

FEMS Office Hours-20251007_133943-Meeting Recording

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20m 49s

● **Amy Consoer** started transcription

MC **Michael Caggiano** 0:22

And four.

Raw stations that they pull from.

And so.

So you go in and you create your queries to pull the URL and I'll just open this one as an example.

You can't see that second screen, can you?

Let's pull that over here.

You should be able to see that screen now I think.

The power query editor someone just gave me a yes.

SL **Scott Linn** 0:56

Yep, we got it.

JO **Jonathan Olsen** 0:56

Yes.

MC **Michael Caggiano** 0:57

OK, perfect. So you go to the advanced editor and if you've already done this, you're you're probably familiar with this, but instead of the URL, you can actually have it just reference a named.

Spell. So instead of that big URL this this reference to the name cell, it pulls straight from.

My overview worksheet and.

You know, this is great. Like Travis was talking about here. You can just go right into this cell and you can modify the date. You can use the concatenate function if you want in order to build these kind of more more dynamically and just by going this.

Just by going to this define name you can name the cell and then the query knows to

reference that exact cell, so.

What I did is I pulled in.

Of the fire danger queries, one query for each my fdras and then one query for.

Each of each of the weather.

So as an as an example.

Here, here's my let me get to this.

So let's let's go to my high elevations.

So you see the high elevation Fdra is pulling in information from 4 different.

Raw stations.

In this example, they're all weighted equally, but it's really easy to add a weight column.

Have that weight column reference lookup table and then you can and then you can calculate weighted as well.

And you see you can see I added the the the forecast of observation.

This pulls that.

That pulls into my stats graph later on.

But.

What I did mostly just for my own helping, it makes sense in my own head, is once I have this information and this is this is the year to date. I I did the same thing Travis did.

1125 through December 31st and it'll automatically pull in the the the the forecast for.

The next seven days.

And So what I did again just to kinda keep this straight in my head, I copied that exact same data structure.

But.

But I took the average so you know now you see for that high Elevation FD array, I just have one line for each day.

On the daily Max.

And so then what I did here and going back to the original question from.

Allison, I believe.

What I did is I populated and see where I'm at here.

What I did is I took all this information here that you're seeing in this Excel sheet.

I've I've four different fdras and I populated A5 day.

Seven day summary for each of my each of my fdras.

And this this updates automatically.

You open the Excel file, you hit the update.

Everything updates automatically. It doesn't take any work right.

So we have my high elevation.

Fdra, Montrose, Fdra Uncompadere and the West zone and so.

I just did this all.

I just did this all yesterday, so the graphs need a little bit of kind of cleanup. Still you know rough and this is this is for me.

I haven't handled this off to the dispatch yet, but we'll take a look at this as an example.

What we're showing here on the stats graph like you all are used to, we see the mean the the Max.

I wanted a line at the 90th condition and then we have have our observation and the the forecast. So the first four columns here these are all pulling out of the fire the the the complementary fire family plus analysis that was.

Undertaken and then.

These 5th and 6th.

Columns of 25 observations and 25 forecast.

This pulls straight from that fems feed.

The first fems feed pulling the four stations and then I aggregated that and simplified that.

So it's one Excel worksheet for each of my. Each of my sigs, each of my fdras, and then.

Using a little kind of switch, you know count, FS and FS and OS.

I just pulled in the.

The the forecast data and the observation so you can you can see here in column G&F.

I have my year's date observations.

Through.

Through whatever date it is today looks like it's the 7th and then it.

Here on the 5th, I guess I didn't update this this morning, but it it switches from observations to forecast and so the next couple days are forecast and then you just highlight all that stuff. You just kind of drag and drop that square you go to excel hit. The recommended graphs line.

Well, you choose the line graph and then you can kind of modify your your chart as

needed and just kind of pointing out a few things the.

The fire family plus analysis that I based this on actually had a seasonal filter of of March 1st.

So that's why there's no values in the mean and Max for the first few months, and then obviously you see how my forecast line here just drops to 0.

That's a graph formatting issue.

Having it work through and as I kind of scroll through you can see how I.

I I just repeated the process.

For each of the four fdras.

So you definitely have more queries than I.

Yeah, I could.

I could probably simplify this if I was a better coder, but it works pretty.

It works pretty smoothly, so hopefully that was helpful. Scott and everyone and if anyone does have questions or wants want to want to take a deep dive on, happy to spend some time.

I'm helping you understand. Kinda what I did.

I'm sure there's better ways to do this.

In fact, I know.

I know there's better ways to do this, but this seems kind of workable for me since I was fairly new to FDops fire planning and femmes as of May of last year.

Of.

May a few months ago.

SL **Scott Linn** 8:12

That's great, Michael.

I appreciate it that you willing to share and go through all this because it's it helps out, you know, show everybody the availability and what you can do with all the data. And how you can get all the information pretty well refreshed without having to log in and do you know having to do Firefly plus all the time to get these charts?

You know, it's a it's a huge benefit, so.

MC **Michael Caggiano** 8:34

Yeah.

You just hit on the refresh button here and then the cool thing is, if I were to move to another, you know dispatch area, all I have to do is update these raw Station IDs and

it would run from there.

Obviously we need the, you know, crosswalk and lookup tables for.

The staffing level and response level and where the breakpoints are, you know that comes from.

The fire family plus, but at least the data management side of this, if you're using those URL's effectively.

It really takes a lot of the labor out of this.

SL **Scott Linn** 9:16

Yeah, it's great. Excellent.

Thank you very much for sharing.

VT **Verdegan, Travis (DNR)** 9:19

Hey, Michael, before you get.

I was actually interested in.

That's awesome.

That's cool that you came to the same conclusion on the year to date and tricking the system.

I saw you had hot, dry, windy on there.

What was the legend that was next to that?

I'll just go back like total total sidebar for just a second.

MC **Michael Caggiano** 9:34

Oh yeah.

Yeah, sure. And and again, I, like I said, I'm just like stepping into the fire planner role.

This is all new to me, so.

Yeah, what this is is this is just a placeholder for me right now in the current version of the calculator that mantra's dispatch uses on a daily basis. It uses the same URL concept that we're talking about here with fems.

With with the hot, Dry, windy index. So again when you hit the refresh all button it updates those 10 fems queries.

VT **Verdegan, Travis (DNR)** 10:03

Mm-hmm.

MC **Michael Caggiano** 10:11

It'll also updates that one query from the hot, Dry, Windy index, and then they have a little kind of smoky bear style kind of CHEAT SHEET that just highlights.
The.

VT **Verdegan, Travis (DNR)** 10:23

Yeah, that's the thing I was interested in what's filled in there with that?

MC **Michael Caggiano** 10:24

I like the big talking points.

Well, this is just a this is.

This is just a summary of the ERC percentile.

The BI percentile staffing level response level, and recommended restrictions.

VT **Verdegan, Travis (DNR)** 10:40

OK. Is that an image or is that actually being populated?

MC **Michael Caggiano** 10:41

Yeah, well.

This this is an image on the Excel spread, but again I'm just I. I just rebuilt everything.

I just walked you through. I rebuilt yesterday.

So this is just a placeholder for me 'cause I need to rebuild this little image as well. I just haven't gotten here yet.

VT **Verdegan, Travis (DNR)** 10:56

Mm.

OK. Thanks.

MC **Michael Caggiano** 11:05

But since we have all the all of this data that you're seeing in this brown chart.

Is in this table, so it's just a matter of, you know, reformatting it and kind of making it look a little different.

VT **Verdegan, Travis (DNR)** 11:13

Mm-h.

Cool. Thank you.

SL **Scott Linn** 11:26

Yeah, like I said, there's there's a lot of a lot of different products that are out there available that people have making over the past 6 plus months.

So if you're not sure, don't hesitate to reach out to me.

I'm sure I can find someone who's probably has a product similar to what you're looking for.

So you don't have to go through the the process yourself if you don't want to so.

But I also do recommend doing it 'cause. It's a good learning experience.

And I like excel, so sometimes.

All right.

Other questions?

Or I guess discussion forums, anything like that.

This is a a good session.

And.

For all of this. So.

All right, I am going to bring up so.

On we redid the portal.

A couple of well about last week it did get updated.

And I also wanted to show a new image to kind of walk through some of the questions that have come up are the ingest timing?

And so wanted to show this is now going to be this is posted on the fems portal for everybody, so.

Let me do a share.

All right.

Timing in Jess, there's been some couple of questions you know about when everything comes in, how how often it gets calculated and all that information.

So this is a real quick, just visual for everybody at saying at any one point in time.

This is how we calculate information.

So Dri snowflags, those come in once daily.

Again, obviously, snowflakes are only a once daily ingest process.

They are either on or off.

And they are on for a 24 hour period.

Those come in at 1600 UTC, and that's when we get the current snowfag for the current day, and then the seven day forecast.

We get our weather observations.

We get our the weather information comes in every 5 minutes.

And that is from WXX.

So those are updated.

As as on a every five minute basis, we also every time we get in a new weather we do get.

We do run the NFTR calculations for those stations that were brought in.

Then that translates into the once daily min Max that occurs at 0400 UTC, and that also produces the NFTR forecast for that time frame.

I'm sorry the the forecast for the once daily comes in at 0400 and then the daily Min Max value we calculate that for the previous day at.

At midnight for the previous time frame.

So that's what gives us the daily min Max values occurs for that observation time for the previous day at midnight.

We also get the observation forecast or the NOAA forecast comes in at 0400.

We are only getting those at this time once daily, so that's also where some of the time frame and timing issues are starting. You know people.

A new train of thought. Instead of getting that forecasted information.

At 13 or 1400, in the middle of your shift, we now get it when you get your latest forecast will be available when you show up first thing in the morning and that will be the most.

Current forecast at that time.

So you're coming in from your operational shift and you will see the most up-to-date forecast at that time.

So a little bit different of process and kind of a mind or thinking.

As you go forward.

With your daily values. So yeah, John.

BT **Bonk, Jonathan T** 15:58

So is that a typo on your slide?

'Cause, you're for the daily Min, Max average plus current forecast.

Once daily, it says UTC.

Isn't that zero local?

SL **Scott Linn** 16:10

Right here.

Sorry on the and yet the ones daily. I wish I had my pointer.

BT **Bonk, Jonathan T** 16:12

I can't.

Yeah, your bottom bar.

Yeah, I don't see your.

SL **Scott Linn** 16:18

Yeah, I understand.

I know the 0400 the NFTRS forecast once daily, so that does 'cause that runs at 0400 because that's when we get the forecast in.

BT **Bonk, Jonathan T** 16:29

Right, right.

But the bar below that where you've got those these list once daily at midnight UTC.

SL **Scott Linn** 16:31

Yes.

That's that.

That is for the daily Min Max for the observation.

BT **Bonk, Jonathan T** 16:45

Right. But doesn't that?

Isn't that midnight local for the station?

At least that's what I've been observing.

SL **Scott Linn** 16:51

Oh yes, I apologize.

That is midnight local.

BT **Bonk, Jonathan T** 16:53

OK.

SL **Scott Linn** 16:54

You are correct.

I will make sure that gets adjusted.

You are correct.

The 000 UTC for previous day.

Yep, yeah, it should be local station. Yep, Yep.

BT **Bonk, Jonathan T** 17:00

Yeah.

OK, thanks. I had a momentary.

It's like, what have I missed?

SL **Scott Linn** 17:06

No. Perfect.

No, I appreciate you catching that.

BT **Bonk, Jonathan T** 17:07

OK. Thanks.

SL **Scott Linn** 17:07

I will make sure I get that changed so.

So again, this is posted on the portal, so when you go into the web portal, let me go back here under the user guide and getting started, you'll see the data ingest timing on here.

Of of that chart, just in case you want to have a refresh of that information.

Again, we do have a lot of other information on here, so the user guides this would be if you want to get into data connections. This has been a lot of what we talked about today.

How to use that copy data link?

How to apply that in Excel?

How to do the get data manipulation tech tip and that's a lot of what Michael had been working through and Travis about actually manipulating and tricking the OR adjusting the the URL to get the information that you want.

So these three links would really provide a lot of information about what we've

talked about today.

There's also the API if you're interested in getting into the additional.

API information and features.

The user guide is on here as well available if you need API access, please just shoot me a message I can get you API access. There is no restrictions of who can have API access, we are just the reason why we have it as a request is because.

You want to be able to, if we need a message to that user group that like we're changing something in the API or anything like that. We want to be able to communicate with them with that group directly and we can do that if we manage that group.

Through FAM auth.

So that's really the only reason why we have it as a login only or you need the the access to it.

Let's see here.

So and then field temp module. Again there's a bunch of the user guides in here as well. How to manage groups?

And being different types of roles that are available through here.

The general information again, this is a really good information, just additional reference material and notices more about fems as a whole and then I know we talked about this last week, but we migrated most of the NFDRS transition materials that was on the NFDRS subcommittee fire to Inter.

Committee website that has been transferred over to this site.

But there is also information LinkedIn here for FEM specific about the raws QC data gap process the FW21 file format.

As well.

So there's kind of a mixture of information in here as well as.

The you know links to firefamy plus and such as well. So a lot of information now available through here. I would you know if you don't have this site bookmarked, I would start utilizing this and we also do have all the transition materials we're going to work on.

Getting this adjusted, if you wanna just look at really kind of more of the information, user guides particular to how to get moving and going forward with fems, this would be at least a very basic one to understand.

This also has the Firefox database. If you don't have that available, and this again has that all the data that you would need for.

For getting going into Firefox utilizing fem's information so.

That's all I have for today. I know it's just at the top of the hour here, so I'll stick on for a minute or two if anybody has any questions.

If not, we will chat next week.

Everybody have a good day.

● **Scott Linn** stopped transcription