

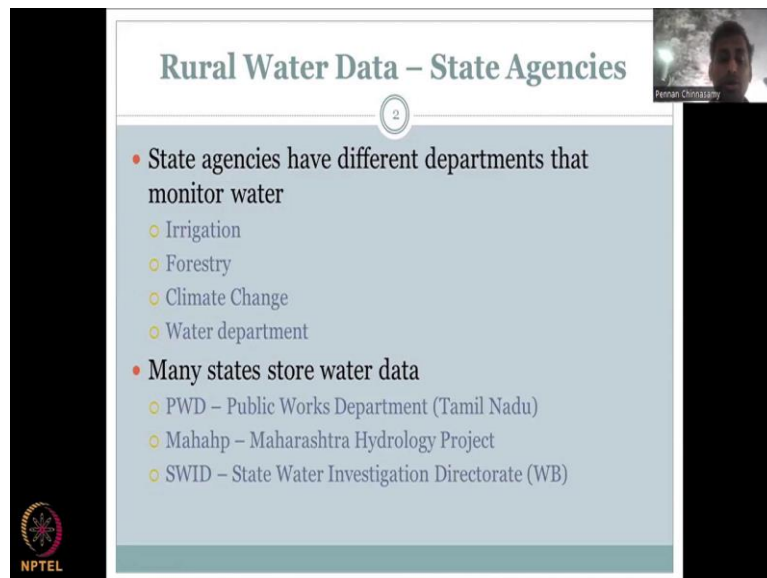
Rural water Resources Management
Professor Pennan Chinnasamy
Centre of Technology Alternatives for Rural Areas
Indian Institute of Technology, Bombay
Lecture 52

Solving Case Studies in Rural Water Resource Management Part 2

Hello everyone, welcome to NPTEL course on Rural Water Resource Management. This is week 11, lecture 2. In this weeks lecture, we have been looking at data for Rural Water Resource Management. And while we discuss the initial part of the course, I have already mentioned that there is lot of data issues, and that is why we have seen different agencies and different resources for data. What we found out in the last lecture is there are publications and NGO's where you can mine the data, which means you have to read them, understand the data that they have used, the methodologies and you can take the data.

There are two types of data mining one is you take the data from which they took the data, and the second part is where you have their results coming into your work as data. For example, if they give you a rainfall estimate and runoff, online you could get runoff like discharge from the government data and also other data sources. However, you can also get the result from these papers as your data. Now, let us go on further and look at the other sources of data.

(Refer Slide Time: 01:52)



Rural Water Data – State Agencies

2

- State agencies have different departments that monitor water
 - Irrigation
 - Forestry
 - Climate Change
 - Water department
- Many states store water data
 - PWD – Public Works Department (Tamil Nadu)
 - Mahahp – Maharashtra Hydrology Project
 - SWID – State Water Investigation Directorate (WB)

Rural Water Data – State Agencies

2

- State agencies have different departments that monitor water
 - Irrigation
 - Forestry
 - Climate Change
 - Water department
- Many states store water data
 - PWD – Public Works Department (Tamil Nadu)
 - Maharashtra Hydrology Project
 - State Water Investigation Directorate (WB)

Example?

NPTEL

While an introduction for data, I mentioned that there are both NGO's and publications reports as knowledge products and there is physical data, these are the two types. In the physical data, you do have state agencies and that is what we will be focusing on today. So, state agencies have different departments that monitor water.

Every state the terminologies might be different, but it is your duty to find which is the state agency that monitors the data? Some of the examples are given below, you have the irrigation department, the forestry department, climate change, water department, because for irrigation water is the major input because irrigation means application of water from other resources not your rainfall, irrigation.

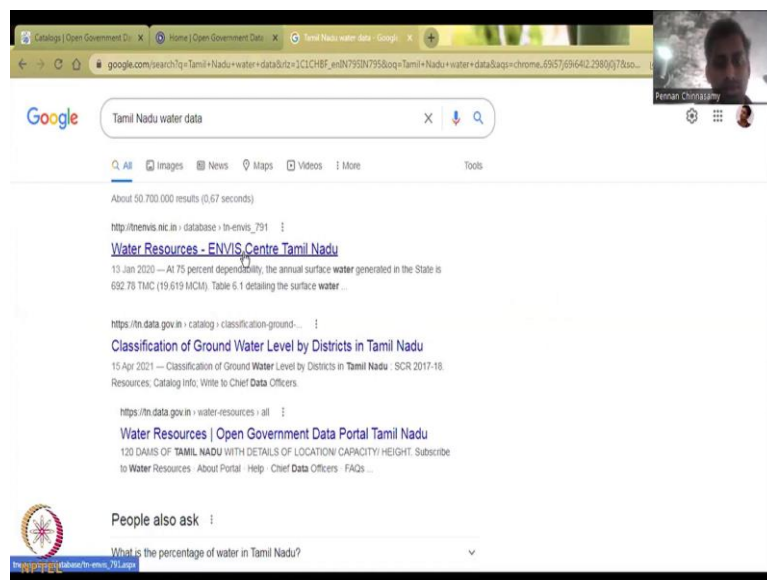
And then you have your forestry departments, and then you have the forestry because it has lot of water structures and or land use land cover, which can help in assessing the water budgets, the climate change department, the weather department and water department. The weather is IMD where you get rainfall data and humidity data, temperature data to estimate your different parameters. Whereas, your water department has more data on the actual water like discharge, surface runoff, groundwater, those kinds of things.

So, there are some examples for these databases. Some examples are PWD, which is the Public Works Department from the state of Tamil Nadu. Then you have the MAHAHP which is the Maha Hydrological Project or Maharashtra Hydrologic Project. And then you have SWID which is the State Water Investigation Directorate of West Bengal. The second one is for sure it is Maharashtra.

So, you will see that certain states will collect data based on their need, and the budgets are allocated similarly. So, it is on the mandate of each of these states to collect water and manage water sustainably. So, please understand that these are important aspects for groundwater management and other water management in the rural setting and the data comes from multiple platforms. The state agencies have their own rules and regulations for monitoring, which is may not be the same for the central government. However, you do have other resources and activities that can be part of it.

Each of these agencies has a considerable amount of budget, manpower, and officials. In fact, some of these agencies are guided by IAS officers, where they have a lot of experience on the field in working with these systems. And sometimes it is led by the state collectorate or state officers who are like IAS carriers. So, moving on, we will have an example of a state agency and see how data is collected.

(Refer Slide Time: 06:00)



The screenshot shows the tn.data.gov website interface. The search bar contains the word 'water'. Below the search bar, there are filters for 'Filter By Source' and 'Filter By Ministry/Department'. The search results display 'Displaying 1 - 9 of 109 Catalog(s)'. The first result is 'Households By Source Of Drinking Water And Its Location, Census 2001 - India And States', which includes details about the data source and statistics like 'Views (778)', 'Downloads (162)', and 'Last Updated (23/08/2016)'. The second result is 'Statistical Hand Book 2015 - Rural Water Supply'.

Rural Water Data – State Agencies

2

- State agencies have different departments that monitor water
 - Irrigation
 - Forestry
 - Climate Change
 - Water department
- Many states store water data
 - PWD – Public Works Department (Tamil Nadu)
 - Mahahp – Maharashtra Hydrology Project
 - SWID – State Water Investigation Directorate (WB)

The screenshot shows a browser security warning page. At the top, there is a warning icon (an exclamation mark inside a triangle) and the text: 'The connection to tnemis.nic.in is not secure'. Below this, it says: 'You are seeing this warning because this site does not support HTTPS. Learn more'. At the bottom, there are two buttons: 'Continue to site' and 'Go back'. The browser's address bar shows the URL 'tnemis.nic.in/database/tn-emis_791.aspx'.

So, the one state agency I would go in and check is the TN data.gov.in and you could see that the central database is the same. So, you will not have different databases in different websites that was initially done, but nowadays, all these databases are stored in one repository. So, it is your duty to go and search for these data in Google and find it.

Why I am asking you to search through a search engine is because there is a possibility that sometimes the links change for which you need to keep updating yourself. For example, a WRIS website I said, initially it was a different website and now it has changed. So, it is up to the user to always keep updated on the data portals.

I will go through this website and then showcase some of the data so that you could find the data sets, etc. There are also multiple agencies and websites such as the India Water Portal, which also store these kinds of data and sometimes you have to pay for it. Even state agencies they would require some funds for example, the PWD I mentioned in Tamil Nadu if you are using it for research and academics, you could go through the head of the institution or your professor, write a letter and you could get to these agencies, state agencies and try to see if they give the data for free. Otherwise, it is not as expensive as the other data. So, you can still buy it but however I request you to please try to find if it is low cost, if it is high cost please go through your academic institutions. If you do not have an academic institution, then you can go talk to them why you want to use the data.

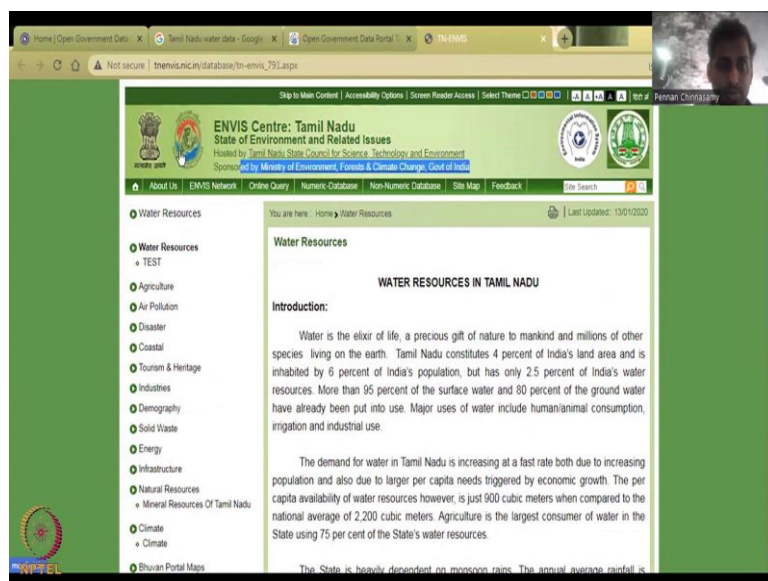
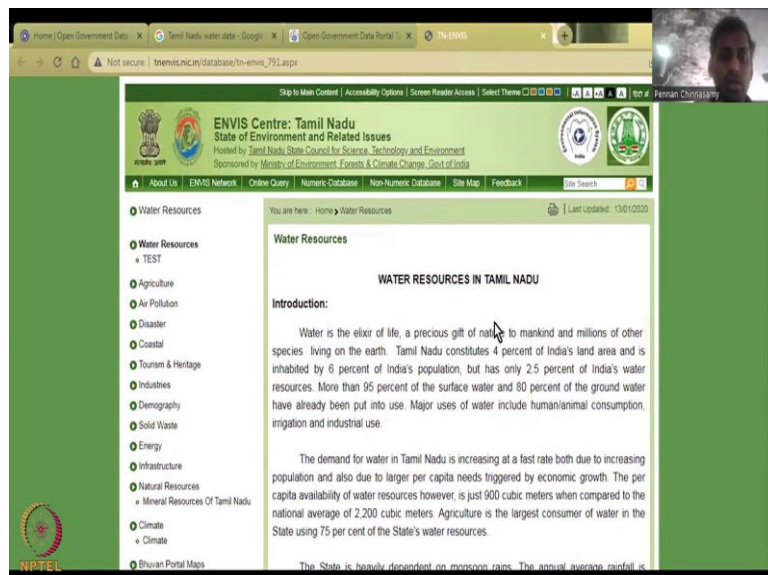
For example, the village development plans, master plans if you want to work on your own village for water access, etc, then the price will be definitely different. These agencies are normally kept in the capital of the state. For example, the PWD offices are in Chennai, the MAHAHP projects are in Mumbai and the SWID is in Kolkata. So, please try to see if you have access to these locations. If not, please try to see if you could meet them, normally emails will not work, you will have to go physically and talk to them. So, go physically talk to them on why you need this data write a good letter, why you need this data, what are you going to use it for and specifically what data from what range?

For example, if you have a boundary, watershed boundary, you can ask this is the boundary, if it is a village name, you can put it as a village name. So, that is a village extent you want and clearly mention that these are the data I will need for these many days. For example, you say groundwater data; I would need it from 2000 to 2022. Only some agencies have put it on the WRIS website, which is the Indian government website, most of the other agencies have not added these data online. So, please do not say that all the data is not available. It could be

there, but you need to go and visit these agencies and find it. Not all are online because of sensitivity issues, cost in hosting them online. They do not keep the data, but they do share the data.

Let us take an example, Tamil Nadu government data I am going to go now. So, what do you see here is just a normal Google account, I have opened just a Google web page, I want to say Tamil Nadu water data. So, what you see is TN ENVIS center, which is a data portal for the Tamil Nadu government, sometimes they get these warnings, you can just click on it. And the other catalog I mentioned is the tn dot gov dot in. So, once you click the tn dot gov dot in, this web page will come. It is little bit slow; sometimes it just needs some time.

(Refer Slide Time: 11:40)



Groundwater Board, there has been a general decline in groundwater level in 2003 due to the complete desaturation of shallow aquifers. There has been a considerable failure of irrigation wells in Coimbatore District.

Details of water resources of Tamil Nadu in District wise

Sl. No	Name of the district	Sl. No	Name of the district
1.	Arvalur	17.	Ramanathapuram
2.	Coimbatore	18.	Salem
3.	Cuddalore	19.	Sivagangai
4.	Dharmapuri	20.	Thanjavur
5.	Dindigul	21.	Therai
6.	Erode	22.	Thiruvannar
7.	Kancheepuram	23.	Thiruvallur
8.	Kanniyakumari	24.	Thoothukudi
9.	Kanur	25.	Tiruchirappalli
10.	Krishnagiri	26.	Tirunelveli
11.	Madurai	27.	Tiruppur
12.	Nagapattinam	28.	Tiruvannamalai
13.	Namakkal	29.	Vellore
14.	Nilgiri	30.	Villupuram
15.	Perambalur	31.	Virudhunagar
16.	Pudukkottai		

River basins of Tamil Nadu and Water Potential

Figure : River Basins of Tamil Nadu

Other Rivers in Tamil Nadu:

To name a few more south Indian rivers serving the inhabitants of the state are given below.

- Addapar River, Adyar River, Agaram Aru River, Antharwarar River
- Aiyaru River, Aluthakanniar River, Arasalar River, Arichandanathi River
- Atjuna River, Bambar River, Coonoor River, Gadananathi River
- Gingee River, Goddar River, Gomukhi River, Hanumannathi River
- Jambunathi River, Kaattar River, Kabini River, Kallar River
- Kamandala River, Karicottan River, Karuniar River, Karuppanathi River

See here, the Tamil Nadu ENVIS, which is your environmental kind of department, hosted by the Tamil Nadu State Council for Science, Technology and Environment, supported by the ministry of environment, forests and climate change government of India. So, you can clearly see that there is a state agency, which is the Tamil Nadu State Council, and it is supported by the central government, so that is where the India logo and the Tamil Nadu logo.

Environmental Information System, which is this and you could see here, come down and see what are the different datas that is available, details of what resources that say, I would like to see Coimbatore, and then the river basins and other data, the maps, all these things you can find. So, sometimes these websites are not possible to open because sometimes they are not working. So, if you have these kinds of issues, do not worry about it, you can also go to the tamil nadu dot gov dot in. I am just going to keep it up, so that the other websites can open.

(Refer Slide Time: 12:53)

tn.data.gov.in

Home Catalogs Events Suggestions Community Visualization

Search

TAMIL NADU ON COVID-19 VACCINATION

35,049 RESOURCES IN 3,872 CATALOGS BY 68 DEPARTMENTS ARE DOWNLOADED 449,839 TIMES

Catalogs

NOMINATED CHIEF DATA OFFICERS

Google

Tamil Nadu water data

Classification of Ground Water Level by Districts in Tamil Nadu
15 Apr 2021 — Classification of Ground Water Level by Districts in Tamil Nadu. SCR 2017-18. Resources, Catalog Info. Write to Chief Data Officers.

People also search for

- tamil nadu water resources
- groundwater level in tamilnadu 2021
- tamil nadu water resources department
- groundwater level in tamilnadu 2020
- water resources in tamil nadu pdf
- water in tamil nadu

People also ask

- What is the percentage of water in Tamil Nadu?
- Is a major source of water for Tamil Nadu?
- Is there any water in Tamil Nadu?

tn.data.gov.in

Home Catalogs Events Suggestions Community Visualization

Water Resources / Water Resources

Details of Dams in Tamil Nadu
120 DAMS OF TAMIL NADU WITH DETAILS OF LOCATION/ CAPACITY/ HEIGHT

OPEN DATA IMPLEMENTATION GUIDELINES

CONTROLLED VOCABULARY SERVICES

SUGGEST OR ENDORSE DATASETS & APPS

RECENT SUGGESTIONS

Your Name: _____ Your E-mail Address: _____

Feedback: _____

tn.data.gov

Home Catalogs Events Suggestions Community Visualization

Catalogs

Filter By Source

Filter By Ministry/Department

Ministry of Agriculture and Farmers Welfare (9)

Department of Agriculture and Farmers Welfare (9)

Ministry of Consumer Affairs, Food and Public Distribution (1)

Department of Food and Public Distribution (1)

Food Corporation of India (FCI) (1)

Search Catalogs

water

Most Recent Exact match Search

COVID-19: Statistics Of Tamil Nadu As On 28/03/2022 (Source: Media Bulletin Dated 28.03.2022)

Tamil Nadu, Health and Family Welfare Department, Public Health and Preventive Medicine

Source: tn.data.gov

Details of Statistics showing the Positive, Active, Discharged, Death Cases of COVID 19 and OMICRON and Bed vacancy Details in Tamil Nadu as on 28.03.2022

Datasets (9) Visual Access (NA) API (NA)

Views (78) Downloads (4) Last Updated (29/03/2022)

COVID-19: Statistics Of Tamil Nadu As On 27/03/2022 (Source: Media Bulletin Dated 27.03.2022)

Tamil Nadu, Health and Family Welfare Department, Public Health and Preventive Medicine

Suggest a Dataset

tn.data.gov

Home Catalogs Events Suggestions Community Visualization

Catalogs

Filter By Source

Filter By Ministry/Department

Ministry of Environment, Forest and Climate Change (4)

Central Pollution Control Board (4)

Ministry of Home Affairs (12)

Department of Home (12)

Registrar General and Census Commissioner, India (12)

NITI Aayog (1)

Search Catalogs

water

Relevance Exact match Search

Searched item: water Clear All Filters

Displaying 1 - 9 of 109 Catalog(s)

Households By Source Of Drinking Water And Its Location, Census 2001 - India And States

Ministry of Home Affairs, Department of Home, Registrar General and Census Commissioner, India

Source: data.gov

The catalog contains data related to households by source of drinking water and its location, census 2001 - India and States. It includes data on Drinking Water, Drinking Water Source, Source of Drinking Water, Drink... < Show more >

Datasets (97) Visual Access (97) API (97)

Views (779) Downloads (162) Last Updated (23/09/2016)

Statistical Hand Book 2015 : Rural Water Supply

Tamil Nadu, Planning, Development and Special Initiatives Department, Department of Economics and

Suggest a Dataset

tn.data.gov

Home Catalogs Events Suggestions Community Visualization

Catalogs

Filter By Source

Filter By Ministry/Department

Population Enumerator (9)

Water and Sanitation (2)

Drinking Water (2)

Sanitation (1)

Education (1)

Elementary (1)

Secondary (1)

Environment and Forest (4)

Water Quality (4)

Search Catalogs

Statistical Hand Book 2019 : Rural Water Supply

Tamil Nadu, Planning, Development and Special Initiatives Department, Department of Economics and Statistics

Source: tn.data.gov

Details showing the Status of Drinking Water in Rural Habitations, Rural Water Supply and Urban Water Supply Performances in Tamil Nadu 2019

Datasets (4) Visual Access (NA) API (NA)

Views (97) Downloads (42) Last Updated (20/10/2020)

Households By Source And Location Of Drinking Water And Availability Of Electricity And Latrine, Census 2001 - India And States

Ministry of Home Affairs, Department of Home, Registrar General and Census Commissioner, India

Source: data.gov

The catalog contains data related to households by source and location of drinking water and availability of electricity and latrine, census 2001 - India and States. It includes data on Drinking Water, Source of Drink... < Show more >

Datasets (97) Visual Access (NA) API (NA)

Views (1047) Downloads (152) Last Updated (23/09/2016)

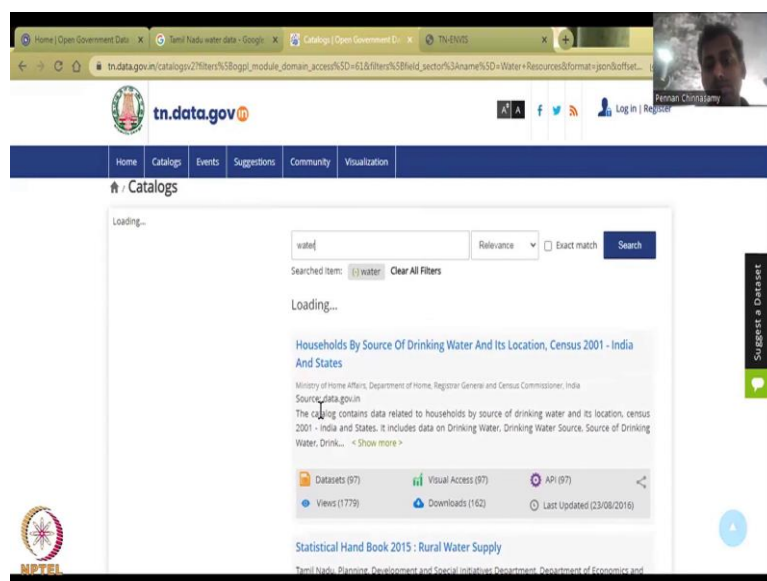
Suggest a Dataset

And then here, you can go catalogs, tamilnadu dot data dot gov dot in, which you saw here, so tamilnadu dot gov dot in, and this is a second resource, water resources. So, you have these resources, and this Tamil Nadu government came, and details of dams in Tamil Nadu can be there. So, all you have to do is click Open Data Implementation, I will show it again, in the website, you can just open data. See, this is not the same for all state website.

So, please understand that I cannot show all the different states in India and their watershed, the water data, it is because that would be lecture by so on, so every week, I have to take one state. So, you would just go here and find where it says data, there sometimes will be a search box that we move my screen to see there is no search box, but you can click the open data. So, which I have clicked and then catalogs.

So, I click catalog and this has opened, there is a guideline and then there is a catalog. So, in the catalog, I am going to just type water. When I type water, there are multiple subdivisions for it. So, it is coming in the Ministry of Environment forests and climate change as I said that the ministry is from the central government. You can do it by source, you can do it by state government, Tamil Nadu, and you have the municipal administration of water, Chennai water, then municipal department of economics and statistics. You can filter by sector which is census population drinking water sanitation, environmental factors, water quality, water resources, groundwater, etc.

(Refer Slide Time: 14:46)



tn.data.gov

Home Catalogs Events Suggestions Community Visualization

Catalogs

Filter By Source: water

Filter By State/Department: Tamil Nadu (1)

Filter By Sector: Water and Sanitation (1)

Search Catalogs: water

Searched item: water, Ground Water

Displaying 1 - 1 of 1 Catalog(s)

Water Bodies Under Corporation/Municipal And Other Areas In Tamil Nadu

Tamil Nadu, Municipal Administration and Water Supply Department, Commissionerate of Municipal Administration (CMA)

Source: data.gov.in

The data refers to number of Tank, Ponds and Ooranis by Corporation/Municipalities and Others in Tamil Nadu. It further provide details on the entities which are controlling such water bodies such as Municipality / Corp...

Datasets (1) Visual Access (1) API (1)

Views (7295) Downloads (1125) Last Updated (05/08/2019)

tn.data.gov

Home Catalogs Events Suggestions Community Visualization

Catalogs

Filter By Source: Search Catalogs

Filter By State/Department: Tamil Nadu (2)

Filter By Sector: Public Works Department (1)

Search Catalogs: Ground Water

Searched item: Ground Water

Displaying 1 - 2 of 2 Catalog(s)

Region-Wise Details Of Tanks In Tamil Nadu

Tamil Nadu, Public Works Department, Institute of Water Studies, PWD

Source: tn.data.gov.in

Region-wise Details of Tanks in Tamil Nadu

Datasets (4) Visual Access (3) API (3)

Views (1554) Downloads (261) Last Updated (19/07/2019)

Water Bodies Under Corporation/Municipal And Other Areas In Tamil Nadu

Tamil Nadu, Municipal Administration and Water Supply Department, Commissionerate of Municipal Administration (CMA)

Source: data.gov.in

The data refers to number of Tank, Ponds and Ooranis by Corporation/Municipalities and Others in

tn.data.gov

Home Catalogs Events Suggestions Community Visualization

Catalogs / Region-wise Details of Tanks in Tamil Nadu

4 Resource(s) found

Resources: Title Format -Any- 5 Apply

Details of Tanks in Trichy Region, Tamil Nadu

CSV

Visualize Data API: Data API

Download: 158

File Size: 230.54 KB

Frequency: Annual

Granularity: NA

Reference URL: NA

Source: tn.data.gov.in

EXPORT IN: XML JSON ISO/IEC XLS ODS

Chief Data Officer

Name: S. Prabhu

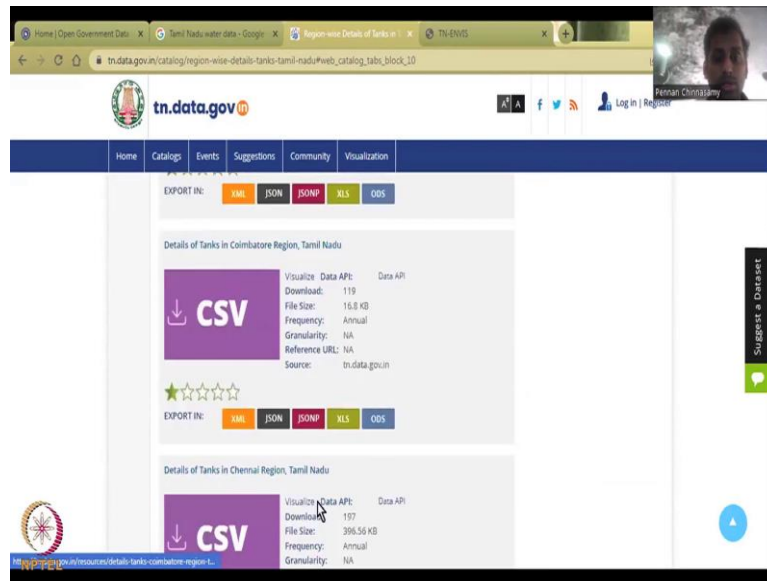
Designation: Joint Director (Geology)

Ministry/State/Department: Tamil Nadu, Public Works Department, Institute of Water Studies, PWD

Phone: +91 44 22541246

Email: ceword[at]mail[dot]com

Address: D/O Chief Engineer &...



Let us click the water resources and your water bodies in municipal and Corporation areas in Tamil Nadu which is very important the WRIS is may not have all the water bodies mapped. You can do the groundwater water bodies have you done so I am just clicking the ground water to see if it is the same thing. So, you can take this out and you can see regional wise details of tanks in Tamil Nadu. See these tanks we have already seen in the class how important they are and if you would like to see how these tanks behave and model it in your system, do water budget is very important to understand these things.

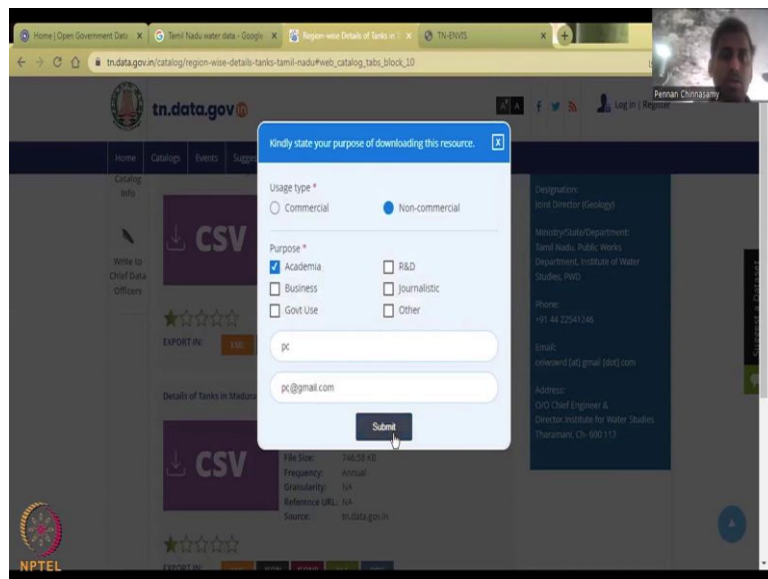
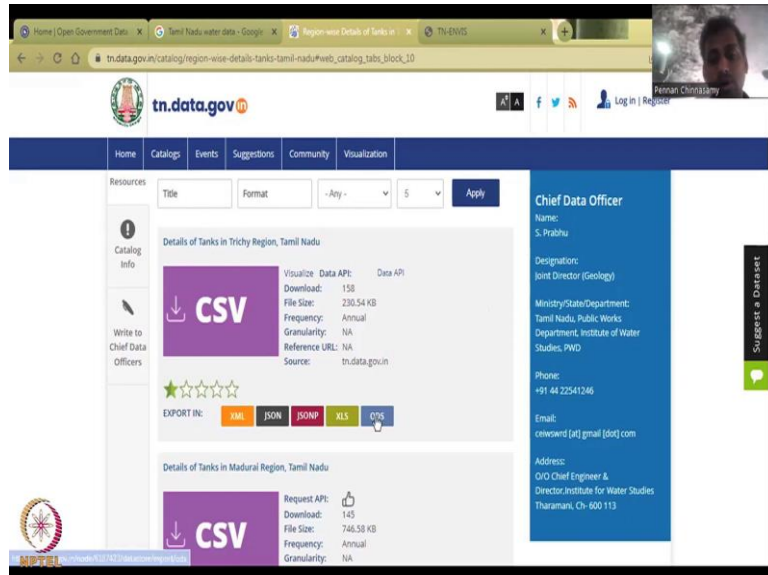
So, you could click it and it will ask you what type of data you would like there are photos for datasets, and you can download them for free. Similar to the WRIS website, you will be asked with some questions on, like, why you want to use it, how you want to use it, those kind of things. So, for example, details or tanks in Trichy, region, Madhurai, Coimbatore, etc. So, there is only four datasets, not all is there.

As I said, there could be two issues. One is they did not put everything online and the second is that maybe it is sensitive. So, they keep it in the office and as I said, this is the office address and stuff where you can go and find them, try giving them a call, email sometimes may not work, so you can try giving them a call. Or if you have any friends in the state's office near the office, you can ask them to go and meet the chief engineer.

And chief engineers normally will tell the rules and regulations which is why you want to use the data you have to clearly mention, a lot of signatures are required. And then you will talk about where and how the data is going to be used and then the details about the data. Normally, you will have to pay by demand draft and then they will send it by post or email. The post means like a hard disk, like a physical CD ROM they will put it or they will ask you

to come and take it in a pendrive or email from a Google Cloud or any other cloud they will share.

(Refer Slide Time: 17:03)



percent dependability is 954.58 TMC (2,7,03,000 MCM).

Following are the rivers which flow through this southernmost region of the Indian peninsula:

- ▶ **Bhavani River:** Fed, mostly, by the southwestern monsoon, this is one of the main tributaries of the river Kaveri.
- ▶ **Cheyyar River:** This tributary of River Palar is a major seasonal river that flows through the district of Tiruvannamalai.
- ▶ **Chittar River:** The main river originates from the Courtallam Hills of the Shencottah Taluk and Tenkasi Taluk in the district of Tirunelveli. It flows through the state along with its 5 tributaries.
- ▶ **Ponniyar River:** Flowing across the borders in between the taluks of Villupuram and Cuddalore, it finally drains into the Bay of Bengal.
- ▶ **Thamirabarani River:** This river originates from the peaks named Agathir, the Aduppakkal Mottai and Cherumunji Mottai in the Tirunelveli district.
- ▶ **Vaigai River:** While flowing towards the Raik Strait, it changes its course towards the south east near Sholavandan and passes through the town of Madurai.
- ▶ **Gundar River:** It mainly flows through the districts of Tirunelveli and Virudhunag, Tamil Nadu.
- ▶ **Noiyil River:** This tributary of Kaveri flows through Dharapuram taluk and Palladam in Erode district and Coimbatore district respectively.
- ▶ **Sivapiper River:** This originates from the Cudd Malai hills which is across the border in the bordering hills of the Kerala state, the river runs through the Virudhunagar district as well as the Theni district.
- ▶ **Ve**
- ▶ **th**

- ▶ Kudamurutu River, Kuloor River, Kunoha river, Malattar river
- ▶ Manimuktha River, Manimuthar River, Markanda River, Mayura River
- ▶ Mottayar River, Mudikondan River, Mundhal Odai River, Mullayar River
- ▶ Nandalar River, Naganathi River, Nanganjiyar River, Nattar River
- ▶ Odampokki River, Pachaiyar River, Pahrari River, Pamaniyar River
- ▶ Pambar River, Pandavaair River, Parambikulam River, Pykara River
- ▶ Rajasingiyaru River, Ramanathi River, Sankaraparni River, Sarabanga River
- ▶ Sarugani River, Shanmuganathi River, Sigur River, Sruvani River
- ▶ South Pennar River, Suvetta River, Thennar River, Therpennai River
- ▶ Thirumalarajan River, Thirumanimutharu River, Tondar River, Uppar River
- ▶ Upper Gundar River, Valavaikkal River, Vanniayar River, Varaganathi River
- ▶ Vashista River, Vedamaliyar River, Veera Chozhan River, Vennaaru River
- ▶ Vennar River, Vettar River

Source:

1. State Ground Water and Surface Water Resources, Data Centre, Tharamani, Chennai-113
2. <http://www.mapsindia.com/maps/tamilnadu>
3. Tamil Nadu Water Supply and Drainage Board Policy Note 2017-18 [clickhere](#)

So, these are the different types of format you could export it in, an XLS is your Excel, so let us click Excel. And it will say the same thing do you want to use it for commercial non-commercial, say commercial means you are going to use it to sell it to others. It is kind of unethical and wrong to take raw data for free and then sell it to others at a price.

For example, you have your village panchayat office and they want to estimate the rainfall so that they can plan agricultural crops. If the panchayat office requires you to collect the data, if you go to this website and say commercial which means you are going to collect the data on this website, and then you are going to sell it to the panchayat then there is an issue.

It is unethical and also an issue because you are making money out of it. So, always try to see; if you add value to the data then you can sell it for example you run a model, you put a lot of time you clean it, visualize it then it is different story but the raw data you cannot take

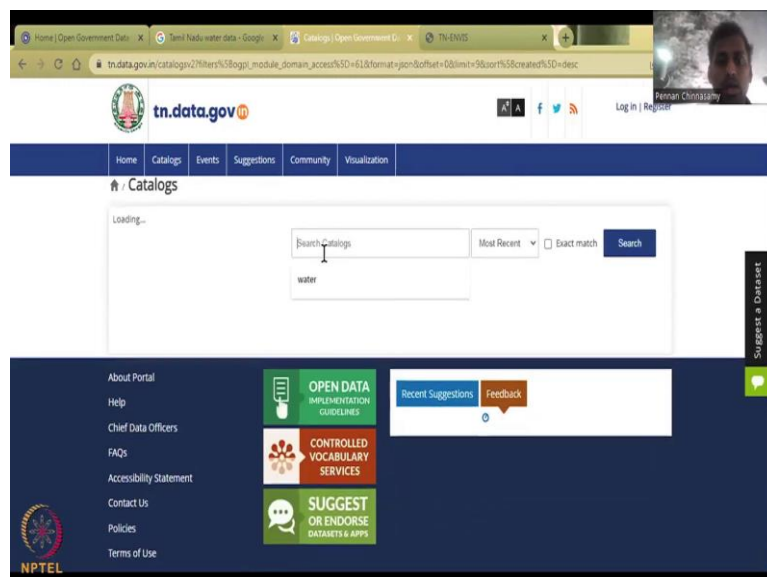
and then sell it and you will be caught if that happens a lot. So, let us say non-commercial and academic. Same thing you can give your name and when to use PC and then submit it. Here are the ratings also like what it is and how it is?

So, once another website just opens to make you download the data. I am not gonna download it I just want to show how to do it. So, there it is a data file. Let us just have a look at it, because we are here it has downloaded. So, what did we do, we do Trichy and then I am going to click it to open it, once it opens, I will share it again.

So, what is happening is the Excel is sharing and then let me see if I could open it. So, the data is already on and I would take this data and use it as needed. So, the TN ENVIS also has other data on the maps the boundaries and then maps of India is a commercial software company which they have cited here.

So, that is one way to do it and then now you could also I did a seminar on water data, I clicked on ENVIS not much data as they are not always the first link, you will get all the data. So, go here, I went to the second classification tn dot data dot gov dot in, and then I found this page. If you want to go back, you can go back to the data catalog, you can also write to the chief data officer asking about clarification it is basically the same email, it can it can go to that email.

(Refer Slide Time: 20:30)



tn.data.gov

Home Catalogs Events Suggestions Community Visualization

Catalogs

Filter By Source: groundwater

Filter By Ministry/Department: Ministry of Environment, Forest and Climate Change (3)

Filter By Sector: Central Pollution Control Board (3)

Filter By Asset Jurisdiction

Filter By Group

Search: groundwater

Displaying 1 - 3 of 3 Catalog(s)

Water Quality In India - 2014
 Ministry of Environment, Forest and Climate Change, Central Pollution Control Board
 Source: data.gov.in
 Get ambient water quality data of Aquatic Resources in India for 2014. It contains water quality data from monitoring stations, located on all important rivers, lakes including wells for groundwater assessment form the... < Show more >

Datasets (52) Visual Access (0) API (0)
 Views (14662) Downloads (NA) Last Updated (15/06/2017)

Status Of Water Quality In India - 2012
 Ministry of Environment, Forest and Climate Change, Central Pollution Control Board
 Source: data.gov.in

tn.data.gov

Home Catalogs Events Suggestions Community Visualization

Filter By Group

Views (14662) Downloads (NA) Last Updated (15/06/2017)

Status Of Water Quality In India - 2012
 Ministry of Environment, Forest and Climate Change, Central Pollution Control Board
 Source: data.gov.in
 Water quality data from 2500 water quality monitoring stations, located on all important rivers, lakes including wells for groundwater assessment form the basis of National Water Monitoring Programme (NWMP). Get ambien... < Show more >

Datasets (45) Visual Access (11) API (11)
 Views (10337) Downloads (NA) Last Updated (05/09/2017)

Water Quality In India - 2013
 Ministry of Environment, Forest and Climate Change, Central Pollution Control Board
 Source: data.gov.in
 Get ambient water quality data of Aquatic Resources in India for 2013. It contains water quality data from monitoring stations, located on all important rivers, lakes including wells for groundwater assessment form the... < Show more >

Datasets (64) Visual Access (NA) API (NA)
 Views (3940) Downloads (NA) Last Updated (22/06/2017)

tn.data.gov

Home Catalogs Events Suggestions Community Visualization

Classification of Ground Water Level by Districts in Tamil Nadu 2017-18

Request API: 104

Download: 104

File Size: 3.48 KB

Frequency: Annual

Granularity: NA

Reference URL: NA

Source: tn.data.gov.in

Designation: Joint Director of Statistics

Ministry/State Department: Tamil Nadu, Planning, Development and Special Initiatives Department, Department of Economics and Statistics

Phone: +91 9444937622

Email: dcesr01[at]gmail[dot]com

Address: Dept of Economics & Statistics, DMS Campus, Teyyanpet, Chennai -600006

EXPORT IN: CSV JSON ISDMP XLS ODS

Note: State Ground and Surface Water Resources Data Centre - Taramani, Chennai.

OPEN DATA IMPLEMENTATION GUIDELINES

Recent Suggestions Feedback

Home | Open Government Data | Classification of Ground Water

data.gov.in

HOME CATALOG APIs SECTORS CDOs METRICS LOGIN REGISTER

Unified District Information System for Education (UDISE)

Search Catalog/Resources/API

529,573 RESOURCES | 12,345 CATALOG | 133,125 APIs | 486 CHEF DATA OFFICERS | 119 SOURCED WEBSERVICES/APIs | 2,634 VISUALIZATIONS | 31.44 M TIMES VIEWED | 9.21 M TIMES DOWNLOADED

Recently Added Datasets | Most Viewed Datasets | Min./Dept. Contributed New Datasets | High Value Datasets

- State/UT-Wise Foreign Undertakings By Nationality As On 31st December, 2020
- All India Pincode Directory With Contact Details Along With Latitude And Longitude
- National Crime Records Bureau (NCRB)
- Surface Water Quality Uttar Pradesh 2007-2021

Search | Open Government Data | Classification of Ground Water

data.gov.in/search?title=Tamil%20Nadu%20water

HOME CATALOG APIs SECTORS CDOs METRICS LOGIN REGISTER

Tamil Nadu water

Search

The advanced search feature allows you to search Catalog and Resources with title, description, keywords, domain, sector, state/ ministry/department/organization, and asset jurisdiction.

Tamil Nadu water | All | 10 | Exact Match | Search

Searched Item: Searched for: Tamil Nadu water | Domain: data.gov.in | Clear All Filter(s)

Related Visualizations (10) | Related Blogs (3)

Daily FCI Stock position of the commodity Rice-Raw, for the Tamil Nadu region in 2017

Search | Open Government Data | Classification of Ground Water

data.gov.in/search?title=Tamil%20Nadu%20water

HOME CATALOG APIs SECTORS CDOs METRICS LOGIN REGISTER

Tamil Nadu water

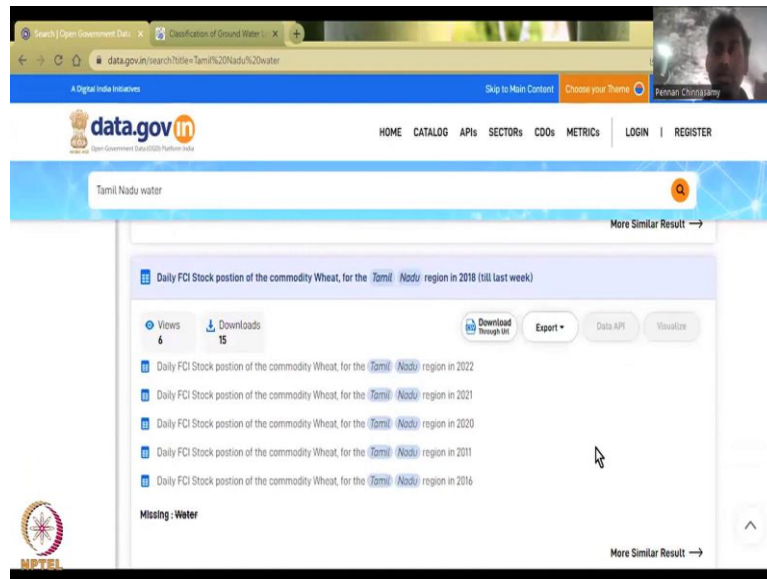
Daily FCI Stock position of the commodity Wheat URS, for the Tamil Nadu region in 2017

Views: 12 | Downloads: 44 | Download Through UI | Export | Data API | Visualize

- Daily FCI Stock position of the commodity Wheat URS, for the Tamil Nadu region in 2015
- Daily FCI Stock position of the commodity Wheat URS, for the Tamil Nadu region in 2016
- Daily FCI Stock position of the commodity Wheat URS, for the Tamil Nadu region in 2019 (till last week)

Missing - Water

Similar Result



So, I am gonna go to catalogs again, when this website opens, I am just going to say ground water and then water quality in India, etc, they also have some statistics, how many people have accessed it, 6 people have visually looked at it downloads, views, how many people have viewed the data, some visual analysis has been done. So, all these are there across India, but because this is for Tamil Nadu, they might have it truncated. Again, we are only looking at this state in this lecture, the central government exercises we have seen or we all already add to it in the next couple of lectures.

So, with this one more I will show is the data dot government dot in, if you look at both this website data dot gov dot in which is India's, and the tn data dot gov dot in. The only difference is a TN word which means Tamil Nadu is coming in front, because both are government agencies. So, one is a state agency supported by a central government and this is a central government that is why you see the central government logo here whereas, you see the state government logo here. This is almost the same aspect across the data platforms and you will be able to see all of this in here.

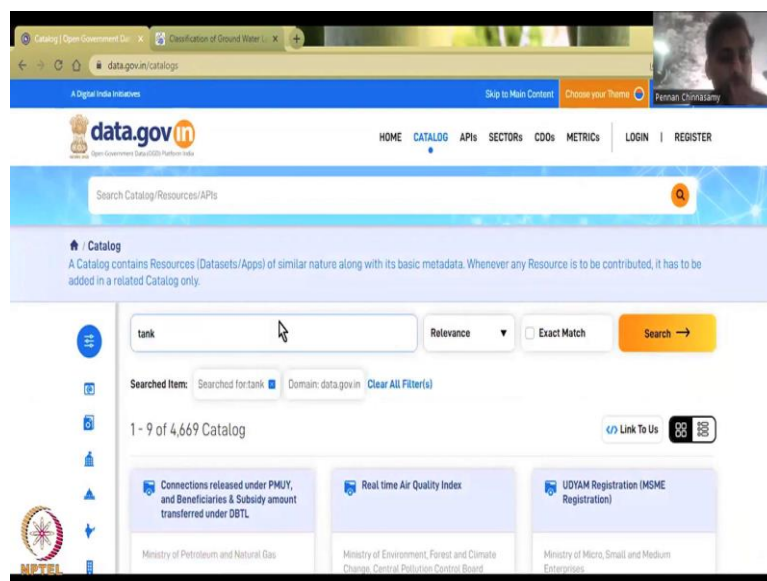
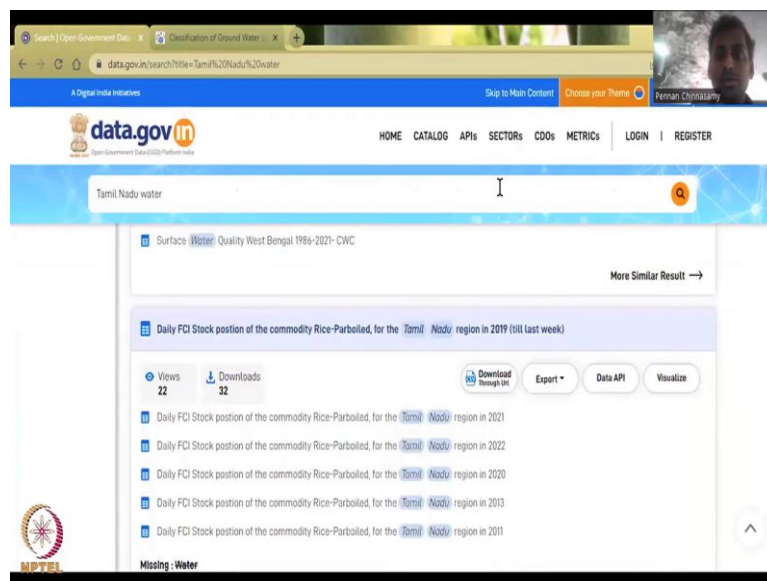
So, you can see all these data and similar to your thing, you have number of data officers, visualizations, themes, you could search the catalog here just take the catalog, let us say again Tamil Nadu water and you can get it. This is to focus on one region as I said and then here it is some data surface water quality in Tamil Nadu, how many did we get?

Normally the search will tell you how many and then say it just goes on it is not three it just goes on a lot and more similar results. So, daily stock Tamil Nadu, household survey, source of drinking water locations Tamil Nadu 2001, water bodies in Tamil Nadu. So, you have

these both data in access in two different sites one has a Tamil Nadu site and then the data dot gov dot in.

Please do not get confused it is the same data government data but hosted in two different locations, both are free. So, now this is the point when you take these data for free and put it on your website and charge the money then it becomes unethical you will be sued by the government. So, be very careful what you can share for cost, do not sell something from the government for free. So, just read through the rules and regulations it will clearly tell what you can sell what you cannot sell.

(Refer Slide Time: 23:35)



data.gov.in

HOME CATALOG APIs SECTORS CDOs METRICS LOGIN REGISTER

Search Catalog/Resources/APIs

Searched Item: Searched for tank Domain: data.gov.in Clear All Filter(s)

1 - 9 of 14 Catalog

Block wise distribution of surface lift schemes (on tank/pond) in use and their potential created and utilized

Ministry of Jal Shakti, Department of Water Resources, River Development & Ganga Rejuvenation

The data refers to block wise distribution of surface lift schemes (on tank/pond) in use and their potential created and utilized...

Datasets: 1 API: 0

Views: 354 Download: 65

Updated on: 13/02/2014 Published on: 07/08/2013

Source: data.gov.in

District wise distribution of surface lift schemes (on tank/pond) in use and their potential created and utilized

Ministry of Jal Shakti, Department of Water Resources, River Development & Ganga Rejuvenation

The data refers to district wise distribution of surface lift schemes (on tank/pond) in use and their potential created and utilized...

Datasets: 1 API: 0

Views: 253 Download: 62

Updated on: 13/02/2014 Published on: 07/08/2013

Source: data.gov.in

Village wise distribution of surface lift schemes (on tank/pond) in use and their potential created and utilized

Ministry of Jal Shakti, Department of Water Resources, River Development & Ganga Rejuvenation

The data refers to village wise distribution of surface lift schemes (on tank/pond) in use and their potential created and utilized...

Datasets: 1 API: 0

Views: 403 Download: 76

Updated on: 14/02/2014 Published on: 07/08/2013

Source: data.gov.in

data.gov.in

HOME CATALOG APIs SECTORS CDOs METRICS LOGIN REGISTER

Search Catalog/Resources/APIs

Searched Item: Searched for tank Domain: data.gov.in Clear All Filter(s)

1 - 9 of 14 Catalog

Block wise distribution of surface lift schemes (on tank/pond) in use and their potential created and utilized

Ministry of Jal Shakti, Department of Water Resources, River Development & Ganga Rejuvenation

The data refers to block wise distribution of surface lift schemes (on tank/pond) in use and their potential created and utilized...

Datasets: 1 API: 0

Views: 354 Download: 65

Updated on: 13/02/2014 Published on: 07/08/2013

Source: data.gov.in

District wise distribution of surface lift schemes (on tank/pond) in use and their potential created and utilized

Ministry of Jal Shakti, Department of Water Resources, River Development & Ganga Rejuvenation

The data refers to district wise distribution of surface lift schemes (on tank/pond) in use and their potential created and utilized...

Datasets: 1 API: 0

Views: 253 Download: 62

Updated on: 13/02/2014 Published on: 07/08/2013

Source: data.gov.in

Village wise distribution of surface lift schemes (on tank/pond) in use and their potential created and utilized

Ministry of Jal Shakti, Department of Water Resources, River Development & Ganga Rejuvenation

The data refers to village wise distribution of surface lift schemes (on tank/pond) in use and their potential created and utilized...

Datasets: 1 API: 0

Views: 403 Download: 76

Updated on: 14/02/2014 Published on: 07/08/2013

Source: data.gov.in

State wise distribution of surface lift schemes (on tank/pond) in use and their potential created and utilized

Percentage Distribution Of Rural And Urban Households By Source Of Drinking Water

Physical Infrastructure facilities in Municipality and corporation schools in Tamil Nadu

data.gov.in

HOME CATALOG APIs SECTORS CDOs METRICS LOGIN REGISTER

Search Catalog/Resources/APIs

Search: tank Most Recent Exact Match Search →

Searched Item: Searched for tank Domain: data.gov.in Clear All Filter(s)

1 - 9 of 14 Catalog

Block wise distribution of surface lift schemes (on tank/pond) in use and their potential created and utilized

Ministry of Jal Shakti, Department of Water Resources, River Development & Ganga Rejuvenation

The data refers to block wise distribution of surface lift schemes (on tank/pond) in use and their potential created and utilized...

Datasets: 1 API: 0

Views: 354 Download: 65

Updated on: 13/02/2014 Published on: 07/08/2013

Source: data.gov.in

District wise distribution of surface lift schemes (on tank/pond) in use and their potential created and utilized

Ministry of Jal Shakti, Department of Water Resources, River Development & Ganga Rejuvenation

The data refers to district wise distribution of surface lift schemes (on tank/pond) in use and their potential created and utilized...

Datasets: 1 API: 0

Views: 253 Download: 62

Updated on: 13/02/2014 Published on: 07/08/2013

Source: data.gov.in

Village wise distribution of surface lift schemes (on tank/pond) in use and their potential created and utilized

Ministry of Jal Shakti, Department of Water Resources, River Development & Ganga Rejuvenation

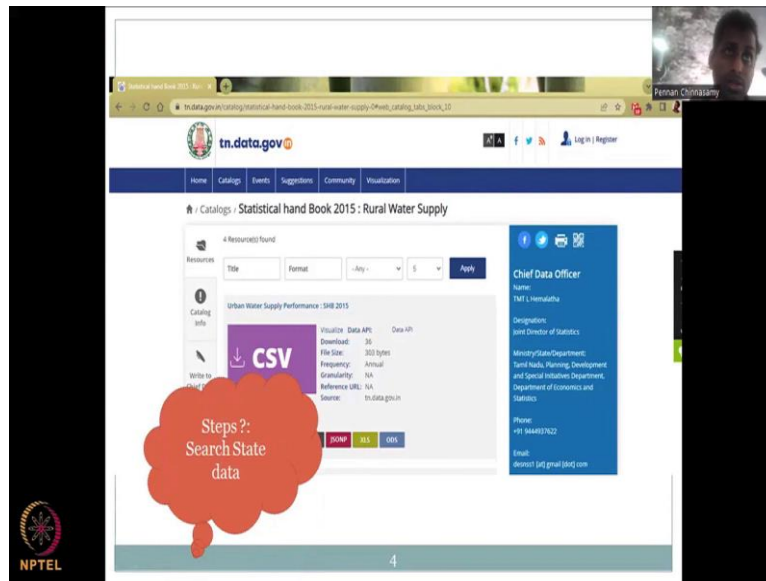
The data refers to village wise distribution of surface lift schemes (on tank/pond) in use and their potential created and utilized...

Datasets: 1 API: 0

Views: 403 Download: 76

Updated on: 14/02/2014 Published on: 07/08/2013

Source: data.gov.in



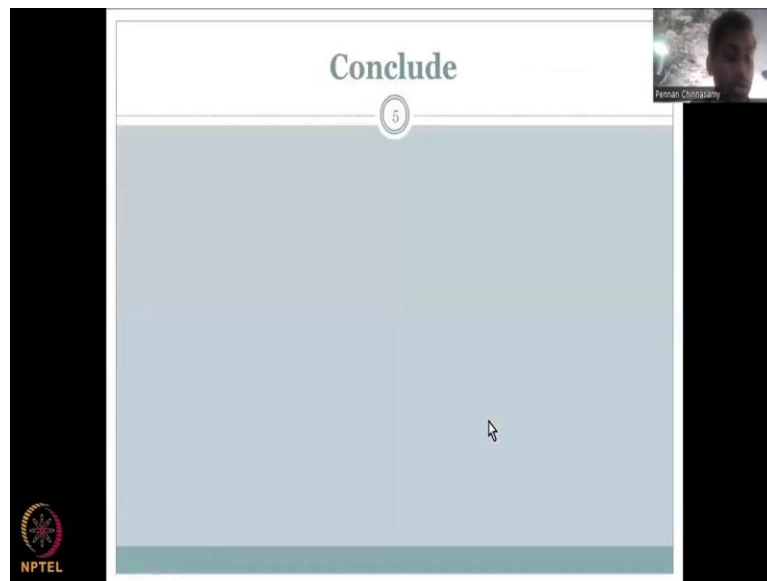
So, this is where you could do it, you can also go back to the catalog and then you can click groundwater and say tank. So, the tank work can be different in different regions, but let us say you have 1 to 14 and the data district wise distribution of surface lift schemes and irrigation schemes, tank ponds and use etc.

So, you have multiple data and most importantly, it tells you about how many dataset views, downloads and see if the download is high that means people are using it. And then you have the updated date when it was updated, mostly want to see the very recent one. So, you can click here you can go to relevance on the most recent date and then click search again then what will happen is it just reorganizes itself.

So, now you have village water wise surface flow schemes. It was a bit in 2018, still we are in 2022 slide or 4 years average difference, so we as I said sometimes the data may not be the most recent one, but you need to work on what data you have. So, reassign, realign your problem statement with the data you have, there is no point in saying no data, you need to tell what data you want to use and how much. So, we have seen this, how to search for data in one particular state website and then we have also seen how to download these data in an Excel format.

You can also go to data dot government dot in and then search for data and download. The details of the data officer which is Hemalatha, TMT is Tirumathi L Hemalatha, Joint Director of Statistics, and address and phone numbers given. This looks like a mobile phone but as I said, please do first send an email, sometimes they do, because the volume of emails a lot, but most of the time they do reply, so you could get a reply, you can talk to them and see what can be done.

(Refer Slide Time: 26:00)



With this I conclude today's lecture on the state data sets and how to analyze them. We have also looked at how ethical it is to use the data for your research and sell it. You can sell a product but you cannot sell that data product from the government. You should do your work analyze it, make it a problem statement, etc, model it and then you can try to augment it.

This course is about solving rural water issues, but it is also important to build a capacity of people who can use these materials to like consultancies, because not always the government agencies can solve the small small issues, NGO's, for example, they could charge for these kinds of work. So, thanks a lot. I will see you the next class on more data sources for rural water management. Thank you.