DUG
41	ALAPPUZHA	Mannanchery	3.4	1.6	1.35	1.98	WELL
							DUG
42	ALAPPUZHA	Mannar	5.4	4.7	2.6	3.31	WELL
12		Mayolikara	274	1 00	1 6 4	2 20	DUG
43	ALAPPUZHA	Mavelikara	3.74	1.89	1.54	2.39	WELL DUG
44	ALAPPUZHA	Mulakuzha1		1.95	0.85	5.3	WELL
				1.55	0.05	5.5	DUG
45	ALAPPUZHA	Muthukulam	3.15	0.65	0.57		WELL
-							DUG
46	ALAPPUZHA	Muttam	3.24	0.4	0.9	1.23	WELL
							DUG
47	ALAPPUZHA	Muttar	1.8	0.5	0.43	1.05	WELL

SL.			APRIL	AUGUS	NOVEMB	JAN-	WELL
No	DISTRICT	LOCATION	17	T 17	ER -17	18	ТҮРЕ
							DUG
48	ALAPPUZHA	Naduvattom	3.25	0.45	0.75	1.13	WELL
							DUG
49	ALAPPUZHA	Nangiarkulangara	2.55	0.65	0.65	1.15	WELL
							DUG
50	ALAPPUZHA	Nedumudi (pupalli)	0.7				WELL
							DUG
51	ALAPPUZHA	Neerkunnam(R1)	2.5	0.5			WELL
50		Neeroned	4.00	0.05	7 7 7	0.04	DUG
52	ALAPPUZHA	Nooranad	4.83	8.85	7.73	9.94	WELL DUG
53	ALAPPUZHA	Oachira1 (Krishnapuram)	4.4	2.31	2.11	2.82	WELL
	712/11/02/17			2.51	2.11	2.02	DUG
54	ALAPPUZHA	Ottappunna		1.8			WELL
							DUG
55	ALAPPUZHA	Pacha (R3)	1.45	0.2	0.27	0.75	WELL
							DUG
56	ALAPPUZHA	Pallarimangalam	2.65	0.65	0.69	1.1	WELL
							DUG
57	ALAPPUZHA	Panavally	2.16	0.7	0.93	1.05	WELL
50		Devilence	2.7	2.2	2.6	2.42	DUG
58	ALAPPUZHA	Pandanad	3.7	2.2	2.6	2.43	WELL
59	ALAPPUZHA	Panurkara	2.1	0.8	0.4	1.05	DUG WELL
- 29	ALAFFUZHA		2.1	0.8	0.4	1.05	DUG
60	ALAPPUZHA	Parayakkad	2.39	1.25	1.3		WELL
							DUG
61	ALAPPUZHA	Parumala (R1)	6.9	4.1	5.57		WELL
							DUG
62	ALAPPUZHA	Pathiyur (R1)	2.3	1.2	0.57	0.97	WELL
							DUG
63	ALAPPUZHA	Pattanakad	2	0.45	0.51	1.2	WELL
				0.00			DUG
64	ALAPPUZHA	Punnapra (R1)	3.18	0.63	0.95	1.51	WELL
65	ALAPPUZHA	Purakkad (R1)	2.64	1 61	2.31	2.36	DUG WELL
05	ALAPPUZHA		2.04	1.61	2.51	2.30	DUG
66	ALAPPUZHA	Ramankari (R1)	0.53	0.08	0.39	0.83	WELL
			0.55	0.00	0.55	0.00	DUG
67	ALAPPUZHA	Thaikattusseri (R1)	1.8		0.6	1.65	WELL
							DUG
68	ALAPPUZHA	Thakazhi	1.62	0.1	0.7	1.31	WELL
							DUG
69	ALAPPUZHA	Thalavadi (R1)	3.3	0.2	0.53		WELL
		-					DUG
70	ALAPPUZHA	Thamarakulam	4.3	2.95	2.8	3.4	WELL
71		Thanoormukkam	1 4	0.0	0.71	1 1	DUG
71	ALAPPUZHA	Thaneermukkam	1.4	0.9	0.71	1.1	WELL

SL.			APRIL	AUGUS	NOVEMB	JAN-	WELL
No	DISTRICT	LOCATION	17	T 17	ER -17	18	ТҮРЕ
							DUG
72	ALAPPUZHA	Thevery	2.53	0.7	1.1	1.61	WELL
							DUG
73	ALAPPUZHA	Thottapally		0.25			WELL
							DUG
74	ALAPPUZHA	Thuravur	3.3	1.5			WELL
75				0.75		4.05	DUG
75	ALAPPUZHA	Thyckal Beach	1.3	0.75	0.4	1.05	WELL
76	ALAPPUZHA	Trikkuppopuzho (D2)	1 05	0.45	0.62	2 05	DUG WELL
/0	ALAPPUZHA	Trikkunnapuzha (R2)	1.85	0.45	0.62	3.05	DUG
77	ALAPPUZHA	Valavanad	2.1				WELL
//			2.1				DUG
78	ALAPPUZHA	Vallikunnam	3.25	1.17	1	1.45	WELL
			0.20				DUG
79	ALAPPUZHA	Vanaswargam	2	0.85	0.8	1.15	WELL
		-					DUG
80	ALAPPUZHA	Vandanam	3.35	1.4	1.7	2.05	WELL
							DUG
81	ALAPPUZHA	Veeyapuram (R1)	3.65	0.45	1.07	1.75	WELL
							DUG
82	ALAPPUZHA	Venmani (R1)	3.37	0.9	1.1		WELL
				2.4	1.00	4 55	TUBE
83	ALAPPUZHA	Chettikulangara Pz		3.1	1.86	1.55	WELL
84	ALAPPUZHA	Ezhupunna	1.5	0.8	0.9	1.43	TUBE WELL
04	ALAFFUZHA		1.5	0.8	0.9	10.2	TUBE
85	ALAPPUZHA	Haripad(c)	8.86	8.55	9.85	5	WELL
			0.00	0.00	0.00		TUBE
86	ALAPPUZHA	Haripad(e)	11.28	2.38			WELL
							TUBE
87	ALAPPUZHA	Haripad(n)			9.5	9.9	WELL
							TUBE
88	ALAPPUZHA	Haripad(s)	9.91	9.9			WELL
						10.8	TUBE
89	ALAPPUZHA	Haripad(w)			10.7	1	WELL
		Kalarkada (a)	2.2	2.6	F 00	2.4	TUBE
90	ALAPPUZHA	Kalarkode(e)	2.2	2.6	5.08	3.4	WELL TUBE
91	ALAPPUZHA	Kalarkode(s)	3.91	3.2	1.4	2.55	WELL
51			5.51	J.2	1.4	15.2	TUBE
92	ALAPPUZHA	Kalarkode(w)	19.01	17.2	16.05	13.2	WELL
							TUBE
93	ALAPPUZHA	Karthikapalli(north)		9.4			WELL
							TUBE
94	ALAPPUZHA	Karumady	2.1	1.41			WELL
						10.8	TUBE
95	ALAPPUZHA	Kattanam1		10.5	10.15	5	WELL

SL.			APRIL	AUGUS	NOVEMB	JAN-	WELL
No	DISTRICT	LOCATION	17	T 17	ER -17	18	ТҮРЕ
						15.6	TUBE
96	ALAPPUZHA	Krishnapuram(n)	16.34	16.6	16.5	5	WELL
							TUBE
97	ALAPPUZHA	Krishnapuram(s)	6.85	5.5	5.25	6.45	WELL
							TUBE
98	ALAPPUZHA	Mannar	6.67	2.37	4.33		WELL
							TUBE
99	ALAPPUZHA	Muthukulam Pz	1.1	0.3	0.14	0.53	WELL
							TUBE
100	ALAPPUZHA	Muttam(south)	5.87	3.72	3.76	4.81	WELL
							TUBE
101	ALAPPUZHA	Preethigulangara-centre	14		12.08	13.4	WELL
102			7 22	5.00	0.04	0.4.4	DUG
102	ERNAKULAM	Aikaranad	7.33	5.92	8.04	8.14	WELL
102		Alwaya	11.0	0.77	10.25	11.2	DUG
103	ERNAKULAM	Alwaye	11.9	9.77	10.25	9	WELL DUG
104	ERNAKULAM	Anchalpotty P1	5.9	5.06	5.95	6.19	WELL
104	ERINARULAIVI	Anchalpetty-R1	5.9	5.00	5.95	0.19	DUG
105	ERNAKULAM	Angamali (R1)	7.3	5.3	6.52	7.34	WELL
105			7.5	5.5	0.52	7.54	DUG
106	ERNAKULAM	Anicadu	3.35	1.65	1.85	2.39	WELL
			0.00				DUG
107	ERNAKULAM	Arakunnam	12.93	8.89	8.85	9.46	WELL
							DUG
108	ERNAKULAM	Arakuzha	4.95	5.53	5.9	6.29	WELL
							DUG
109	ERNAKULAM	Attara (Kokunnu)	7.15	6.13	6.62	4.84	WELL
							DUG
110	ERNAKULAM	Chalakka	2.57	1.68	2.16	2.22	WELL
							DUG
111	ERNAKULAM	Chellanum	1.16				WELL
440				0.67	0.00	1.00	DUG
112	ERNAKULAM	Chellanum South		0.67	0.83	1.08	WELL
113	ERNAKULAM	Changamanad	0.62	7.53	0 16	8.92	DUG WELL
112		Chengamanad	9.63	7.55	8.16	0.92	DUG
114	ERNAKULAM	Cherai	1.73				WELL
			1.75				DUG
115	ERNAKULAM	Cherai South		1.06	1.39	1.7	WELL
			1		2.00		DUG
116	ERNAKULAM	Cheria Kadavu	0.8	0.42	0.85	1.24	WELL
							DUG
117	ERNAKULAM	Cherukadapuram	2.3	1.05	1.53	1.99	WELL
							DUG
118	ERNAKULAM	Chowara (R1)	6.7	5.36	6.1	7.15	WELL
							DUG
119	ERNAKULAM	Chulli (R1)	4.65	0.49	2.24	4.49	WELL

SL.			APRIL	AUGUS	NOVEMB	JAN-	WELL
No	DISTRICT	LOCATION	17	T 17	ER -17	18	ТҮРЕ
							DUG
120	ERNAKULAM	East Marady	6.4	4.42	5.58	5.72	WELL
							DUG
121	ERNAKULAM	Edakkatuvayal	12.07	9.22	10.3	9.47	WELL
							DUG
122	ERNAKULAM	Edapally	2.07	1.15	1.47	1.84	WELL
							DUG
123	ERNAKULAM	Edavanakad	0.95	0.03	0.46	0.74	WELL
124		Flur North (D1)	1.0	1.26	1 0 1	1 70	DUG
124	ERNAKULAM	Elur North (R1)	1.8	1.36	1.82	1.79	WELL DUG
125	ERNAKULAM	Ernakulam South	0.77	0.5	0.72	0.89	WELL
125	LINIAROLAIVI		0.77	0.5	0.72	0.89	DUG
126	ERNAKULAM	Fort cochin	2.45	1.16	1.61	1.99	WELL
120			2.13	1.10	1.01	1.55	DUG
127	ERNAKULAM	Ilanji	7.65	1.5	3.33	7.14	WELL
							DUG
128	ERNAKULAM	Illithode 1		4.15	6.15	7.79	WELL
							DUG
129	ERNAKULAM	Irumbanam (R1)	4.45	0.85	1.14	2	WELL
							DUG
130	ERNAKULAM	Kadavoor			5.17	5.54	WELL
							DUG
131	ERNAKULAM	Kadungallur		1.04		1.89	WELL
122		Kalady (D1)	2 55	4 71	ГЭ	4.20	DUG
132	ERNAKULAM	Kalady (R1)	2.55	4.71	5.3	4.39	WELL DUG
133	ERNAKULAM	Kallorkad	3.35	3.08	3.15	3.29	WELL
155		Kanorkau	5.55	5.00	5.15	5.25	DUG
134	ERNAKULAM	Kalur	6.75	3.6	5.11	6.1	WELL
					-		DUG
135	ERNAKULAM	Kandakadavu	1.15	0.72	0.97	1.07	WELL
							DUG
136	ERNAKULAM	Kanjiramattom	7.05	3.82	6.93	7.14	WELL
							DUG
137	ERNAKULAM	Kanjur	7.65	5.95	6.7	7.24	WELL
							DUG
138	ERNAKULAM	Kapprassery		0.66	1.07	2.26	WELL
139	ERNAKULAM	Karukadam				1.69	DUG WELL
122						1.09	DUG
140	ERNAKULAM	Karukadam (R1)		1	1.49		WELL
					15		DUG
141	ERNAKULAM	Karukutti (R2)	7.1			7.95	WELL
							DUG
142	ERNAKULAM	Karukutti (R3)		6.79	4.22		WELL
							DUG
143	ERNAKULAM	Keerampara	2.9	3	3.2	3.74	WELL

SL.			APRIL	AUGUS	NOVEMB	JAN-	WELL
No	DISTRICT	LOCATION	17	T 17	ER -17	18	ТҮРЕ
							DUG
144	ERNAKULAM	Keezhillam	5.65	7.3	7.48	8.84	WELL
							DUG
145	ERNAKULAM	Kizhakkambalam	5.65			5.8	WELL
							DUG
146	ERNAKULAM	Kizhakkambalam (R1)		4.68	5.3		WELL
							DUG
147	ERNAKULAM	Kizhakombu	5.7	1.52	2.34	5.09	WELL
140		Kadaraad	2.5	1 5 2	2 20	4 1 5	DUG
148	ERNAKULAM	Kodanad	3.5	1.53	2.38	4.15	WELL DUG
149	ERNAKULAM	Kodussery (R1)	9.15	6.77	8.04	7.94	WELL
145			5.15	0.77	0.04	7.54	DUG
150	ERNAKULAM	Koothattukulam (R1)	4.5	2.74	3.4	3.91	WELL
							DUG
151	ERNAKULAM	Koovapady	7.2	5.12	5.69	6.44	WELL
							DUG
152	ERNAKULAM	Kothamangalam (R3)	4.55	3.82	4.35	4.39	WELL
							DUG
153	ERNAKULAM	Kottapadi	3.33	1.97	2.4	3.27	WELL
							DUG
154	ERNAKULAM	Kottapuram (Alangadu)	3.15	1.31	1.67	2.09	WELL
155		Kattanuran (Valivanad)	6.25	4 74	5.47	6.09	DUG WELL
155	ERNAKULAM	Kottapuram (Veliyanad)	6.25	4.74	5.47	6.09	DUG
156	ERNAKULAM	Kumbalangi (R2)	1.6	0.48	0.79	1.19	WELL
130			1.0	0.40	0.75	1.15	DUG
157	ERNAKULAM	Kundannur (R1)	1.18	0.15	0.25	1.04	WELL
							DUG
158	ERNAKULAM	Kunnukara	9.23	5.51	7.09	5.72	WELL
							DUG
159	ERNAKULAM	Kurumassery	7.95	7.03	8.11	8.49	WELL
							DUG
160	ERNAKULAM	Kuruppampady	6.35	4.01	4.61	6.89	WELL
101			4 75	2.2	2.2	4 5 4	DUG
161	ERNAKULAM	Kuthukuzhi	4.75	2.3	3.2	4.54	WELL DUG
162	ERNAKULAM	Malayattur	8.1	5.6	6.6	7.64	WELL
102		Walayatta	0.1	5.0	0.0	7.04	DUG
163	ERNAKULAM	Malipuram	1.05	0.49	0.58	0.94	WELL
							DUG
164	ERNAKULAM	Mallussery	6.12	3.57	3.85	4.74	WELL
							DUG
165	ERNAKULAM	Mamala	7.4	2.86	3.87	4.42	WELL
							DUG
166	ERNAKULAM	Mamallassery (R1)	6.05	1.44	3.11	5.49	WELL
107		Maniana		2 72	C O A	4.00	DUG
167	ERNAKULAM	Manjapra		3.72	6.04	4.62	WELL

SL.			APRIL	AUGUS	NOVEMB	JAN-	WELL
No	DISTRICT	LOCATION	17	T 17	ER -17	18	ТҮРЕ
							DUG
168	ERNAKULAM	Mannur	4.35	3.52	3.87	5.59	WELL
							DUG
169	ERNAKULAM	Maradu	2.25	0.23	0.62	1.04	WELL
							DUG
170	ERNAKULAM	Mulanthuruthi	9.45	6.96	7.82	8.69	WELL
							DUG
171	ERNAKULAM	Mullankunnu	10.35	8.3	8.66	9.54	WELL
							DUG
172	ERNAKULAM	Munambam (R1)	1.23	0	0.5	1.12	WELL
							DUG
173	ERNAKULAM	Muvattupuzha	7.65	4.94	5.78	7.54	WELL
174		Nelline elene (D1)	7.2	F 71	C 40	6 6 4	DUG
174	ERNAKULAM	Nallimolam (R1)	7.2	5.71	6.42	6.54	WELL DUG
175	ERNAKULAM	Namakuzhi	5.45	2.55	3.8	6.74	WELL
1/5			5.45	2.55	5.0	0.74	DUG
176	ERNAKULAM	Nayarambalam	1.45	0.8	1.1	1.46	WELL
1/0		Nayarambalam	1.13	0.0		1.10	DUG
177	ERNAKULAM	Nellikuzhi	3.65			3.14	WELL
							DUG
178	ERNAKULAM	Nellikuzhi (R1)		1.82	2.4		WELL
							DUG
179	ERNAKULAM	Neriyamangalam (R1)	8.27	5.93	9.05	8.41	WELL
							DUG
180	ERNAKULAM	Njarakkal	0.9	0.36	0.56	0.94	WELL
							DUG
181	ERNAKULAM	North Parur	1.05	0	0.46	0.89	WELL
4.02			2.7	2.24	2 70	2.44	DUG
182	ERNAKULAM	Okkal	3.7	2.31	2.78	3.44	WELL
183	ERNAKULAM	Oonnukal	6.3	4.3	5.74	5.86	DUG WELL
105	ERNAROLAIVI	OUTITUKAI	0.5	4.5	5.74	5.80	DUG
184	ERNAKULAM	Paingottur	5.35	3.64	4.62	6.14	WELL
			5.55	5.01	1.02	0.11	DUG
185	ERNAKULAM	Palakuzha North	8.03	3.13	5.04	6.17	WELL
		Pallikara-Chittanadu				_	DUG
186	ERNAKULAM	(wonderla)	7.4	7.12	8.04	8.44	WELL
							DUG
187	ERNAKULAM	Palluruthy	1.95	0.68	1.04		WELL
							DUG
188	ERNAKULAM	Pambakuda	6.15	3.62	4.1	6.34	WELL
							DUG
189	ERNAKULAM	Parakkadavu	3.05	0.93	1.83	2.82	WELL
			_				DUG
190	ERNAKULAM	Paravur	2.35	1.74	1.8	2.34	WELL
101		Dettimetter (D2)		E 34	F 60	F 00	DUG
191	ERNAKULAM	Pattimattom (R2)	6.2	5.34	5.68	5.89	WELL

SL.			APRIL	AUGUS	NOVEMB	JAN-	WELL
No	DISTRICT	LOCATION	17	T 17	ER -17	18	ТҮРЕ
							DUG
192	ERNAKULAM	Payyal	5	2.38	3.3	4.04	WELL
							DUG
193	ERNAKULAM	Peechanikad (R1)	6.65	4.48	6.06	6.54	WELL
							DUG
194	ERNAKULAM	Perumbadavam	7.75	2.77	4.54	7.14	WELL
							DUG
195	ERNAKULAM	Perumbavoor (R2)	5.75	3.87	3.97	5.81	WELL
100		Deskalderedlil	4.65	2.02		4.00	DUG
196	ERNAKULAM	Pezhakkapallil	4.65	2.82	4.11	4.69	WELL DUG
197	ERNAKULAM	Pindimana	5.1	0.16	1.06	2.59	WELL
197	LINIAROLAIVI	Findiniana	5.1	0.10	1.00	2.39	DUG
198	ERNAKULAM	Piravom	6.35	3.78	4.91	5.44	WELL
100			0.00	0.70		5	DUG
199	ERNAKULAM	Poothotta	3.53	1.66	2.03	2.48	WELL
							DUG
200	ERNAKULAM	Poothrikka		6.69	8.25	8.24	WELL
							DUG
201	ERNAKULAM	Pothanikad (R2)	4.8	2.36	4	4.84	WELL
							DUG
202	ERNAKULAM	Pulluvazhi	5.55	4.46	5.28	5.74	WELL
202		D	2.2	4.45	1.2	4 75	DUG
203	ERNAKULAM	Punithura	3.3	1.15	1.2	1.75	WELL DUG
204	ERNAKULAM	Punnakad1	1.3	0.36	1.34	1.84	WELL
204	LINAROLAIVI	Puthankurissu	1.5	0.50	1.54	1.04	DUG
205	ERNAKULAM	(Neriyamangalam Road)	3.45	2.92	3.14	3.29	WELL
		Puthankurisu (R1)					DUG
206	ERNAKULAM	(Kolencherry)	5.15	5.05	4.6	4.86	WELL
							DUG
207	ERNAKULAM	Ramamangalam	6.7	5.77	6.47		WELL
							DUG
208	ERNAKULAM	Randar	4.83	3.39	3.97	5.02	WELL
							DUG
209	ERNAKULAM	Sreemoolanagaram		7.85	8.35	9.44	WELL
210		Thabore	6.25	2 1 7	E 22	E 0/	DUG WELL
210	ERNAKULAM		6.25	2.17	5.32	5.94	DUG
211	ERNAKULAM	Thaikkattukara		1.09	1.81	2.46	WELL
				1.05	1.01	2. 10	DUG
212	ERNAKULAM	Thalakode	4	3.71	3.84	3.84	WELL
							DUG
213	ERNAKULAM	Thattekad (R1)	1.55	3.28	4.41		WELL
							DUG
214	ERNAKULAM	Thattekad (R1)				1.89	WELL
.							DUG
215	ERNAKULAM	Thirumaradi	5.55	2.9	3.44	5.24	WELL

			APRIL	AUGUS	NOVEMB	JAN-	WELL
No	DISTRICT	LOCATION	17	T 17	ER -17	18	ТҮРЕ
							DUG
216	ERNAKULAM	Thrikalathur		4.42	4.73	6.12	WELL
							DUG
217	ERNAKULAM	Thuruthi	2.65	2.62	3.11	2.84	WELL
							DUG
218	ERNAKULAM	Trikkakara	10.37	8.37	8.99	9.19	WELL
							DUG
219	ERNAKULAM	Tripunithura	2.65	1.66	2.14	2.49	WELL
							DUG
220	ERNAKULAM	Udayamperoor	4.55	2.49	2.91		WELL
224				4.05	4.00		DUG
221	ERNAKULAM	Vadavucode (Kolencherry)	1.2	1.05	1.29	2.39	WELL
222					C 1 C	C 1 F	DUG
222	ERNAKULAM	Valakam	6.65	5.65	6.16	6.15	WELL
222		Valavanshirangara	7.22	6 07	7.82	0 76	DUG WELL
223	ERNAKULAM	Valayanchirangara	1.22	6.97	7.82	8.76	DUG
224	ERNAKULAM	Vallom (R2)	7.25	5.35	6.12	6.44	WELL
224	ERNAROLAIVI		1.25	5.55	0.12	0.44	DUG
225	ERNAKULAM	Varapuzha	2.2	0.67	0.81	1.47	WELL
225		Varapuzna	2.2	0.07	0.01	1.47	DUG
226	ERNAKULAM	Vazhakkulam North	7.5	5.17	5.43	6.14	WELL
220			7.5	5.17	5.15	0.11	DUG
227	ERNAKULAM	Vazhappilly	2.25	0.81			WELL
							DUG
228	ERNAKULAM	Veliyanad		4.4		6.04	WELL
							DUG
229	ERNAKULAM	Veliyanad	8.15		5.2		WELL
							DUG
230	ERNAKULAM	Vypeen	0.55	0.26	0.5	0.59	WELL
							DUG
231	ERNAKULAM	Vytila	2.5	1.35	1.6	2.16	WELL
							TUBE
232	ERNAKULAM	Kadavanthara	6.55	6.42	6.4	6.44	WELL
							TUBE
233	ERNAKULAM	Preethigulangara-centre		14.14			WELL
224		Edeldor 197					BORE
234	ERNAKULAM	Edakkattuvoyal PZ	11.1				WELL
225		A ilya ya na sid	2.05				BORE
235	ERNAKULAM	Aikaranad1	2.95				WELL
226	ERNAKULAM	Aikaranad1			4.02		BORE WELL
236		AIKalallaUL			4.02		BORE
237	ERNAKULAM	Aikaranad1 (Kadayiruppu)		2.91		4.45	WELL
251		Aikaranau± (Kauayiruppu)		2.31		4.4J	BORE
238	ERNAKULAM	Arakuzha Pz	6.35	2.6	4.7	5.2	WELL
230			0.00	2.0	т.7	5.2	BORE
239	ERNAKULAM	Edakkattuvoyal PZ		8.5			WELL

SL.			APRIL	AUGUS	NOVEMB	JAN-	WELL
No	DISTRICT	LOCATION	17	T 17	ER -17	18	ТҮРЕ
						11.3	BORE
240	ERNAKULAM	Edakkattuvoyal PZ				4	WELL
							BORE
241	ERNAKULAM	Illithode		3.52	5.72	6.22	WELL
							BORE
242	ERNAKULAM	Irumbanam2	4.18	0.4	0.86	2.38	WELL
							BORE
243	ERNAKULAM	Kanjiramattom	14.8	12.6	13.7	13.9	WELL
							BORE
244	ERNAKULAM	Kizhakombu	10.3	0.99	2.3	5.14	WELL
							BORE
245	ERNAKULAM	Kodussery	7.37	7.02	7.62	7.67	WELL
							BORE
246	ERNAKULAM	Koovappady	6.59	5.09	5.51	6.39	WELL
247			0.0	0.2	0.0		BORE
247	ERNAKULAM	Malayattur1	9.8	9.2	8.9	8.9	WELL
240		Mullankunnu	14.2	15.2	17 5	157	BORE
248	ERNAKULAM	Mullankunnu	14.2	15.3	17.5	15.7	WELL BORE
249	ERNAKULAM	Namakuzhi	9.9	3.4	3.9	9.7	WELL
249	ERNAROLAIVI	Nalilakuzili	9.9	5.4	5.9	9.7	BORE
250	ERNAKULAM	Poothrikka Pz	11.15	7.9	8.65		WELL
230			11.15	7.5	0.05		BORE
251	ERNAKULAM	Punnakad		1.03	1.9	2.85	WELL
231				1.00	1.5	2.05	BORE
252	ERNAKULAM	Thirumaradi	4.55	4.3	4.3	4.25	WELL
							BORE
253	ERNAKULAM	Vazhakam Pz				4.57	WELL
							BORE
254	ERNAKULAM	Vazhakam Pz	4.77	4.37	4.42		WELL
							BORE
255	ERNAKULAM	Veliyanad	4.75	2.91	3.25	3.65	WELL
							DUG
256	IDUKKI	Adimali	5.51	4.27	4.9	6.27	WELL
							DUG
257	IDUKKI	Alakkode1	4.66		4.03	4.82	WELL
							DUG
258	IDUKKI	Ambazhachal	4.36	4.3	4.13	5.01	WELL
							DUG
259	IDUKKI	Amravathi	7.3	3.3	2.86	3.3	WELL
			-				DUG
260	IDUKKI	Anakkara	6.1	5.45	6.32		WELL
					. =-	F 65	DUG
261	IDUKKI	Anavilasam	7.37	4.65	4.78	5.62	WELL
202		Ariluseha	4.25	2.42	4.22		DUG
262	IDUKKI	Arikuzha	4.35	2.43	4.23		WELL
262		Dalagram (Third come)	F 2	2 4 2	F 40	1.7	DUG
263	IDUKKI	Balagram (Third camp)	5.3	3.42	5.16	4.2	WELL

SL.			APRIL	AUGUS	NOVEMB	JAN-	WELL
No	DISTRICT	LOCATION	17	T 17	ER -17	18	ТҮРЕ
							DUG
264	IDUKKI	Byson Valley	12.36	9.3	9.18	9.71	WELL
							DUG
265	IDUKKI	Carady Goody Estate	3.36	1.56	1.24	2.72	WELL
							DUG
266	IDUKKI	Chathurangapara	0.2	0.1	0.47	0.39	WELL
							DUG
267	IDUKKI	Cheenikuzhi	2.25	1	1.28	2.4	WELL
200		Charting	2 27	2	2.02	2.22	DUG
268	IDUKKI	Cheriyar	3.27	2	2.83	3.33	WELL
269	ΙΟυκκι	Chittoor		2.86	3.71	4.2	DUG WELL
209	IDOKKI			2.80	5.71	4.2	DUG
270	IDUKKI	Churuli	2.81	1.78	2.17	2.38	WELL
							DUG
271	IDUKKI	Cumbummettu	6.85	5.35	5.67	5.61	WELL
							DUG
272	IDUKKI	Devikulam	3.48	2.46	2.84		WELL
							DUG
273	IDUKKI	Elamdesom	6.15	3.4	5.02	4.2	WELL
							DUG
274	IDUKKI	Elappara	1.65	1.12	1.47	1.43	WELL
275			4 4 5	1.05	2.4	2.65	DUG
275	IDUKKI	Idukki	4.15	1.95	3.1	3.65	WELL DUG
276	ΙΟυκκι	Irattayar (R1)	3.2	1.5	2.53	2.7	WELL
270	IDORKI		5.2	1.5	2.33	2.7	DUG
277	IDUKKI	Kaliyar	5.45	4	4.48	5.59	WELL
							DUG
278	IDUKKI	Kanchiyar	10.66	9.05	8.18	9.1	WELL
							DUG
279	IDUKKI	Karimkunnam (R1)	3.22	2.1	3.22	4.06	WELL
							DUG
280	IDUKKI	Karumanoor	3.53	2.04	2.7	3.9	WELL
							DUG
281	IDUKKI	Kattapana	3.3		2.08		WELL
282	ΙΟυκκι	Kochera	4.8	3.3	4.62		DUG WELL
202	IDUKKI	KUCHEIA	4.0	5.5	4.02		DUG
283	IDUKKI	Kodikulam east	5.03	2.52	3.91	5	WELL
			2.00	2.52	5.51		DUG
284	IDUKKI	Kolani	3.66	3.55	2.94		WELL
							DUG
285	IDUKKI	Kolapra	4.16	3.88	4.22	4.52	WELL
							DUG
286	IDUKKI	Kulamavu	7.16	4.42	5.32	7	WELL
					a = 1		DUG
287	IDUKKI	Kumaramangalam	4.35	3.22	3.54	4.1	WELL

SL.			APRIL	AUGUS	NOVEMB	JAN-	WELL
No	DISTRICT	LOCATION	17	T 17	ER -17	18	ТҮРЕ
							DUG
288	IDUKKI	Kumili	3.65	2.23	2.03	3.53	WELL
							DUG
289	IDUKKI	Kuttikanam (R1)	5.8	4.4	4.68	7.12	WELL
							DUG
290	IDUKKI	Machiplavu	8.62	6.14	6.57	8.56	WELL
							DUG
291	IDUKKI	Manjappara	2.46	0.8	1.12	2.47	WELL
202				4.07	~	2.02	DUG
292	IDUKKI	Marykulam	4.47	1.87	2.44	3.92	WELL
202		Mamala		2 5	2 62	1 2 1	DUG
293	IDUKKI	Memala	5.5	2.5	3.63	4.24	WELL DUG
294	ΙΟυκκι	Moolamattam	5.55	4.3	4.94	6.01	WELL
294	IDUKKI		5.55	4.5	4.94	0.01	DUG
295	ΙΟυκκι	Mundiyeruma			4.52		WELL
233					1.32		DUG
296	IDUKKI	Munnar	1.52	0.22	0.31	1.4	WELL
				-		11.9	DUG
297	IDUKKI	Murikkassery	11.2	9.2	9.42	4	WELL
							DUG
298	IDUKKI	Murukkady	7.2	5.4	1.08	5.17	WELL
							DUG
299	IDUKKI	Nedumkandam	4.6	4.19	3.12	4.3	WELL
							DUG
300	IDUKKI	Nirmala City	2.48	2.14	0.94	2.79	WELL
201				0.76	4.40		DUG
301	IDUKKI	Njarukutty		0.76	1.48	3.5	WELL
302	ΙΟυκκι	Pambadumpara	4.79	1.36	2.17	2.26	DUG WELL
302	IDUKKI	Fambauumpara	4.79	1.50	2.17	2.20	DUG
303	IDUKKI	Pampanar					WELL
							DUG
304	IDUKKI	Pampanar	1.6	0.82	1.02	1.89	WELL
							DUG
305	IDUKKI	Pannimattom	3.76	2.69	2.89	4.2	WELL
							DUG
306	IDUKKI	Peerumedu	3.24	2.3	2.87	3.42	WELL
							DUG
307	IDUKKI	Perumuttom	2.87	3.49	4.06	3.15	WELL
			_				DUG
308	IDUKKI	Peruvanthanam	1.69	1.13	1.24	2.58	WELL
200		Deerere	2.0	0.00	o 77	1 4 4	DUG
309	IDUKKI	Poopara	2.6	0.92	0.77	1.41	WELL
310	IDUKKI	Paiakkad	9.74	8.2	8.83	9.6	DUG WELL
210		Rajakkad	9.74	ō.2	0.03	9.0	
211	וסווגאי	Bajakumary	13 65	Q 15	10 51	10.6	
311	IDUKKI	Rajakumary	13.65	9.15	10.51	10.6	DUG WELI

SL.			APRIL	AUGUS	NOVEMB	JAN-	WELL
No	DISTRICT	LOCATION	17	T 17	ER -17	18	ТҮРЕ
							DUG
312	IDUKKI	Thankamani	2.2	0.8	1.08	2.2	WELL
							DUG
313	IDUKKI	Thodupuzha	11.17	6	7.38	11	WELL
							DUG
314	IDUKKI	Thumbachi	4.84	2.77	2.95	4.51	WELL
							DUG
315	IDUKKI	Udumbanchola	9.25	4.22	5.01	6.57	WELL
210			4 20	2 20	4.00		DUG
316	IDUKKI	Udumbannur	4.29	3.29	4.02	6.6	WELL DUG
317	ΙΟυκκι	Valara (R2)	10.06	6.4	7.17	9.41	WELL
517	IDORKI		10.00	0.4	/.1/	9.41	DUG
318	IDUKKI	Vallakadavu	4.77	2.45	2.58	4.46	WELL
510			,	2.15	2.30	1.10	DUG
319	IDUKKI	Vandanmedu (R1)		2.02	2.73	3.09	WELL
							DUG
320	IDUKKI	Vandiperiyar	8.1	5.76	6.37	7.22	WELL
							DUG
321	IDUKKI	Vazhithala	6.28	0.48	1.44	4.38	WELL
							DUG
322	IDUKKI	Vellilamkandam	6.25	3.87	3.37	5.77	WELL
							BORE
323	IDUKKI	Alakode	4.96	7.07	3.87	9.61	WELL
							BORE
324	IDUKKI	Anakkara	60	5.75	49.4	7.3	WELL
325	ΙΟυκκι	Karimkunnam2	3.65		1.57	2.82	BORE WELL
323	IDUKKI	Karimkumamz	5.05		1.57	2.02	BORE
326	IDUKKI	Karumannur	4.26	2.26	3.5	4.25	WELL
520			1.20	2.20	5.5	1.25	BORE
327	IDUKKI	Kattappana	11.3	1.3	7.92	9.08	WELL
							BORE
328	IDUKKI	Mundieruma	4	8.18	4.28		WELL
							BORE
329	IDUKKI	Santhanpara			2.51		WELL
							BORE
330	IDUKKI	Thankamoni	4.1	1.16	1.83	2.3	WELL
			40.5		a -	10.8	DUG
331	KANNUR	Alacode (R1)	12.8	7.7	9.5	2	WELL
222		Alovil	0.05	2 05	1.00	6 17	DUG
332	KANNUR	Alavil	8.95	3.95	4.96	6.43 13.9	WELL DUG
333	KANNUR	Ambilad	14.62	10.8	12.48	13.9	WELL
555			17.02	10.0	12.40		DUG
334	KANNUR	Andoor	6.83	4.2	4.96	6.42	WELL
							DUG
335	KANNUR	Anjarakandi	8.1	5.4	6.8	7.6	WELL

SL.			APRIL	AUGUS	NOVEMB	JAN-	WELL
No	DISTRICT	LOCATION	17	T 17	ER -17	18	ТҮРЕ
							DUG
336	KANNUR	Chakkarakkale	11.99	7.2	8.13	9.8	WELL
							DUG
337	KANNUR	Chala	10.19	7.15	8.02	9.53	WELL
							DUG
338	KANNUR	Chalad	6.7	2.85	4.11	6.08	WELL
							DUG
339	KANNUR	Chavassery	4.23	2.84	4.16	3.94	WELL
240				0.0	10.0	12.3	DUG
340	KANNUR	Cheleri	14.5	9.6	10.6	2	WELL
341	KANNUR	Chepparapadavu	4.23	2.1	2.53	3.35	DUG WELL
541	KANNUK	Сперрагарадачи	4.25	2.1	2.55	5.55	DUG
342	KANNUR	Cherupuzha	5.15	3.53	4.75	5.24	WELL
512			5.15	5.55	1.75	5.21	DUG
343	KANNUR	Cheruthazam	13.11	6.8	8.2	9.37	WELL
							DUG
344	KANNUR	Chundaparambu	7.19	6.5	6.52	6.8	WELL
							DUG
345	KANNUR	Chural	8	3.3	6.01	6.9	WELL
							DUG
346	KANNUR	Dharmadam	3.71	1.6	1.77	2.55	WELL
2.47			6.00	47	2.40	4.50	DUG
347	KANNUR	Echilamvayal	6.39	1.7	2.48	4.56	WELL
348	KANNUR	Edakkad	2.49	0.61	1.2	2.24	DUG WELL
540	KANNOK		2.49	0.01	1.2	2.24	DUG
349	KANNUR	Edayannur	5.11	3.35	5.08	5.49	WELL
0.0			0.11	0.00	0.00	01.10	DUG
350	KANNUR	Edoor	4.7	1.75	3.78	4.38	WELL
							DUG
351	KANNUR	Elambara	4	2.96	3.72	4.39	WELL
						10.6	DUG
352	KANNUR	Ettikkulam	10.4	7.2	8.58	8	WELL
							DUG
353	KANNUR	Ezhilode	14.93	8.7	10.65	13.6	WELL
254		Letteles on	7 5 2	5.66	A T A	F 70	DUG
354	KANNUR	Irikkur	7.53	5.66	4.54	5.79	WELL
355	KANNUR	Kadannapally	13.47	8.25	10.58	11.2 7	DUG WELL
555			13.47	0.25	10.30	,	DUG
356	KANNUR	Kakkathodu	4.27		4.68	3.74	WELL
	_						DUG
357	KANNUR	Kalliassery	9.42	6	6.3	7.78	WELL
							DUG
358	KANNUR	Kallumutty	6.24	5.52	7.02	6.79	WELL
						12.0	DUG
359	KANNUR	Kanhirangad	14.53	10.84	9.13	4	WELL

SL.			APRIL	AUGUS	NOVEMB	JAN-	WELL
No	DISTRICT	LOCATION	17	T 17	ER -17	18	ТҮРЕ
							DUG
360	KANNUR	Kannapuram	3.08	1.35	1.75	2.39	WELL
					-		DUG
361	KANNUR	Kannavam	7.83	3.2	5.05	5.37	WELL
							DUG
362	KANNUR	Kannur	8.99	7.95	8.43	9.03	WELL
							DUG
363	KANNUR	Kannur-Thana	11.89	9.2	11.1	9.78	WELL
							DUG
364	KANNUR	Karikottakari	6.95	1.61	7.19	8.05	WELL
						10.2	DUG
365	KANNUR	Kelakam	10.37	5.43	9.85	8	WELL
200			7.0	2.0	F 40	C 40	DUG
366	KANNUR	Kizhpalli	7.3	2.9	5.48	6.48	WELL
367	KANNUR	Kolachery	10.8	7	7.28	8.68	DUG WELL
307	KANNOK	Kolacilery	10.8	/	7.20	0.00	DUG
368	KANNUR	Kolakkad	10.36	7.5	8.99	9.48	WELL
500			10.50	7.5	0.55	5.40	DUG
369	KANNUR	Kolayad	8.4	3.64	2.4	7.64	WELL
			_				DUG
370	KANNUR	Kommeri	4.12	3	4.13	4.43	WELL
							DUG
371	KANNUR	Koothuparamba	12.72	5.32	9	12.7	WELL
							DUG
372	KANNUR	Koottumukham	6.3	5.45		5.81	WELL
							DUG
373	KANNUR	Kottayampoil	9.31	5.6	6.58	7.7	WELL
274			0.24	7.20	7.04	7.04	DUG
374	KANNUR	Kottiyur	8.34	7.28	7.04	7.91	WELL
375	KANNUR	Kotty	2.86	1.2	2.06	2.68	DUG WELL
575	KAININUK	Kotty	2.00	1.2	2.00	2.00	DUG
376	KANNUR	Kozhichal	6.31	1.93	5.18	6	WELL
570			0.51	1.55	5.10	0	DUG
377	KANNUR	Kunnaru	3.02	0.35	1.55	2.06	WELL
							DUG
378	KANNUR	Kunnoth	7.06	1.55	5.45	6.96	WELL
							DUG
379	KANNUR	Kuppam	2.94	0.95	1.75	1.96	WELL
							DUG
380	KANNUR	Kuyilur	5.11	4.6	3.61	4	WELL
							DUG
381	KANNUR	Mahe (R1)	1.94	1.25	1.33	1.55	WELL
							DUG
382	KANNUR	Manantheri	9.14	2.68	6.91	7.5	WELL
202		Manattana		4.24	2.02	2 4 5	DUG
383	KANNUR	Manattana	4.11	1.24	2.83	3.15	WELL

SL.			APRIL	AUGUS	NOVEMB	JAN-	WELL
No	DISTRICT	LOCATION	17	T 17	ER -17	18	ТҮРЕ
							DUG
384	KANNUR	Mathamangalam (R1)	8.7	0.05	3.7	6.06	WELL
							DUG
385	KANNUR	Mathil	12.15	6.3	6.56		WELL
							DUG
386	KANNUR	Mattanur	8.14	4.7	6.34	7.9	WELL
						10.3	DUG
387	KANNUR	Mayyil	11.72	8.05	9.97	3	WELL
							DUG
388	KANNUR	Mekunnu	7.46	6	5.89	6.13	WELL
200			6.22	7.0	0.07	0.50	DUG
389	KANNUR	Mele Chovva	6.32	7.2	8.07	9.58	WELL
390		Malanukkam	10.02	F 01	7.69	8.16	DUG WELL
390	KANNUR	Melepukkom	10.02	5.91	7.09	8.10	DUG
391	KANNUR	Melur	4.68	1.95	2.66	3.72	WELL
351	KANNON		4.00	1.55	2.00	5.72	DUG
392	KANNUR	Meruvambayi	7.43	3.73	4.88	5.5	WELL
002			////	0.70		10.1	DUG
393	KANNUR	Mokeri	12.25	4.57	8.87	5	WELL
							DUG
394	KANNUR	Munderi	6.71	5.8	6.59	7.16	WELL
							DUG
395	KANNUR	Muzhakunnu	4.71	3.13	4.37	4.47	WELL
						11.4	DUG
396	KANNUR	Nayattupara	14.31	8.04	7.46	2	WELL
							DUG
397	KANNUR	Nellunni	5.02	3.12	3.71	3.98	WELL
200			17.0	10 71	40.4	45.0	DUG
398	KANNUR	Neruvambram	17.8	10.71	12.4	15.2	WELL
399	KANNUR	Nuchiyad	9.32	6.2	7.54	5.05	DUG WELL
399	KANNOK		9.52	0.2	7.54	5.05	DUG
400	KANNUR	Oduvalli	17.44	15.4	16.18	16.9	WELL
400			17.44	10.4	10.10	10.5	DUG
401	KANNUR	Palleri	9.4	5.9	5.66	7.7	WELL
							DUG
402	KANNUR	Pallikkuni	3.98	1.58	2.9	3.4	WELL
			1				DUG
403	KANNUR	Palloor (Mahe)	9.62	5.98	8.57	9.26	WELL
							DUG
404	KANNUR	Pannoor	5.63		3.55	4.4	WELL
						13.9	DUG
405	KANNUR	Panunda	13.8	10.54	11.8	6	WELL
							DUG
406	KANNUR	Pappinissery West	2.7	0.62	0.95	1.82	WELL
407					40.04		DUG
407	KANNUR	Parassinikadavu DW	14.83	13.4	13.64	14	WELL

SL.			APRIL	AUGUS	NOVEMB	JAN-	WELL
No	DISTRICT	LOCATION	17	T 17	ER -17	18	ТҮРЕ
						13.0	DUG
408	KANNUR	Pariyaram	14.56	9.11	12.05	2	WELL
							DUG
409	KANNUR	Pathiriyad	8.93	6.45	6.33	7.78	WELL
							DUG
410	KANNUR	Pattiyam	4.05	0.98	1.85	2.3	WELL
							DUG
411	KANNUR	Pattuvam	15.41	13.5	14.8	1.82	WELL
							DUG
412	KANNUR	Payyannur	6.62	4	4.5	5.56	WELL
410		Desheveneedi	2.50	1	1.05	2.15	DUG
413	KANNUR	Pazhayangadi	2.56	1	1.05	2.15	WELL
414	KANNUR	Peravoor	5.48	3.6	5	5.13	DUG WELL
414	KANNOK	Felavool	5.40	5.0	J	5.15	DUG
415	KANNUR	Peringome (R1)	8.11	4.8	7.87	7.91	WELL
115			0.11	1.0	7.07	13.4	DUG
416	KANNUR	Pinarayi	13.04	10.88	11.8	2	WELL
						12.6	DUG
417	KANNUR	Pukkundu	12.93	4.1	6.96	8	WELL
							DUG
418	KANNUR	Pulingome	7.01	3.55	6	6.35	WELL
							DUG
419	KANNUR	Puthiyatheru	9.12	4.3	6.45	7.77	WELL
							DUG
420	KANNUR	Ramantalai	9.55	4.35	7.67	9.2	WELL
421		Creation damage	0.10	гээ	F 24	7.00	DUG
421	KANNUR	Sreekandapuram	8.18	5.23	5.34	7.68	WELL DUG
422	KANNUR	Taliparamba	14.25	8	3.7	9.67	WELL
722			14.25	0	5.7	5.07	DUG
423	KANNUR	Thalassery	6.51	2.67	3.2	4.82	WELL
		,					DUG
424	KANNUR	Thazhe Chovva	2.16	0.48	0.73	1.35	WELL
							DUG
425	KANNUR	Ulikkal (R1)	5.84	2.67	4.88	5.71	WELL
							DUG
426	KANNUR	Vaaram		3.5		5.52	WELL
							DUG
427	KANNUR	Valakkai	5.33	4.35	4.19	4.86	WELL
120		Valanattanam	10.49	7 4	0	0.2	DUG
428	KANNUR	Valapattanam	10.48	7.1	8.55	9.3	WELL DUG
429	KANNUR	Varam	6.5				WELL
423			0.5				DUG
430	KANNUR	Vattiyamthodu	8.3	4.02	5.26	6.64	WELL
130			0.0		5.20	0.04	DUG
431	KANNUR	Vayyakara	20.45	17.55	19.25	19.7	WELL

SL.			APRIL	AUGUS	NOVEMB	JAN-	WELL
No	DISTRICT	LOCATION	17	T 17	ER -17	18	ТҮРЕ
						12.3	DUG
432	KANNUR	Vengad	15.65	11.3	11.35	6	WELL
							TUBE
433	KANNUR	Cannanore1		8.3	9.18	11.8	WELL
						13.0	BORE
434	KANNUR	Anthoor	13	6.35	7.32	8	WELL
							BORE
435	KANNUR	Kakkeyamkadu	4.45	1.83	2.35	3.57	WELL
							BORE
436	KANNUR	Kankole1	11.35	4.95	6.54	8.75	WELL
							BORE
437	KANNUR	Karumathur	9.75	4.35	3.62	8.5	WELL
					10.0	11.2	BORE
438	KANNUR	Kelakkam			10.8	5	WELL
420		Ki-h allum	C 1	2.4	2.40	F 27	BORE
439	KANNUR	Kizhallur	6.1	2.4	3.19	5.27	WELL
440	KANNUR	Kolacheri	9.3	6.1	5.77	7.9	BORE WELL
440	KAININUK	KUIdCHEH	9.5	0.1	5.77	7.9	BORE
441	KANNUR	Kommery	3.66	2.02	3.47	3.71	WELL
	KANNON	Kommery	5.00	2.02	5.47	11.1	BORE
442	KANNUR	Kottayampoyil	13.45	9.75	9.06	7	WELL
				00			BORE
443	KANNUR	Manathana	7.15	2.68	4.08	6.65	WELL
							BORE
444	KANNUR	Munderi	5.66	2.8	3.3	4.6	WELL
							BORE
445	KANNUR	Oduvallithattu	13		12.63		WELL
							BORE
446	KANNUR	Panoor	5.55		3.65	4.32	WELL
						21.1	BORE
447	KANNUR	Parassinikadavu	22.4	20.38	19.99	8	WELL
							BORE
448	KANNUR	Pulingome1	39.3	5.7	6.34		WELL
440		Adhury (D1)	10 74	2	7 4 5	0.15	DUG
449	KASARAGOD	Adhuru (R1)	10.71	3	7.15	9.15	WELL DUG
450	KASARAGOD	Adkasthala	12.29	7.1	9.88	11.2 2	WELL
450		Aukastildia	12.29	/.1	3.00	12.2	DUG
451	KASARAGOD	Adoor	13.18	6.3	9	12.2	WELL
			13.10	0.5	J	11.6	DUG
452	KASARAGOD	Ajannur DW	14.07	6.96	9	6	WELL
					5		DUG
453	KASARAGOD	Ambalathara	6.78	0.2	3.52	4.96	WELL
							DUG
454	KASARAGOD	Anangoor	15.55	6.55	9.2	9.36	WELL
						11.8	DUG
455	KASARAGOD	Angadimogar	11.09	5.85	8.6	5	WELL

SL. No			APRIL	AUGUS	NOVEMB	JAN-	WELL
	DISTRICT	LOCATION	17	T 17	ER -17	18	ТҮРЕ
						15.1	DUG
456	KASARAGOD	Arladuka	18.96	12.7	13.32	3	WELL
						13.4	DUG
457	KASARAGOD	Badiadka-R1	16.38	10.47	11.79	2	WELL
						10.0	DUG
458	KASARAGOD	Bandadka	10.2	9.95	10.15	7	WELL
							DUG
459	KASARAGOD	Bangathadka	10.15	14.2	14.9	16.2	WELL
460				6.5		0.40	DUG
460	KASARAGOD	Banputhadka	8.4	6.5	7.3	8.12	WELL
161		Davar	12.26	5.5	8.3	10.8	DUG WELL
461	KASARAGOD	Bayar	13.36	5.5	8.3	4 12.6	DUG
462	KASARAGOD	Bedadka-R1	13.4	10.35	12.65	12.0	WELL
402	KAJANAGOD		13.4	10.55	12.05	5	DUG
463	KASARAGOD	Bedradka	15.05	6.25	9.98	12.8	WELL
			10.00	0.20	5.50	12.0	DUG
464	KASARAGOD	Bedrampalla (R1)	11.1	0.2	3.85	7.8	WELL
							DUG
465	KASARAGOD	Bekal	10	5.8	7.82	8.96	WELL
							DUG
466	KASARAGOD	Bela (R1)	11.97	9.15	10.42	10.8	WELL
							DUG
467	KASARAGOD	Bethoorpara	12.36	7.7	9.79	2.38	WELL
							DUG
468	KASARAGOD	Bhimanadi (R1)	9.51	4.93	4.74	2.38	WELL
460		Dhim an adi U		1 22	1.0	F 4	DUG
469	KASARAGOD	Bhimanadi-II	5.65	1.22	1.9	5.1	WELL DUG
470	KASARAGOD	Chalingal	11.25	1.7	7.25	9.24	WELL
470	KASANAGOD		11.25	1.7	7.23	10.8	DUG
471	KASARAGOD	Chamundikunnu DW	12.55	8.3	9.67	8	WELL
				0.0	0.07	13.1	DUG
472	KASARAGOD	Chattanchal DW	14.7	6.6	12.8	5	WELL
							DUG
473	KASARAGOD	Cheemeni	9.07	2.25	6.95	7.46	WELL
							DUG
474	KASARAGOD	Cherkala	10.94	3.3	8.7	9.92	WELL
							DUG
475	KASARAGOD	Chittarikal	6.33	3.85	5.03	5.63	WELL
470			6	0.00			DUG
476	KASARAGOD	Choyankod (R1)	6.78	0.23	5.95	5.8	WELL
777		Dharmathadka	11 1	Γ 4		0.50	DUG
477	KASARAGOD	Dharmathadka	11.1	5.1		9.52	WELL DUG
478	KASARAGOD	Elambachi	5.33	1.95	2.63	4.03	WELL
7/0			5.55	1.55	2.03	4.05	DUG
479	KASARAGOD	Iriyani	11	6.51	8.33	7	WELL

SL.			APRIL	AUGUS	NOVEMB	JAN-	WELL
No	DISTRICT	LOCATION	17	T 17	ER -17	18	ТҮРЕ
							DUG
480	KASARAGOD	Jodukallu	11.42	5.7	6.8	8.84	WELL
						12.1	DUG
481	KASARAGOD	Kadambar	13.27	8.1	11.86	2	WELL
						12.8	DUG
482	KASARAGOD	Kadappallam	15	9.15	9.18	5	WELL
							DUG
483	KASARAGOD	Kakkadavu (R1)	12.4	10.55	11.95	11.9	WELL
40.4	KACABACOD		11.0	7.0	0.00	12.2	DUG
484	KASARAGOD	Kalathur	14.8	7.6	8.93	3	WELL
485	KASABACOD	Kalichanadukkam	5.33	1.38	5.17	5.26	DUG WELL
485	KASARAGOD	KallChandüükkam	5.55	1.38	5.17	5.20	DUG
486	KASARAGOD	Kalikadavu		2.3	3.81	5.34	WELL
-00	10.03/11/1000			2.5	5.01	5.54	DUG
487	KASARAGOD	Kanhangad Coast (R1)	2.95	1.95	2.37	2.54	WELL
							DUG
488	KASARAGOD	Kanhangad Town	10.95	4.95	7.59	9.45	WELL
-							DUG
489	KASARAGOD	Kaniyala	7.35	1.3	3.94	5.21	WELL
							DUG
490	KASARAGOD	Kannadipara	13.52	7.58	9.95	11.2	WELL
						10.9	DUG
491	KASARAGOD	Karinthalam	12.85	6.65	8.97	4	WELL
400	KACABACOB	Karana	10.4		0.5	0.4	DUG
492	KASARAGOD	Kasaragod	10.4		8.5	9.4	WELL
493	KASARAGOD	Kayyur	11.6	1.6	6.46	7.34	DUG WELL
493	RASARAGOD	καγγαί	11.0	1.0	0.40	7.54	DUG
494	KASARAGOD	Kinningar	8.02	1.75	4.85	6.51	WELL
			0.01			0.01	DUG
495	KASARAGOD	Kolichal	5.28	2.65	4.46	4.81	WELL
						10.0	DUG
496	KASARAGOD	Koliyarpadavu (R1)	13.18	8.05	9.33	8	WELL
							DUG
497	KASARAGOD	Koolom Road	10.99	3.3	8.47	9.02	WELL
							DUG
498	KASARAGOD	Kottiyadi	10.05	5	7.56	8.38	WELL
400	KACABACOB		0.00	4 00	F 60	7 5 4	DUG
499	KASARAGOD	Kovval	9.03	4.88	5.68	7.54	WELL
500	KASARAGOD	Kudlu	14.1	3.4	7.25	9.6	DUG WELL
500			14.1	J.4	1.23	9.0	DUG
501	KASARAGOD	Kumbadaje	12.2	5.95	8.02	9.08	WELL
				2.00	5.02	11.8	DUG
502	KASARAGOD	Kumbla (R1)	14.56	3.9	9.23	5	WELL
							DUG
503	KASARAGOD	Kundamkuzhy	7.46	0.35	9.1	6.83	WELL

SL.			APRIL	AUGUS	NOVEMB	JAN-	WELL
No	DISTRICT	LOCATION	17	T 17	ER -17	18	ТҮРЕ
				/		14.8	DUG
504	KASARAGOD	Kuttikol	15.33	14.75	14.75	5	WELL
						13.8	DUG
505	KASARAGOD	Madhur	15.4	0.95	10.25	1	WELL
							DUG
506	KASARAGOD	Mandecap	10.5	6.35	10.35	10.6	WELL
						12.2	DUG
507	KASARAGOD	Mangad	12.2	4.35	10.08	2	WELL
						10.5	DUG
508	KASARAGOD	Mangalpady (R1)	13.52	6.7	9.02	5	WELL
500	KACABACOB		7 72	2.05	0.0	10.1	DUG
509	KASARAGOD	Manjeswar	7.73	2.85	8.6	8	WELL
510	KASABACOD	Mavinakatta	25.75	20.9	22.2	23.1 6	DUG WELL
510	KASARAGOD		25.75	20.9	22.2	0	DUG
511	KASARAGOD	Mavungal	10.75	1.1	5.08	5.93	WELL
511	KAJAKAGOD		10.75	1.1	5.00	5.55	DUG
512	KASARAGOD	Melparamba	13.4	8.85	11.43	13.6	WELL
_			-			11.3	DUG
513	KASARAGOD	Miyapadavu	14.16	10.77	11.22	6	WELL
						10.9	DUG
514	KASARAGOD	Mogral (R1)	11.52	1.05	8.1	2	WELL
							DUG
515	KASARAGOD	Mogral Puthur	12.77	4.45	8.48	12.5	WELL
						13.9	DUG
516	KASARAGOD	Movvar	14.58	13.8	13.88	2	WELL
F17		Mulicadda	10.67	2 7	0.60	0.25	DUG
517	KASARAGOD	Muligadde	10.67	3.7	8.62	9.25	WELL DUG
518	KASARAGOD	Muliyar	7.34	2.35	5.8	6.26	WELL
510	10.07.10.000		7.54	2.55	5.0	0.20	DUG
519	KASARAGOD	Mulleria	19.31	16.45	17.1	18.8	WELL
						10.2	DUG
520	KASARAGOD	Munnad	10.35	8.6	13.75	4	WELL
							DUG
521	KASARAGOD	Naimarmoola	8.8	5.6	8.6	9	WELL
							DUG
522	KASARAGOD	Nattakkal	12.91	11.85	12.3	13.2	WELL
F 2 2	KACABAGGE	N - 111 - 11				0.45	DUG
523	KASARAGOD	Nellikatta	9.81	0.2	7.16	8.46	WELL
524	KASARAGOD	Nileshwar	6.03	2.37	3.33	4.81	DUG WELL
524	NAJANAGUD	INITESTIWAI	0.03	2.37	5.55	4.01	DUG
525	KASARAGOD	Odayanchal	3.78	1.45	2.65	3.01	WELL
525			0.70	1.15	2.05	0.01	DUG
526	KASARAGOD	Pachambla	11.49	5.6	7.22	8.94	WELL
-	_		_				DUG
527	KASARAGOD	Padiyathadka	9.9	3.4	6.76	8.25	WELL

SL.			APRIL	AUGUS	NOVEMB	JAN-	WELL
No	DISTRICT	LOCATION	17	T 17	ER -17	18	TYPE
			1/	1 1/		10	DUG
528	KASARAGOD	Paivalike	10.85	6.6	6.8	9.28	WELL
520	10.03/110.000		10.05	0.0	0.0	5.20	DUG
529	KASARAGOD	Pallam	10.18	6.3	6.7	8.6	WELL
						11.0	DUG
530	KASARAGOD	Panathur	10.87	6.55	10.87	5	WELL
							DUG
531	KASARAGOD	Parappa north	9.28	5.2	8.46	8.69	WELL
							DUG
532	KASARAGOD	Peraladkam	6.77	1.65	6.41	6.37	WELL
							DUG
533	KASARAGOD	Periyattadukkam	11.94	2.5	8.6	9.68	WELL
							DUG
534	KASARAGOD	Periye	11.96	2.92	8.22	9.85	WELL
							DUG
535	KASARAGOD	Perla	8.48	3.5	6.92	7.42	WELL
526	KACABACOB	Data akt D1	11.05	42.45	40.70		DUG
536	KASARAGOD	Poinachi-R1	14.05	13.15	13.73	14	WELL
537	KASABACOD	Pookatta	17.15	10.25	12.5	15	DUG WELL
557	KASARAGOD	POORatta	17.15	10.35	12.5	12.6	DUG
538	KASARAGOD	Povval	12.92	11.2	12.4	12.0	WELL
550	KASAKAGOD		12.52	11.2	12.7	5	DUG
539	KASARAGOD	Pullur	9.16	3.8	8.1	7.92	WELL
				0.0		10.7	DUG
540	KASARAGOD	Putheriyadukkam	10.8	8.26	10.65	8	WELL
		,				11.4	DUG
541	KASARAGOD	Puthige	15.01	5.6	8.03	5	WELL
							DUG
542	KASARAGOD	Rajapuram	6.49	2.8	5.92	7.03	WELL
							DUG
543	KASARAGOD	Ramdas Nagar (Kudlu)	15.85	5	10.6	12.7	WELL
		Sasthangode (Sastha				21.7	DUG
544	KASARAGOD	Nagar)	22.33	19.2	20.45	2	WELL
F 4 F			0.04	4 75	6 75	7.40	DUG
545	KASARAGOD	Sorga	9.31	1.75	6.75	7.49	WELL
546	KASABACOD	Thachangad	10.10	2 05	0	10.2	DUG WELL
540	KASARAGOD	Thachangad	12.15	3.85	8	8	DUG
547	KASARAGOD	Thaniyadi	7.55	1.7	5.48	4.98	WELL
5-17				1./	J. 4 0	10.4	DUG
548	KASARAGOD	Thoyammel	12.14	7.8	9.25	2	WELL
					5.25		DUG
549	KASARAGOD	Trikaripur	4.53	0.8	1.66	2.96	WELL
							DUG
550	KASARAGOD	Udinur Central	5.6	1.8	2.22		WELL
							DUG
551	KASARAGOD	Ukkinadka	9.4	4.45	5.24	6	WELL

SL.			APRIL	AUGUS	NOVEMB	JAN-	WELL
No	DISTRICT	LOCATION	17	T 17	ER -17	18	ТҮРЕ
						11.1	DUG
552	KASARAGOD	Uppla	14.3	6.35	8.93	5	WELL
	KACADACOD	Maulaadu	4447	0.2	11.0	12.0	DUG
553	KASARAGOD	Vorkady	14.17	9.2	11.6	12.8	WELL DUG
554	KASARAGOD	Yethadka	5.62	1.9	5.4	5.4	WELL
554	KASANAGOD		5.02	1.5	5.4	5.4	TUBE
555	KASARAGOD	Ajannur(s2)	2.5	0.25	1.12	1.99	WELL
							TUBE
556	KASARAGOD	Ajannur(s3)		0.55	1.25	3.14	WELL
							TUBE
557	KASARAGOD	Ajannur(s4)	2.5	0.3	1.04	2.1	WELL
	KACADACOD	Delle	12.05	C 7C	10.00	12.5	BORE
558	KASARAGOD	Bella	13.95	6.76	10.82	8	WELL BORE
559	KASARAGOD	Bovikkanam	15.2	7.2	14.57	10.1	WELL
555	1013/11/1000		15.2	7.2	14.57	10.1	BORE
560	KASARAGOD	Chalingal Pz	13.05	2.32	7.81	5	WELL
						10.5	BORE
561	KASARAGOD	Chamundikunnu	11.35	7.05	9.09	5	WELL
						14.3	BORE
562	KASARAGOD	Chattanchal	15.55		13.33	1	WELL
5.62	KACABACOB	Charles	45.25	2.2	0.00	11.1	BORE
563	KASARAGOD	Cherkala	15.25	2.3	8.92	5 22.9	WELL BORE
564	KASARAGOD	Karindalam	24.3	6.5	19.99	22.9	WELL
504	101071101000		24.5	0.5	10.00	13.3	BORE
565	KASARAGOD	Kumbala	18.2	1.65	9.2	8	WELL
							BORE
566	KASARAGOD	Kundamkuzhi	11.55				WELL
						12.1	BORE
567	KASARAGOD	Kuniya	10	2.7	5.21	6	WELL
			44.45	4.95	4.00		BORE
568	KASARAGOD	Madhur	11.45	1.35	4.82	8.64 12.1	WELL BORE
569	KASARAGOD	Mangad	18.75	2.08	7.07	2	WELL
505			10.75	2.00	7.07	10.2	BORE
570	KASARAGOD	Manjeshwar	14	7.15	8.04	2	WELL
							BORE
571	KASARAGOD	Mylatti	6.95	1.4	5.97	6.71	WELL
							BORE
572	KASARAGOD	Pachakkad CPCRI	12.1	5.8	4.13	10.4	WELL
F 7 2	KACADACOD	Dellilderer	0.05		C 22		BORE
573	KASARAGOD	Pallikkara	9.95	6	6.22	7.57	WELL
574	KASARAGOD	Periye Pz	18.3	6.28		9.8	BORE WELL
5/4			10.3	0.20		9.0	BORE
575	KASARAGOD	Seethamgulli	9.9	2.4	6.37	7.95	WELL

SL.			APRIL	AUGUS	NOVEMB	JAN-	WELL
No	DISTRICT	LOCATION	17	T 17	ER -17	18	ТҮРЕ
							BORE
576	KASARAGOD	Vidyanagar	10.95	2.8	8.07	9.16	WELL
							DUG
577	KOLLAM	Achenkovil	7.01				WELL
							DUG
578	KOLLAM	Achenkovil (R1)	6.86		3.75		WELL
							DUG
579	KOLLAM	Ailara	2.47	2.13	1.45		WELL
							DUG
580	KOLLAM	Akkal	10.83	9.3	7.46	8.98	WELL
							DUG
581	KOLLAM	Alayamon	8.81	7.28	5.18	6	WELL
500			12.24	7.00	0.70	11.9	DUG
582	KOLLAM	Anayadi	12.21	7.98	8.76	8	WELL
583	KOLLAM	Anchal DW	12.55	9.65	7.15	9.75	DUG WELL
202	KULLAIVI		12.55	9.05	7.15	9.75	DUG
584	KOLLAM	Anchalammud (R1)	9.42	7.46	7.27	8.05	WELL
504	KOLL/ WI		5.42	7.40	7.27	0.05	DUG
585	KOLLAM	Ariyankavu	11.65	6.2	4.47	3.05	WELL
				•			DUG
586	KOLLAM	Avaneswaram	3.64	3.92	1.58	5.08	WELL
							DUG
587	KOLLAM	Ayathil	7.51	5.51	4.13	7.52	WELL
							DUG
588	KOLLAM	Ayur	9.88	6.68	8.2	7.78	WELL
							DUG
589	KOLLAM	Bharathipuram	11.01	8.96	8.2	8.8	WELL
							DUG
590	KOLLAM	Bhoothakulam	10.59				WELL
591	KOLLANA	Chadayaraaraalara (D1)	10.25	0.40	0.01	7 47	DUG
591	KOLLAM	Chadayamangalam (R1)	10.35	9.49	8.01	7.47	WELL DUG
592	KOLLAM	Chakkuvalli	9.56	7.06	5.25	6.57	WELL
392	KOLLAIM		9.50	7.00	J.2J	10.2	DUG
593	KOLLAM	Channapetta	12.92	10.23	8.87	5	WELL
					5.07		DUG
594	KOLLAM	Chathannur	11.11	8.78	8.03	9	WELL
							DUG
595	KOLLAM	Chavara (R1)	1.06	0.55	1.3	0.88	WELL
							DUG
596	KOLLAM	Chenkulam	5.92	4.75	4.1	4.21	WELL
							DUG
597	KOLLAM	Chithara	8.3	6.99	5.81	7.08	WELL
					_		DUG
598	KOLLAM	Choorakulam Jn	7.69	5.28	5.5	6.23	WELL
F00		Cineman (D4)	12.05	0.46	7 25	0.22	DUG
599	KOLLAM	Cinemaparambu (R1)	13.05	9.46	7.35	9.22	WELL

SL.			APRIL	AUGUS	NOVEMB	JAN-	WELL
No	DISTRICT	LOCATION	17	T 17	ER -17	18	ТҮРЕ
							DUG
600	KOLLAM	East Kallada	2.55				WELL
							DUG
601	KOLLAM	Edamon	9.35	8.36	7.69	8.17	WELL
							DUG
602	KOLLAM	Edamulakkal	5.82	5.75	5.85	5.35	WELL
						10.6	DUG
603	KOLLAM	Edayam	13.9	9.22	10.48	2	WELL
				7.60	6.40	7.50	DUG
604	KOLLAM	Ezhamkulam	9.1	7.69	6.42	7.58	WELL
COL	KOLLANA	E-bukene (D1)	4 70	1.96	1 07	2.26	DUG
605	KOLLAM	Ezhukone (R1)	4.78	1.86	1.97	3.36	WELL DUG
606	KOLLAM	Iravipuram (R1)	3.62	1.67	1.18		WELL
000	KOLLANI		5.02	1.07	1.10		DUG
607	KOLLAM	Ithikara	16.7	16.05	14.78	15.2	WELL
			1017	10.00	1	10.2	DUG
608	KOLLAM	Kadakkal	7.74	7.11	6.78	7.28	WELL
							DUG
609	KOLLAM	Kadapuzha	2.45	2.1	1.86	2.1	WELL
							DUG
610	KOLLAM	Kalluvathukkal	9.57	6.67	5.97	7.72	WELL
							DUG
611	KOLLAM	Kalluvettumkuzhi	8.49	8.26	4.56	8.56	WELL
							DUG
612	KOLLAM	Kamukanchery	9.71	8.42	8.01	8.14	WELL
64.0						6.00	DUG
613	KOLLAM	Kandanchira			5.9	6.38	WELL
614	KOLLANA	Kangathumukku	0		4 5 2	F 02	DUG
614	KOLLAM	Kangathumukku	8	5.05	4.52	5.03	WELL DUG
615	KOLLAM	Kanjiramkode	10.52	4.75	4.67	5.2	WELL
015	KOLLAWI	Kanjiranikoac	10.52	4.75	4.07	5.2	DUG
616	KOLLAM	Kanjiramvila	7.39	6.58	6.28	7.6	WELL
				0.00	0.20	10.3	DUG
617	KOLLAM	Karamkode	12.38	9.17	10.91	7	WELL
							DUG
618	KOLLAM	Karavaloor	6.45	5.35		5.42	WELL
							DUG
619	KOLLAM	Karukone		6.17	3.8	6.81	WELL
							DUG
620	KOLLAM	Karunagapally	4.18	1.24	1.16	2.24	WELL
			_				DUG
621	KOLLAM	Karunthalakode	2.62			1.33	WELL
			0.07				DUG
622	KOLLAM	Kollam(Quilon)	8.25	7.2	6.86	7.32	WELL
622	KOLLANA	Keevelad DM	4.01	2 5 7	2 20	2.0	DUG
623	KOLLAM	Koovakad DW	4.91	2.57	3.29	3.8	WELL

SL.			APRIL	AUGUS	NOVEMB	JAN-	WELL
No	DISTRICT	LOCATION	17	T 17	ER -17	18	ТҮРЕ
							DUG
624	KOLLAM	Kottakayam			4.68		WELL
							DUG
625	KOLLAM	Kottamkulangara		0.71	0.66	1.13	WELL
						12.7	DUG
626	KOLLAM	Kottarakara (R1)		16.7		8	WELL
							DUG
627	KOLLAM	Kottathala	8.68		4.87	5.92	WELL
							DUG
628	KOLLAM	Kottiyam	9.45	6.77	5.87	8.41	WELL
							DUG
629	KOLLAM	Kulakada	7.14	3.25	3.18	6.2	WELL
620		K la sa la sa	0.01	6.26	5.00	6.64	DUG
630	KOLLAM	Kulapadam	9.01	6.36	5.86	6.61	WELL
621		Kulathunuzha	6.09	5.62	10		DUG WELL
631	KOLLAM	Kulathupuzha	6.08	5.63	4.2	4.4 19.1	DUG
632	KOLLAM	Kumbalam (R1)	26.22	20.62	19.95	19.1	WELL
052	KOLLAW		20.22	20.02	19.95	5	DUG
633	KOLLAM	Kunnada	12.96	10.95	6.87	8.75	WELL
035	ROLLAW	Kuinada	12.50	10.55	0.07	15.5	DUG
634	KOLLAM	Kunnathur	20.9	19.1	16.48	8	WELL
							DUG
635	KOLLAM	Kuripalli	8.62	7.67	5.25	9.14	WELL
							DUG
636	KOLLAM	Kutavettur	7.52	5.72	5.09	6.21	WELL
							DUG
637	KOLLAM	Madathara	4.52	4.93	3.79	5.29	WELL
							DUG
638	KOLLAM	Manakarakavu-Vendar	8.54	6.36	5.73	7.05	WELL
							DUG
639	KOLLAM	Manapalli		4.32	4.24	5.14	WELL
6.40			6 75	4.00	2.25	2.04	DUG
640	KOLLAM	Mayyanad	6.75	4.86	3.35	3.81	WELL
641	KOLLAM	Meenad	E 10	A A	2 74	5	DUG WELL
641	KULLAIVI	Meenad	5.18	4.4	3.74	5	DUG
642	KOLLAM	Meenkulam	8.37	7.86	7.53	7.93	WELL
072	ROLLAW		0.57	7.00	7.55	7.55	DUG
643	KOLLAM	Mulavana	10.32	8.88		9.85	WELL
				0.00		2.00	DUG
644	KOLLAM	Muthukumel	6.5	4.93	3.4	5.71	WELL
							DUG
645	KOLLAM	Mynagapalli	10.55	6.68	6.72	8.09	WELL
							DUG
646	KOLLAM	Nallila	5.37	5.52	5.38	5.38	WELL
							DUG
647	KOLLAM	Nedungolam	12.77	8.03	5.56	9.23	WELL

SL.			APRIL	AUGUS	NOVEMB	JAN-	WELL
No	DISTRICT	LOCATION	17	T 17	ER -17	18	ТҮРЕ
							DUG
648	KOLLAM	Neendakara (R1)	0.9	0.58	0.41	0.81	WELL
							DUG
649	KOLLAM	Nellikunnam DW	1.93	0.68		0.86	WELL
							DUG
650	KOLLAM	Nilamel	5.62	4.23	3.52	3.8	WELL
							DUG
651	KOLLAM	Oachira1	1.2	0.32	0.46	0.72	WELL
652		Odanavattam	07		2 7 2	F 40	DUG
652	KOLLAM	Odanavattom	8.7	4.4	3.73	5.42	WELL DUG
653	KOLLAM	Ottakkal	6.51	6.1	6.02	6.71	WELL
055	KOLLAWI		0.51	0.1	0.02	0.71	DUG
654	KOLLAM	Oyur	10.85	7.6	5.79	6.19	WELL
			10.00	7.10	0.70	10.1	DUG
655	KOLLAM	Palamoodu	10.5	8.03	7.59	8	WELL
							DUG
656	KOLLAM	Pallickal	6.62	4.51	3.33	5.16	WELL
							DUG
657	KOLLAM	Pangalukadu	5.51	6.04	5.83	6.03	WELL
							DUG
658	KOLLAM	Panmana-Manayil		2.59	3.73	2.64	WELL
650				6 70	-		DUG
659	KOLLAM	Paravur		6.73	5	7.07	WELL
660	KOLLAM	Daripally (P1)		8.3	6.76	9.38	DUG WELL
000	KOLLAIVI	Paripally (R1)		0.5	0.70	9.50	DUG
661	KOLLAM	Pattanapuram	10.69	10.35	6.64	7.85	WELL
001			10.05	10.00	0.01	7.05	DUG
662	KOLLAM	Pavitreswaram	4.65	3.33		3.99	WELL
							DUG
663	KOLLAM	Perinad	7.53	5.69	5.44	6.49	WELL
							DUG
664	KOLLAM	Perumkulam		5.91	5.57	5.86	WELL
							DUG
665	KOLLAM	Pozhikara	5.78	4.51	3.3	4.95	WELL
666	KOLLANA			0.74			DUG
666	KOLLAM	Punalur-I		9.74			WELL
667	KOLLAM	Punalur-I (R1)	8.52	9.61			DUG WELL
007			0.52	9.01			DUG
668	KOLLAM	Punnala (R1)		5.22	5.5	7.55	WELL
				5.22	0.0		DUG
669	KOLLAM	Puthoor	5.82		4.35		WELL
							DUG
670	KOLLAM	Roduvila	8.75	6.43	6.27	7.05	WELL
							DUG
671	KOLLAM	Sasthamkottah (R1)	6.51	4.8	4.61	6.67	WELL

SL.			APRIL	AUGUS	NOVEMB	JAN-	WELL
No	DISTRICT	LOCATION	17	T 17	ER -17	18	ТҮРЕ
							DUG
672	KOLLAM	Sooranadu	5.78	4.42	4.25	5.03	WELL
							DUG
673	KOLLAM	Tadicaud (R1)	9.31	6.55	6.52	6.95	WELL
674			0.40		6.06	7 40	DUG
674	KOLLAM	Tevalakara	9.18		6.06	7.48	WELL
675	KOLLAM	Thattamala	2.97	3.09	1.17	1.89	DUG WELL
075	KULLAIVI		2.97	5.09	1.17	1.09	DUG
676	KOLLAM	Thenmala	7.7	7.39	6.22	6.39	WELL
0/0			,.,	7.55	0.22	0.55	DUG
677	KOLLAM	Ummannur	10.27	7.68	8.1	7.44	WELL
							DUG
678	KOLLAM	Vadakkumthala west	3.14	1.07	1.76	1.83	WELL
							DUG
679	KOLLAM	Vallikavu	1.54	0.39	0.35	0.84	WELL
							DUG
680	KOLLAM	Vavvakkavu		1.3	1.4	2.12	WELL
							DUG
681	KOLLAM	Vazhathoppu	8.39	6.28	4.68	6.24	WELL
							DUG
682	KOLLAM	Veliyam		7.18	6.92	7.57	WELL
602) (to block one	11.07	0.50	7 40	0.25	DUG
683	KOLLAM	Vilakkupara	11.07	9.53	7.42	8.25	WELL
684	KOLLAM	Yeroor	2.41	1.35	1.45	1.98	DUG WELL
004	KOLLAWI		2.41	1.55	1.45	1.90	TUBE
685	KOLLAM	Chavara-e	22.62				WELL
						14.8	TUBE
686	KOLLAM	Chavara-n1			14.5	2	WELL
							TUBE
687	KOLLAM	Chavara-west	1.6	1.35	0.22	1.36	WELL
						17.9	TUBE
688	KOLLAM	Manappalli		17.1	17.58	4	WELL
						13.4	TUBE
689	KOLLAM	Trikkadavur	14.68		11.8	6	WELL
				(a			TUBE
690	KOLLAM	Vayyankara	8.2	12.85	13.36	14.1	WELL
601		Anchal	10.45	го	F 0	7 1 0	BORE
691	KOLLAM	Anchal	10.45	5.8	5.8	7.16	WELL BORE
692	KOLLAM	Kalluvathukkal	5.88	3.48	5.85	3.44	WELL
0.52			5.00	5.40	5.05	J.44	BORE
693	KOLLAM	Koovakad	4.7			0.9	WELL
						0.0	BORE
694	KOLLAM	Nellikunnam Pz New				0.51	WELL
							BORE
695	KOLLAM	Pathanapuram	0.37	0.27			WELL

SL.			APRIL	AUGUS	NOVEMB	JAN-	WELL
No	DISTRICT	LOCATION	17	T 17	ER -17	18	ТҮРЕ
							BORE
696	KOLLAM	Ummmannur	12.9	8.7		9.52	WELL
							BORE
697	KOLLAM	Vazhathopu	7.5			4.45	WELL
		· · ·					BORE
698	KOLLAM	Yeroor1	6.17	5.07	3.2	5.43	WELL
							DUG
699	ΚΟΤΤΑΥΑΜ	Anandasram	8.3	6.58	7.5	8.01	WELL
							DUG
700	ΚΟΤΤΑΥΑΜ	Arunuttimangalam		5.62	5.77	6.34	WELL
						10.1	DUG
701	KOTTAYAM	Ayamkudi	12.2	5.49	6.97	5	WELL
							DUG
702	ΚΟΤΤΑΥΑΜ	Ayarkunnam	5.64	2.93	2.7	3.26	WELL
700	KOTTAVANA				6.45		DUG
703	ΚΟΤΤΑΥΑΜ	Brahmamangalam		5.05	6.15	9.6	WELL
704	KOTTAVANA	Champanathal	4.02	2 4 2	2.02	2 72	DUG
704	KOTTAYAM	Chamampathal	4.02	3.12	3.03	3.72	WELL
705		Changapassarry	3.17	1 70	2.26	2.73	DUG WELL
705	KOTTAYAM	Changanasserry	3.17	1.78	2.36	2.73	DUG
706	КОТТАҮАМ	Chempu		1.95	1.7	2.64	WELL
700	KUTTATAW	Chempu		1.95	1.7	2.04	DUG
707	КОТТАУАМ	Chengalam South	2.34	1.2	1.77	1.21	WELL
707	KOTTATAM		2.34	1.2	1.77	1.21	DUG
708	КОТТАҮАМ	Cheruthikara	5.72	3.3	3.56	4.3	WELL
/00			5.72	5.5	5.50	1.5	DUG
709	КОТТАҮАМ	Cheruvalli	6.37	4.75	4.7	6.21	WELL
						-	DUG
710	КОТТАҮАМ	Chotti	4.85	2.85	3.8	5.95	WELL
							DUG
711	КОТТАҮАМ	Chungam	3.19	1.17	3.34	3.37	WELL
							DUG
712	KOTTAYAM	Edakadathy	9.1	10.5	8.9	9.3	WELL
							DUG
713	ΚΟΤΤΑΥΑΜ	Edamaruku	4	2.15	3.23	4.81	WELL
							DUG
714	KOTTAYAM	Edinjillam	3.82	1.27	1.65	2.74	WELL
							DUG
715	KOTTAYAM	Elamkulam	5.62	2.46	4.15	4.22	WELL
_					-		DUG
716	ΚΟΤΤΑΥΑΜ	Erumeli	5.04	2.34	3.75	4.02	WELL
747	KOTTAVANA			4.05	0 F 4	2 -	DUG
717	KOTTAYAM	Ethakuzhy (Kallara)	4.61	1.85	2.54	3.5	WELL
710		Ettumoppur Fact (D1)	7.65	2 05	1 10	7 25	DUG
718	KOTTAYAM	Ettumannur East (R1)	7.65	2.85	4.16	7.35	WELL
719	КОТТАҮАМ	lykarakunnam	9.22	6.73	7.62	9.22	DUG WELL
113	NUTATAM	iynalanullialli	J.22	0.75	7.02	J.22	VVELL

SL.			APRIL	AUGUS	NOVEMB	JAN-	WELL
No	DISTRICT	LOCATION	17	T 17	ER -17	18	ТҮРЕ
							DUG
720	КОТТАУАМ	Kadaplamattom	6.07	3.8	4.85	6.05	WELL
							DUG
721	КОТТАУАМ	Kaduthuruthi		4.82	3.32	6.59	WELL
							DUG
722	КОТТАУАМ	Kalakatty	5.22	3.92	3.99	5.71	WELL
							DUG
723	КОТТАҮАМ	Kalathipady	10.46	6.3	7.8	7.7	WELL
							DUG
724	ΚΟΤΤΑΥΑΜ	Kalathur	6.39	6.2	6.1	6.62	WELL
							DUG
725	KOTTAYAM	Kangazha	6.8	2.74	4.69	6.31	WELL
726	KOTTAYAAA		0.45	7.0	4 40	0.0	DUG
726	KOTTAYAM	Kanjirapally	9.15	7.2	4.48	9.6	WELL
727		Kidongur B1	6.92	1.34	2.55	5.76	DUG WELL
121	КОТТАУАМ	Kidangur-R1	0.92	1.34	2.55	5.70	DUG
728	КОТТАУАМ	Kollappally	4.25	2.85	3.1	3.65	WELL
720	KOTTATAM	Konappany	4.23	2.05	5.1	5.05	DUG
729	КОТТАУАМ	Kooroppada	4.2	2.2	3.75	4.2	WELL
					0170		DUG
730	КОТТАУАМ	Koothrappally	6.3	2.4	3.05	5.33	WELL
						11.2	DUG
731	КОТТАУАМ	Kottayam (R1)	12.71	9.9	10.14	9	WELL
							DUG
732	KOTTAYAM	Kozha	3.2	1.45	1.71	2.4	WELL
							DUG
733	KOTTAYAM	Kozhuvanal	4.8	3.33	4.53	4.89	WELL
							DUG
734	ΚΟΤΤΑΥΑΜ	Kudavechur		0.72	1.6	1.84	WELL
705				0.47			DUG
735	КОТТАҮАМ	Kulasekaramangalam		0.17			WELL
726		Kumarakam	1.6	0.14	0.1	1.65	DUG WELL
736	КОТТАУАМ	Kumarakom	1.6	0.14	0.1	1.65	DUG
737	КОТТАУАМ	Kummannur	7.1	4.9	5.1	5.7	WELL
/3/	KOTTATAM		7.1	4.5	J.1	5.7	DUG
738	КОТТАУАМ	Kuravilangad1	5.4	1.8	3.05	5.5	WELL
730		Kurichy	5.4	1.0	5.05	5.5	DUG
739	КОТТАУАМ	(Sachivothamapuram)	9.37		5.95	7	WELL
		Kurichy(Sachivothamapur					DUG
740	КОТТАҮАМ	am)		5.85			WELL
							DUG
741	КОТТАУАМ	Kuruppanthara	3.32	1	1.35	1.61	WELL
							DUG
742	КОТТАҮАМ	Kuttikal-R1		3.2	2.67	3.72	WELL
							DUG
743	KOTTAYAM	Kuvapalli	6.42	3.25	5.82	6.15	WELL

SL.			APRIL	AUGUS	NOVEMB	JAN-	WELL
No	DISTRICT	LOCATION	17	T 17	ER -17	18	ТҮРЕ
							DUG
744	ΚΟΤΤΑΥΑΜ	Madapally	2.8	1.18	1.45	1.71	WELL
							DUG
745	KOTTAYAM	Manimala	4.71	3.86	4.47	5.8	WELL
							DUG
746	КОТТАҮАМ	Mannanam	8	4.3	5.4	6.2	WELL
							DUG
747	ΚΟΤΤΑΥΑΜ	Marangattupalli	3.16	2.42	2.57	3.62	WELL
740	KOTTAVANA			2.45	2.0	F 70	DUG
748	КОТТАҮАМ	Melukavu Mattom	4.4	3.45	3.8	5.72	WELL
749	КОТТАУАМ	Mevellur	3.49	2.4	3.63	2.42	DUG WELL
749	KUTTATAIVI	IVIEVEIIUI	5.49	2.4	5.05	2.42	DUG
750	КОТТАУАМ	Monipalli	2.32	0.58	0.87	0.99	WELL
750			2.52	0.50	0.07	0.55	DUG
751	КОТТАУАМ	Mukkada	9.16	2.3	5.15	5.91	WELL
							DUG
752	КОТТАҮАМ	Mukkoottuthara	3.5	1.95	2.4	3.3	WELL
							DUG
753	КОТТАҮАМ	Mundakayam	9.46	3.3	4.08	4.3	WELL
							DUG
754	КОТТАҮАМ	Mundukuzhi	11.3	6.05	6	8.17	WELL
							DUG
755	ΚΟΤΤΑΥΑΜ	Mutholi	6.75	4.5	5.75	6.8	WELL
							DUG
756	КОТТАҮАМ	Narianganam	5	2.5	3.92	5.25	WELL
757	KOTTAVANA	Nedumkunnam	6.5	3.2	6.25	6.5	DUG WELL
/5/	КОТТАҮАМ	Neuumkumam	0.5	5.2	0.25	0.5	DUG
758	КОТТАУАМ	Neendur		1.8	2.3	3.91	WELL
750				1.0	2.5	5.51	DUG
759	КОТТАҮАМ	Paippad	9.2	6.12	6.1	8.94	WELL
							DUG
760	КОТТАҮАМ	Palai	5.57	4.67	4.74	7.17	WELL
							DUG
761	КОТТАҮАМ	Palamkadavu	3.51	1.55	1.43	2.5	WELL
							DUG
762	ΚΟΤΤΑΥΑΜ	Pallikkathodu (R1)	6.65	3.6	4.89	5.56	WELL
							DUG
763	KOTTAYAM	Pallom (nattagam)	9.2	4.6	4.72	6.95	WELL
764	KOTTAVANA	Pambadi	6 00	C 11	7 /	0 1	DUG WELL
764	KOTTAYAM	rdiliydul	6.89	6.44	7.4	8.2	DUG
765	КОТТАУАМ	Panackapalam Jn		2.2	4.37	5.2	WELL
, 55				2.2	7.57	5.2	DUG
766	КОТТАУАМ	Paruthumpara	11.3	5.73		9.73	WELL
							DUG
767	КОТТАҮАМ	Plakkalpadi	8.2	4.2	5.81	6.72	WELL

SL.			APRIL	AUGUS	NOVEMB	JAN-	WELL
No	DISTRICT	LOCATION	17	T 17	ER -17	18	ТҮРЕ
							DUG
768	КОТТАҮАМ	Ponad	8.95	5.28	5.5	8.05	WELL
							DUG
769	KOTTAYAM	Ponthanpuzha	7.38	2.31	4.16	5.49	WELL
							DUG
770	КОТТАҮАМ	Poovathilappu		3.25	3.35	4.1	WELL
							DUG
771	ΚΟΤΤΑΥΑΜ	Pravithanam	7.2	2.92	3.77	5.6	WELL
772	KOTTAVANA	Pulikkal Kayala	4.40	2.24	2.4	10	DUG
772	КОТТАҮАМ	Pulikkal Kavala	4.42	3.34	3.4	4.3	WELL DUG
773	КОТТАУАМ	Pulikuttisseri	1.99	1.01	1.3	1.25	WELL
775	KOTTATAM		1.55	1.01	1.5	1.25	DUG
774	КОТТАҮАМ	Punjar	1.19	0.18	0.3	0.42	WELL
						_	DUG
775	КОТТАҮАМ	Punnaveli	5.16	3.06	4.03	5.12	WELL
							DUG
776	КОТТАҮАМ	Puthupally	7.45	3.3	3.9	7.15	WELL
							DUG
777	KOTTAYAM	Ramapuram (R1)	7.59	6.86	3.57	4.4	WELL
	KOTTAVANA		6.00	2.02			DUG
778	KOTTAYAM	Teekoy	6.09	3.93	4	5.25	WELL
779	КОТТАҮАМ	Thalayolaparambu	3.33				DUG WELL
119	KUTTATAWI	Thalayolaparahibu	5.55				DUG
780	КОТТАҮАМ	Thalayolaparambu (R1)		1.66			WELL
				1.00			DUG
781	ΚΟΤΤΑΥΑΜ	Thalayolaparambu (R1)			2.35	3.2	WELL
							DUG
782	KOTTAYAM	Thazhathangadi	2.25	1.1	1.9	2.14	WELL
							DUG
783	ΚΟΤΤΑΥΑΜ	Thekethukavala		3.1	5.45	6	WELL
704	KOTTAVANA		6.07	2.20		7.00	DUG
784	ΚΟΤΤΑΥΑΜ	Thidanad	6.27	3.38	4.08	7.38	WELL
785	КОТТАҮАМ	Thiruvanchoor	5.62	2.12	3.79	4.2	DUG WELL
785	KUTTATAIVI		5.02	2.12	5.79	4.2	DUG
786	КОТТАҮАМ	Thiruvarpu	2.9	0.72	1	1.3	WELL
/00			2.5	0.72	+	1.0	DUG
787	КОТТАҮАМ	Thottakam		0.76	1.37	1.67	WELL
							DUG
788	KOTTAYAM	Thottakkad	6.9	3.9	4.95	7	WELL
							DUG
789	KOTTAYAM	Trikodithanam			10.9		WELL
	VOTTOVIC						DUG
790	ΚΟΤΤΑΥΑΜ	Udayanapuram	1.81	0.41	1.07	1.6	WELL
701		Urulikuppom	E 20	2 00	רד כ	1 20	DUG
791	KOTTAYAM	Urulikunnam	5.28	2.98	3.73	4.28	WELL

SL.			APRIL	AUGUS	NOVEMB	JAN-	WELL
No	DISTRICT	LOCATION	17	T 17	ER -17	18	ТҮРЕ
							DUG
792	КОТТАҮАМ	Uzhavoor (R1)	3.09	1.71	2.21	3.24	WELL
							DUG
793	KOTTAYAM	Vaikom	1.09	0.45	0.62	2.5	WELL
							DUG
794	KOTTAYAM	Vakathanam	8.54	2.8	4.15	8.78	WELL
				0.74			DUG
795	KOTTAYAM	Vazhur	5.5	2.71	4.35	4.99	WELL
706	KOTTAVANA	Vechur	2.6	0.68	1.23	1.71	DUG WELL
796	KOTTAYAM	Vecilui	2.0	0.08	1.25	1./1	DUG
797	КОТТАҮАМ	Vellur-III	4.15				WELL
757	KOTI/(I/(W		4.15				DUG
798	ΚΟΤΤΑΥΑΜ	Vempalle	3.13	1.31	1.57	1.9	WELL
							DUG
799	КОТТАҮАМ	Veyilkanampara (Kondur)		3.7	4.45	5.56	WELL
							DUG
800	KOTTAYAM	Veyilnanampara (Kondur)	6.34				WELL
							TUBE
801	ΚΟΤΤΑΥΑΜ	Chempu - I(East)	2.3	1.94	1.65	1.81	WELL
							TUBE
802	KOTTAYAM	Chempu- West					WELL
803	ΚΟΤΤΑΥΑΜ	Champy Wast	2 1 1	1.82	0.71	1.21	TUBE WELL
805	KUTTATAIVI	Chempu- West	2.11	1.02	0.71	1.21	TUBE
804	КОТТАҮАМ	Kumarakom Pz	2.03	3.4			WELL
			2.05	5.1			BORE
805	ΚΟΤΤΑΥΑΜ	Ettumannur	2.31	0.4	0.75		WELL
							BORE
806	KOTTAYAM	Kidangoor	8	4.3	9.5	6.5	WELL
							BORE
807	KOTTAYAM	Kuravilangad	5.75	1.2	2.82	4.83	WELL
							BORE
808	ΚΟΤΤΑΥΑΜ	Poonjar	6.37	2.73	4.53	6.69	WELL
000		Theile dithereas	1415	12.40	12.25	15.6	BORE
809	KOTTAYAM	Thrikodithanam	14.15	12.49	12.25	6	WELL DUG
810	KOZHIKODE	Atholi	5.65	2.17	3.02	3.82	WELL
510	KOZI IIKODE		5.05	2.1/	5.02	5.02	DUG
811	KOZHIKODE	Azhinjilam	3.93	1.48	0.63	1.61	WELL
							DUG
812	KOZHIKODE	Badagara (Vadakara)	6.09	3.92	5.01	5.59	WELL
							DUG
813	KOZHIKODE	Balusseri	7.35	3.98	6.4	7.22	WELL
							DUG
814	KOZHIKODE	Beypore	5.1	0.95	1.85	2.6	WELL
045	KOZUWODE		0.1	F 40	0.05		DUG
815	KOZHIKODE	Bhumivathukkal	9.1	5.18	8.65		WELL

SL.			APRIL	AUGUS	NOVEMB	JAN-	WELL
No	DISTRICT	LOCATION	17	T 17	ER -17	18	ТҮРЕ
							DUG
816	KOZHIKODE	Kozhikode Beach	3.1	1.88	2.19	2.88	WELL
							DUG
817	KOZHIKODE	Chaliyam	3.82	1.8	2.01	2.83	WELL
							DUG
818	KOZHIKODE	Chelavur	9.6	6.96	9.22	9.27	WELL
							DUG
819	KOZHIKODE	Chemencheri	4.49	1.1	3.67	2.78	WELL
820	KOZHIKODE	Cheruvannur West	6.43	2.09		4.52	DUG WELL
820	KUZHIKUDE		0.43	3.08		4.52	DUG
821	KOZHIKODE	Chevayur	13.21	10.85	11.4	11.4 5	WELL
021	KOZIIIKODE		13.21	10.05	11.7	5	DUG
822	KOZHIKODE	Chiulavi (Niravamal)	9.28	5.36	6.63	7.73	WELL
							DUG
823	KOZHIKODE	Chulur	5.12	2.78	3.14	4.02	WELL
							DUG
824	KOZHIKODE	Devarkoil	6.42	4.88	8.19		WELL
							DUG
825	KOZHIKODE	Elattur	4.4	1.1	1.79	2.54	WELL
						12.4	DUG
826	KOZHIKODE	Feroke DW	14.82	11.58	12.08	6	WELL
827	KOZHIKODE	Iringallur	3.96	1.68	2.44	3.33	DUG WELL
027	KUZHIKUDE	IIIIgallul	5.90	1.00	2.44	5.55	DUG
828	KOZHIKODE	Kakkayam	3.53	2.85	3.26	3.37	WELL
020	KOZINKODE	Kakkayann	5.55	2.05	5.20	5.57	DUG
829	KOZHIKODE	Kakkur	6.69	3.32	4.52	5.67	WELL
							DUG
830	KOZHIKODE	Kallachi	2.15	1.12	0.63	1	WELL
							DUG
831	KOZHIKODE	Kallai	5.37	3.08	3.6	4.4	WELL
							DUG
832	KOZHIKODE	Kannankara (Chelannur)	1.13	0.22	0.58	1.43	WELL
022	KOZUWODE	Kannaar	E 44	4.09	1 26	1.60	DUG
833	KOZHIKODE	Kannoor	5.44	4.08	4.26	4.69	WELL DUG
834	KOZHIKODE	Karaparamba	3.05	1.5	2.63	3.02	WELL
034	KOZINKODE		5.05	1.5	2.05	5.02	DUG
835	KOZHIKODE	Kariyathumpara	3	2	2.69	2.95	WELL
							DUG
836	KOZHIKODE	Karuvannur	4.47	2.86	3	3.44	WELL
							DUG
837	KOZHIKODE	Kayapanachi	4.7	3.2	5.4	4.56	WELL
							DUG
838	KOZHIKODE	Kodencherry	1.44	0.74	0.96	1.05	WELL
020	KOZUJKODE	Kedunalli	0.07	F 04	7.00	0.7	DUG
839	KOZHIKODE	Koduvalli	8.87	5.01	7.08	8.7	WELL

SL.			APRIL	AUGUS	NOVEMB	JAN-	WELL
No	DISTRICT	LOCATION	17	T 17	ER -17	18	ТҮРЕ
							DUG
840	KOZHIKODE	Koduvalli North	6.45	2.02	1.78	4.95	WELL
							DUG
841	KOZHIKODE	Koothali	4.3	2.52	4.33	4.7	WELL
						14.0	DUG
842	KOZHIKODE	Kottakadavu	15.51	13.95	11.97	5	WELL
						12.4	DUG
843	KOZHIKODE	Kozhikode	15.64	7.55	10.53	5	WELL
011	KOZUJKODE	Kunnamangalam	11 72	7 40	0 5 0	11 /	DUG
844	KOZHIKODE	Kunnamangalam	11.73	7.48	8.58	11.4	WELL DUG
845	KOZHIKODE	Kunnumakkara	3.02	0.95	1.44	2.04	WELL
045	KOZINKODE	Kulliuliakkala	5.02	0.95	1.44	2.04	DUG
846	KOZHIKODE	Kurachund	4.1	4.46	5.18	5.6	WELL
0.10	KOZINKODE			1.10	5.10	5.0	DUG
847	KOZHIKODE	Kuttiyadi	7.13	7.1	7.94	7.54	WELL
		,					DUG
848	KOZHIKODE	Malayamma	4.87	1.14	3.8	6.04	WELL
							DUG
849	KOZHIKODE	Manassery	3.76	1.5	2.82	3.48	WELL
							DUG
850	KOZHIKODE	Mattanodu	9.1	6.22	7.71	8.9	WELL
							DUG
851	KOZHIKODE	Mavoor-i	7.67	5.55	8.97	7.21	WELL
050	KOZUJKODE	Mayaarii	11 2	7 0	6.6	10.0	DUG
852	KOZHIKODE	Mavoor-ii	11.2	7.8	6.6	3	WELL DUG
853	KOZHIKODE	Melady 1		0.75	0.75	1.64	WELL
000	KOZINKODE			0.75	0.75	1.04	DUG
854	KOZHIKODE	Meppayur	4.33	3.03	3.77	4.57	WELL
							DUG
855	KOZHIKODE	Moodali		0.48	0.95	2.45	WELL
							DUG
856	KOZHIKODE	Mukkali	5.5	2.6	4.74	4.7	WELL
							DUG
857	KOZHIKODE	Muliyangal	2.64	1.27	1.41	2.5	WELL
							DUG
858	KOZHIKODE	Mullankunnu	1.67	0.13	1.05	1.5	WELL
050	KOZUWODE	N du uno uno en esta la c	F 00	4 7	БС	F 70	DUG
859	KOZHIKODE	Murampathy	5.88	4.7	5.6	5.78	WELL DUG
860	KOZHIKODE	Nadapuram	4.88	1.41	2.12	3.23	WELL
500			-1.00	1.71	2,12	5.25	DUG
861	KOZHIKODE	Naduvannur	7.86	5.75	6.35	7.24	WELL
							DUG
862	KOZHIKODE	Naduvattom	8.92	5.7	5.93	7.07	WELL
							DUG
863	KOZHIKODE	Nallalam	4.87	0.76	1.33	2.3	WELL

SL.			APRIL	AUGUS	NOVEMB	JAN-	WELL
No	DISTRICT	LOCATION	17	T 17	ER -17	18	ТҮРЕ
							DUG
864	KOZHIKODE	Nanminda	7.16	3.48	5.4	6.33	WELL
							DUG
865	KOZHIKODE	Narikuni	4	0.5	3.3	2.92	WELL
							DUG
866	KOZHIKODE	Nayarkuzhi	7.35	5.32	5.94	6.52	WELL
							DUG
867	KOZHIKODE	Orkattery		1.27	2.79		WELL
000	KOZUWODE	Dethim an ealann	0.14	0.70	0.0	0.21	DUG
868	KOZHIKODE	Pathimangalam	9.14	8.73	8.8	9.21	WELL
869	KOZHIKODE	Davangad	3.34	0.65	1.35	2.4	DUG WELL
009	KUZHIKUDE	Pavangad	5.54	0.05	1.55	2.4	DUG
870	KOZHIKODE	Perambra	3.95	2.05	2.44	3.43	WELL
0/0	KOZINKODE		3.55	2.05	2.11	5.15	DUG
871	KOZHIKODE	Perumpally	4.85	1.13	2.84	3.83	WELL
							DUG
872	KOZHIKODE	Peruvayal	7	4.25	5.92		WELL
							DUG
873	KOZHIKODE	Pudukayam	9.35	6.33	7.72	8.19	WELL
							DUG
874	KOZHIKODE	Pudupadi	2.98	1.45	2.75	2.35	WELL
075			5 70		4 70	F 40	DUG
875	KOZHIKODE	Pudupanam	5.78	4.04	4.79	5.43	WELL
876	KOZHIKODE	Punnasseri	8.18	4.72	6.43	7.34	DUG WELL
870	KOZINKODE	Fulliassell	0.10	4.72	0.43	7.54	DUG
877	KOZHIKODE	Puthur	8.48	5.9	6.9	7.8	WELL
							DUG
878	KOZHIKODE	Quilandy	7.23	3.72	4.58	5.78	WELL
							DUG
879	KOZHIKODE	Ramanattukara (R2)	3.73	1.43	1.57	2.25	WELL
							DUG
880	KOZHIKODE	Tamarasseri	1.86	0.59	0.83	1.06	WELL
							DUG
881	KOZHIKODE	Thenamkuzhi	4.64	1.27	2.65	4.1	WELL
882	KOZUJKODE	Thikkodi	7 75	2 2 7	2 / 1		DUG
002	KOZHIKODE		7.75	2.37	3.41		WELL DUG
883	KOZHIKODE	Thiruvallur	1.52	0.53	1.34	1.95	WELL
505			1.52	0.55	1.54	<u></u>	DUG
884	KOZHIKODE	Thiruvambady	4.17	2.5	3.77		WELL
		,					DUG
885	KOZHIKODE	Thodannur	7.98	5.37	6.24	6.35	WELL
							DUG
886	KOZHIKODE	Thuneri1	4.67	3.08	3.63	4.25	WELL
							DUG
887	KOZHIKODE	Ulliyeri	3.67	2.17	2.78		WELL

SL.			APRIL	AUGUS	NOVEMB	JAN-	WELL
No	DISTRICT	LOCATION	17	T 17	ER -17	18	ТҮРЕ
							DUG
888	KOZHIKODE	Unnikulam	2.83	1.46	2.21	2.38	WELL
							DUG
889	KOZHIKODE	Valayam	7.62	4.78	5.74	6.51	WELL
							DUG
890	KOZHIKODE	Vattoli	4.83	2.77	4.18	4.74	WELL
						12.6	DUG
891	KOZHIKODE	Vellimadakunnu	13.43	12.7	13.9	3	WELL
	KOZUWODE		7.00	5.0	C A A	6 70	DUG
892	KOZHIKODE	Villyapalli	7.93	5.8	6.44	6.73	WELL
002	KOZUWODE	Maat Dudunadi	2 5 2	1 22	2 50	2.07	DUG
893	KOZHIKODE	West Pudupadi	3.52	1.23	2.59	2.87	WELL TUBE
894	KOZHIKODE	Chombala(pz)	5.26	2	3.81	4.78	WELL
094	KOZINKODL		5.20	۷.	5.81	4.70	TUBE
895	KOZHIKODE	Chombala(w1)	4.88	1.78	3.62	4.28	WELL
000	KOZINKODE		1.00	1.70	5.02	1.20	TUBE
896	KOZHIKODE	Chombala(w2)	5.22	1.83	3.61	4.25	WELL
			_				TUBE
897	KOZHIKODE	Chombala(w3)			3.7	4.48	WELL
							TUBE
898	KOZHIKODE	Chombala(w4)	4.42	1.77	3.68		WELL
							TUBE
899	KOZHIKODE	Meladi		0.72	1.06	1.54	WELL
							BORE
900	KOZHIKODE	Balussery pz	8.58	5.35	6.47	8.2	WELL
							BORE
901	KOZHIKODE	Cheruvannur pz	9.56	3.94	5.45	6.78	WELL
902	KOZUJKODE	Chavayur nz	25.16	15.52	10.07	25.0	BORE WELL
902	KOZHIKODE	Chevayur pz	25.10	15.52	18.87	4	BORE
903	KOZHIKODE	Feroke pz			59.45		WELL
505	KOZINKODE				55.45		BORE
904	KOZHIKODE	Kalikadavu pz	2.66	1.06	3.41	3.33	WELL
					01.1	0.00	BORE
905	KOZHIKODE	Karuvannur pz	1.07	0.08	1.05	0.85	WELL
							BORE
906	KOZHIKODE	Kokallur pz	7.38	6.75	6.81		WELL
							BORE
907	KOZHIKODE	Mavoor pz			4.88		WELL
							BORE
908	KOZHIKODE	Thodannur(west)	6.28	3.76			WELL
							BORE
909	KOZHIKODE	Thuneri pz	4.86	1.85	4.48	4.36	WELL
0.1.2					00.05	19.5	BORE
910	KOZHIKODE	Vellimadakunnu pz	24.67	19.16	20.65	5	WELL
911	MALAPPURAM	Akkaparambu	10.87	8.41	8.36	9.01	DUG WELL
911	IVIALAPPUKAIVI	Аллараганный	10.01	0.41	0.30	9.01	VVELL

SL.			APRIL	AUGUS	NOVEMB	JAN-	WELL
No	DISTRICT	LOCATION	17	T 17	ER -17	18	ТҮРЕ
							DUG
912	MALAPPURAM	Amminikad	5.87	2.94	3.01	4.82	WELL
							DUG
913	MALAPPURAM	Anakkayam	8.92	5.9	7.26	7.53	WELL
							DUG
914	MALAPPURAM	Angadipuram	9.36			8.91	WELL
							DUG
915	MALAPPURAM	Anjuvadi	2.97	1.71	2.37	2.74	WELL
							DUG
916	MALAPPURAM	Arikode	8.45	5.81	7.34	8.32	WELL
017		A mix collision		1.01	2.10	2 5 1	DUG
917	MALAPPURAM	Ariyallur		1.91	2.19	3.51	WELL
918	MALAPPURAM	Athanikal- Vallikunnu	15	12.22	12.74	13.3 7	DUG WELL
910			15	12.22	12.74	/	DUG
919	MALAPPURAM	Athanikkal	6.36	4.32	2.84	4.87	WELL
515			0.50	1.52	2.01	12.9	DUG
920	MALAPPURAM	Athirumada	14.6	11.82	12.61	5	WELL
							DUG
921	MALAPPURAM	Beeranchira		6.05	7.17	7.69	WELL
		Buliyampadam					DUG
922	MALAPPURAM	(Velumbiampadam) (R1)	11.56		8.71	9.96	WELL
		Buliyampadam(Velumbia					DUG
923	MALAPPURAM	mpadam) (R1)		11.06			WELL
							DUG
924	MALAPPURAM	Chamravattom	2.55	0.72	1.74	1.88	WELL
0.25		Chammalanaam		2.00	4.65	C 47	DUG
925	MALAPPURAM	Chemmalassery		3.66	4.65	6.17	WELL DUG
926	MALAPPURAM	Cherani	7.34	3.76	4.69	6.11	WELL
520			7.54	5.70	4.05	0.11	DUG
927	MALAPPURAM	Cherukara	7.14	6.33	5.72	6.86	WELL
							DUG
928	MALAPPURAM	Cherukode	5.94	6.32	6.04	6.24	WELL
						11.0	DUG
929	MALAPPURAM	Cherukulam		8.41		5	WELL
							DUG
930	MALAPPURAM	Chokkad		2.63		3.98	WELL
							DUG
931	MALAPPURAM	Chungathara (R1)		2.21	1.77	3.12	WELL
000		Edu and				12.5	DUG
932	MALAPPURAM	Edappal			11.41	6	WELL
022		Edavanna (P1)		6 71	0.74	11.4	DUG
933	MALAPPURAM	Edavanna (R1)	7.72	6.71	8.24	3	WELL DUG
934	MALAPPURAM	Edayur	8.73	6.48	6.66	7.4	WELL
554		Luayui	0.75	0.40	0.00	7.4	DUG
935	MALAPPURAM	Eriyad	4.72	2.93	3.21	4.38	WELL

SL.			APRIL	AUGUS	NOVEMB	JAN-	WELL
No	DISTRICT	LOCATION	17	T 17	ER -17	18	ТҮРЕ
							DUG
936	MALAPPURAM	Iswaramangalam	4.18	0.52	1.1	2.52	WELL
		5					DUG
937	MALAPPURAM	Kadalundi	4.96	3.66	3.98	4.48	WELL
						10.9	DUG
938	MALAPPURAM	Kadampuzha	12.06	9.32		5	WELL
							DUG
939	MALAPPURAM	Kadannamanna	8.32	2.94	3.94	6.28	WELL
							DUG
940	MALAPPURAM	Kadungapuram	10.23	9.84	8.31	9.22	WELL
							DUG
941	MALAPPURAM	Kalikavu	5.78	3.81	3.71	5.02	WELL
							DUG
942	MALAPPURAM	Kanjiramukku	6.29	3.62	4.46	5.32	WELL
0.42				7.00		0.70	DUG
943	MALAPPURAM	Karathur		7.98		9.78	WELL
044		Kariauattara	0.01	C 70	7 5 2	0 1 1	DUG
944	MALAPPURAM	Kariavattam	9.01	6.72	7.52	8.11	WELL DUG
945	MALAPPURAM	Karipol	13.63	11.68	9.43	9.73	WELL
945	IVIALAFFURAIVI	капрог	15.05	11.00	9.45	9.75	DUG
946	MALAPPURAM	Karulai	8.87	7.77	8.37	8.86	WELL
540		Karala	0.07	7.77	0.57	12.3	DUG
947	MALAPPURAM	Karumbil	13.62	11.62	11.78	12.5	WELL
			10.02	11.02	11.70	19.9	DUG
948	MALAPPURAM	Karunechi	20.87	20.87	19.51	7	WELL
							DUG
949	MALAPPURAM	Karuvankallu		7.01	7.84	8.15	WELL
							DUG
950	MALAPPURAM	Karuvarakundu	4.6	2.53	2.62	3.07	WELL
						10.9	DUG
951	MALAPPURAM	Kattumunda (R1)	13.3	9.58	9.14	6	WELL
						11.0	DUG
952	MALAPPURAM	Kavanur1	12.27	7.91		4	WELL
							DUG
953	MALAPPURAM	Kizhumuri - Oorakam	9.62	8.41	9.44	9.94	WELL
054				4.00	4 40	2.52	DUG
954	MALAPPURAM	Kondotty	4.34	1.02	1.43	2.52	WELL
955		Kottakkal	0.02	7.04	0.24	0 5 2	DUG WELL
955	MALAPPURAM	KULIAKKAI	9.02	7.84	8.24	8.52	DUG
956	MALAPPURAM	Kottapuram	8.26	3.11	4.17	6.42	WELL
550		Krishnapuram	0.20	5.11	+.1/	0.42	DUG
957	MALAPPURAM	Puthentheru	4.54	1.07	1.56	2.71	WELL
			1.54	1.07	1.50		DUG
958	MALAPPURAM	Kulattur	5.88	2.57	1.81	4.94	WELL
			2.00	,	1.01	12.8	DUG
959	MALAPPURAM	Kunnumpuram	14.33	12.12	12.72	6	WELL

SL.			APRIL	AUGUS	NOVEMB	JAN-	WELL
No	DISTRICT	LOCATION	17	T 17	ER -17	18	ТҮРЕ
						11.9	DUG
960	MALAPPURAM	Kuruva (Padaparamba)		10.52	10.99	4	WELL
							DUG
961	MALAPPURAM	Kuttipuram	5.52	0.36	0.84	2.51	WELL
							DUG
962	MALAPPURAM	Malappuram	13.31	6.51	6.97	7.42	WELL
							DUG
963	MALAPPURAM	Mangalam (R1)	3.76	1.02	1.7	2.36	WELL
064		Maniani	4.00	2.01	4.02		DUG
964	MALAPPURAM	Manjeri	4.82	2.81	4.02	4.74	WELL DUG
965	MALAPPURAM	Mankeri	7.92	3.17	4.34	5.76	WELL
905		Manken	7.52	5.17	4.34	5.70	DUG
966	MALAPPURAM	Marancheri	7.94	4.76	5.89	6.91	WELL
					0.00	0.01	DUG
967	MALAPPURAM	Marutha (R1)	9.71	7.22	7.05	7.98	WELL
							DUG
968	MALAPPURAM	Meenedathur		1.24	1.86	3.58	WELL
							DUG
969	MALAPPURAM	Melattur	6.96	6.36	6.44	6.66	WELL
		Moochikkal (Clari					DUG
970	MALAPPURAM	Moochikkal)	5.15	0.81	0.72	1.02	WELL
074			6.63	2.04	2 5 0	2.04	DUG
971	MALAPPURAM	Moothedam	6.62	2.81	2.58	3.91	WELL
972	MALAPPURAM	Mudikode	5.48	3.11	4.73	5.22	DUG WELL
972	IVIALAFFURAIVI	Muulkoue	5.40	5.11	4.75	13.3	DUG
973	MALAPPURAM	Narokavu	15.42	14.47	12.04	15.5	WELL
							DUG
974	MALAPPURAM	Nediyirippu	7.33	2.87	1.67	4.83	WELL
							DUG
975	MALAPPURAM	Nellikuth	7.32	5.74	5.75	6.26	WELL
							DUG
976	MALAPPURAM	Nilambur (R1)	4.36	4.22	3.97	4.76	WELL
							DUG
977	MALAPPURAM	Olavattur	9.84	5.72	4.94	8.65	WELL
070		Othukkungal DNM	15.01	6 1 2	0.07	11.1	DUG
978	MALAPPURAM	Othukkungal DW	15.81	6.12	9.07	7	WELL DUG
979	MALAPPURAM	Padikkal		8.33	8.75	9.51	WELL
515				0.00	0.75	5.51	DUG
980	MALAPPURAM	Pandalur DW	10.16	5.84	6.91	7.63	WELL
							DUG
981	MALAPPURAM	Pandikkad (R1)	6.32	4.15	4.25		WELL
							DUG
982	MALAPPURAM	Paral	6.86	4.1	5.86	6.97	WELL
						12.2	DUG
983	MALAPPURAM	Parambilpeedika		10.46	11.84	4	WELL

SL.			APRIL	AUGUS	NOVEMB	JAN-	WELL
No	DISTRICT	LOCATION	17	T 17	ER -17	18	TYPE
							DUG
984	MALAPPURAM	Parappanangadi	3.74	0.83	1.27	2.31	WELL
							DUG
985	MALAPPURAM	Parappur	12.78	12.06	11.99	12.3	WELL
							DUG
986	MALAPPURAM	Paravana	5.26	3.36	4.16	4.71	WELL
							DUG
987	MALAPPURAM	Pathiriyal	7.56	5.36	6.32	7.4	WELL
							DUG
988	MALAPPURAM	Payyanad	8.74	7.29	7.92	8.29	WELL
000			10.41	F 7		C 25	DUG
989	MALAPPURAM	Perinthalmanna (R1)	10.41	5.7	6.46	6.35	WELL
990	MALAPPURAM	Dorumpadappu	6.62	1.66	3.36	5.3	DUG WELL
990	IVIALAPPORAIVI	Perumpadappu	0.02	1.00	5.50	5.5	DUG
991	MALAPPURAM	Peruvakkad	7.7	5.65	6.22	6.42	WELL
551			7.7	5.05	0.22	0.42	DUG
992	MALAPPURAM	Ponnani (R1)	1.81	1.13	1.53	1.72	WELL
001							DUG
993	MALAPPURAM	Pookottoor	3.01	0.22	0.39	1.63	WELL
							DUG
994	MALAPPURAM	Pookottumpadam	5.11	2.76	2.61	3.41	WELL
							DUG
995	MALAPPURAM	Pukattery	9.64	7.33	7.25	9.14	WELL
							DUG
996	MALAPPURAM	Pukothu	8.42	5.98	5.67	6.67	WELL
							DUG
997	MALAPPURAM	Pulamantol	10.95	7.42	7.65	8.98	WELL
000		Durathur		1.04	2.12	1 01	DUG
998	MALAPPURAM	Purathur		1.94	2.12	1.81	WELL DUG
999	MALAPPURAM	Puthenkulam	5.14	1.76	1.77	3.02	WELL
100			5.14	1.70	1.77	5.02	DUG
0	MALAPPURAM	Puzhakkatteri	6.66	4.04	4.18		WELL
100			0.00				DUG
1	MALAPPURAM	Ramankulam	7.12	2.84	2.89	6.14	WELL
100							DUG
2	MALAPPURAM	Ramapuram	11.41	4.01	4.42	5.49	WELL
100							DUG
3	MALAPPURAM	Tachinganedam	7.99	4.53	4.58	6.52	WELL
100							DUG
4	MALAPPURAM	Tanur	5.84	2.86	3.56	4.22	WELL
100						13.3	DUG
5	MALAPPURAM	Tenjippalam (R1)	15.02	10.79	11.28	8	WELL
100			40.00	0.00		0 -0	DUG
6	MALAPPURAM	Thavanur	12.02	8.02	9.22	9.79	WELL
100		Thorbokod Konnunskaus	10.12	A 7	<i>c c</i>	0.04	DUG
7	MALAPPURAM	Thazhekod Kappumugham	10.12	4.7	6.6	8.04	WELL

SL.			APRIL	AUGUS	NOVEMB	JAN-	WELL
No	DISTRICT	LOCATION	17	T 17	ER -17	18	ТҮРЕ
100							DUG
8	MALAPPURAM	Thazhekode	7.83	6.88	7.01	7.27	WELL
100							DUG
9	MALAPPURAM	Thirunavaya	5.84	3.43	4.29	4.89	WELL
101							DUG
0	MALAPPURAM	ThiruvaliDW		0.76	0.98	2.38	WELL
101							DUG
1	MALAPPURAM	Thrikkalangode	5	0.82	0.86	2.69	WELL
101							DUG
2	MALAPPURAM	Thuvur DW		7.64	8.07	9.57	WELL
101							DUG
3	MALAPPURAM	Tirukkad	9.24	5.06	6.52	7.81	WELL
101						13.5	DUG
4	MALAPPURAM	Tirur	12.69	11.41	12.04	1	WELL
101							DUG
5	MALAPPURAM	Tirurangadi	9.86	11.71	12.12	9.86	WELL
101						10.4	DUG
6	MALAPPURAM	Tripanachi	9.64	8.61	9.08	7	WELL
101				4.00		2.20	DUG
7	MALAPPURAM	Uppada	3.77	1.32	1.48	2.39	WELL
101		Vadaldonaanna	0.00	F (2)		7.01	DUG
8	MALAPPURAM	Vadakkemanna	8.06	5.62	6.5	7.81	WELL
101 9	MALAPPURAM	Valanchari (D1)	10.02	8.02	0.04	9.61	DUG WELL
9 102	IVIALAPPURAIVI	Valancheri (R1)	10.92	8.02	8.94	12.8	DUG
0	MALAPPURAM	Valavannur	14.51	7.4	0.75	12.8	WELL
102		Valavarinar	14.51	7.4	0.75	0	DUG
102	MALAPPURAM	Valiyakunnu	7.73	6.83	7.41	7.32	WELL
102		Vanyakanna	7.75	0.00	,	7.52	DUG
2	MALAPPURAM	Vaniyambalam	8.15	3.51	4.26	6.46	WELL
102					-		DUG
3	MALAPPURAM	Vazhakkad	4.72	3.11	3.44	3.71	WELL
102							DUG
4	MALAPPURAM	Vazhikadavu	6.42	6.27	5.83	4.33	WELL
102							DUG
5	MALAPPURAM	Vellila (R1)	7.82	4.38	6.21	6.31	WELL
102							DUG
6	MALAPPURAM	Vengad	9.01	5.97	7.02	7.88	WELL
102							DUG
7	MALAPPURAM	Venniyur	10.08	7.74	8.08	8.53	WELL
102							DUG
8	MALAPPURAM	Vettom1	4.23	1.02	1.52	2.72	WELL
102						10.3	DUG
9	MALAPPURAM	Vylattur (R2)	8.17	6.79	9.86	4	WELL
103						.	DUG
0	MALAPPURAM	Wandur	11.01	8.56	8.24	9.17	WELL
103						2.24	TUBE
1	MALAPPURAM	Vettom			3.16	3.24	WELL

SL.			APRIL	AUGUS	NOVEMB	JAN-	WELL
No	DISTRICT	LOCATION	17	T 17	ER -17	18	ТҮРЕ
103				/	20, 27	10	BORE
2	MALAPPURAM	Ammnikad Pz	16.92	2.91	3.11	4.86	WELL
103			10.52	2.51	0.111	17.5	BORE
3	MALAPPURAM	Chemmalassery Pz	39.36	14.12	11.32	6	WELL
103			00.00		11.02	18.9	BORE
4	MALAPPURAM	Edakkara (Karunechi)	19.88	19.98	19.71	9	WELL
103							BORE
5	MALAPPURAM	Kaladi (Kadancherry) Pz	9.5	6.55	6.93	7.6	WELL
103						12.3	BORE
6	MALAPPURAM	Karavarakundu Pz	13.05	11.12	10.99	4	WELL
103							BORE
7	MALAPPURAM	Karulayi	9.74	8.55			WELL
103							BORE
8	MALAPPURAM	Mankeri Pz	31.46	4.32	4.76	6.32	WELL
103							BORE
9	MALAPPURAM	Muthukurissy Pz	13.37				WELL
104							BORE
0	MALAPPURAM	Nediyirippu Pz	4.56	1.28	1.07	1.51	WELL
104						29.9	BORE
1	MALAPPURAM	Othukkungal	38.88	26.48	29.02	2	WELL
104							BORE
2	MALAPPURAM	Pandalur	10.58	6.42	7.09	8.06	WELL
104						29.9	BORE
3	MALAPPURAM	Parambilpeedika			28.75	6	WELL
104							BORE
4	MALAPPURAM	Ponmala	20.15				WELL
104							BORE
5	MALAPPURAM	Puzhakkattkiri	15.53	4.71		6.22	WELL
104						11.1	BORE
6	MALAPPURAM	Thelakkad	17.18	4.44	5.04	4	WELL
104							BORE
7	MALAPPURAM	Thiruvali		4.78	5.49	6.24	WELL
104				10.00	0.00	13.1	BORE
8	MALAPPURAM	Thozhuvannur	25.92	12.38	9.62	8	WELL
104		T h	11.05	7.64	0.50	10.4	BORE
9	MALAPPURAM	Thuvur	11.05	7.61	8.53	10.1	WELL
105		Valanahari D-	24	40.50	40.00	17.5	BORE
0	MALAPPURAM	Valancheri Pz	21	16.56	16.66	2	WELL
105		Adiparanda	0		F O	F 0	DUG
1	PALAKKAD	Adiparanda	8.55	5.5	5.3	5.9	WELL
105		Alapallur	0.05	6.2	7 6	0.0	DUG
2	PALAKKAD	Alanallur	9.85	6.2	7.6	8.9	WELL
105 3		Alathur	7.76	1.16	266	7.06	DUG WELL
	PALAKKAD	Alathur	/./0	1.10	3.66	7.06	
105 4		Ambalannara	E A				DUG WELL
	PALAKKAD	Ambalappara	6.4			10.2	
105 5		Ariyur (P1)	12.2		0.22	10.3	DUG
5	PALAKKAD	Ariyur (R1)	12.2		9.32	2	WELL

SL.			APRIL	AUGUS	NOVEMB	JAN-	WELL
No	DISTRICT	LOCATION	17	T 17	ER -17	18	ТҮРЕ
105	District		1,	1 1/		10	DUG
6	PALAKKAD	Athikode	6.7	6.85	5.8	8.1	WELL
105				0.00	5.0	0.1	DUG
7	PALAKKAD	Athipetta	4.2	0.8	1.9	2.7	WELL
105							DUG
8	PALAKKAD	Banglow Kunnu	10.65	8.2	7.75	8.05	WELL
105							DUG
9	PALAKKAD	Chalisseri	11	6.25	8	8.7	WELL
106							DUG
0	PALAKKAD	Chemmampathi	10.3	10.3	9.1	10.3	WELL
106						10.0	DUG
1	PALAKKAD	Cherpulassery (R1)	10.66	8.05	8.85	5	WELL
106							DUG
2	PALAKKAD	Chittoor	7.2	3.4	3.7	5.9	WELL
106							DUG
3	PALAKKAD	Chulliar Dam	6.25	5.25	4.25	3.25	WELL
106							DUG
4	PALAKKAD	Chullimada (R1)	4.5	2.35	2.35	3.5	WELL
106							DUG
5	PALAKKAD	Chunangad	10.6				WELL
106							DUG
6	PALAKKAD	Chunnambuthara	4.35	2.15	2.55	3.35	WELL
106							DUG
7	PALAKKAD	Dhoni	8.4	5.15	5.2	7.4	WELL
106		F II: P	6.2	F 7F	6.2	7.2	DUG
8	PALAKKAD	Ellissery	6.3	5.75	6.3	7.3	WELL
106		Erattakulam	4.83	1 5 2	1 10	1.83	DUG WELL
9 107	PALAKKAD		4.05	1.53	1.48	1.65	DUG
0	PALAKKAD	Eruthenpathi	9.2		10		WELL
107			5.2		10		DUG
107	PALAKKAD	Gopalapuram	15.5		14.3	17.4	WELL
107			10.0		11.5	17.1	DUG
2	PALAKKAD	Kadampazhipuram	4.1	4.05	3.95	4.75	WELL
107							DUG
3	PALAKKAD	Kalladikode	10.2	8.05	7.4	8.2	WELL
107							DUG
4	PALAKKAD	Kambilichungam	5.6	3	2.4	3.4	WELL
107							DUG
5	PALAKKAD	Kanjikode	7.5	6.75	4.5	5.9	WELL
107							DUG
6	PALAKKAD	Kanjirapuzha	3.95	1.8	1.7	2.7	WELL
107							DUG
7	PALAKKAD	Kannadi	5.9	0.4	2.4	3.65	WELL
107							DUG
8	PALAKKAD	Kannimari	6.05	3	3.2	4.65	WELL
107							DUG
9	PALAKKAD	Karimpuzha	3.4	1.65	1.95	2.7	WELL

SL.			APRIL	AUGUS	NOVEMB	JAN-	WELL
No	DISTRICT	LOCATION	17	T 17	ER -17	18	ТҮРЕ
108							DUG
0	PALAKKAD	Kavassery	2.7	3.4	2.4	3	WELL
108		,					DUG
1	PALAKKAD	Kodumbu	4.52	1.8	2.1	4.1	WELL
108							DUG
2	PALAKKAD	Kodunthirapalli	3.2	0.6	1.4	4.1	WELL
108							DUG
3	PALAKKAD	Koduvayur		7.8	4.35	4.7	WELL
108							DUG
4	PALAKKAD	Kollengode -I	4.9		2.4	4.4	WELL
108							DUG
5	PALAKKAD	Kollengode- II	5.5	1.6	3.3	2.6	WELL
108							DUG
6	PALAKKAD	Kongad1	7.2	3.75	4.3	5.1	WELL
108			6.0	0.45	0.7		DUG
7	PALAKKAD	Koolimattom	6.2	0.45	0.7	1.3	WELL
108		Kasasthawa	F 2	2.2	2 5	2.2	DUG
8	PALAKKAD	Koonathara	5.3	2.3	3.5	3.3	WELL
108 9		Keettened	9.8	5.85	9.7	10.2	DUG WELL
109	PALAKKAD	Koottanad	9.0	5.65	9.7	10.2	DUG
0	PALAKKAD	Koppam (R1)	5.3	3.8	5.8	6.3	WELL
109	FALAKKAD		5.5	5.0	5.0	0.5	DUG
105	PALAKKAD	Koppanur	5.22		3.92	4.62	WELL
109			5.22		5.52	1.02	DUG
2	PALAKKAD	Kottapuram	9.3	7.4	7.8	8.5	WELL
109							DUG
3	PALAKKAD	Kottassery (Vattassery)	4.75	2.55	2.9	4.1	WELL
109							DUG
4	PALAKKAD	Kottayi	11.1		7.2	7.6	WELL
109							DUG
5	PALAKKAD	Kozhinjampara-R1	9.6		7.8	8.4	WELL
109							DUG
6	PALAKKAD	Kozhipara	5.7		6.5		WELL
109							DUG
7	PALAKKAD	Kudallur	7.8	4.65	5.3	6.2	WELL
109							DUG
8	PALAKKAD	Kulakkad	8.6	1.3	5.5	6.8	WELL
109							DUG
9	PALAKKAD	Kumaramputtur	5.94		2.69	3.34	WELL
110							DUG
0	PALAKKAD	Kumaranallur		7.7	8.9	9.4	WELL
110		Kunisseni	A 7		2.2	2 5	DUG
1	PALAKKAD	Kunisseri	4.7	0.6	2.2	3.5	WELL
110		Kuzhalmannam	2.25	1 25	2.25	2 5 5	DUG
2	PALAKKAD	Kuzhalmannam	3.25	1.25	2.35	2.55	WELL
110 3	ΒΛΙΔΚΚΔΡ	Lakkidi (Ramakrishnapadi)	0.65	07	۲ ٦	റാ	DUG WELL
3	PALAKKAD		9.65	8.7	7.2	9.2	VVELL

SL.			APRIL	AUGUS	NOVEMB	JAN-	WELL
No	DISTRICT	LOCATION	17	T 17	ER -17	18	TYPE
110	Diotract			/		10	DUG
4	PALAKKAD	Malampuzha	4.55	5.35	1.85	1.85	WELL
110				0.00			DUG
5	PALAKKAD	Mankara	5.9	2.8	4.1	4.4	WELL
110							DUG
6	PALAKKAD	Mannarkkad (R1)	4.94	3.25	3.8	4.1	WELL
110							DUG
7	PALAKKAD	Mathur	6.2	1.4	3	4.2	WELL
110							DUG
8	PALAKKAD	Mattumanda	4.15	2	3.5	3.5	WELL
110							DUG
9	PALAKKAD	Meenakshipuram	9.3		8.3	6.8	WELL
111							DUG
0	PALAKKAD	Meenkara	10.2	4.8	4.95	6.2	WELL
111							DUG
1	PALAKKAD	Melarkode	13.3	12.3	7.4	7.8	WELL
111				0.05		10.4	DUG
2	PALAKKAD	Moochankundu	10.4	9.25	8.05	5	WELL
111				7.0	5.05	7.0	DUG
3	PALAKKAD	Mulayankavu	9.4	7.2	5.95	7.2	WELL
111		Mundur	1.66	0.75	1 25	2.2	DUG WELL
4 111	PALAKKAD	Mundur	4.66	0.75	1.35	3.2	DUG
5	PALAKKAD	Muthalamada1	8.28			6.38	WELL
111	PALAKKAD		0.20			0.50	DUG
6	PALAKKAD	Naikarapadi	8.25	7.55	4.5	5.25	WELL
111			0.25	7.55	7.5	5.25	DUG
7	PALAKKAD	Nalliapalli	6.2		3	3.2	WELL
111							DUG
8	PALAKKAD	Nanniyode	3.4	5.2	4.6	4.2	WELL
111		,					DUG
9	PALAKKAD	Nedupuni	10.7	7	6.95	7.55	WELL
112							DUG
0	PALAKKAD	Nellikatteri	7	5.6	4.6	9.5	WELL
112							DUG
1	PALAKKAD	Nemmara	4.72	1.92	2.45	3.52	WELL
112							DUG
2	PALAKKAD	Noorani (Palakkad West)	2.7	0.9	2.05	2.6	WELL
112							DUG
3	PALAKKAD	Odannur	7.4	1.69	4.89	5.04	WELL
112							DUG
4	PALAKKAD	Ongallur		6.84	7.94	8.34	WELL
112							DUG
5	PALAKKAD	Oothara	4	0.8	2.2	3.2	WELL
112		Otherealeur			0.0		DUG
6	PALAKKAD	Ottapalam	9.4	6.4	8.3	6.9	WELL
112		Dadur DM/	7.2		4.05	7 1	DUG
7	PALAKKAD	Padur DW	7.2		4.95	7.1	WELL

SL.			APRIL	AUGUS	NOVEMB	JAN-	WELL
No	DISTRICT	LOCATION	17	T 17	ER -17	18	TYPE
112	District		1/	1 1/		10	DUG
8	PALAKKAD	Palamattom	9.9	7.47	5.5	8.3	WELL
112			0.0		0.0	0.0	DUG
9	PALAKKAD	Palappuram-ii	7.9	5.45	6.5	7.95	WELL
113							DUG
0	PALAKKAD	Palakkad	12.2	4.3	7.15	7.7	WELL
113							DUG
1	PALAKKAD	Pallavur	5.3	0.5	2.25	4.3	WELL
113							DUG
2	PALAKKAD	Panayur (Athikode)	2.81	4.35	1.8	2.1	WELL
113							DUG
3	PALAKKAD	Parali (Chakkanthara)	3.7	1.25	2.05	3.3	WELL
113							DUG
4	PALAKKAD	Pattambi	6.8	3.05	6.65	6.15	WELL
113		Dattanahan	4 75	2.0	2.0	2 75	DUG
5	PALAKKAD	Pattanchery	4.75	3.8	2.8	2.75	WELL
113 6		Poringodo	9.45	7.95	0 0 5	8.75	DUG WELL
113	PALAKKAD	Peringode	9.45	7.95	8.85	0.75	DUG
7	PALAKKAD	Peringottukurissu DW	7.2		4.2	5.2	WELL
, 113	FALAKKAD		7.2		4.2	J.2	DUG
8	PALAKKAD	Perumatty1	4.9		3.9	3.4	WELL
113					5.5	5.4	DUG
9	PALAKKAD	Pookkottukavu	5.3	3.8	3.8	3.1	WELL
114							DUG
0	PALAKKAD	Pudhunagaram	10.9	7.2	3.8	6.1	WELL
114							DUG
1	PALAKKAD	Pudhupariyaram	5.8	2.62	3.9	4.75	WELL
114							DUG
2	PALAKKAD	Pullundassery	3.3	2.85	2.9	3.3	WELL
114							DUG
3	PALAKKAD	Punchapadam	7.3	5.6	6.9	7.3	WELL
114							DUG
4	PALAKKAD	RVP Pudhur	9.1				WELL
114							DUG
5	PALAKKAD	Shoranur	8.1	4.85	7.35	7.35	WELL
114		Care a lucia har a numa na	0.02	7 47	0.00	0.02	DUG
6	PALAKKAD	Sreekrishnapuram	9.82	7.47	8.02	8.62	WELL
114		Tappirkod	11 OF	2 75	7 / 5	0 75	DUG
7	PALAKKAD	Tannirkod	11.05	3.75	7.45	8.25	WELL DUG
8	PALAKKAD	Tenkara		2.4	1.85	2.15	WELL
0 114				2.4	1.05	10.2	DUG
9	PALAKKAD	Thachanattukara	10.72	9.62		2	WELL
115			10.72	5.02		<u> </u>	DUG
0	PALAKKAD	Thachanpara	3.6	0.95	1.2	1.9	WELL
115		Thirumittamcode	0.0	0.00			DUG
1	PALAKKAD	(Chathanur)		1.5	5.2	5.2	WELL

115AlastAlast2PALAKKADThiruvegapuram9.28115AlastAlast3PALAKKADTholanur4.5115AlastAlastAlast4PALAKKADTrittala6.02115AlastAlastAlast5PALAKKADUmmini6.655115AlastAlastAlast	SUS NOVEMING 17 ER -1 6.8 2.1 4. 8.4 5. 5.15 5.0 2.3 4.	7 18 4 8.29 8 3.05 5 5.2 5 4.95	TYPE DUG WELL DUG WELL DUG WELL DUG WELL
115AlastAlast2PALAKKADThiruvegapuram9.28115Tholanur4.53PALAKKADTholanur4PALAKKADTrittala6PALAKKADUmmini6PALAKKADVadakkancherry5.35.3	2.1 4. 8.4 5. 5.15 5.0	8 3.05 5 5.2 5 4.95	WELL DUG WELL DUG WELL DUG
2PALAKKADThiruvegapuram9.28115	2.1 4. 8.4 5. 5.15 5.0	8 3.05 5 5.2 5 4.95	WELL DUG WELL DUG WELL DUG
115AlakkadTholanur4.53PALAKKADTholanur4.5115APALAKKADTrittala5PALAKKADUmmini6.6555PALAKKADUmmini6PALAKKADVadakkancherry5.3	2.1 4. 8.4 5. 5.15 5.0	8 3.05 5 5.2 5 4.95	DUG WELL DUG WELL DUG
3PALAKKADTholanur4.51154PALAKKADTrittala6.021155PALAKKADUmmini6.651156PALAKKADVadakkancherry5.3	8.4 5.	5 5.2 5 4.95	WELL DUG WELL DUG
4PALAKKADTrittala6.021155PALAKKADUmmini6.655115 </td <td>5.15 5.0</td> <td>5 4.95</td> <td>WELL DUG</td>	5.15 5.0	5 4.95	WELL DUG
4PALAKKADTrittala6.02115	5.15 5.0	5 4.95	WELL DUG
5PALAKKADUmmini6.655115			
115Vadakkancherry5.3			WELL
6 PALAKKAD Vadakkancherry 5.3	2.3 4.	2 10	
,	2.3 4.	0 1 0	DUG
115		3 4.8	WELL
			DUG
7 PALAKKAD Vadanamkkurissi 6.5	5.6 3.	5 5.2	WELL
115			DUG
8 PALAKKAD VAlappuzha 7.5	1.4	4 5	WELL
115			DUG
9 PALAKKAD Vaniyamkulam 9.14 5	6.45 6.45	4 7.7	WELL
116			DUG
0 PALAKKAD Vannamada 9.2	7.2 6.	7 8.2	WELL
116			DUG
1 PALAKKAD Velanthavalam 12.6	10.	7 12	WELL
116			DUG
;	3.8	5 5.5	WELL
116			DUG
···	.95 3.1	5 4.35	WELL
116			DUG
4 PALAKKAD Walayar 10.05	10.	9	WELL
116			BORE
5 PALAKKAD Annamthodu Pz		16	WELL
			BORE
6 PALAKKAD Cherpulassery Pz 22.85			WELL
	20 27		BORE
	3.9 2.7	5 5.3	WELL
	2.5		BORE
	2.5 2.	2 8.7	WELL
116	3.5 5.	2 11 2	BORE WELL
9 PALAKKAD Kallepully 8.3	3.5 5.	3 11.3	BORE
	7.3 6.1	8 11.5	WELL
117 Nanjikođe(FCRI)		<u> </u>	BORE
	0.7 1.	1 1.3	WELL
1 FALANNAD Kamadi 2.5	5.7 1.	<u> </u>	BORE
	3.7 3.	5 4.5	WELL
117	5., 5.		BORE
3 PALAKKAD Koduvayur 11.32	5.3	2 6.52	WELL
117			BORE
	.94 3.	9 5.3	WELL
117 Kongad 5.15 5			BORE
	8.3 4.	1 8.7	WELL

SL.			APRIL	AUGUS	NOVEMB	JAN-	WELL
No	DISTRICT	LOCATION	17	T 17	ER -17	18	ТҮРЕ
117							BORE
6	PALAKKAD	Kunnamkattupathy Pz	13.77	6.85	7.35	8.35	WELL
117							BORE
7	PALAKKAD	Kunnissery	11.4	8.5	9.5	11.5	WELL
117		,					BORE
8	PALAKKAD	Lakkidi Thekkumangalam	22	17	16.3	15.5	WELL
117							BORE
9	PALAKKAD	Malampuzha OW				5.3	WELL
118							BORE
0	PALAKKAD	Malampuzha Pz	11.3		6.3	5.3	WELL
118							BORE
1	PALAKKAD	Malampuzha1	5.63		7.3		WELL
118							BORE
2	PALAKKAD	Melarkode		4.8	11.6	20.1	WELL
118							BORE
3	PALAKKAD	Moochangundu			49.3	51.3	WELL
118							BORE
4	PALAKKAD	Mundur Pz	27.15	18.95	19.2	17.5	WELL
118						11.0	BORE
5	PALAKKAD	Muttikulangara Pz	18.9	4.3	13.3	5	WELL
118							BORE
6	PALAKKAD	Nanniyodu Pz	55.95		44.5	24	WELL
118			27 5	7 5	10 г	11 F	BORE
7	PALAKKAD	Nellikattiri Pz	27.5	7.5	10.5	11.5	WELL BORE
118 8	PALAKKAD	Nemmara1	4.9	3.8	3.3	4.1	WELL
0 118	PALAKKAD	Neninarai	4.9	5.0	5.5	4.1	BORE
9	PALAKKAD	Padur	17.4	14.4		11.4	WELL
119	TALARRAD		17.4	17.7		11.7	BORE
0	PALAKKAD	Panayur(Athikodu) Pz	6.3	5.8	5	5.5	WELL
119			0.0	5.0		5.5	BORE
1	PALAKKAD	Pattambi Pz	7.7	5.3	7.1	7	WELL
119							BORE
2	PALAKKAD	Peringottukurissu	14.86	4.5	11.5	11	WELL
119							BORE
3	PALAKKAD	Perumatty		3.9			WELL
119							BORE
4	PALAKKAD	Plachimada	20.5	10.15	9.4	11.3	WELL
119							BORE
5	PALAKKAD	Pullundassery	7.12	4.8	4.4	4.5	WELL
119							BORE
6	PALAKKAD	Thenkara	1.15		2.9	4.7	WELL
119							BORE
7	PALAKKAD	Thirumittacode	37.3	7.3	9.8	17.3	WELL
119							BORE
8	PALAKKAD	Thiruveegapuram	14.63	7.65			WELL
119							BORE
9	PALAKKAD	Trithala Pz	8		8.5	4.5	WELL

SL.			APRIL	AUGUS	NOVEMB	JAN-	WELL
No	DISTRICT	LOCATION	17	T 17	ER -17	18	TYPE
120			1/	1 1/		10	BORE
0	PALAKKAD	Vadakarapathy Pz	56.2		49.5	51.5	WELL
120			50.2		+5.5	51.5	BORE
120	PALAKKAD	Vannamada Pz	17.44	16.3	15.3	10.9	WELL
120		Valinanada i 2	17.44	10.5	15.5	10.5	BORE
2	PALAKKAD	Vennakara	15.5	11.5	11.5	15.9	WELL
120							BORE
3	PALAKKAD	Villooni			49.5		WELL
120	PATHANAMTHIT					12.1	DUG
4	ТА	Adoor (R2)	12	8.67	8.85	7	WELL
120	PATHANAMTHIT						DUG
5	ТА	Adoor Bypass	4	4.05	3.75	5.25	WELL
120	PATHANAMTHIT						DUG
6	ТА	Angadikkal North	9.1	7.33	8	8.43	WELL
120	PATHANAMTHIT						DUG
7	ТА	Angamuzhi	5.74	5.04	4.99	5.54	WELL
120	PATHANAMTHIT						DUG
8	ТА	Aranmula (R2)	6.7	1.59	5.15	6.15	WELL
120	PATHANAMTHIT						DUG
9	ТА	Ariyanadu	5.39				WELL
121	PATHANAMTHIT						DUG
0	ТА	Arukannukuzhi	5.33				WELL
121	PATHANAMTHIT						DUG
1	ТА	Aruvapulam	4.58	2.45	2.4	3.47	WELL
121	PATHANAMTHIT						DUG
2	ТА	Aruvikara	4.96				WELL
121	PATHANAMTHIT						DUG
3	ТА	Athiringal (R1)	9.44	6.6		7.4	WELL
121	PATHANAMTHIT						DUG
4	TA	Athumbukulam	4.03	2.02	1.45	3.75	WELL
121	PATHANAMTHIT		2.45	1.6		-	DUG
5	TA	Chalappally	2.45	1.6	1.7	2	WELL
121			6.25	2.07	2.00	F F C	DUG
6	TA	Cherukolpuzha (Airoor)	6.25	3.97	3.88	5.56	WELL
121		Chathaldial		4.05	2.2	2.20	DUG
7	TA PATHANAMTHIT	Chethekkal	+	4.05	2.3	3.26	WELL
121 8	TA	Chittar (R1)	8.38	7.15	5.65	9.01	DUG WELL
8	PATHANAMTHIT		0.30	7.15	5.05	9.01	DUG
9	TA	Churakkod	8	5.75	4.67	5.8	WELL
122	PATHANAMTHIT		0	5.75	4.07	5.0	DUG
0	TA	Edakkulam	5.52	4.55	1.47	5.15	WELL
122	PATHANAMTHIT		5.52	55	1.77	5.15	DUG
122	TA	Elanthur	4.05	0.9	0.5	3.4	WELL
122	PATHANAMTHIT		1.00	0.5	0.0	0.7	DUG
2	TA	Elavumthitta	9.1	6.47	4.62	6.57	WELL
				0.17	1.02	5.57	
		Enathu	7.85	3.78	4.35	7.22	
2 122 3	TA PATHANAMTHIT TA	Enathu	7.85	6.47 3.78	4.62	7.22	DUG WELL

SL.			APRIL	AUGUS	NOVEMB	JAN-	WELL
No	DISTRICT	LOCATION	17	T 17	ER -17	18	ТҮРЕ
122	PATHANAMTHIT						DUG
4	ТА	Eraviperoor	4.38	1.95	1.91	2.85	WELL
122	PATHANAMTHIT						DUG
5	ТА	Ezhamkulam	7.1	5.89	4.7	7.71	WELL
122	PATHANAMTHIT			0.00			DUG
6	ТА	Ezhumattoor	5	3.8	2.3	4.6	WELL
122	PATHANAMTHIT						DUG
7	ТА	Kadakkavur(R1)	4.69				WELL
122	PATHANAMTHIT						DUG
8	ТА	Kadambanad	4.14	4.1	4.65	6.85	WELL
122	PATHANAMTHIT						DUG
9	ТА	Kadammanitta	7.1	4.45	2.45	5.35	WELL
123	PATHANAMTHIT						DUG
0	ТА	Kadumeenchira	10	4.85	4	8.7	WELL
123	PATHANAMTHIT						DUG
1	ТА	Kaipattoor	7.21	5.25	5.1	6.5	WELL
123	PATHANAMTHIT						DUG
2	ТА	Kalanjoor	5.46	5.5	3.8	8.65	WELL
123	PATHANAMTHIT	-					DUG
3	ТА	Kallar	4.87				WELL
123	PATHANAMTHIT						DUG
4	ТА	Kallikkad	1.99				WELL
123	PATHANAMTHIT						DUG
5	ТА	Kallooppara	5.12	2.27	1.4	2.72	WELL
123	PATHANAMTHIT						DUG
6	ТА	Karakulam	4.89				WELL
123	PATHANAMTHIT						DUG
7	ТА	Karinga	2.81				WELL
123	PATHANAMTHIT						DUG
8	ТА	Karinkulam (R1)					WELL
123	PATHANAMTHIT						DUG
9	ТА	Karinkulam (R1)	2.53	6.45	1.82	2.43	WELL
124	PATHANAMTHIT						DUG
0	ТА	Kattakkada	3.92				WELL
124	PATHANAMTHIT						DUG
1	ТА	Kaviyur (R1)	7.95	6.7	6.2	7.53	WELL
124	PATHANAMTHIT						DUG
2	ТА	Kidanganoor	5.65	0.9	1	4.53	WELL
124	PATHANAMTHIT						DUG
3	ТА	Kodumon	6.87	5.24		6.75	WELL
124	PATHANAMTHIT						DUG
4	ТА	Koipuram (R1)	9	4.73	4.8	6.9	WELL
124	PATHANAMTHIT						DUG
5	ТА	Konni	6.02	3.78	3.13	5.63	WELL
124	PATHANAMTHIT						DUG
6	ТА	Koodal	5.52	6.34	6.87	6.78	WELL
124	PATHANAMTHIT						DUG
7	ТА	Kottanadu	5.83	2.85	1.68	3.85	WELL

SL.			APRIL	AUGUS	NOVEMB	JAN-	WELL
No	DISTRICT	LOCATION	17	T 17	ER -17	18	ТҮРЕ
124	PATHANAMTHIT						DUG
8	ТА	Kottangal	2.9	1.1	1	1.75	WELL
124	PATHANAMTHIT						DUG
9	ТА	Kozhenchery		1.1	0.82	1.7	WELL
125	PATHANAMTHIT	,					DUG
0	ТА	Kudutha	8.43	6.54	4.95	7.05	WELL
125	PATHANAMTHIT						DUG
1	ТА	Kulanada	9.63	4.19	5	8.27	WELL
125	PATHANAMTHIT						DUG
2	ТА	Kumbanad	7.28	4.28	3.93	6.98	WELL
125	PATHANAMTHIT						DUG
3	ТА	Kumplampoika	2.45	1.95	1.4	2.17	WELL
125	PATHANAMTHIT						DUG
4	ТА	Kunnamthanam1		7.75		9.71	WELL
125	PATHANAMTHIT						DUG
5	ТА	Kuttoor	4.65	1.9	1.15	1.01	WELL
125	PATHANAMTHIT						DUG
6	ТА	Laha balawadi	2.64	1.7	1.42	2.48	WELL
125	PATHANAMTHIT						DUG
7	ТА	Laha peruman	9.77	9.5	9.4	9.5	WELL
125	PATHANAMTHIT						DUG
8	ТА	MalayAlappuzha	6.96	4.9	2.78	6.33	WELL
125	PATHANAMTHIT						DUG
9	ТА	Mallappally	4.9	3.4	3.4	3.75	WELL
126	PATHANAMTHIT						DUG
0	ТА	Maniyar	6.21	4.65	3.67	5.1	WELL
126	PATHANAMTHIT						DUG
1	ТА	Mannadi	3.5	1.3	1.24	2.21	WELL
126	PATHANAMTHIT						DUG
2	ТА	Murani	3	5.1	0.8	2.75	WELL
126	PATHANAMTHIT						DUG
3	ТА	Muthoor	4.3	2.35	2.92	3.4	WELL
126	PATHANAMTHIT						DUG
4	ТА	Naduvathumuzhi	6.43	3	3.05	6	WELL
126	PATHANAMTHIT						DUG
5	ТА	Naranganam (R1)	3.2	1.9	1.6	2.63	WELL
126	PATHANAMTHIT						DUG
6	ТА	Nilakkal New	5.6	2.6	3.85	5.1	WELL
126	PATHANAMTHIT						DUG
7	ТА	Omallur(R1)		5.72		8.15	WELL
126	PATHANAMTHIT						DUG
8	TA	Pandalam Town	1.28	0.75	0.85	0.73	WELL
126	PATHANAMTHIT						DUG
9	TA	Pandalam-1	4.6	3.15	2.9	3.66	WELL
127	PATHANAMTHIT	Described					DUG
0	TA	Paranthal	5.55		4.75	4.51	WELL
127	PATHANAMTHIT					2.42	DUG
1	ТА	Pathanamthitta (R1)	3.23	2.36	3.33	3.18	WELL

SL.			APRIL	AUGUS	NOVEMB	JAN-	WELL
No	DISTRICT	LOCATION	17	T 17	ER -17	18	ТҮРЕ
127	PATHANAMTHIT						DUG
2	ТА	Peringara (R1)	2.45	0.95	1.57	1.78	WELL
127	PATHANAMTHIT			0.00			DUG
3	ТА	Plappally	2.49	0.91	0.78	2.36	WELL
127	PATHANAMTHIT						DUG
4	ТА	Podiyadi	2.98	1	1.66	1.97	WELL
127	PATHANAMTHIT	,					DUG
5	ТА	Poothangara	6.6	4.56	2.1		WELL
127	PATHANAMTHIT						DUG
6	ТА	Prakkanam	6.45	2.59	4.15		WELL
127	PATHANAMTHIT						DUG
7	ТА	Pulikeezh	3.8	1.9	2.58	2.95	WELL
127	PATHANAMTHIT						DUG
8	ТА	Pullad	6.71	4.71	4.91	5.5	WELL
127	PATHANAMTHIT						DUG
9	ТА	Ranni i	4.34	1.4	1.37	4.08	WELL
128	PATHANAMTHIT						DUG
0	ТА	Ranni Perunad			4.3	6.35	WELL
128	PATHANAMTHIT						DUG
1	ТА	Thadiyur	6.3	5.05	5.9	7.7	WELL
128	PATHANAMTHIT						DUG
2	ТА	Thannithodu			3.45	6.82	WELL
128	PATHANAMTHIT						DUG
3	ТА	Thatta (R1)	2.33		0.7	0.86	WELL
128	PATHANAMTHIT						DUG
4	ТА	Thelliyur	8.6	6.15	6.5	7.6	WELL
128	PATHANAMTHIT						DUG
5	ТА	Thiruvalla	10.65	4.95	6.35	5.95	WELL
128	PATHANAMTHIT						DUG
6	ТА	Thumpaman	8.73	5.5	5.7	7.8	WELL
128	PATHANAMTHIT						DUG
7	ТА	Ullannur		5.45	6.88	7.13	WELL
128	PATHANAMTHIT						DUG
8	ТА	V Kottayam		5.88		9.87	WELL
128	PATHANAMTHIT						DUG
9	ТА	Vadasserikara		2.58	0.4	4	WELL
129	PATHANAMTHIT						DUG
0	TA	Vaipur		1.13	1.05	1.53	WELL
129	PATHANAMTHIT				_		DUG
1	TA	Vakayar (Valiakavu)		1.8	2	2.32	WELL
129	PATHANAMTHIT			2			DUG
2	TA	Vallamkulam		2.65	3.6	4.35	WELL
129				2.07			DUG
3	TA	Vallikod		2.87		4.5	WELL
129		Vachaacking (D4)		2 42	2.05	4 5 2	DUG
4	TA	Vechoochira (R1)		3.43	2.05	4.53	WELL
129 Г		Vannikulara		2.05	2.00	2.25	DUG
5	ТА	Vennikulam		3.05	2.99	3.25	WELL

SL.			APRIL	AUGUS	NOVEMB	JAN-	WELL
No	DISTRICT	LOCATION	17	T 17	ER -17	18	ТҮРЕ
129	PATHANAMTHIT						BORE
6	ТА	Chetheckal	2.74	1.2	1	2.26	WELL
129	PATHANAMTHIT						BORE
7	ТА	Elanthoor	3.05	1.4	1.3	2.1	WELL
129	PATHANAMTHIT						BORE
8	ТА	Ezhamkulam		5.9	7.02		WELL
129	PATHANAMTHIT						BORE
9	ТА	Kadumeenchira Pz	15.7	12.6	14.96		WELL
130	PATHANAMTHIT					11.4	BORE
0	ТА	Koipuram Pz	12.9	10.85	11.2	5	WELL
130	PATHANAMTHIT						BORE
1	ТА	Kottangal Pz	2.8	1.75	1.7	2.41	WELL
130	PATHANAMTHIT						BORE
2	ТА	Kunnamthanam	3.9	1.55	0.9	3.35	WELL
130	PATHANAMTHIT						BORE
3	ТА	MalayAlappuzha Pz	17.85	13.5	12.4	17.2	WELL
130	PATHANAMTHIT						BORE
4	ТА	Pandalam	4.25	1.42	3.4	3.9	WELL
130	PATHANAMTHIT						BORE
5	ТА	Thayattumala	9.95	8.05	8.94	9.05	WELL
130	PATHANAMTHIT						BORE
6	ТА	Vallicode	3.77	2.4		3.45	WELL
130	THIRUVANANTH						DUG
7	APURAM	Amboori	10.51	8.68	5.7	9.08	WELL
130	THIRUVANANTH						DUG
8	APURAM	Anappara Valayanki		6.37	4.88	6.43	WELL
130	THIRUVANANTH						DUG
9	APURAM	Anjengo			0.95		WELL
131	THIRUVANANTH					14.0	DUG
0	APURAM	Aralumoodu	13.01	18.68	16.58	3	WELL
131	THIRUVANANTH					4.05	DUG
1	APURAM	Ariyanadu				4.85	WELL
131	THIRUVANANTH			C 42	5.00	6.46	DUG
2	APURAM	Arukannukuzhi		6.43	5.83	6.46	WELL
131	THIRUVANANTH	A		C 75	1 70	2.25	DUG
3		Aruvikara		6.75	1.73	3.35	WELL
131	THIRUVANANTH	Atherbergererere	21.1	21.04	20.25	20.4	DUG
4		Athazhamangalam	21.1	21.84	20.35	20.4	WELL
131	THIRUVANANTH	Attional	12 50	10.1	0.25	0.02	DUG
5		Attingal	12.58	10.1	8.25	8.93	WELL
131		Awankada	0.24	10.46		10.0	DUG
6 121		Ayyankode	9.34	10.46		1	WELL
131		Azhoor	12 22	17 5	11 7	11.3 °	DUG
121		Azhoor	13.23	12.5	11.2	8	WELL
131 °		Palaramanuram(P1)	12 / 2	10.60	7.00	0 7	DUG WELL
121		Balaramapuram(R1)	13.42	10.62	7.98	8.3	
131 9	THIRUVANANTH APURAM	Bharathanoor	0.72	0 10	E 70	6 20	DUG WELL
9	APUKAW	DIIdIdIIdIIUUI	9.73	8.28	5.72	6.38	VVELL

SL.			APRIL	AUGUS	NOVEMB	JAN-	WELL
No	DISTRICT	LOCATION	17	T 17	ER -17	18	ТҮРЕ
132	THIRUVANANTH						DUG
0	APURAM	Changa	11.76	11.65	6.68	7.15	WELL
132	THIRUVANANTH						DUG
1	APURAM	Chaykottukonam	9.04	8.3	6.35	7.32	WELL
132	THIRUVANANTH	,					DUG
2	APURAM	Cheeranikara		9.84	6.63	7.53	WELL
132	THIRUVANANTH						DUG
3	APURAM	Chembur		10.51	6.74	8.88	WELL
132	THIRUVANANTH						DUG
4	APURAM	Chennampara	12.5	8.57	6.85	8.13	WELL
132	THIRUVANANTH					13.4	DUG
5	APURAM	Cherunniyur	16.2	12.45	14	8	WELL
132	THIRUVANANTH						DUG
6	APURAM	Chirayinkeezh	11.99	10.9	8.2	8.1	WELL
132	THIRUVANANTH						DUG
7	APURAM	Chittagode	7.6	7.38	5	6.23	WELL
132	THIRUVANANTH					18.7	DUG
8	APURAM	Chowara	20.5		18.71	6	WELL
132	THIRUVANANTH						DUG
9	APURAM	Chullimanoor	7.48	5.77	4.8	6.27	WELL
133	THIRUVANANTH						DUG
0	APURAM	Edavai			7.77		WELL
133	THIRUVANANTH						DUG
1	APURAM	Ithye		8.2	6.64	7.62	WELL
133	THIRUVANANTH						DUG
2	APURAM	Kadakkavur(R1)		3.3	2.3	3.2	WELL
133	THIRUVANANTH						DUG
3	APURAM	Kallar		3.7		3.86	WELL
133	THIRUVANANTH						DUG
4	APURAM	Kallikkad	-	1.47	0.1	1.4	WELL
133	THIRUVANANTH						DUG
5	APURAM	Kandala	12.4	14.65	7.35	10	WELL
133	THIRUVANANTH					48.8	DUG
6	APURAM	Kanjiramkulam	45.51	47.31	47.98	5	WELL
133	THIRUVANANTH					23.7	DUG
7	APURAM	Kanjiramkulam Church	28.71	24.86	20.76	9	WELL
133	THIRUVANANTH					10.7	DUG
8	APURAM	Kappil	11.68	10.7		3	WELL
133	THIRUVANANTH						DUG
9	APURAM	Karakulam		2.9	2.07	2.78	WELL
134	THIRUVANANTH						DUG
0	APURAM	Kariavattom		3.02	1.3	2.98	WELL
134	THIRUVANANTH				-		DUG
1	APURAM	Karinga		2.81	2.15	2.53	WELL
134	THIRUVANANTH						DUG
2	APURAM	Kattakkada		4.25	2.61	3.9	WELL
134	THIRUVANANTH						DUG
3	APURAM	Kazhakkuttom	4.43	3.28	2.69	2.95	WELL

SL.			APRIL	AUGUS	NOVEMB	JAN-	WELL
No	DISTRICT	LOCATION	17	T 17	ER -17	18	ТҮРЕ
134	THIRUVANANTH						DUG
4	APURAM	Kilimannor		4.86	5.23	6.67	WELL
134	THIRUVANANTH				0.20	0.07	DUG
5	APURAM	Kochuveli(R1)		2.4	2.12	2.16	WELL
134	THIRUVANANTH						DUG
6	APURAM	Korani		6.58	7.12	7.61	WELL
134	THIRUVANANTH						DUG
7	APURAM	Kulathur	12.28	13	7.22	9.26	WELL
134	THIRUVANANTH						DUG
8	APURAM	Madavur	13.59	10.88	8.91	10.4	WELL
134	THIRUVANANTH						DUG
9	APURAM	Malayadi		5.09	3.99	4.67	WELL
135	THIRUVANANTH	,				19.5	DUG
0	APURAM	Mangalapuram		25.52	18.32	7	WELL
135	THIRUVANANTH						DUG
1	APURAM	Mannanthala	8.14	7.42	4.6	7.58	WELL
135	THIRUVANANTH						DUG
2	APURAM	Maruthamala	8.35	7.09	5.95	7.06	WELL
135	THIRUVANANTH						DUG
3	APURAM	Meenangal	10.3	10.08	6.45	7.12	WELL
135	THIRUVANANTH					33.5	DUG
4	APURAM	Melvettoor		3.52	35.05	5	WELL
135	THIRUVANANTH					23.3	DUG
5	APURAM	Mulloor	20.16	22.59	21.18	6	WELL
135	THIRUVANANTH						DUG
6	APURAM	Murukumpuzha(R1)		3.07	2.24	3.02	WELL
135	THIRUVANANTH						DUG
7	APURAM	Muzhi		3.98	2.83		WELL
135	THIRUVANANTH					15.6	DUG
8	APURAM	Nagapuram	16.21	18.06	13.56	7	WELL
135	THIRUVANANTH						DUG
9	APURAM	Nanniyode		4.55	6.12	5.87	WELL
136	THIRUVANANTH						DUG
0	APURAM	Navaikulam	16.34	10.62	9.01	10.2	WELL
136	THIRUVANANTH						DUG
1	APURAM	Nedumangad	11.23	9.45	7.25	8	WELL
136	THIRUVANANTH					12.0	DUG
2	APURAM	Neyyattinkara	14.22	13.68	12.56	2	WELL
136	THIRUVANANTH						DUG
3	APURAM	Ookod	10.5	16.42	10.3	9.62	WELL
136	THIRUVANANTH						DUG
4	APURAM	Ottashekharamangalam	4.79	4.23	3.8	4.13	WELL
136	THIRUVANANTH					13.0	DUG
5	APURAM	Palayamkunnu	18.22	12.54		8	WELL
136	THIRUVANANTH						DUG
6	APURAM	Palode	7.61	3.81	3.22	5	WELL
136	THIRUVANANTH						DUG
7	APURAM	Panavoor	4.5			3.74	WELL

SL.			APRIL	AUGUS	NOVEMB	JAN-	WELL
No	DISTRICT	LOCATION	17	T 17	ER -17	18	ТҮРЕ
136	THIRUVANANTH						DUG
8	APURAM	Pangode		5.03	4.3	4.97	WELL
136	THIRUVANANTH						DUG
9	APURAM	Parandakuzhi		15.07	1.9	13.8	WELL
137	THIRUVANANTH						DUG
0	APURAM	Parandod	6.5	4.76	3.3	4.8	WELL
137	THIRUVANANTH						DUG
1	APURAM	Parassala	2.47	1.76		0.8	WELL
137	THIRUVANANTH						DUG
2	APURAM	Peringamala		7.05	7.31	8.49	WELL
137	THIRUVANANTH						DUG
3	APURAM	Perumathura	2.35	2.37	1.73	2.07	WELL
137	THIRUVANANTH						DUG
4	APURAM	Perumgulam	8.04	7.45	6.62	7.43	WELL
137	THIRUVANANTH						DUG
5	APURAM	Perumgur(R1)	5.29	4.16	1.69	3.61	WELL
137	THIRUVANANTH						DUG
6	APURAM	Perumkuzhi	2.54	3.97	2.7	3.1	WELL
137	THIRUVANANTH					11.9	DUG
7	APURAM	Perunkadavila	14.77	13.57	12.47	7	WELL
137	THIRUVANANTH						DUG
8	APURAM	Pirappankod	8.53	7.38	5.27	5.93	WELL
137	THIRUVANANTH						DUG
9	APURAM	Ponganadu	7.3	6.05	3.57	5.7	WELL
138	THIRUVANANTH						DUG
0	APURAM	Ponmudi(R1)	4.51			3.98	WELL
138	THIRUVANANTH						DUG
1	APURAM	Poonthura (R1)	3.21	3.6	2.8	3.07	WELL
138	THIRUVANANTH					11.5	DUG
2	APURAM	Poovachal	14.57	13.5		8	WELL
138	THIRUVANANTH					29.8	DUG
3	APURAM	Poovar-ii	22.94	21.3	27.3	8	WELL
138	THIRUVANANTH						DUG
4	APURAM	Pothencod		11.38	8.92		WELL
138	THIRUVANANTH						DUG
5	APURAM	Pozhiyoor	6.2			4	WELL
138	THIRUVANANTH						DUG
6	APURAM	Pozhiyoor(R1)		6.05		4.2	WELL
138	THIRUVANANTH						DUG
7	APURAM	Pudukurichi	3.49	3.59	3.02	3.21	WELL
138	THIRUVANANTH						DUG
8	APURAM	Pulluvila		57		55.7	WELL
138	THIRUVANANTH						DUG
9	APURAM	Puvar School (New)		6.4	8.66	6.3	WELL
139	THIRUVANANTH						DUG
0	APURAM	Sasthanthala	6.74	5.79	1.39	4.27	WELL
139	THIRUVANANTH						DUG
1	APURAM	Sasthavattom	6.99	3.99	1.92	3.22	WELL

SL.			APRIL	AUGUS	NOVEMB	JAN-	WELL
No	DISTRICT	LOCATION	17	T 17	ER -17	18	ТҮРЕ
139	THIRUVANANTH						DUG
2	APURAM	Shankaramugham	7.5	5.92	5.18	5.98	WELL
139	THIRUVANANTH						DUG
3	APURAM	Tekkada	3.88	3.58	2.91	3.93	WELL
139	THIRUVANANTH						DUG
4	APURAM	Tholicode	9.3	7.35	5.52	6.68	WELL
139	THIRUVANANTH					12.6	DUG
5	APURAM	Thonakkal	22.89	24.87	7.88	3	WELL
139	THIRUVANANTH						DUG
6	APURAM	Thumba	4.1	3.74	3.3	3.5	WELL
139	THIRUVANANTH					27.5	DUG
7	APURAM	Tirupuram	23.52	27.64	27.51	1	WELL
139	THIRUVANANTH					13.7	DUG
8	APURAM	Thiruvananthapuram		12.35	11.97	7	WELL
139	THIRUVANANTH						DUG
9	APURAM	Udyankulangara	12.76	12.92	10.37	10.5	WELL
140	THIRUVANANTH						DUG
0	APURAM	Ullannur	7.44				WELL
140	THIRUVANANTH						DUG
1	APURAM	Uzhamalakkal	7.76	6.8	2.52	3.78	WELL
140	THIRUVANANTH						DUG
2	APURAM	V Kottayam	8.68				WELL
140	THIRUVANANTH						DUG
3	APURAM	Vadasserikara	3.77				WELL
140	THIRUVANANTH						DUG
4	APURAM	Vaipur	1.9				WELL
140	THIRUVANANTH						DUG
5	APURAM	Vakayar (Valiakavu)	2.24				WELL
140	THIRUVANANTH						DUG
6	APURAM	Vakkom		4.65	3.15	3.2	WELL
140	THIRUVANANTH					10.4	DUG
7	APURAM	Valakkad		11.83	11.36	1	WELL
140	THIRUVANANTH						DUG
8	APURAM	Vallamkulam	5.25				WELL
140	THIRUVANANTH						DUG
9	APURAM	Vallikod	4.84				WELL
141	THIRUVANANTH					-	DUG
0	APURAM	Vamanapuram	6.62	2.08	1.56	3	WELL
141	THIRUVANANTH	Markala	10.20	45.04	44.00	13.1	DUG
1		Varkala	16.36	15.01	14.06	1	WELL
141	THIRUVANANTH	Vetterers	10.05	10.40	0.05	0.67	DUG
2		Vattapara	10.85	10.48	8.65	8.67	WELL
141	THIRUVANANTH	Vettevile	10.0	0.07		10	DUG
3	APURAM	Vattavila	10.9	9.87	7.72	10	WELL
141	THIRUVANANTH	Varbiehal	0 75	7 50	4.00		DUG
4		Vazhichal	8.75	7.58	4.98	5.7	WELL
141	THIRUVANANTH	Vachaachira (D1)	4 5 4				DUG
5	APURAM	Vechoochira (R1)	4.51				WELL

SL.			APRIL	AUGUS	NOVEMB	JAN-	WELL
No	DISTRICT	LOCATION	17	T 17	ER -17	18	ТҮРЕ
141	THIRUVANANTH						DUG
6	APURAM	Veeranakavu	4.95	5.03	3.93		WELL
141	THIRUVANANTH						DUG
7	APURAM	Vellanad	7.7	6.04	4.98	5.56	WELL
141	THIRUVANANTH						DUG
8	APURAM	Vellarada(R1)	6.07	5.2	4.3	4.49	WELL
141	THIRUVANANTH						DUG
9	APURAM	Vellayani (Poonkulam)		18.72	15.55	15.5	WELL
142	THIRUVANANTH					19.8	DUG
0	APURAM	Venganoor	23.19	24.26	19.87	2	WELL
142	THIRUVANANTH						DUG
1	APURAM	Vengod					WELL
142	THIRUVANANTH						DUG
2	APURAM	Vengod	8.68	8.2	6.95	7.25	WELL
142	THIRUVANANTH						DUG
3	APURAM	Venjaramoodu	11.09	9.4	7.68	9.06	WELL
142	THIRUVANANTH						DUG
4	APURAM	Vennikulam	3.85				WELL
142	THIRUVANANTH						DUG
5	APURAM	Venpakal		9.7	7.7	9.76	WELL
142	THIRUVANANTH					24.9	DUG
6	APURAM	Veyloor	27.22	27.8	26.42	2	WELL
142	THIRUVANANTH						DUG
7	APURAM	Vilapilshala	10.97	9.93	7.03	8.01	WELL
142	THIRUVANANTH					11.3	DUG
8	APURAM	Vithura		13.02	9.8	4	WELL
142	THIRUVANANTH						DUG
9	APURAM	Vizhinjam	1.72	0.68	0.84	1.2	WELL
143	THIRUVANANTH					13.9	TUBE
0	APURAM	Edava	12.71	11.73	11.8	8	WELL
143	THIRUVANANTH					19.5	TUBE
1	APURAM	Varkala Deep	20.66	20.28	19.65	8	WELL
143	THIRUVANANTH						TUBE
2	APURAM	Varkala(shallow)	18.5		16		WELL
143	THIRUVANANTH						BORE
3	APURAM	Ariyanadu Pz	7.41	7.35	5.95	7.33	WELL
143	THIRUVANANTH						BORE
4	APURAM	Attingal Pz	6.78	6.65		5.66	WELL
143	THIRUVANANTH						BORE
5	APURAM	Chengal Pz	13.62				WELL
143	THIRUVANANTH					13.4	BORE
6	APURAM	Kariyavattom Pz	13.83	13.69	13.7	4	WELL
143	THIRUVANANTH			7		11.6	BORE
7	APURAM	Kulathoor pz	14.24	14.86	11.33	6	WELL
143	THIRUVANANTH					11.9	BORE
8	APURAM	Manambur Pz	14.08	12.75	11	2	WELL
143	THIRUVANANTH						BORE
9	APURAM	Mangalapuram Pz		25.5	22.84		WELL

SL.			APRIL	AUGUS	NOVEMB	JAN-	WELL
No	DISTRICT	LOCATION	17	T 17	ER -17	18	ТҮРЕ
144	THIRUVANANTH						BORE
0	APURAM	Mannanthala Pz	7.48	6.63		6.19	WELL
144	THIRUVANANTH						BORE
1	APURAM	Nemom Pz				4.37	WELL
144	THIRUVANANTH						BORE
2	APURAM	Pattom Pz		8.97	6.6	8.2	WELL
144	THIRUVANANTH					11.0	BORE
3	APURAM	Peringamala Pz	11.7	10.8	10.08	5	WELL
144	THIRUVANANTH						BORE
4	APURAM	Perumkadavila Pz	8.48	9.12	9.42	8.85	WELL
144	THIRUVANANTH						BORE
5	APURAM	Ponganadu Pz	7.8		3.6	5.8	WELL
144	THIRUVANANTH						BORE
6	APURAM	Sreekariyam Pz	13.5	13.88			WELL
144	THIRUVANANTH						BORE
7	APURAM	Thattattumala	13.33	6.66	5	7.14	WELL
144	THIRUVANANTH						BORE
8	APURAM	Udayankulangara Pz		13.08			WELL
144	THIRUVANANTH					11.6	BORE
9	APURAM	Udayankulangara Pz			11.3	2	WELL
145	THIRUVANANTH						BORE
0	APURAM	Vengod Pz	9.34	8.7	6.94	6.82	WELL
145	THIRUVANANTH						BORE
1	APURAM	Vilappilsala Pz		9		8.33	WELL
145							DUG
2	THRISSUR	Adatt	13.1	11.8	12.2	12.5	WELL
145							DUG
3	THRISSUR	Akalad	4.27	2.76	3.05	3.74	WELL
145	TUDICCUD		6.50	F 75	67	0.04	DUG
4	THRISSUR	Amballur	6.59	5.75	6.7	8.84	WELL
145	TUDICCUD	Ammonanada	F 02	2 10	2.20	4.02	DUG
5	THRISSUR	Annamanada	5.02	3.19	3.36	4.83	WELL
145 6		A rim pur 1	4.9	2 5 2			DUG WELL
145	THRISSUR	Arimpur1	4.9	2.53			
145	THRISSUR	Athani	8.2	5.05	6.45	7.92	DUG WELL
, 145			0.2	5.05	0.43	1.92	DUG
145	THRISSUR	Athani Parambu	3.3	0.7	0.65	1.53	WELL
145			5.5	0.7	0.03	1.55	DUG
9	THRISSUR	Attoor	7.63	7.75	7.7	6.7	WELL
146			7.05	7.75	1.1	10.6	DUG
0	THRISSUR	Ayyanthole	12	6.33	7.14	2	WELL
146				5.55	/·±T		DUG
1	THRISSUR	Azhikode (R1)	1.66	1.24		0.93	WELL
146				±.£ !		0.00	DUG
2	THRISSUR	Chalakudi	9.34	7.94	7.74	8.63	WELL
146			5.5 1	,	,,, ,	5.00	DUG
3	THRISSUR	Chammannur	4.5	2.05	2.69	3.48	WELL
3	THRISSUR	Chammannur	4.5	2.05	2.69	3.48	WELL

SL.			APRIL	AUGUS	NOVEMB	JAN-	WELL
No	DISTRICT	LOCATION	17	T 17	ER -17	18	ТҮРЕ
146			/	,		10	DUG
4	THRISSUR	Chattikulam	4				WELL
146			•				DUG
5	THRISSUR	Chavakkad	4.07	0.77	1.57	2.69	WELL
146				••••			DUG
6	THRISSUR	Chelakara	6.64	1.7	2.08	3.57	WELL
146							DUG
7	THRISSUR	Chelakod	4.66	2.05	2.01	3.06	WELL
146							DUG
8	THRISSUR	Chengallur (Rendamkallu)				7.57	WELL
146							DUG
9	THRISSUR	Cherenkonam	5.99	3.77	4.89		WELL
147							DUG
0	THRISSUR	Cherpu	11.03	6.77	8.1	8.95	WELL
147							DUG
1	THRISSUR	Cherukunnu	6.61	2.63	3.52	4.67	WELL
147							DUG
2	THRISSUR	Cheruthuruthi (R1)	5.07	3.78	4.45	3.67	WELL
147						10.1	DUG
3	THRISSUR	Choondal	10.55	7.1	8.2	6	WELL
147							DUG
4	THRISSUR	Chowannur		7.17	8.3	9.65	WELL
147							DUG
5	THRISSUR	Deshamangalam	9.62	6.81	6.25	8.21	WELL
147							DUG
6	THRISSUR	East Fort (Thrissur)	8.18	7.2	7.75	7.64	WELL
147	TUDICCUD	Febinere	2.05	1 75	2.02	2 1 1	DUG
7 147	THRISSUR	Echipara	3.95	1.75	2.03	3.11	WELL
147	THRISSUR	Edamuttom	2.33	0.22		1.57	DUG WELL
0 147	INNISSON	Edanidttom	2.55	0.22		1.57	DUG
9	THRISSUR	Edathrinji	2.47	0.35	0.55	0.97	WELL
148	111113501		2.47	0.55	0.55	0.57	DUG
0	THRISSUR	Engandiyur-R1	4.17	1.67	2.25	3.05	WELL
148	1111135011		7.17	1.07	2.25	5.05	DUG
1	THRISSUR	Eriyad (R1)	1.89	0.5	0.65	1.79	WELL
148				0.0	0.00		DUG
2	THRISSUR	Erumapetty	8.03	5.96	5.58	7.33	WELL
148		1 ***/					DUG
3	THRISSUR	Eyyal Ambalam Jn	10.16	7.5	7.9	9	WELL
148							DUG
4	THRISSUR	Guruvayur	1.75	0.49	1.29	2.47	WELL
148							DUG
5	THRISSUR	Irinjalakuda -I	9.14	5.9	7.1	7.9	WELL
148							DUG
6	THRISSUR	Kallettumkara	4.39	3.93	4.45	5.17	WELL
148							DUG
7	THRISSUR	Kallumpuram	9.23	6.63	7.1	8.34	WELL

SL.			APRIL	AUGUS	NOVEMB	JAN-	WELL
No	DISTRICT	LOCATION	17	T 17	ER -17	18	TYPE
148	DISTRICT		1/	1 1/		10	DUG
8	THRISSUR	Kallur	9.42	7.49	7.8	8.37	WELL
148		Kanjirapally (Dream	5112	,,,,,	/10	0.07	DUG
9	THRISSUR	World Park)	4.69	4.23	4.62	4.81	WELL
149							DUG
0	THRISSUR	Kannara	6.11	4.61	5.35	6.05	WELL
149							DUG
1	THRISSUR	Karamuck (Vadanappally)	4.22	1.08		3.25	WELL
149							DUG
2	THRISSUR	Karikkad	9.28	5.49	7.05	6.98	WELL
149							DUG
3	THRISSUR	Karuppadanna	4.11	0.28	1.73	1.86	WELL
149						12.9	DUG
4	THRISSUR	Kattakampala (R1)	9.17	10.51	7.7	3	WELL
149							DUG
5	THRISSUR	Kattoor	7.64	3.51	4.5	6.4	WELL
149							DUG
6	THRISSUR	Keecheri (R1)	8.81	6.41	6.85	7.91	WELL
149							DUG
7	THRISSUR	Killimangalam	8.62	5.67	6.43	7.02	WELL
149							DUG
8	THRISSUR	Kizhakkumuri	7.25	6.35	6.31	6.94	WELL
149	TURICCUR		2.40	2.4	2.25		DUG
9	THRISSUR	Kodacherry	2.18	2.1	2.35		WELL
150	TUDICCUD	Kadakara			7 4	0.2	DUG
0	THRISSUR	Kodakara	8.9	6.65	7.4	8.3	WELL DUG
150 1	THRISSUR	Kodali		5.01	5.85	6.79	WELL
150	THRISSON	Kodali		5.01	5.65	0.79	DUG
2	THRISSUR	Kodasserry				2.53	WELL
150	1111135011					2.55	DUG
3	THRISSUR	Kodungallur (R1)	3.9	2.85	2.9	3.2	WELL
150			0.5	2.00	2.0	0.2	DUG
4	THRISSUR	Konnakuzhi-ii	4.77	4.89		3.24	WELL
150							DUG
5	THRISSUR	Koratty	9.06	6.85	7.44	8.25	WELL
150							DUG
6	THRISSUR	Kottappadi	3.69	0.47	0.57	2.87	WELL
150							DUG
7	THRISSUR	Kundannur	7.55	0.47	0.45	3.55	WELL
150							DUG
8	THRISSUR	Kunnamkulam		6.8	6.6	7.69	WELL
150							DUG
9	THRISSUR	Kurancherry	7.25	3.78	3.88	6.02	WELL
151						10.5	DUG
0	THRISSUR	Kurunchikara	11.24	7.62	9.3	4	WELL
151							DUG
1	THRISSUR	Kuttanellur	9.07	7.99	8.55	8.89	WELL

SL.					NOVEMB	JAN-	WELL
No	DISTRICT	LOCATION	17	AUGUS T 17	ER -17	18	TYPE
151				/		10	DUG
2	THRISSUR	Logamalleswaram	3.27	0.97	1.97	2.48	WELL
151			-		-		DUG
3	THRISSUR	Madakkathara	10.33	7.58	8.6	8.98	WELL
151							DUG
4	THRISSUR	Mala	9.58	6.95	7.94	8.68	WELL
151							DUG
5	THRISSUR	Manalur	3.68	0.7	1.22	2.83	WELL
151							DUG
6	THRISSUR	Manamangalam	6.8	4.57	5.01	5.7	WELL
151	TURICCUR					4 75	DUG
7	THRISSUR	Mannuthy		1.43	5.05	1.75	WELL
151	тиріссир	Manzanam		0.70	11 25	12.6	DUG
8 151	THRISSUR	Mapranam		9.79	11.35	12.6	WELL DUG
9	THRISSUR	Mathilakom (R1)	4.42	2.72	2.82	3.8	WELL
152	111113301		4.42	2.72	2.02	5.0	DUG
0	THRISSUR	Mattathur	7.53	6.53	6.66	8.08	WELL
152	1111105011		,	0.55	0.00	0.00	DUG
1	THRISSUR	Methalapadam		0.45			WELL
152		· ·					DUG
2	THRISSUR	Mulankunnathukavu	7.69	5.38	6.3	7	WELL
152							DUG
3	THRISSUR	Mullassery	7.4	0.24	0.64	2.5	WELL
152		Mullurkara (Vazhathodu					DUG
4	THRISSUR	Jn)	6.65	2.57	1.97	4.22	WELL
152							DUG
5	THRISSUR	Mundur	8.26	8.37	8.06	8.18	WELL
152	TURICCUR		7.04		4.50	7.00	DUG
6	THRISSUR	Mupliyam	7.94	4.2	4.56	7.38	WELL
152 7		Muringur	8.16	5.9		6.34	DUG WELL
/ 152	THRISSUR	Muringur	0.10	5.9		0.54	DUG
8	THRISSUR	Muriyad	10.25	6.86	8.05	8.42	WELL
152	111113501		10.25	0.00	0.05	0.42	DUG
9	THRISSUR	Nandipulam	7.03	5.45	6.29	7.02	WELL
153				55	0.20		DUG
0	THRISSUR	Nattika 1	2.94	1.05	1.4	2.24	WELL
153							DUG
1	THRISSUR	Nellai	4.4	4.37	4.57	4.71	WELL
153							DUG
2	THRISSUR	Olarikara	9.56	7.12	8.15	8.95	WELL
153							DUG
3	THRISSUR	Ollur	8.83	6.86	7.56	8.76	WELL
153							DUG
4	THRISSUR	Orumanayur	3.19	0.73	1.5	2.59	WELL
153	TUDICOUS						DUG
5	THRISSUR	Padakulam		1.97	1.9	2.8	WELL

SL.			APRIL	AUGUS	NOVEMB	JAN-	WELL
No	DISTRICT	LOCATION	17	T 17	ER -17	18	ТҮРЕ
153			-/			10	DUG
6	THRISSUR	Palakkal	10.99	7	8.5	9.88	WELL
153					0.0	0.00	DUG
7	THRISSUR	Palayamthuruthu	1.23	0.5	0.68	1.13	WELL
153			_				DUG
8	THRISSUR	Pallichira		0.86	4.1	4.55	WELL
153							DUG
9	THRISSUR	Pallikandam		2.31	1.5	3.1	WELL
154							DUG
0	THRISSUR	Pallikunnu	8.4	7.63	7.6	8.59	WELL
154							DUG
1	THRISSUR	Panamukku	9.24	6.5	8.48	8.48	WELL
154							DUG
2	THRISSUR	Pappali	4.25	2.76	3.05		WELL
154							DUG
3	THRISSUR	Parappukara	5.93	3.71	4.2	3.33	WELL
154						11.1	DUG
4	THRISSUR	Parappur	12.17	8.3	9.2	5	WELL
154							DUG
5	THRISSUR	Pariyaram	6.51	5.17	6.05	6.37	WELL
154							DUG
6	THRISSUR	Pattikad (R1)	5.31	3.87	4.35	2.23	WELL
154				0.00			DUG
7	THRISSUR	Pavaratty1		0.63	1.4	2.25	WELL
154	TUDICCUD	Deskervenser	C 11	2.01	4.40	4.0	DUG
8	THRISSUR	Pazhayannur	6.41	3.01	4.46	4.9	WELL
154 9	THRISSUR	Pazhuvil	10	7 75	9.53	9.02	DUG WELL
155	THRISSON		10	7.75	9.33	9.02	DUG
133	THRISSUR	Peechi (R1)	6.51	5.83	6.1	5.95	WELL
155	THRISSON		0.51	5.05	0.1	5.55	DUG
133	THRISSUR	Perambra	7.26	6.13	6.79	7.89	WELL
155	THRISSON		7.20	0.15	0.75	7.05	DUG
2	THRISSUR	Perinjanam (R2)	2.38	0.53	0.59	2.42	WELL
155			2.00	0.00	0.00	10.0	DUG
3	THRISSUR	Perumpilavu Junction	10.1	7.97	9.25	10.0	WELL
155		- p					DUG
4	THRISSUR	Potta	2.7	2.39	2.35	3.87	WELL
155						11.6	DUG
5	THRISSUR	Роууа	12.73	9.75	8.44	6	WELL
155							DUG
6	THRISSUR	Pudukad1	3.09	1.85	2	2.61	WELL
155							DUG
7	THRISSUR	Pullikanni		7.63	1.4	2.22	WELL
155							DUG
8	THRISSUR	Punnayoor	6	2.6	3.5	4.66	WELL
155							DUG
9	THRISSUR	Puthenchira	9.92	7.88	8.3	8.92	WELL

SL.			APRIL	AUGUS	NOVEMB	JAN-	WELL
No	DISTRICT	LOCATION	17	T 17	ER -17	18	ТҮРЕ
156							DUG
0	THRISSUR	Ramanchetty	5.8	3.79	4.15	4.9	WELL
156							DUG
1	THRISSUR	Rendamkallu	7.85	7.46	7.71		WELL
156		Tekkumkara					DUG
2	THRISSUR	(Konathukunnu)	8.5	5.23	5.85	7.36	WELL
156							DUG
3	THRISSUR	Thrissur	8.01	5.18	6.18	7.11	WELL
156							DUG
4	THRISSUR	Triprayar	4.63	2.26	2.9	3.65	WELL
156							DUG
5	THRISSUR	Vadanapalli	2.83	0.67	1.3	4.9	WELL
156							DUG
6	THRISSUR	Vaniyampara		1.27	1.81	3.4	WELL
156							DUG
7	THRISSUR	Varavur	6.92	5.28	5.94	6.3	WELL
156							DUG
8	THRISSUR	Vellanikara	3.26	1.37	1.85	1.69	WELL
156		Vellikulangara (Maramkad					DUG
9	THRISSUR	Jn)	7	4.73	5.05	7.14	WELL
157							DUG
0	THRISSUR	Velupadam	5.79	3.42	4.05	5.5	WELL
157							DUG
1	THRISSUR	Velur	8.85	6.45	5.7	6.9	WELL
157	TUDICCUD					7.00	DUG
2	THRISSUR	Vettikkattiri	7.4	3.9	5.15	7.09	WELL
157	TUDICCUD		БСБ	1.05	2.45	2.4	DUG
3	THRISSUR	Viyyur	5.65	1.85	2.45	3.4	WELL
157 4	THRISSUR	Wadakkancherry	13.3	8.9	9.55	10.6 3	DUG WELL
4	INKISSUK		15.5	0.9	9.55	5	TUBE
5	THRISSUR	Arattukadavu	0.82	0.68	0.78	0.78	WELL
157	THRISSON		0.82	0.08	0.78	0.78	TUBE
6	THRISSUR	Engandiyur Pz	4.18	2.66	2.88		WELL
157	111113501		4.10	2.00	2.00		BORE
7	THRISSUR	Arimpur	8.35	4.53	6.19	7.75	WELL
, 157			0.00		5.15		BORE
8	THRISSUR	Ayyanthole Pz	18.86	7.09		10.4	WELL
157						11.9	BORE
9	THRISSUR	Chazhur (Anthikad)			11.12	2	WELL
158							BORE
0	THRISSUR	Chelakara Pz		2.41			WELL
158						22.4	BORE
1	THRISSUR	Chowannur	30.85	22.3	22.65	5	WELL
158							BORE
2	THRISSUR	Kecheri Pz				7.9	WELL
158							BORE
3	THRISSUR	Keecheri	9.49	6.53	8		WELL

SL.			APRIL	AUGUS	NOVEMB	JAN-	WELL
No	DISTRICT	LOCATION	17	T 17	ER -17	18	TYPE
158			/	/		11.9	BORE
4	THRISSUR	Kodakara Pz	13.84	9.99	11.22	2	WELL
158				0.00			BORE
5	THRISSUR	Madakkathara Pz	21.94	6.4	7.56	15.3	WELL
158							BORE
6	THRISSUR	Mapranam Pz	14.5	10.65	11.69	12.4	WELL
158		· ·				12.6	BORE
7	THRISSUR	Palakal		10.37	12.79	7	WELL
158							BORE
8	THRISSUR	Poyya (poopathy)	11.69	9.01	7.61	9.25	WELL
158							BORE
9	THRISSUR	Ramavarmapuram	35.78	31.9	11.5	18.4	WELL
159							BORE
0	THRISSUR	Varandarapalli	7.26	6.63	9.08	7.3	WELL
159							BORE
1	THRISSUR	Varavoor Pz		3.5			WELL
159						14.5	BORE
2	THRISSUR	Velur	31.63	6.62	6.17	7	WELL
159							DUG
3	WAYANAD	Ambalavayal	8.83	7.35	10.72	8.64	WELL
159							DUG
4	WAYANAD	Appapara	4.95	2.23	3.17	5.05	WELL
159							DUG
5	WAYANAD	Arimula	9.43	7.62	8.04	8.66	WELL
159							DUG
6	WAYANAD	Baveli	9.16	6.43	5.06	7.62	WELL
159						11.6	DUG
7	WAYANAD	Begur	11.1	9.27	10.32	5	WELL
159						11.3	DUG
8	WAYANAD	CC Junction	12.3	12.3	17.19	5	WELL
159							DUG
9	WAYANAD	Cheenkeri	10.95	10.95	9.07	9.93	WELL
160							DUG
0	WAYANAD	Chellakod	10.1	7.72	7.08	7.68	WELL
160			475	16.2	46.00	15.9	DUG
1	WAYANAD	Chenad	17.5	16.2	16.98	2	WELL
160		Chausenshauer	4.20	4.25	2.00		DUG
2	WAYANAD	Cheyyambam	4.38	1.25	3.69		WELL
160		Chullingd	15.22	11 22	12.00	127	DUG
3	WAYANAD	Chulliyod	15.22	11.32	12.08	13.7	WELL
160		Decenaldiere	2 1 7	1.04	-	1.04	DUG
4	WAYANAD	Dasanakkara	3.17	1.84	5	4.04	WELL
160 E		Kalpotta P1	2 1 7	0.96	2.10	2.0	DUG
5	WAYANAD	Kalpetta-R1	3.17	0.86	2.16	2.9	WELL
160		Kamblakat	10 25	171	17.00	17.2	DUG
6	WAYANAD	Kamblakat	18.35	17.1	17.08	8	WELL
160		Kaniirangad	2 -	0.05	1	1 0 2	DUG
7	WAYANAD	Kanjirangad	2.5	0.65	1.65	1.92	WELL

SL.			APRIL	AUGUS	NOVEMB	JAN-	WELL
No	DISTRICT	LOCATION	17	T 17	ER -17	18	ТҮРЕ
160							DUG
8	WAYANAD	Kappiset	13.3	9.5	12.5	13.3	WELL
160							DUG
9	WAYANAD	Karani	9.24	6.43	2.35	7.72	WELL
161							DUG
0	WAYANAD	Kattikulam	9.55	1.61	6.27	8.29	WELL
161							DUG
1	WAYANAD	Kavumandam	7.32	3.95	5.65	5.83	WELL
161							DUG
2	WAYANAD	Kellur -5th Mile	15.7	3.82	6.28	9.7	WELL
161							DUG
3	WAYANAD	Koliyadi	3.16	0.35	1.45	2.12	WELL
161						15.3	DUG
4	WAYANAD	Koodal Kadavu	15.56	14.82	13.83	1	WELL
161							DUG
5	WAYANAD	Koroth	4.51	1.57	2.48	3.7	WELL
161							DUG
6	WAYANAD	Kottathara	5.57	1.92	4.3	4.82	WELL
161			4.52	2 72	2.05	4.4.0	DUG
7	WAYANAD	Kottavayal	4.52	2.73	3.95	4.18	WELL
161		Krichnogiri		c 22	C 27		DUG
8 161	WAYANAD	Krishnagiri		6.23	6.37		WELL DUG
101	WAYANAD	Kuppadi	20	20	19.2	19.2	WELL
162	WATANAD	Киррац	20	20	19.2	19.2	DUG
0	WAYANAD	Lakkidi	1.08	0.1	0.85	1.01	WELL
162	Withit		1.00	0.1	0.05	1.01	DUG
102	WAYANAD	Mampayil	2.31	2.35	2.93	2.32	WELL
162							DUG
2	WAYANAD	Manjapara	9.85	8.45	9.05	7.69	WELL
162							DUG
3	WAYANAD	Mannanthody	8.77	5.73	6.7	7.92	WELL
162						17.2	DUG
4	WAYANAD	Melaputhenkunnu	17.35	18.03	16.45	3	WELL
162						17.5	DUG
5	WAYANAD	Meppady	18.7	16.84	17.4	9	WELL
162							DUG
6	WAYANAD	Minangadi	7.39	5.05	5.57	6.6	WELL
162							DUG
7	WAYANAD	Moolankavu	8.97	7.56	6.65	7.49	WELL
162							DUG
8	WAYANAD	Mullankolly	4.55	1.65	3.8	4.5	WELL
162		Λ (D4)	F 2	2 72	2.04	2 45	DUG
9	WAYANAD	Muthunga (R1)	5.2	2.73	2.81	3.45	WELL
163		N / + + i l	4.2	1 1 2	2.20	2 05	DUG
0 162	WAYANAD	Muttil	4.2	1.13	2.36	2.95	WELL
163 1	WAYANAD	Nadavayal	8.66	5.16	6.18		DUG WELL
T	WATANAD	ivauavayai	0.00	5.10	0.10		VVELL

SL.			APRIL	AUGUS	NOVEMB	JAN-	WELL
No	DISTRICT	LOCATION	17	T 17	ER -17	18	TYPE
163			1/	1 1/		10	DUG
2	WAYANAD	Naykatti	6.77	4.9	5.53	6.11	WELL
163	Within D	Naykatti	0.77	5	5.55	0.11	DUG
3	WAYANAD	Nedugarana	9.54	7.67	7.65	8.27	WELL
163		neadbarana	5.51	7.07	7.05	15.7	DUG
4	WAYANAD	Neervaram	17.09	16.76	15.42	8	WELL
163							DUG
5	WAYANAD	Nenmeni Kunnu	2.88	1.52	2.7	2.64	WELL
163							DUG
6	WAYANAD	Noolpuzha (R1)	3.62	1.14	2.73	3.34	WELL
163							DUG
7	WAYANAD	Ondyangadi	11.41	7.56	9.06	9.98	WELL
163							DUG
8	WAYANAD	Pachilakkad	10.67	8.25	8.9	9.46	WELL
163							DUG
9	WAYANAD	Padinjarattara (R1)	8.95	6.95	6.63	8.31	WELL
164							DUG
0	WAYANAD	Pakkam		4.87	5.37	6.36	WELL
164							DUG
1	WAYANAD	Pallikunnu	9.88	7.1	8.21	8.82	WELL
164							DUG
2	WAYANAD	Panamaram	4.5	2.77	3.39	3.88	WELL
164			10.00	0.05	0.70		DUG
3	WAYANAD	Pattanikoopu	10.08	8.85	8.76	9.52	WELL
164		Deviluellum	10.75	11.0	42.07	13.3	DUG
4	WAYANAD	Perikallur	13.75	11.6	12.07	4	WELL
164		Donio	1.00	1.20	1 75	F 24	DUG WELL
5 164	WAYANAD	Perya	1.98	1.26	1.75	5.34	DUG
6	WAYANAD	Pookode1	3.65		2.23	2.52	WELL
164		TOOROGET	5.05		2.23	2.52	DUG
7	WAYANAD	Pozhutana	6.96	4.84	6.19	6.44	WELL
, 164	Within D	1 Ozhatana	0.50	+.04	0.15	0.44	DUG
8	WAYANAD	Pulpally	4.98	1.52	3.69	2.46	WELL
164							DUG
9	WAYANAD	Punchvayal		7	8.44	9.28	WELL
165		, ,				-	DUG
0	WAYANAD	Sulthan Battery	8.95	2.3	5.41	7.02	WELL
165		,					DUG
1	WAYANAD	TAlappuzha	2.18	0.54	1.66	1.45	WELL
165						10.0	DUG
2	WAYANAD	Taruvana	2.18	8.34	9.1	3	WELL
165							DUG
3	WAYANAD	Thetrode	12.96	12.9	12.1	12.8	WELL
165							DUG
4	WAYANAD	Thirunelly (R1)	5.94	2.48	4.3	4.9	WELL
165							DUG
5	WAYANAD	Tholpetty	10.21	10.43	10	10.7	WELL

SL.			APRIL	AUGUS	NOVEMB	JAN-	WELL
No	DISTRICT	LOCATION	17	T 17	ER -17	18	ТҮРЕ
165							DUG
6	WAYANAD	Thonichal	7.02	4.4	5.5	5.99	WELL
165							DUG
7	WAYANAD	Ullisseri	4.82	0.76	1.51	2.15	WELL
165							DUG
8	WAYANAD	Vaduvanchal	10.37	7.75	9.15	8.77	WELL
165							DUG
9	WAYANAD	Valad (R1)	10.95	5.7	9.95	10.4	WELL
166							DUG
0	WAYANAD	Vallathur	2.68	0.92	1.9	2.22	WELL
166							DUG
1	WAYANAD	Vallithodu (Periye)	7.72	7.58		7.68	WELL
166							DUG
2	WAYANAD	Valliyur kavu	1.56	0.04	1.09	1.77	WELL
166							DUG
3	WAYANAD	Varayal	4.36	4.01	4.23	4.19	WELL
166						10.8	DUG
4	WAYANAD	Vellamunda	6.6	4.14	4.66	2	WELL
166						14.5	DUG
5	WAYANAD	Vengapalli		13.21	13.51	2	WELL
166							DUG
6	WAYANAD	Vyittiri	6.78	5.6	7.03	7.32	WELL
166							BORE
7	WAYANAD	Kottathara	4.46	2.04	3.44	4	WELL
166							BORE
8	WAYANAD	Kuppadi(east)	20.55				WELL
166							BORE
9	WAYANAD	Pookode	2.33		0.72	2.25	WELL
167		Du ha ha sa f	2.00				BORE
0	WAYANAD	Pozhutana1	2.96	2.1	2.92	2.9	WELL
167		The field B	2.22	0.00			BORE
1	WAYANAD	Thavinjal Pz	2.23	0.89	2.9		WELL
167			1.00	0.20	0.00		BORE
2	WAYANAD	Valliyurkavu(e)	1.69	0.28	0.98	1.44	WELL
167			4 77	0.0	0.00	1 - 4	BORE
3	WAYANAD	Valliyurkavu(w)	1.77	0.3	0.96	1.51	WELL

ANALYSIS DATA OF WATER SAMPLES FROM GROUNDWATER MONITORING WELLS IN KERALA DURING APRIL 2017.

SL.NO	DISTRICTS	LOCATION	рН	EC in μs/cm at 25°C	TH as CaCO3	Са	Mg	Na	к	CO₃	HCO₃	SO₄	CI	F	NO ₃
						<		Co	onc. In	mg/L	>				
1	Alappuzha	Alappuzha	7.93	360	168	62	3.4	5.9	1	0	262	7.8	21	0.02	1.4
2	Alappuzha	Arukutti	7.68	240	96	35	1.9	9	2.1	0	78	18	13	0	2.2
3	Alappuzha	Chandirur	7.4	220	64	22	2.4	19	2.2	0	45	9.1	28	0.15	3.3
4	Alappuzha	Chettikulangara	7.41	159	52	18	1.9	12	0.65	0	56	14	16	0.13	1.5
5	Alappuzha	Edathuva	7.71	570	120	28	12	70	5.9	0	220	34	92	0.36	6.6
6	Alappuzha	Haripad	7.85	320	112	41	2.4	19	3.1	0	171	17	16	0.35	7.3
7	Alappuzha	Kallissery	7.68	109	32	8.8	2.4	8	2.1	0	32	6.5	7.1	0.25	8.8
8	Alappuzha	Kattanam	7.28	92	30	10	0.97	6	1.4	0	44	0.91	8.5	0.31	4.2
9	Alappuzha	Kattoor	7.49	173	76	26	2.4	3	1.8	0	115	2.3	14	0.15	3.4
10	Alappuzha	Kayamkulam	7.12	720	210	68	9.7	59	10	0	177	44	82	0.37	42
11	Alappuzha	Kudassanad	6.85	167	14	3.2	1.5	28	2.1	0	9.8	5.1	17	0.65	13
12	Alappuzha	Nedumudi	7.88	750	295	80	23	31	5.8	0	336	8.3	100	0.64	9.5
13	Alappuzha	Pallarimangalam	7.94	260	100	37	1.9	10	3.8	0	107	16	8.5	0.42	2
14	Alappuzha	Parumala	7.75	97	10	3.2	0.49	16	0.7	0	7.3	0.98	7.1	0.12	7.3
15	Alappuzha	Pattanakkad	7.96	660	260	80	15	30	2.2	0	336	5	53	0.32	4
16	Alappuzha	Pattiyur	7.98	770	200	52	17	53	32	0	183	80	110	0.36	30
17	Alappuzha	Purakkad	8.22	600	165	26	24	54	8	0	244	0.22	68	0.85	14
18	Alappuzha	Ramankari	7.74	710	170	34	21	82	3.1	0	152	7.9	135	0.29	4.1
19	Alappuzha	Taikattusseri	7.99	680	210	64	12	47	12	0	244	30	78	0.48	16
20	Alappuzha	Thevery	7.39	350	92	21	9.7	30	8	0	78	32	31	0.27	1.1
21	Alappuzha	Valavanad	7.26	280	84	29	2.9	18	7.1	0	88	18	17	0.37	11
22	Alappuzha	Venmani(Thazhakam)	6.76	188	28	7.2	2.4	26	3.4	0	9.8	4.6	24	0.02	23
23	Alappuzha	Taneermukkom	7.06	360	118	39	4.9	23	5.2	0	129	23	34	0.31	10
24	Ernakulam	Aikaranad	8.07	64	4	0.8	0.49	3	0.45	0	7.3	1	9.9	0.04	0.53
25	Ernakulam	Aluva	7.41	96	20	4.8	2	4.2	1.8	0	20	3	9.9	0.14	5.2
26	Ernakulam	Anchalpetty	6.16	93	14	4	0.97	4.6	0.6	0	9.8	7	13	0.04	3.4
27	Ernakulam	Angamali	7.12	240	64	19	3.9	20	4.6	0	46	18	45	0.14	23
28	Ernakulam	Chalakka	7.38	260	64	14	7.3	16	0.79	0	63	8.1	43	0.3	2
29	Ernakulam	Chellanam	7.65	2900	480	144	29	342	13	0	384	5.5	696	0.25	12
30	Ernakulam	Chengamanad	7.35	136	30	6.4	3.4	9.8	1.9	0	17	0	20	0.12	28

SL.NO	DISTRICTS	LOCATION	рН	EC in μs/cm at 25°C	TH as CaCO3	Ca	Mg	Na	к	CO₃	HCO₃	SO₄	CI	F	NO ₃
				ai 23 C		<		Co	onc. In	<mark>mg/L</mark>	>				
31	Ernakulam	Cherai	6.75	176	60	22	0.97	4.1	0.12	0	88	4.5	9.9	0.11	1.4
32	Ernakulam	Cheriyakadavu	7.61	2000	390	108	29	250	7.6	0	439	14	497	0.38	6.6
33	Ernakulam	Cherukadappuram	7.26	400	145	34	15	22	0.52	0	207	1.5	51	0.26	2.7
34	Ernakulam	Chowara	7.31	178	54	14	4.9	6.8	1.7	0	61	11	13	0.17	12
35	Ernakulam	Chulli	6.47	121	30	8	2.4	6.2	0.56	0	22	0	14	0.02	20
36	Ernakulam	Edapally	7.08	480	200	68	7.3	22	3.6	0	305	30	27	0.18	2.7
37	Ernakulam	Edavanakkad	6.88	330	120	42	3.7	15	2.5	0	171	20	28	0.24	3.2
38	Ernakulam	Elur North	6.92	1870	385	114	24	203	4.2	0	153	61	497	0.3	48
39	Ernakulam	Ernakulam South	7.87	1060	345	104	21	114	8.4	0	354	0	238	0.28	9
40	Ernakulam	Fort Cochin	7.61	300	100	34	3.4	18	2.6	0	159	20	24	0.12	0.57
41	Ernakulam	Irumbanam	8.02	1260	205	38	27	195	9.8	0	232	15	327	0.69	2.1
42	Ernakulam	Kaladi	6.76	74	20	4	2.4	2.8	0.68	0	27	0	7.1	0	2.4
43	Ernakulam	Kandakadavu	7.5	4200	520	112	58	746	6.4	0	561	32	1314	0.42	8.1
44	Ernakulam	Kanjur	7.42	220	78	28	2	8.4	3.8	0	112	0	20	0.07	28
45	Ernakulam	Karukutty	6.55	210	44	9.6	4.9	18	1.6	0	27	0	28	0.02	34
46	Ernakulam	Kottapadi	7.48	107	26	6.4	2.4	4.7	0.28	0	22	3	8.5	0.11	5.4
47	Ernakulam	Koothattukulam	7.59	260	74	20	5.8	17	7.4	0	61	9.9	31	0.13	41
48	Ernakulam	Kothamangalam	8.3	198	68	20	4.4	13	2.8	9.6	29	16	26	0.16	24
49	Ernakulam	Kottapuram	7.22	181	38	9.6	3.4	12	3	0	39	16	19	0.16	12
50	Ernakulam	Kumbalangi	8.21	540	205	66	9.7	32	11	0	354	0	57	0.32	3.9
51	Ernakulam	Kundannur	7.64	530	140	42	8.5	41	3	0	183	11	71	0.28	7
52	Ernakulam	Malayattur	6.78	114	30	6.4	3.4	5.3	2	0	34	6	11	0.02	8.2
53	Ernakulam	Malipuram	7.4	470	155	50	7.3	25	2	0	220	6.6	50	0.2	7.4
54	Ernakulam	Maradu	7.65	820	250	84	9.7	46	2.5	0	439	8	54	0.34	8.8
55	Ernakulam	Mulanthuruthi	7.51	99	18	5.6	0.97	5.1	0.76	0	20	1.5	11	0.07	5
56	Ernakulam	Munambam	6.95	320	115	40	3.7	11	1.2	0	183	11	16	0.24	3.1
57	Ernakulam	Muvattupuzha	7.86	180	62	17	4.9	5.7	4.3	0	39	36	11	0.12	8.8
58	Ernakulam	Nayarambalam	7.18	470	190	64	7.3	14	3.2	0	287	33	21	0.27	2.2
59	Ernakulam	Neriyamangalam	7.35	100	20	5.6	1.5	6.8	0.96	0	9.8	4	19	0.07	6.4
60	Ernakulam	Njarakkal	7.52	480	190	64	7.3	15	2.4	0	287	18	30	0.18	2.4

SL.NO	DISTRICTS	LOCATION	рН	EC in μs/cm at 25°C	TH as CaCO3	Ca	Mg	Na	к	CO₃	HCO ₃	SO₄	CI	F	NO ₃
						<		Co	onc. In	<mark>mg/L</mark>			>		
61	Ernakulam	North Paravur	6.92	340	135	44	6.1	12	2.7	0	207	9.5	20	0.27	5.3
62	Ernakulam	Palluruthy	7.52	710	240	80	9.7	38	8.2	0	214	25	57	0.18	149
63	Ernakulam	Parakadavu	7.15	220	52	11	5.8	11	4.7	0	42	11	43	0.23	3.4
64	Ernakulam	Paravur	6.74	183	44	14	2	4.5	1.1	0	56	7	11	0.11	8.2
65	Ernakulam	Perumbadavam	7.36	79	20	3.2	2.9	3.8	0.63	0	27	0	8.5	0.1	4.4
66	Ernakulam	Pothanikad	7.24	177	48	13	3.9	13	6.6	0	42	14	21	0.22	25
67	Ernakulam	Punithura	7.61	690	215	62	15	48	2.7	0	275	22	77	0.36	29
68	Ernakulam	Poothotta	7.4	350	106	37	3.4	23	2.4	0	116	26	37	0.2	3.3
69	Ernakulam	Trikkakkara	7.37	470	100	30	6.1	28	2	0	146	6.1	55	0.14	6.7
70	Ernakulam	Tripunithura	7.55	690	220	78	6.1	36	7.7	0	250	50	54	0.12	4.6
71	Ernakulam	Udayamperur	7.56	250	76	27	2	6	1.3	0	116	6	9.9	0.08	4.7
72	Ernakulam	Vallom	7.27	142	18	3.2	2.4	12	2.1	0	61	4	23	0.1	15
73	Ernakulam	Varapuzha	7	194	70	20	4.9	9.4	3.1	0	85	11	23	0.15	10
74	Ernakulam	Vazhakulam North	7.44	177	68	17	6.3	16	1.7	0	78	5.5	23	0.1	8.1
75	Ernakulam	Vypeen	7.65	1130	305	90	20	113	11	0	580	28	153	0.34	23
76	Ernakulam	Vyttila	7.78	167	40	12	2.4	16	3.6	0	61	5.5	36	0.07	1.8
77	ldukki	Adimali	4.74	210	28	8.8	1.5	17	4	0	2.4	4.3	31	0	30
78	ldukki	Chinikuzhi	7.1	129	32	8	2.9	8.7	3.1	0	46	1.9	16	0	1.2
79	ldukki	Chittur	7.16	66	16	4	1.5	5	1.5	0	24	0	9.9	0.08	1.8
80	ldukki	Elapara	6.25	185	42	12	2.9	16	4.2	0	32	2.4	31	0	18
81	ldukki	Irratayar	6.79	540	72	16	7.8	66	7	0	22	2.4	110	0.25	77
82	ldukki	Idukki	6.5	116	20	4.8	1.9	8.9	1.9	0	34	1.5	9.9	0	3.6
83	ldukki	Kaliyar	7.1	260	62	17	4.9	20	6.8	0	39	15	37	0.12	31
84	ldukki	Karimkunnam	6.62	350	84	26	4.9	25	8	0	54	7.8	55	0.12	36
85	ldukki	Kattapana	6	410	60	15	5.4	40	13	0	12	15	58	0.23	86
86	ldukki	Koilkadavu	6.81	390	90	24	7.3	35	5.1	0	122	15	37	0.32	15
87	ldukki	Kumaramangalam	6.91	125	18	6.4	0.49	8.9	1.9	0	15	1.8	13	0.16	14
88	ldukki	Kumili	6.95	390	132	37	9.7	25	5.7	0	188	21	33	0.67	12
89	ldukki	Kuttikanam	6.2	143	24	7.2	1.5	7.1	4.3	0	20	0	17	0.15	11
90	ldukki	Moolamattom	6.9	131	34	9.6	2.4	7.9	3	0	34	3.8	11	0.01	14

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				at 25 0		<		Co	onc. In	mg/L			>	1	
91	ldukki	Munnar	5.93	115	16	5.6	0.49	9.8	4.5	0	20	0	20	0.23	3.6
92	ldukki	Nedumkandam	7.05	600	205	54	17	36	10	0	274	19	71	0.19	20
93	ldukki	Poopara	6.63	560	120	30	11	46	13	0	73	14	75	0.24	84
94	ldukki	Vandanmedu	6.09	155	18	4	1.9	10	6.6	0	22	0	14	0.02	18
95	ldukki	Vandiperiyar	6.31	560	95	22	9.7	44	31	0	55	21	85	0.33	91
96	ldukki	Vellilamkandam	5.7	131	16	4	1.5	10	1.5	0	15	0.67	18	0.1	5.3
97	Kannur	Alavil	6.65	111	18	4.8	1.5	7	1.1	0	12	6	16	0.12	1.9
98	Kannur	Kannur	7.25	340	98	31	4.9	18	7.1	0	37	48	36	0.33	32
99	Kannur	Chalad	6.42	340	60	18	3.4	26	9.6	0	7.3	15	53	0.09	58
100	Kannur	Chakkarakkallu	7.14	210	28	6.4	2.9	17	3.2	0	4.9	0	38	0.25	18
101	Kannur	Chepparapadavu	6.8	87	26	5.6	2.9	5	1.1	0	32	0	9.9	0	4
102	Kannur	Cheleri	7.19	51	6	0.8	0.97	2	0.9	0	4.9	0	7.1	0	0.37
103	Kannur	Dharmadam	6.9	159	40	13	1.9	11	1.3	0	37	2.3	23	0.11	4.7
104	Kannur	Edakkad	7.32	200	54	18	2.4	12	1.1	0	44	20	21	0.16	0.75
105	Kannur	Ettikulam	6.56	155	20	4.8	1.9	3	0.9	0	20	0	9.9	0.18	3.2
106	Kannur	Kannapuram	7.36	310	104	37	2.9	19	2.3	0	100	11	43	0.19	0.87
107	Kannur	Kannavam	7.45	115	22	5.6	1.9	6	0.4	0	27	0	9	0.24	4.9
108	Kannur	Kannur-Thana	7.47	210	40	12	2.4	12	1.9	0	24	10	24	0.05	13
109	Kannur	Koothuparamba	7.08	350	89	20	8.8	12	5.8	0	12	2.9	44	0.2	71
110	Kannur	Kottiyur	7.35	137	32	8	2.9	6	0.4	0	39	0	9	0	4.9
111	Kannur	Kotty	7.19	430	214	73	7.8	7	1.9	0	220	30	17	0.18	5.4
112	Kannur	Kozhichal	7.22	86	24	4.8	2.9	2.8	0.4	0	32	0	4.3	0.34	0.75
113	Kannur	Kunnaru	7.34	800	235	50	27	70	4.4	0	250	45	107	0.19	4.3
114	Kannur	Mahe	7.88	350	86	13	13	32	10	0	134	12	43	0.15	1.3
115	Kannur	Mattannur	7.74	149	22	4	2.9	4.5	3.5	0	4.9	0	20	0.25	19
116	Kannur	Melechovva	7.39	95	28	7.2	2.4	2	0.45	0	27	0.9	9	0.18	0.89
117	Kannur	Mokeri	7.59	188	38	7.2	4.8	15	1.5	0	41	0	24	0.24	16
118	Kannur	Muzhakkunnu	7.01	270	52	14	4.4	12	2.1	0	59	2.9	24	0	6.7
119	Kannur	Neruvambram	7.58	180	62	22	1.5	1.3	0.3	0	54	2	7.1	0.22	13
120	Kannur	Payyannur	6.91	240	50	17	1.9	9	3.9	0	12	10	30	0.15	25

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				ai 23 C		<		Co	onc. In	mg/L			>	r	
121	Kannur	Pazhayangadi	7.67	270	110	34	6.3	4	2.5	0	107	8	21	0.25	3.4
122	Kannur	Peringome	7.01	230	54	18	2.4	14	3.5	0	49	15	28	0.11	4
123	Kannur	Ramanthali	7.19	70	6	0.8	0.97	3	0.5	0	4.9	0	8.5	0	2.4
124	Kannur	Sreekandapuram	6.82	210	50	13	4.4	18	1.5	0	15	9.8	31	0.16	41
125	Kannur	Taliparamba	7.6	320	68	19	4.9	10	9.7	0	54	6.5	30	0.24	28
126	Kannur	Thalassery	7.56	460	146	53	3.4	23	9	0	134	23	38	0.16	42
127	Kannur	Thazhechovva	7.27	350	54	12	5.8	21	3.1	0	34	13	40	0.18	19
128	Kannur	Ullikkal	7.49	126	16	4.8	0.97	44	0.8	0	20	0.5	7.1	0.12	3
129	Kannur	Valapattanam	7.16	270	54	15	3.9	24	4.9	0	15	17	52	0	19
130	Kasaragod	Angadimogar	6.24	97	20	5.6	1.5	5.6	0.6	0	24	2.1	9.9	0	0.73
131	Kasaragod	Bandadukka	6.37	91	34	13	0.49	1.8	0.8	0	37	4	5.7	0.09	0.74
132	Kasaragod	Bekal	3.76	270	40	8	4.9	28	2.9	0	0	0.29	48	0.03	54
133	Kasaragod	Chamundikunnu	7.61	220	90	18	11	14	0.6	0	105	8.6	23	0.1	3.7
134	Kasaragod	Chayangode	7.25	270	88	33	1.5	18	1.4	0	93	36	9.9	0.34	8.3
135	Kasaragod	Chittarikkal	7.54	240	106	15	16	8	0.4	0	139	2.5	8.5	0.02	0
136	Kasaragod	Elambachi	7.21	144	48	18	0.97	12	5.3	0	41	1.8	30	0	15
137	Kasaragod	Kanhangad Coast	7.46	210	76	29	0.97	10	1.2	0	80	9.4	17	0.27	4.2
138	Kasaragod	Kanhangad Town	6.83	133	20	4.8	1.9	10	4.6	0	2.4	0.58	26	0.03	21
139	Kasaragod	Kasaragod	7.24	220	42	12	2.9	16	2.2	0	4.9	8.1	41	0.1	20
140	Kasaragod	Kumbla	7.58	240	96	23	9.2	9	2.6	0	122	4.3	13	0.2	3.2
141	Kasaragod	Manjeshwar	7.55	230	26	7.2	1.9	22	4.4	0	12	1.7	50	0.14	10
142	Kasaragod	Meleparamba	7.17	210	42	10	3.9	12	9	0	17	3.6	37	0.23	30
143	Kasaragod	Mogaral	7.3	56	14	4	0.97	3.2	1.9	0	9.8	2.9	9.9	0.14	2.7
144	Kasaragod	Mogaral Puthur	7.46	172	60	12	7.3	8	6.2	0	71	3.4	20	0.11	6.3
145	Kasaragod	Mulleriya	7.3	185	36	9.6	2.9	7.6	5.4	0	17	1.2	24	0.09	26
146	Kasaragod	Nileshwar	7.2	143	40	14	1.5	7	0.9	0	32	1.9	21	0.09	4.7
147	Kasaragod	Odayanchal	7.16	89	26	7.2	1.9	4	1.2	0	27	1.4	11	0.07	3.9
148	Kasaragod	Paivalke	7.16	122	22	7.2	0.97	12	1.9	0	29	1.3	20	0	4.3
149	Kasaragod	Panathur	7.05	172	34	7.2	3.9	15	2.3	0	17	0.38	40	0.05	6.9
150	Kasaragod	Parappa North	6.74	160	30	7.2	2.9	18	1.2	0	37	0.48	31	0.08	2.2

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				al 25 C		<		Co	onc. In	mg/L			>		
151	Kasaragod	Perla	6.88	151	36	13	0.97	10	1.3	0	29	2.2	21	0	12
152	Kasaragod	Poinachi	6.86	60	14	3.2	1.5	6	1	0	9.8	0.77	11	0.09	4.9
153	Kasaragod	Povval	6.94	161	44	15	1.5	12	1.5	0	39	0.58	18	0.11	22
154	Kasaragod	Pullur	7	71	18	4.8	1.5	4.9	1.7	0	24	0.38	8.5	0	0.53
155	Kasaragod	Thrikkarippur	6.88	70	16	4.8	0.97	5	0.8	0	7.3	4.7	11	0.01	4.6
156	Kasaragod	Udinur	7.38	84	24	7.2	1.5	4.1	1.4	0	22	0	9.9	0.03	7.6
157	Kasaragod	Uppala	7.4	184	60	20	2.4	13	1.6	0	85	3.5	16	0.3	8.1
158	Kollam	Achenkovil	7.03	188	40	10	3.4	11	6	0	71	8.2	24	0.07	7.5
159	Kollam	Akkal	7.12	114	14	2.4	2	11	1.9	0	29	0	11	0.07	12
160	Kollam	Anchalummoodu	3.29	270	28	6.4	2.9	23	3.1	0	0	0	47	0.26	65
161	Kollam	Avaneeswaram	5.88	114	14	4	0.97	8.9	1.6	0	27	0	16	0.1	5.7
162	Kollam	Ayathil	7.22	110	10	3.2	0.49	9	2.4	0	2.4	1.5	17	0.04	22
163	Kollam	Ayoor	6.14	73	10	1.6	1.5	5.7	1.5	0	32	0	4.3	0.1	6.5
164	Kollam	Chenkulam	6.7	106	10	3.2	0.49	13	0.76	0	22	0	14	0.56	9.9
165	Kollam	Iravipuram	7.78	500	120	40	4.9	46	5.4	0	146	38	60	0.07	22
166	Kollam	Kadapuzha	7.55	183	42	9.6	4.4	13	0.82	0	63	13	17	0.06	1.5
167	Kollam	Kudavettur	7.13	320	70	25	2	32	1.2	0	90	4	53	0.06	24
168	Kollam	Karunagapally	7.9	450	205	70	7.3	30	5.7	0	220	44	64	0.08	23
169	Kollam	Kottarakkara	7.59	260	56	15	4.4	17	2.5	0	85	13	31	0.1	4.6
170	Kollam	Kulathupuzha	4.18	260	12	2.4	1.5	30	4.1	0	0	traces	44	0.1	50
171	Kollam	Kunnada	6.54	94	6	1.6	0.49	8	1.8	0	22	0	13	0	6.4
172	Kollam	Madathara	6.74	153	30	10	0.97	12	1.8	0	39	9	20	0.08	9.2
173	Kollam	Mayyanadu	3.8	3300	460	112	44	335	54	0	0	34	625	0.3	697
174	Kollam	Paripalli	6.84	74	8	3.2	traces	4.9	1.3	0	15	5	9.9	0.1	7.5
175	Kollam	Perinad	6.81	128	8	2.4	0.49	17	0.46	0	9.8	1.5	31	0.1	6.2
176	Kollam	Pozhikkara	7	310	68	15	7.3	30	2.1	0	63	21	54	0.18	7.8
177	Kollam	Punalur	7.08	250	64	21	2.9	11	4.1	0	85	1.5	27	0.22	23
178	Kollam	Sasthamkotta	7.17	147	12	4.8	traces	18	1	0	4.9	4	28	0.07	12
179	Kollam	Sooranadu	5.72	135	10	2.4	0.97	15	1.3	0	traces	0.55	28	0.04	24
180	Kollam	Thenmala	8.21	54	2	0.8	traces	4.7	0.69	0	15	0.55	11	0.15	1.7

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				at 25 0		<		Co	onc. In	<mark>mg/L</mark>			>		
181	Kollam	Thevalakkara	7.63	162	34	10	2	8.7	0.84	0	34	5.5	19	0.05	5.6
182	Kollam	Ummannur	7.56	220	48	15	2.4	16	4	0	83	1.5	26	0.05	12
183	Kollam	Vadakkumthala West	7.24	450	70	20	4.9	54	2.9	0	43	60	85	0.04	7.4
184	Kollam	Vallikavu	8.42	260	70	24	2.4	20	0.66	18	43	10	34	0	4.2
185	Kollam	Yeroor	7.91	430	80	20	7.3	55	2.4	0	195	11	45	0.22	12
186	Kottayam	Anandasram	6.99	180	56	20	1.5	10	4.8	0	88	0	13	0	2.8
187	Kottayam	Ayamkudi	5.9	60	12	4	0.49	5.1	1.3	0	12	0	9.9	0.13	3.6
188	Kottayam	Brahmamangalam	6.24	83	16	4	1.5	6.9	1.2	0	24	1.9	7.1	0.27	3
189	Kottayam	Changanassery	6.75	630	105	30	7.3	-	-	0	43	47	110	0	49
190	Kottayam	Chempu	6.59	220	70	23	2.9	11	5.1	0	105	2.5	13	0	1.1
191	Kottayam	Chengulam	440	144	45	7.8	45	4.9	0	183	48	34	0.06	8.2	61
192	Kottayam	Cheruthikkara	95	18	4	1.9	7.5	2.2	0	17	2.2	11	0	9.6	18
193	Kottayam	Chungam	260	52	12	5.4	15	2.1	0	90	1.4	11	0.21	1.8	8.3
194	Kottayam	Edinjillam	440	74	23	3.9	39	3.5	0	34	23	48	0.05	61	3.8
195	Kottayam	Erumeli	74	20	5.6	1.5	-	-	0	15	0	5.7	0	18	29
196	Kottayam	Ettumannoor	5.98	90	14	4.8	0.49	8	4.5	0	17	0	16	0	8.3
197	Kottayam	Kallara	6.1	62	18	4.8	1.5	3.9	2.5	0	20	3.1	7.1	0.11	3.8
198	Kottayam	Kottayam	6.5	240	58	18	2.9	14	5.9	0	15	14	38	0	29
199	Kottayam	Kozha	5.64	125	24	5.6	2.4	6.5	3.5	0	12	0	14	0	24
200	Kottayam	Kudavechur	8.08	350	120	43	2.9	38	3.9	0	201	9	28	0.17	2.5
201	Kottayam	Kumarakom	8.04	580	216	74	7.3	-	-	0	256	0	129	0	4.4
202	Kottayam	Kurichi	7.1	139	26	8	1.5	10	2.9	0	20	2.2	17	0	17
203	Kottayam	Kuttikkal	5.9	104	14	4	1	-	-	0	17	0	11	0	9.4
204	Kottayam	Mannanam	6.32	1110	195	50	17	138	10	0	18	67	313	0.07	4.6
205	Kottayam	Naranganam	5.2	53	12	2.4	1.5	2.3	0.9	0	12	0.76	7.6	0	5.1
206	Kottayam	Neendur	4.84	93	20	6.4	0.97	7	0.5	0	2.4	10	9.9	0.02	15
207	Kottayam	Paipad	4.94	270	44	14	2.4	12	14	0	7.3	8	37	0	50
208	Kottayam	Pala	6.75	110	28	8	1.9	8	2.5	0	41	2.4	9.9	0.01	4.3
209	Kottayam	Palamkadavu	6.55	390	82	17	9.7	39	12	0	124	0.65	64	0.08	6.2
210	Kottayam	Pallikathodu	6.02	121	28	5.6	3.4	8	0.5	0	41	0.43	8.5	0	6.2

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				at 25 C		<		Co	onc. In	mg/L			>	r	
211	Kottayam	Pallom(Nattagam)	6.2	90	16	4	1.5	7	2.5	0	9.8	0	14	0	13
212	Kottayam	Pambadi	5.92	71	20	4.8	1.9	4	1.5	0	24	0.65	8.5	0	3.4
213	Kottayam	Paruthumpara	6.02	143	20	4	2.4	16	1.5	0	22	0.33	24	0.02	13
214	Kottayam	Plakkalpadi	5.63	170	24	5.6	2.4	18	1.2	0	17	0.54	28	0	17
215	Kottayam	Pulikuttisseri	6.63	200	56	18	2.9	9	4.5	0	88	0	9.9	0.02	1.8
216	Kottayam	Talayolaparambu	260	60	15	5.4	20	3.5	0	49	17	37	0	4.9	4.9
217	Kottayam	Tazhatangadi	350	108	33	6.3	29	7.1	0	139	17	38	0	4.4	4.4
218	Kottayam	Tiruvarpu	470	98	28	6.8	55	3.1	0	116	31	71	0.19	2.5	2.5
219	Kottayam	Tottakkad	97	20	4.8	1.9	7.8	0.8	0	29	0.1	8.5	0	6.9	6.9
220	Kottayam	Thottakam	230	92	31	3.4	16	2.7	0	132	8.7	11	0.08	2.4	2.4
221	Kottayam	Udayanapuram	7.05	250	92	32	2.9	17	5.1	0	110	17	18	0.26	11
222	Kottayam	Vaikom	7.93	730	270	88	12	77	13	0	415	19	78	0.24	3.7
223	Kottayam	Vazhur	7.42	122	22	4.8	2.4	5.5	1	0	34	0.32	5.7	0	3.5
224	Kottayam	Vechur	7.24	240	88	29	3.9	17	2.5	0	129	7.7	14	0.16	1.9
225	Kottayam	Velloor II	6.37	520	140	22	20	47	4.5	0	117	7.7	100	0	11
226	Kozhikode	Badagara	7	410	102	32	5.4	26	10	0	61	25	51	0.07	48
227	Kozhikode	Balusseri	6.91	220	32	8.8	2.4	20	4.9	0	15	1.2	38	0.11	28
228	Kozhikode	Beypore	7.3	460	102	30	6.3	50	2.8	0	67	76	44	0.24	30
229	Kozhikode	Kozhikode Beach	8.09	690	280	94	11	42	8.2	0	287	18	53	0.21	83
230	Kozhikode	Chaliyam	7.93	520	190	54	13	45	5.7	0	220	31	53	0.32	22
231	Kozhikode	Chelavur	7.15	240	14	3.2	1.5	34	2.5	0	12	1.7	34	0.09	49
232	Kozhikode	Chemencheri	7	310	76	27	1.9	19	3.5	0	37	25	44	0.29	37
233	Kozhikode	Devarkoil	6.8	210	40	10	3.4	18	2.5	0	9.8	8.4	33	0.02	32
234	Kozhikode	Elattur	6.64	230	70	22	3.4	15	0.5	0	34	22	30	0.12	24
235	Kozhikode	Farooq	6.68	340	74	22	4.9	16	10	0	56	16	28	0.12	40
236	Kozhikode	Kallai	7.32	620	205	68	8.5	100	18	0	171	39	53	0.37	86
237	Kozhikode	Kakkayam	6.56	55	12	3.2	0.97	7	1.6	0	24	1.6	8.5	0.07	2
238	Kozhikode	Kannankara	7.17	250	48	15	2.4	16	1.1	0	56	2.9	24	0.07	8.2
239	Kozhikode	Karaparambu	7.23	250	86	27	4.4	21	1	0	105	19	20	0.01	2.4
240	Kozhikode	Kayapanachi	6.71	410	136	30	15	30	2.2	0	85	28	75	0.23	1.7

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241	Kozhikode	Koduvalli	7.1	105	30	7.2	2.9	12	1.6	0	66	0	7.1	0.15	2.6
242	Kozhikode	Koothali	6.42	74	16	3.2	1.9	4	2.9	0	7.3	0.4	9.9	0.11	13
243	Kozhikode	Kozhikode	6.42	220	52	17	2.4	21	2.6	0	41	5.4	34	0.03	23
244	Kozhikode	Mavoor II	6.71	103	14	4	0.97	7	5.4	0	17	1.9	16	0.11	5.8
245	Kozhikode	Modern Bazaar	6.58	182	32	8	2.9	17	1.1	0	24	9.8	28	0.24	5
246	Kozhikode	Mukkali	6.46	137	20	6.4	0.97	12	5.6	0	12	8.4	23	0.02	14
247	Kozhikode	Nadapuram	6.84	181	44	13	2.9	16	4.1	0	54	4.3	24	0	13
248	Kozhikode	Orkattery	7.49	330	104	31	6.3	29	3	0	140	23	28	0.29	2.1
249	Kozhikode	Perambra	6.84	106	26	8	1.5	10	2.5	0	37	0.9	13	0.3	9.6
250	Kozhikode	Pudukayam	6.88	64	20	4.8	1.9	5.4	0.6	0	27	0	7.1	0.06	4.4
251	Kozhikode	Pudupadi	5.88	105	16	4	1.5	8	2.2	0	12	0	18	0	9.1
252	Kozhikode	Quilandy	6.81	520	160	58	3.6	42	5.3	0	134	24	57	0.21	66
253	Kozhikode	Ramanattukara	8.15	1040	150	18	26	192	3.3	0	390	84	121	0.83	12
254	Kozhikode	Thamarasseri	7.54	186	48	11	4.9	10	2.7	0	61	0	17	0.39	7.7
255	Kozhikode	Thiruvallur	6.92	131	28	9.6	0.97	8	2.4	0	27	0	14	0	16
256	Kozhikode	Tikkodi	4.35	131	18	4	1.9	3	5.9	0	0	0	21	0.08	18
257	Malappuram	Amminikkad	6.87	107	36	7.2	4.4	9	1.1	0	56	0	8.5	0.37	2.8
258	Malappuram	Arikode	7.15	240	64	18	4.4	16	2.3	0	56	5.6	31	0	19
259	Malappuram	Chamravattam	7.33	161	48	12	4.4	13	1.5	0	80	1.7	13	0.24	0.74
260	Malappuram	Chokkad	6.97	410	116	27	12	46	4.5	0	195	2.9	44	0.18	14
261	Malappuram	Chungathara	8.23	1160	370	74	45	100	9.9	54	293	54	153	0.49	63
262	Malappuram	Edappal	7.45	220	38	6.4	5.4	6.5	0.5	0	32	0	14	0	16
263	Malappuram	Edavanna	7.4	164	36	8	3.9	9	1.8	0	44	0	17	0.06	13
264	Malappuram	Iswaramangalam	8.26	820	190	32	27	120	5.5	48	281	2.4	114	0.58	15
265	Malappuram	Kadalundi	7.67	940	295	84	21	79	2.8	0	232	132	103	0.35	3.1
266	Malappuram	Kalikavu	6.06	380	60	14	5.8	25	3.2	0	15	1.5	44	0.03	65
267	Malappuram	Kanjiramukku	6.97	330	46	15	1.9	37	2.7	0	63	12	52	0.11	2
268	Malappuram	Kariavattom	7.3	190	44	10	4.4	17	3.4	0	73	0.94	23	0.24	2.5
269	Malappuram	Karulai	6.87	360	112	22	14	34	3.7	0	161	8.5	31	0.18	18
270	Malappuram	Kondotty	7.02	198	36	7.2	4.4	16	0.4	0	22	1.4	30	0.12	18

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271	Malappuram	Kottakkal	7.26	470	76	21	5.8	47	10	0	85	0.83	88	0.33	21
272	Malappuram	Kuruva	7.36	148	32	8.8	2.4	9	1.8	0	49	0.83	7.1	0	11
273	Malappuram	Kuttipuram	7.2	650	135	26	17	66	9	0	140	18	100	0.48	46
274	Malappuram	Malappuram	7.59	230	54	12	5.8	13	3	0	78	1	17	0.08	11
275	Malappuram	Mangalam	7	650	150	42	11	45	11	0	37	87	60	0.39	98
276	Malappuram	Manjeri	6.92	1090	200	56	15	104	16	0	134	38	206	0.33	58
277	Malappuram	Marancheri	7.09	127	24	7.2	1.5	5.6	1.4	0	9.8	2.7	18	0	13
278	Malappuram	Maruda	6.7	270	66	16	6.3	20	1.3	0	90	0.21	21	0.02	22
279	Malappuram	Melattur	6.65	250	58	14	5.4	27	0.9	0	80	0	34	0	12
280	Malappuram	Nilambur	6.78	210	30	6.4	3.4	21	2.4	0	12	0	36	0	28
281	Malappuram	Parrappanangadi	7.02	590	175	60	6.1	40	15	0	140	44	64	0	62
282	Malappuram	Perumpadappu	6.87	310	38	13	1.5	28	8.3	0	7.3	18	40	1.35	34
283	Malappuram	Ponnani	8.04	2200	500	156	27	235	15	0	293	60	551	0.08	6.4
284	Malappuram	Pulamanthol	7.07	580	75	16	8.5	37	11	0	43	6.7	78	0.17	42
285	Malappuram	Tanur	7.27	380	58	17	3.9	31	5.4	0	43	5	61	0	21
286	Malappuram	Thavannur	6.9	220	78	25	3.9	17	2.1	0	117	1.7	13	0.06	13
287	Malappuram	Thuvur	6.62	177	30	6.4	3.4	9	1.8	0	20	0	17	0.01	22
288	Malappuram	Tirunavaya	7.74	440	148	34	16	40	1.4	0	207	16	36	0.22	15
289	Malappuram	Tirur	6.37	340	38	11	2.4	28	1.3	0	7.3	5.3	50	0	30
290	Malappuram	Valancheri	6.81	510	95	20	11	48	1.5	0	37	1.2	110	0.05	26
291	Malappuram	Vazhikadavu	6.89	420	128	30	13	37	1.3	0	156	13	44	0.05	15
292	Malappuram	Vylattur	6.89	280	44	11	3.9	34	1.7	0	85	1.5	37	0.13	8.8
293	Palakkad	Agali	7.19	960	355	102	24	56	3.7	0	396	14	103	0.85	3.6
294	Palakkad	Alanallur	7.21	189	34	8	3.4	16	4.5	0	37	7	26	0.23	6.2
295	Palakkad	Alathur	7.64	1010	405	88	45	45	2.9	0	256	48	178	0.61	4
296	Palakkad	Chalisseri	7.33	183	30	7.2	2.9	16	3.1	0	20	0	28	0.42	21
297	Palakkad	Chavadiyur	7.48	810	340	44	56	46	2.5	0	439	17	28	1.09	37
298	Palakkad	Chemmampathi(Near by well)	8.07	1100	395	94	39	82	10	0	445	12	142	0.68	54
299	Palakkad	Kalladikode	7.52	192	14	3.2	1.5	15	4.1	0	12	0	28	0.33	14
300	Palakkad	Kanjikode	7.8	1300	330	88	27	102	67	0	458	57	185	0.32	34

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301	Palakkad	Karimpuzha	7.6	159	20	5.6	1.5	18	2.6	0	66	2	7.1	0.4	2
302	Palakkad	Kodavayur	7.11	330	78	14	11	29	2.6	0	102	27	26	1.02	3
303	Palakkad	Kollengode i	8.04	1380	255	28	45	187	10	0	348	108	234	1.27	2.1
304	Palakkad	Kollengode ii	8.06	810	245	20	47	40	9.7	0	274	49	71	0.61	2.8
305	Palakkad	Koppam	7.07	280	62	14	6.3	20	3	0	29	2	41	0.31	44
306	Palakkad	Kuzhalmannam	7.88	740	195	32	28	59	5.4	0	171	56	96	0.77	12
307	Palakkad	Mankara	6.9	340	80	17	9.2	23	3.6	0	80	15	44	0.35	3.8
308	Palakkad	Mannarghat	7.62	510	150	42	11	37	11	0	152	17	75	0.33	19
309	Palakkad	Meenakshipuram	7.75	810	235	44	30	43	10	0	244	32	71	0.1	48
310	Palakkad	Mundur	7.73	290	80	17	9.2	16	2.8	0	100	2.2	23	0.25	5.8
311	Palakkad	Nemmara	7.7	550	150	32	17	39	8	0	128	24	82	0.45	19
312	Palakkad	Ottapalam	7.25	400	58	14	5.4	49	1.7	0	68	0	74	0.34	17
313	Palakkad	Palakkad	7.6	760	250	42	35	50	2.2	0	244	37	78	0.95	24
314	Palakkad	Pattambi	7.3	320	76	19	6.8	23	5	0	54	17	45	0.41	21
315	Palakkad	Pudunagaram	7.76	950	285	66	29	80	15	0	397	27	107	0.78	9
316	Palakkad	Shornur	7.08	189	52	13	4.9	8	3.2	0	61	2.2	18	0.4	4.3
317	Palakkad	Tavalam	7.82	360	136	29	16	18	0.9	0	132	0	36	0.31	26
318	Palakkad	Trittala	7.93	570	230	50	26	32	3.5	0	226	31	68	0.39	1.2
319	Palakkad	Vadakkancherry	7.88	710	230	50	26	47	3.5	0	189	28	89	0.18	45
320	Pathnamthitta	Angadikkal North	6.98	114	12	3.2	0.97	4	1	0	15	0	8.5	0.31	4.7
321	Pathnamthitta	Aranmula	6.81	250	90	17	12	15	1	0	68	11	30	0.22	19
322	Pathnamthitta	Enathu	7.24	660	155	40	13	61	20	0	92	75	113	0.64	43
323	Pathnamthitta	Kaviyur	7.46	46	4	0.8	0.49	6	1.7	0	4.9	0	13	0.08	4
324	Pathnamthitta	Konni	6.72	410	98	19	13	30	6.1	0	9.8	3.6	86	0.16	55
325	Pathnamthitta	Kootanadu	6.93	196	30	8	2.4	19	5	0	24	3.6	18	0.18	18
326	Pathnamthitta	Mallapally	5.84	164	10	3.2	0.49	13	1.4	0	4.9	0	21	0	12
327	Pathnamthitta	Muthoor	6.34	230	40	14	1.5	28	1.7	0	17	21	31	0.05	36
328	Pathnamthitta	Naduvathumuzhi	7.43	95	24	4	3.4	3	1.3	0	29	0	5.7	0	4.5
329	Pathnamthitta	Nilakkal	7.05	112	22	5.6	1.9	13	1.4	0	9.8	0	27	0	12
330	Pathnamthitta	Pandalam	7.07	81	20	2.4	3.4	7	1	0	24	0	11	0	4.5

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331	Pathnamthitta	Pathanamthitta	8	168	60	18	3.9	13	4.9	0	54	20	21	0	7.1
332	Pathnamthitta	Peringara	7.73	210	80	18	8.3	16	0.8	0	95	5.9	23	0.37	1.1
333	Pathnamthitta	Pulikeezh	7.6	210	108	34	5.8	4.9	0.9	0	117	12	8.5	0.23	0.42
334	Pathnamthitta	Thelliyur	7.44	122	32	8	2.9	6	1.5	0	44	0	7.1	0.16	5.3
335	Pathnamthitta	Vadasserikkara	7.22	115	48	16	1.9	1	1.7	0	44	3	7.1	0	6.4
336	Thiruvananthapuram	Attingal	7.32	230	48	17	1.5	18	1.2	0	63	1	34	0.18	25
337	Thiruvananthapuram	Azhoor	7.17	250	26	5.6	2.9	29	2.2	0	15	2	55	0.08	21
338	Thiruvananthapuram	Balaramapuram	5.03	970	190	36	24	94	18	0	traces	0	206	0.32	220
339	Thiruvananthapuram	Cherunniyoor	6.5	420	90	20	9.7	27	8.1	0	7.3	1.5	78	0.36	91
340	Thiruvananthapuram	Chirayinkeezh	5.4	360	35	4	6.1	46	1.1	0	7.3	0	96	0.14	31
341	Thiruvananthapuram	Chittagodu	7.08	380	55	12	6.1	42	5.5	0	49	8.5	78	0.24	28
342	Thiruvananthapuram	Kadakkavur	7	600	140	36	12	48	3	0	61	34	107	0.21	68
343	Thiruvananthapuram	Kallar	7.4	101	12	3.2	0.97	5.7	1.2	0	24	0	17	0.22	2.3
344	Thiruvananthapuram	Kallikkad	7.2	200	16	3.2	2	21	5.1	0	17	14	31	0.16	13
345	Thiruvananthapuram	Kappil	6.99	250	66	21	3.4	14	2.1	0	59	19	37	0.16	8.1
346	Thiruvananthapuram	Kattakada	5.78	380	55	14	4.9	33	7.3	0	7.3	1.6	85	0.2	35
347	Thiruvananthapuram	Kazhakuttam	7.72	530	160	52	7.3	39	3.5	0	205	49	57	0.2	4.8
348	Thiruvananthapuram	Kulathur	7	113	18	4.8	1.5	9.8	1.5	0	34	0	19	0.14	1.4
349	Thiruvananthapuram	Mannanthala	7	290	24	4	3.4	37	4.2	0	15	0	61	0.2	35
350	Thiruvananthapuram	Nagapuram	7.24	147	16	3.2	2	16	1	0	27	0	27	0.16	6.3
351	Thiruvananthapuram	Navaikulam	7.17	240	34	9.6 2.4		25	2.1	0	39	8.5	45	0.14	21
352	Thiruvananthapuram	Nedumangad	6.18	240	28	5.6	3.4	25	3.9	0	42	2.5	47	0.1	9
353	Thiruvananthapuram	Neyyattinkara	7.27	290	26	5.6	2.9	24	2.2	0	7.3	0	37	0.21	45
354	Thiruvananthapuram	Palayamkunnu	7.31	164	38	12	2	12	0.86	0	66	6	16	0.2	5.7
355	Thiruvananthapuram	Palode	6.94	250	28	7.2	2.4	23	4.5	0	44	6.5	41	0.24	19
356	Thiruvananthapuram	Pangode	7.38	310	35	4	6.1	33	5.1	0	12	0	64	0.17	59
357	Thiruvananthapuram	Parandod	7.15	220	18	3.2	2.4	18	4.1	0	7.3	2	40	0.24	18
358	Thiruvananthapuram	Perumathura	8.2	760	255	88	8.5	55	5.9	0	317	43	98	0.24	42
359	Thiruvananthapuram	Perumkuzhi	6.36	600	140	36	12	40	5.5	0	31	40	68	0	150
360	Thiruvananthapuram	Perungulam	6.74	183	20	4	2.4	14	2	0	7.3	2.5	27	0.1	27

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361	Thiruvananthapuram	Pothencode	7	200	20	3.2	2.9	22	3	0	15	0	36	0.23	38
362	Thiruvananthapuram	Poovar (School)	6.95	540	70	12	9.7	78	2.3	0	18	3	114	0.16	85
363	Thiruvananthapuram	Pozhiyoor	7.91	2000	300	52	41	315	21	0	378	230	355	0.38	14
364	Thiruvananthapuram	Poonthura	7.27	780	225	68	13	53	4.7	0	165	36	89	0.21	107
365	Thiruvananthapuram	Pudukurichi	7.69	1190	265	72	21	124	8.8	0	268	46	234	0.24	116
366	Thiruvananthapuram	Sasthavattom	7.38	270	44	8	5.8	17	3	0	78	10	30	0.22	4.7
367	Thiruvananthapuram	Thumba	7.09	290	66	21	3.4	18	3.5	0	54	21	38	0.1	28
368	Thiruvananthapuram	Vamanapuram	7.49	390	95	32	3.7	22	4	0	134	0	53	0.2	11
369	Thiruvananthapuram	Varkala	6.75	270	56	16	3.9	22	2	0	39	7.6	55	0.12	12
370	Thiruvananthapuram	Vellarada	6.69	1080	120	34	8.5	137	17	0	110	49	270	0.2	55
371	Thiruvananthapuram	Vidura	7	181	24	4.8	2.9	16	1.6	0	22	12	28	0.12	25
372	Thrissur	Adatt	6.2	260	26	6.4	2.4	21	3.5	0	17	0	36	0	23
373	Thrissur	Akalad	7.31	150	48	16	1.9	12	3.1	0	51	13	17	0.18	4.7
374	Thrissur	Annamanada	5.99	240	26	7.2	1.9	28	2.7	0	15	1.3	45	0	25
375	Thrissur	Azhikode	6.85	510	125	38	7.3	52	13	0	171	7.7	64	0.17	45
376	Thrissur	Chalakudy	5.99	114	22	4	2.9	8	1.9	0	15	0	13	0.08	16
377	Thrissur	Chammannur	6.77	270	44	13	2.9	29	2.3	0	20	0	71	0.17	2.2
378	Thrissur	Chavakkad	6.62	260	70	22	3.9	25	1.4	0	88	20	30	0.09	0.79
379	Thrissur	Chelakkara	7.17	430	158	30	20	46	4.8	0	250	15	41	0.74	4.3
380	Thrissur	Cherpu	6.76	178	22	8	0.49	12	3.9	0	46	1	14	0.13	5.6
381	Thrissur	Cheruthuruthi	7.3	640	280	68	27	60	6.9	0	409	26	43	0.39	3.6
382	Thrissur	Chowwannur	7.25	240	86	17	11	23	3.5	0	139	9.2	14	0.32	0.46
383	Thrissur	Edamuttam	7.39	310	126	46	2.4	35	2.4	0	207	9.3	24	0.21	3.9
384	Thrissur	Echipara	6.32	140	40	11	2.9	10	1.3	0	34	25	8.5	0.03	4
385	Thrissur	Edanthrinji	7.43	270	66	21	3.4	19	1.2	0	117	2.7	11	0.25	3.1
386	Thrissur	Engandiyur	7.13	290	108	36	4.4	27	2.5	0	156	10	18	0.17	16
387	Thrissur	Eriyad	7.19	310	88	27	4.9	27	3.2	0	128	9	33	0.16	2.1
388	Thrissur	Guruvayur	6.82	250	66	18	4.9	35	2.1	0	112	4.5	34	0.19	14
389	Thrissur	Irinjalakuda	6.68	149	40	14	1.5	7	3.8	0	49	8.9	13	0.11	2.6
390	Thrissur	Kallumpuram	7.02	196	40	9.6	3.9	17	3.7	0	37	15	26	0.19	11

SL.NO	DISTRICTS	LOCATION	рН	EC in μs/cm at 25°C	TH as CaCO3	Ca	Mg	Na	к	CO₃	HCO ₃	SO₄	СІ	F	NO ₃
				al 25 C		<		Cc	onc. In	mg/L			>		
391	Thrissur	Kallur	6.39	140	26	6.4	2.4	11	5.4	0	34	2.2	21	0	8.1
392	Thrissur	Karikkad	7.2	270	108	22	13	23	3.4	0	166	10	16	0.23	3.5
393	Thrissur	Karuppadana	7.37	560	80	14	11	92	8.9	0	159	31	103	0.41	1.1
394	Thrissur	Kattoor	6.95	150	28	8	1.9	9	3.4	0	39	2.1	17	0	4.3
395	Thrissur	Keechery	6.31	330	68	14	8.3	22	8.1	0	17	0	55	0.09	67
396	Thrissur	Kodungallur	7.26	960	295	98	12	109	20	0	373	60	128	0.15	61
397	Thrissur	Kottapadi	7	1070	325	84	28	130	19	0	488	23	160	0.4	17
398	Thrissur	Kundannur	7.48	990	360	66	47	73	4	0	409	47	110	0.61	1.5
399	Thrissur	Logamalleswaram	7.26	360	96	31	4.4	20	9.4	0	128	14	28	0.25	9.2
400	Thrissur	Mala	6.3	149	28	7.2	2.4	8.1	6.6	0	24	11	16	0.04	9
401	Thrissur	Manalur	7.12	90	8	2.4	0.49	7.2	0.8	0	17	0.96	8.5	0.01	1.4
402	Thrissur	Manamangalam	6.36	71	12	3.2	0.97	7.2	1.8	0	29	2.2	5.7	0.13	3.3
403	Thrissur	Mapranam	6.49	91	18	4.8	1.5	5	1.8	0	24	0	8.5	0.03	4.1
404	Thrissur	Mathilakam	7.4	440	114	38	4.9	29	20	0	110	24	48	0.02	53
405	Thrissur	Methalapadam	7.25	440	156	55	4.4	37	2.2	0	238	17	24	0.16	2.2
406	Thrissur	Mulankunnathukavu	7.08	370	54	14	4.4	17	13	0	59	17	28	0.13	28
407	Thrissur	Mullassery	7.13	280	78	27	2.4	27	2.9	0	110	20	24	0.39	3.3
408	Thrissur	Mupiliyam	5.95	174	32	5.6	4.4	10	4.9	0	12	0	26	0.06	29
409	Thrissur	Muriyad	6.29	250	40	8.8	4.4	27	1.5	0	32	3.4	54	0.07	3.3
410	Thrissur	Nattika	6.83	300	86	30	2.9	27	3.6	0	137	11	24	0.01	2
411	Thrissur	Padakulam	7.86	480	146	53	3.4	20	21	0	183	5.7	39	0.03	42
412	Thrissur	Palayamthuruthu	7.44	570	185	36	23	60	5.3	0	281	0	71	0.34	5.2
413	Thrissur	Parappur	6.72	144	18	5.6	0.97	14	2.8	0	41	0	14	0.24	9.7
414	Thrissur	Parapukara	6.18	194	42	10	3.4	20	2.3	0	59	13	21	0.05	6.7
415	Thrissur	Pattikkad	6.63	149	54	11	6.3	16	0.9	0	90	3.8	8.5	0.43	7.2
416	Thrissur	Pavaratty	7.08	210	78	25	3.9	17	1.4	0	124	7.6	9.9	0.23	1.4
417	Thrissur	Pazhinji(Kattakampala)	7	200	28	8	1.9	10	14	0	24	0.11	34	0	20
418	Thrissur	Pazhuvil	6.93	194	42	14	1.5	10	9	0	51	1.6	21	0.08	12
419	Thrissur	Perinjanam	7.53	800	250	82	11	28	1.3	0	201	36	82	0.16	0.86
420	Thrissur	Роууа	5.89	97	16	6.4	0	10	1.1	0	15	0.2	16	0	14

SL.NO	DISTRICTS	LOCATION	рН	EC in µs/cm	TH as CaCO3	Ca	Mg	Na	к	CO₃	HCO₃	SO₄	CI	F	NO ₃
				at 25°C	<>										
421	Thrissur	Punnayoor	7.29	111	34	12	0.97	5	1.7	0	63	0.85	4.3	0.19	1.2
422	Thrissur	Puthanchira	6.74	170	32	9.6	1.9	8	1.3	0	37	3.2	14	0.13	9.5
423	Thrissur	Orumanayur	7.22	630	215	72	8.5	65	5.1	0	220	6.8	132	0.21	6
424	Thrissur	Tekkumkara	6.69	79	12	3.2	0.97	7	1.9	0	20	0	9.9	0.02	3.7
425	Thrissur	Thrissur	6.46	146	34	11	1.5	13	1.1	0	34	13	17	0	4.4
426	Thrissur	Triprayar	7.36	380	116	41	3.4	22	20	0	115	30	50	0	32
427	Thrissur	Vadanapally	7.37	290	112	38	3.9	28	3.7	0	173	8.6	18	0.09	6.4
428	Wayanad	Ambalavayal	7.23	220	34	10	1.9	17	1.4	0	27	3.2	26	0.25	23
429	Wayanad	Chenad	7.05	159	46	12	3.9	14	1.2	0	63	0	16	0.19	12
430	Wayanad	Kalpetta	7.36	410	110	33	6.8	37	16	0	189	21	30	0.52	17
431	Wayanad	Kamblakat	7.26	200	46	11	4.4	17	1.5	0	54	0	13	0.24	40
432	Wayanad	Koroth	7.27	89	20	6.4	0.97	4.7	1.3	0	27	0	8.5	0.12	5
433	Wayanad	Mananthody	7.43	390	114	31	8.8	32	14	0	140	30	34	0.03	41
434	Wayanad	Minangadi	8.52	360	84	24	5.8	29	1.7	30	43	15	28	0	24
435	Wayanad	Muthanga	7.55	570	185	54	12	63	2.8	0	262	15	71	0	2.9
436	Wayanad	Noolpuzha	7.57	172	56	9.6	7.8	17	2.1	0	110	1.5	8.5	0	0.49
437	Wayanad	Padinjarattara	7.17	300	66	18	5.4	25	1.5	0	37	7.7	27	0	64
438	Wayanad	Perikallur	7.6	540	155	38	15	60	1.6	0	195	16	68	0	29
439	Wayanad	Pulpally(new well)	7.67	760	285	52	38	72	1.6	0	336	36	92	0	10
440	Wayanad	Sulthan Bathery	7.71	550	125	28	13	61	2.9	0	171	38	57	0	13
441	Wayanad	Tirunelly	7.6	270	80	26	3.9	18	2	0	134	3.2	9.9	0	4.3
442	Wayanad	Vaduvanchal	7.46	230	56	16	3.9	10	5	0	44	0.23	21	0	41
443	Wayanad	Valatt	7.43	73	16	5.6	0.49	6	0.4	0	27	1.7	5.7	0	2.3
444	Wayanad	Vyttiri	-	159	34	8.8	2.9	13	4.1	-	-	1.8	17	0.23	8.9