NFDRSFEMS Updates and Tips-20250917_140150-Meeting Recording

September 17, 2025, 7:01PM

57m 22s

Scott Linn 0:03
Mute off.
So let's see here.

Pascarella, Andrew - FS, OH 0:06
OK.

Scott Linn 0:08
Topics for today.

Pascarella, Andrew - FS, OH 0:09
Thank you so much.

Scott Linn 0:10
First off, I want to start out with the Wims updates and transition information.

Pascarella, Andrew - FS, OH 0:12
I.

Scott Linn 0:17
So let's see here.
The Wiiims yesterday was removed from yesterday. Two days ago Monday was removed from dashboard so no longer able to access wiiims directly that way.
Again, the WXML is still available in live for those that.
Have connections to it.
Any other products that way it's available until the 30th of this month when it will be fully decommissioned.
So started the formal transition process. I guess is occurring or at least the shutting down of whims.
We did release Fems 3.4 yesterday.

There were some interruptions in the service, so I apologize for that.
So what we're doing in the future is we released a part of this release.
Was a banner that we'll be able to put notifications in there when we're doing any more future releases or we're seeing issues, I'm sure put a banner up to to list what's occurring. A short short message on there, so I apologize, but that was just one of the.
Pieces that we did add into this release.
So you'll be notified farther in advance.
I apologize that I did not get out that to the group earlier.
Than what I did yesterday.
I think everything else should be there might be a few stations still that aren't fully recalculated from the.
Couple of hours of missing data that they had yesterday, but I think most of them are back up and running.
And.
I think there's only one other bug.
I believe that we interjected right now, which is in the fire.
Danger charts the hourly fire.
Danger charts are not showing the the future forecast.
So but we're we're working on getting that one fixed as well, so.
Let's see here.
As far as future development going into fems.
We're trying to, you know, get everything I guess right now, you know, keep the the transition moving forward.
The next release is not going to be until probably early December.
Time frame early in mid-december for Fems and and that will be where we have the ability to adjust the catalog settings and then we are also hoping to.
To have the mesonets available.
Ingested and available by that time. So we've we finally did get the contract solidified with synoptic or we're getting that finalized I should say over the next couple of weeks. But they're working on a daily data summarization for us from the meso Nets.

Michael, Daniel - FS, CA 2:56
Why are you so?

Scott Linn 3:09

And so why?

Why that's taking so long? Just to give everybody the background on the meso Nets is?

What used to happen in Wim's was those individual stations, the individual owners of the of the museum at stations would.

Put together an hourly summary of information and send in an FW13 file to wim's and that's what would update the the Mesonet.

And So what we're doing is we went into the full automation system was we needed to 1st understand which stations are compatible.

We can calculate NFDR out of the systems. We have to make sure some of the station or some of the networks are restricted, so we have to make sure we get permission for that. And then the other piece is, is a lot of the stations they report on. Either in every five minute, 10 minute, 20 minute intervals.

They're not.

The data is not summarized into an hourly format such as. The raws data is. So in order to actually get the data that we need, we need to make sure that we have.

The same information.

Provided that we would that we used to be seeing for Aras, so we have a Max temperature, an hourly Max temp that precip for the hour, you know the wind speeds when those are registered, the gust speed and all that information needs to be calculated or you know.

Determined at what time that they're going to get that and how often, and we need to get that each hour.

So that information all basically needs to get summarized, and so synoptic is working on getting us a summarized data set specific to FDR from those networks.

And then we'll be able to ingest that information and run it through the calculator to be able to provide fire danger for the meso Nets.

So there's a lot of background work that has to go into bringing all those networks in, which is where we have been spending a lot of our time trying to make sure that all of that information is correct and accurate so that we we won't have any you.

Know the inconsistencies between.

Ros or and a saw station that might be nearby.

Any of those music networks.

Again hoping to get those in by then on the next release and producing fire danger information, we will not be getting historical information from those mesonets.
We will only be calculating from January 1st of this year until current dates and then producing. You know, obviously observations and forecasts for that point forward. So any historical information, if anybody uses those, those networks, they will have to grab the historical information from one of the other.
Courses that are available.
It very similar to the other sites that we have. So any questions on?
Mesonet's transition information or what the next release is looking like for us?

VS **Volmer, Stephen@CALFIRE** 6:15
Hey, Scott.
Steve Volmer, you just said when the next what the next release is looking like when is the next release?

SL **Scott Linn** 6:22
Mid mid-december.

VS **Volmer, Stephen@CALFIRE** 6:25
Got it.
Thank you.

SL **Scott Linn** 6:27
Yep.
And from that point, we're trying to get.
A stable making sure that we have a stable system.
You know, and being able to have really the basic functionality that we all that we used to have inside whims, the best that we can and with the implementation of what you know, hourly forecast and everything and hourly data looks like.
So we're trying to have it so that we have, you know, the most stable.
Environment we can so that this this.
Winter when units are providing or you know if they're redoing any other bigger analysis pieces.
That they would be able to start performing that information knowing that we're not going to have any, you know, real large systemic changes occurring prior to next, you

know, fire season.
And so there were.
I've had a couple of conversations with folks and we're trying hard to get some of those other pieces implemented.
Into this release as well. I don't know exactly yet what other those are. Kind of the key pieces that we have built in, but there's a few other.
Smaller projects, internal projects that we're trying to get done as well for data stabilization.
And but I don't know if those are going to get into this release or not yet.
It really kind of depends on.
One government shutdown to a lot of the other unknowns that we have with our development team and funding constraints that we have.
And timing constraints that we have now.
So we're working our best to do what we can around this.
But just understand that you know, we were trying to get it so that we at least have you know, those those measures that we can adjust our.
Our fire danger.
Information at the station and regional levels and set new catalogs and you know those are the two, I guess main pieces and then being able to recalculations.
Of the system on a as needed basis so that we can, you know, don't have to rely on our back end developers to go in there and recalculate the entire system.
So if we see that a station has changed locations, if we see that if we change parameters in a station that we can go in there and do a recalculation of the system and and understand that, yeah, we'll be able to get that accomplished.
So I know those sound like small little feats, but those are monumental tasks when you think about the entire system as a whole and trying to get that to actually fit into the system as a big picture. So.
So that's what we're looking at for release 3.5 down the road.
Any other questions on?
3/5.
Or transition questions about whims to fems.

Boyce, Tim - FS, OR 9:33
I'll try 1 Scott.
I might be in outer space.

Scott Linn 9:35
Hey, Tim.

Boyce, Tim - FS, OR 9:36
I haven't caught all these meetings, but.
Fems will never have the ability to recreate Sigs, right?
If I remember right, so what's the?
What's the direction for FDops then?
I'm not sure.
Never have the ability but.
Our current our local FDA OPS are built off of Sigs and so is the expectation.

Scott Linn 10:01
Mm-hmm.

Boyce, Tim - FS, OR 10:04
That those will be redrawn or re the FDR as redrawn and the calculations done based on one Ros in the fdra to get the worst case scenario.

Scott Linn 10:15
No, and we do. So we don't display sigs the way that wins used to display Sigs. But there when you download data, you can download average station to averaged information very much or the same way that you used to do that in in wiiims.
So we are calculating sigs for everybody or averaged fire danger outputs.
It's just that they need to you download it and it puts it into an Excel spreadsheet.
For them.
So they can get the outputs in multiple different ways.
They just in in that way, it's just that you can't go to the mapping system as of yet.
Draw Polygon or pick individual stations and it will, you know, give you that average fare danger just yet. We are working on getting those capabilities within Power BI and that's in the report section that we just released to try and have that built in. But again there's a.
Lot of.
There's a lot more, bigger picture.

Questions that need to be answered, such as to making sure that when you average two stations together.
You're really averaging stations that that should be averaged together. I mean, if they're ER, CS or not, you know, and trying to provide more of the analytical information that, yes, these stations should be joined together or can be and that you're not you know performing I guess really.
You're dumbing down the information or looking at, you know, just a a very limited picture by by joining in too many stations at a time.
So there's a lot of, I guess bigger questions that need to be answered. But yes, we have the capability, one that you can download the average fire danger.
You can't wait it.
You're gonna have to wait it on your own if they want to put weights on stations.
And then we are working on again the capabilities of being able to like you know, lasso stations whatever through power BI.
Happening. We, like I said, we just released the the the reports in the Power BI and just getting.
The connections in the power BI and being able to make reports like this, we have the very basic information or like a couple of very basic reports built, but the plan is right now we're working with enterprise to get, you know, some specialists to help us with some.
Of the.
Complete visualizations with power BI integrated in so it's yet to come.
It's just gonna be different than what we used to have in themselves, so Yep.

Boyce, Tim - FS, OR 12:37
Thank you.

Scott Linn 12:41
I thought you were gonna get into adjective fire danger and yes, adjective fire danger is not produced in there.
And if we want to have that discussion, we can.

Boyce, Tim - FS, OR 12:49
I'll leave that one alone so.

Scott Linn 12:53
So hey, Ryan.

Elliott, Ryan - FS, CO 12:55
Yes, Sir.
So this is just kind of a related question.
We've been working with developing our various spreadsheets to automate our Sigs and fire danger calcs.

Scott Linn 13:07
Yeah.

Elliott, Ryan - FS, CO 13:07
There's a bounded query for the NFDRS data, but I cannot figure out a way to do a bounded query for the.
Weather data.
So is it possible or is it planned that there will be a like a seven day bounded weather query?
Like there is for the NFTRS data so that we can just link to that instead of having to change the dates every time we're trying to pull weather.
Or that could just be user area error and experience on my part, but I don't know how to do that.

Scott Linn 13:43
You're looking for basically the five day historical and seven day forecast and you just want that time frame and that time period.

Elliott, Ryan - FS, CO 13:52
Yeah, but it's a so yeah, 'cause on the on the NFDRS side of things, right.

Scott Linn 13:53
For just the weather.
Yep.

Elliott, Ryan - FS, CO 13:58
You can use that link and it's bounded query that just does the next, does the forecast for the five days.

Scott Linn 14:05
Yes.

Elliott, Ryan - FS, CO 14:06
So if I could get something like that for seven days for weather, then our fire business calculator could be fully automated.
Just every time we open it up, it would populate with what?
The fire danger is and what the weather is, but I may not know how to do that, that that could just be an issue on my end.

Scott Linn 14:20
Yeah.
Yep.

Elliott, Ryan - FS, CO 14:24
Thank you.

Scott Linn 14:24
OK.
Good question. Now and I think you got my screen share, Ryan.

Elliott, Ryan - FS, CO 14:31
Yeah, I've been talking to you.
I muted myself, yes.

Scott Linn 14:33
No, it's OK. Yeah, sounds good.
So I think when you go in here, it should be able to. So if you do the daily and you do your CSV, you should be able to click the same thing and hit the five days and that should bound it to where you need to for weather.

Information you should.
It should be the same.
It should act the exact same as fire danger.

Elliott, Ryan - FS, CO 14:53
OK.
I missed that.
I didn't see that.
Somehow I managed to miss that.
So I think we're OK then.
Sorry for wasting everybody's time.

Scott Linn 14:59
Yep, no, no, not at all.
Good question. That actually brings me up to one other piece here.
So this is one I'll be trying to get this out on the portal here pretty soon.
And.
Is that coming up the the tech note?

Elliott, Ryan - FS, CO 15:19
Yes.

Scott Linn 15:19
You guys still see the techno? OK, so we built or I had one of our.
Aces managers, Lonnie. She helped me build. Or she built this for us, which is really the techno very similar to what wims used to have. And it has, really, the API service information. And then really all the calls that you can do. And this one is particular for.
Fire danger right now and then it has examples of what of what are the available parameters to change, and then examples of each call and what those.
Those would look like. So we are going to get this out on the portal so that everybody has this tech note available.
As well.
And then we are also building up one for weather.
That should hopefully help out.

So you don't have to log into wins every time if you want to adjust your query, and you're not sure what parameters what it's supposed to look like. This will help explain like time formats and such that you can do. What possibilities are the main pieces that we.
Seen is that.
You need to make sure that when you're requesting multiple stations that you still have.
The restrictions that we have applied so right now we only have one station for greater than one year. Even if you go in and adjust the query, it's still the system's not going to allow you to pull in more than that.
Data restriction limits we are working to get this opened up more.
And right now, the proposal is to have up to five to possibly 7.
Stations for the entire period of record and zipped into one time.
The issue isn't with our system. The issue is with the CSV file type that it limits really the amount of data that can get pulled in and it really between the two systems between you're trying to get it converted into the CSV file type.
It really limits the amount of data that you can pull.
That's really why when people are pulling through the API and pulling into a Jason or some other format, they're able to, they we don't have the restrictions on that because we really we can handle the amount of payload.
It's the file type conversion to CSV that's really the the the overall constraint on the fems system.
So just so you know in in these again we are working on getting that changed and we're hoping to be able to have that in that 35 release.
Those are like one of those small things that I keep talking about that we want to add in on A-35.
That would be one of them is trying to loosen up these restrictions.
On here so that we can have, you know, up to five years of or five stations for the entire period of record.
So now that's a good question.
I don't mind.
I don't mind questions like that by any means so.
Any other questions on I guess transition?

E **Elliott, Ryan - FS, CO** 18:09

I I found out what my mistake was.
It was.
It's in the weather observation and appended forecast and I was looking at the forecast.

Scott Linn 18:16
OK, OK.

Elliott, Ryan - FS, CO 18:17
So that's Yep. Thank you.

Scott Linn 18:18
Yep, no problem. Hey, Todd.

Erdody, Todd - FS, MT 18:22
Hey, good afternoon.
Just wondering when the QAQC data for like calendar year 2324 etcetera is going to be available for use for analysis?

Scott Linn 18:37
Yeah, we're working on it. There is.
There's a lot that goes into just that because.
When we were requesting that data set from DRI, there's also a lot of potential changes that we could do with the data set.
So TAH, Tim's been working very much on the weak points of the current algorithm, which really comes down to the precise.
And also trying to understand is there a better method or has he, you know been able to find out a method for us to be able to do QAQC and do and actually replace the data and not get the anomalies that we were seeing with the original version.
One QC data set and that way it would help take out a lot of these wind anomalies and RH anomalies that we've been seeing.
And I know there there's there's quite a bit of them around the country.
That are out there and and people are not sure how to deal with that data set.
So we're trying to understand those pieces and parts and when and if we're going to get a whole new data set for say 20 to 23232425.

One which stations do we want to now add in because it adds in a a bunch of new stations as well, because the original data set you had to have at least three years of data from 2022.

Lozano, Arturo - FS, CA 19:54
Hi.

Scott Linn 20:03
Now, if he's going to redo it, that opens up more stations.
And we'll be able to do some more gap filling of stations that had not, you know that didn't have the previous three years of data.
So those conversations are happening is really what the long and short of this is.
We're trying to understand that timeline, but we're also trying to make sure that you know, if we bring in an entire new data set, again, it's gonna, it could potentially have impacts on anybody's analysis that they're performing.
So we don't wanna really be doing that. You know, too terribly often.
Because it's gonna, it could potentially have larger, you know, farther ranging impacts on on your analysis products that you perform and you guys are already mad at me and I don't wanna make you even more mad as I.
Update the entire system every six months because we wanted to get new gap filled information.
So we're hoping within the next year, Todd, but there's no guarantees on that that's going to happen.
One, because of all the budgetary constraints that we have occurring, the development team changes that potentially might be happening because of those.
And even if you know where, I guess the FEMS overall project is going to land in the priorities of the bigger pictures.
So I'm hoping within a year to give you an answer and we'd be able to provide that information or get, you know at least a gap fill information in there and potentially get in a new, you know, cleaned up or you know.
Weather data set so but for right now we're kind of where we are for the data that you have.

Erdody, Todd - FS, MT 21:34
Yes.

Scott Linn 21:35
Yep.

Ewell, Carol - FS, CA 21:42
Hey, Scott, it's Carol.
I had the same question, but for the potential Karen Short interagency fire history data set.

Scott Linn 21:50
Yeah, you want to fight your current status, don't you?

Koch, Shea - FS, SD 21:51
Delete.

Scott Linn 21:53
Yeah, we are working on getting that fire occurrence data set.
We need to.
That's part of, I guess the long term development understanding and and really a lot of the potential within Power BI is being able to do all that analysis work with the Karen Short data, so.
That is on the docket for next year is to get it in so, but there is also how do we what other data sets do we bring in for the for states that are for other entities?
That don't utilize don't have that data set.
So or are part of that data set so.
We hope to.
We hope to have it in Eamon, Yep.

Ewell, Carol - FS, CA 22:32
Thank you.

Engber, Eamon 22:36
Yeah, just a question on, you mentioned the next release in December and you said we'll have ability to edit station catalogs.

Scott Linn 22:42
Mm-hmm.

Engber, Eamon 22:45
Did I hear that correctly?

Scott Linn 22:47
So we're gonna allow admins at this point to be able to make those changes.
So we are going to. It's gonna be very limited. Who can do that. But again as you have changes reach out to us.
Reach out to myself, Travis or Cheryl for now. And we can get those changes that you want added in.
So that's how we're planning to move forward with this.
In that.

Engber, Eamon 23:13
On a case by case basis, essentially and not yeah. Not just a free for all, but if we've got a good justification for a specific FDAP or something.

Scott Linn 23:21
Exactly, yeah.
So if you do like you know for the southeast, they're like, hey, we need to move our, you know, humidity threshold to, you know we don't want it 25, we want it at 47 1/2 like and you can they can say like yeah these.
Are the reasons why that we want to have it at 47 1/2?
Here's the examples of what it looks like.
This is what we want to do.
Yes, we can make those changes again, reminding everybody that when we make catalog changes.
We are going to be then having to do recalculations, so if it's not just a Raz that is.
Utilized by yourself, but there's interagency partners using it.
You need to make sure you're having those broader discussions about the impacts of what is going to occur.
So. So making sure that those discussions are occurring and that all parties are

known that you're going to impact the analysis or the outputs or potentially impact the outputs of the system or those stations is is key to this whole process?

Engber, Eamon 24:17
Yeah, 100%.
Because breakpoints would change.
And yeah, decision points as well.
So Yep, noted. Thanks.

Scott Linn 24:24
Yeah. Yep, Yep.
All right, I'm gonna go over a couple other topics. I guess that have been brought up over the past couple of weeks, months to me and kind of be seem to be.
Just overall arching topics, I I thought like I'd covered them, but I'm. I'm gonna go over them again just to make sure that, you know, everybody's clear on it. So remember that.
When we develop fems, there is no connection to whims whatsoever.
We didn't bring in any over any data over. We didn't bring any weather over from Wim's. If you did data manipulation inside Wii's, it was all left over there.
All of that historical information is in the data warehouse. If you want it. It is there available, but we did not bring in like if you change, you know RH values or any of your weather inputs or any of that stuff. None of that came over with when.
We developed fems. The two systems were.
Did not touch in any way shape or form.
The only real, I mean, we looked at the database information in what stations we could bring and that was about it.
And then we just brought over some of the wins IDs for stations. But other than that?
There was.
There was nothing of like, hey. Yeah, this station was in here and you know.
Or this data was in here?
Why is it not in fems?
It's because they didn't.
They never were.
They never connected.
And there's multiple pieces and parts of that.

Especially like when you talk about, hey, why is the station that I had in wims not showing? There can be multiple reasons because you know one it could be the station.
Type wasn't what we were bringing in at the time. Some of them we really brought in type Type 4 stations, Type 6 stations.
And we did not look at a lot of the other stations over to bring into. And so we, we continue to look at some of that stuff.
But there was a lot of that.
Of why stations didn't get brought over, or some stations didn't get brought over.
Why a station that was in existence in, say, 2000 or 2021?
It only has history.
Now back to, you know, March 30th of this year, again, when we brought in the newer stations, we did not bring in the historical information from those because we did not have the reliable weather information.
That DRI provided us on the original data set, so we didn't go into wiiims.
Grab that information and bring it over.
We just started from new and started calculating from that point. Going forward, if you want to do analysis or or utilize that station's history, you can bring in that station information or that weather history from the data warehouse or wherever if you have it and do any.
Types of ratings, but again, if it didn't have at this point.
Doesn't have the 10 years of data anyways, so we really shouldn't be utilizing that inside any analysis products.
Doesn't mean we can't be utilizing those stations for fire danger information and providing us where that state. You know what the rating is for that area based on an analysis performed in that surrounding area and utilizing stations that did have the amount of data.
So just some again overall processes of what we did with Wiiims or FEMS and how the connections and connections didn't exist.
Again, reminder that our POR record so on, I'm going to do a screen share because I just want to make sure.
Everybody sees it, so we redid.
The.
We redid the portal a couple of weeks ago and you'll see now that we have some different accordions down here.

We have fems datasets and information, so if you're looking for what stations are brought in, all of that information that would be in here.
So that's all the climatology NFTRS system. You can find additional information on this site. Most of the questions that I get asked on a you know daily basis.
This most information can can be found on the portal through one of these pieces of information. We also have the general information which talks about our general notices and then any additional reference information around NFDRS. We're going to be expanding some of this inform.
Moving forward here as well to try and include some information that was on the NFDRS subcommittee page.
So start looking.
There will be that possibility of bringing this in over the next few weeks.
That we might have that additional information built into here.
The user guides will help out again with how you get started moving forward.
There's some videos how to use the API and while I'm on the API question.
Fam auth does not yet have the availability.
To request access for that.
So they are, I think in October they are going to be having a new update.
Will they will.
Be able to request access to a particular product or a role within a application.
Until that time, shoot me an e-mail and we can grant you access to the fems API if you're needing that information.
But this this has all the user guide on how to do this.
I don't know the answers to the API. If you have questions on it, I'm really not the person for that.
I just.
I know enough just to kind of briefly.
Talk about it, but I don't know.
Like how to get into postman and all.
I haven't played around with it enough.
You're really gonna need to start branching off into others that have definitely made those connections, and I've heard.
Overall, I think it's it's working fairly well.
I know there's a couple of little finicky pieces about it, especially with postmen, and some people don't like using it, but I think there's other alternates as well on how to

access that information. You'll also see in here we're working on the power BI reports information, so look.
For this to get posted here pretty soon, but again, just in general, most information that you need.
Is going to be in on the Fems portal and it really talks about, you know, especially the climatology data.
I would highly recommend taking some time looking over and watching Tim Brown's doctor Brown's presentation on this and what he did in the past and how we have the information and then looking over really the the Ros QC and the gap filled POR description so that.
You know the timelines of why data is not showing.
The other question I get fairly often is hey, I'm downloading an FW21 and I'm not seeing any.
I'm not getting anything.
For this Ross station.
This this will help explain if that's happening, but also if you get into the Raz data, the Master station list has on here, what stations were included in the period of record in which stations weren't in the AESOS.
Stations are included, so this will help answer those questions. If you're not getting FW 21, which you should be getting an FW21 for everything.
It just might not go back to 2005.
But it'll go back to, you know, 20. You know, the big March 30th of this year.
Basically, if that station was not included in the POR.
Let's hear. So that was kind of, let's hear that time's available.
That's API. The only other piece that I really wanted to kind of touch on is observations and.
And you'll see now in the I guess I'm just gonna real quick update you you can see.
Now that we got rid of all of the clicks up top, the tabs are gone.
That was because it was going to be a limiting factor as we continue development, we're only gonna be able to do so much.
So everything is over in the hamburger now.
You gotta.
You gotta navigate to the site this way.
I get often get questions from from users on. When do we get the observations? When do observations come in? And remember that Fems is built off of an hourly

system.
So observations are coming in every 15 to 20 minutes.
We we get a fresh new ingest of information from all the raws that have reported during the previous 20 minutes.
We then calculate fire danger if it was. If it was during that time frame, and then we post the information right away.
So observations are coming in continually into our system.
You don't have to wait to watch and see when.
An observation is for that you know hour.
It's fairly simple.
Able to look and see when that is and you can easily tell on each station.
It will tell you what hour of what hour or observation time that would be.

Crawford, Eric - FS, WA 33:27
Yeah, we've arrived.

Scott Linn 33:28
So this would be the 9:00 period, but that that time that station comes in at 84843 Pacific Time every day.
And so that's there.
Every hour, 43 past the hour.
So this station, if I want to be able to wait, I know that it's going to come in right around the top of the hour.
Each time and I know I should be getting a new hourly weather in just at that time.
Time as well as a new hourly fire danger output at that time as well.
So that's for the fire, weather and fire danger. So for the hourly fire information and you can see that as you go over to fire danger, it should be as well.
The same thing when I look at this, I will be able to see.
When my hourly observations are as I move forward and then I should be able to see the forecast information going forward.
Which again is on here. When you look at the legend, you should go to see if they're diamonds.
They're forecasts the other way to look at that is, if you watch our videos, you'll be able to see this, but you can see that they are dotted lines as opposed to style lines.
The dotted lines are forecast information, so you'll be able to see what the hourly

forecast is for fire danger in here, so you don't have to wait like we did in in wims in order to get what your hourly or what an observation is for fire.
Danger now as we go to daily Max daily Max.
Is only updated once a day and this is around midnight.
UT no midnight.
I think it's midnight Eastern that it's actually running.
And so.
The this information or I'm sorry, it summarizes the data at midnight local station time, so it will take all that information. So as so it will give you.
The the hourly Max value for the 24 hour period previous to that. So if I'm looking at daily values for today, you will see that everything is a diamond. Everything is a forecast.
It's important to know, especially when I start looking at weather information and I go to daily summary.
I am seeing and I go to precip.
This is the this is a forecasted precipit total for the 24 hour period.
This is not what stations are seeing for today.
So if I want to look at the what has station has received today, I need to make sure that I switch over to the hourly information. If I use daily summary I for today I will only be seeing the forecasted information. Now if I want to see what?
The daily summary was for yesterday.
I can do that and you will see these all switched to the circles, which is an observation.
So there's been a lot of confusion about that as well that people are not.
They're looking at the the daily summary for today and thinking that it updates every hour and that we know what the sum is. It doesn't.
It runs the forecast for the full day today and then if I want to know what the summary is of the total weather, I need to click on an individual station and I can look at the observations and I'd have to add those up to see.
What I am getting for a forecast?
Or what the the observations were for that period of time, or that you know how many hours it has been raining?
So that's one way to do it.
There's also multiple other sites out there if you'd like to that have more in depth weather analysis information that you can that you can do.

We just built again a very what was needed for fire danger.
And describe that and and build that into the basis of Fems right now.
Now again getting into what we could eventually do.
Yes, there's a lot of opportunities.
We don't know if we're gonna get there and when that gonna be because we have a lot of other priorities happening, so.
Questions on that.
So in the chat, does the latest version of Firefly plus allow you to bring in Pre 2020 fire data from inform?
I read that the change was supposed to happen by the 1st crack.
It didn't seem to.
I know that that has been, I think from what I've been hearing from faithann, that's been an issue.
I don't know.
I haven't been playing around honestly, Scott in Firefly plus a lot.
Over the past six to eight months.
So I really don't know, especially getting into bringing in the the Karen Short data.

C **Crist, Scott - FS, IL** 38:31
Yeah, no, no worries.
I'll I'll check with Faye.

SL **Scott Linn** 38:34
Yep, yeah. If somebody else knows, I don't know if anybody else would have that answer on the call. I just.
I don't know for sure.
OK, mark.
Yeah. So.
How is the fire danger flag being?
Evaluated. So yes, we used to have on here.
The fire danger flag.
And it was determining if it was considered a quality data or not moving forward so.
We did remove.
We did remove that piece or we at least.
For now, it is still one that we want to work to get implemented if it's considered

quality.
Reading for NFDR information or not, how is it determined? Is that one the original piece of this is if it was missing anywhere from 1 to 23 hours of a NFDR calculation that it would flag it.
As a quality control check for the following 24 hours and then the flag was supposed to turn off.
If the system recognize that it was not getting information for more than.
I want to say it was three days that we had.
Then the system would restart in the.
I'm sorry if it was more than 24 hours.
The flag would be on for 30 days and then after, I believe three days, the system would reset.
So being there would go to the original start up values and start calculating on and then again it would be. That flag would be on for 30 days until the system.
Reacclimated so.
There are some complications to it. You need just even. I don't know if anybody even followed.
I was trying to get to but.
We we had to turn it off 'cause. It was just on too much. The system wasn't really reading the way that we were hoping.
They had planned.
So you're just gonna be back up to the user to make sure they're looking at the data and seeing if if it's missing observations or not.
Not.

SM **Steele, Mark@CALFIRE** 41:23
Yeah. Thanks, Scott.
That that's pretty much what I thought was the case it it all.
It's all gonna be to the users to make sure they're checking their stations frequently because you lose data and and it's gonna cause problems. So thanks.

SL **Scott Linn** 41:37
Yeah, correct.
And we will get, like I said, we do plan to automate that again and having those flags visible for users very much like we have when there's missing information.

But we just, you know the the business rules around it and trying to code it that way.
They just ran into some difficulties and it wasn't the highest of priorities.
So I just instead of trying to fix it at this point we just turned it off and know that we'll get. We'll eventually get to it.
So, but but there were much higher priorities that we wanted to to get to.
To keep moving forward so.
But I think the code I haven't checked to see if when you do a download if the code is in the CSV or not, it may still be in there.
I think it's just the visualization, but I don't know for sure if they during a download if if it's showing up in the download so.
One of the piece we did add back in you can search again by your station ID.
So you'll be able to type in station the ID up top if you go to the tables you can search station ID's through here and on the downloads you will also be able to search via station ID as well.
So we add those back in.
We did not add the station ID back into the actual download.
Yet that was based on the feedback of there's too much transition happening.
Can we hold off on doing that? 'cause. It's gonna break a lot of spreadsheets.
And so we are gonna hold off on doing the station ID until the December release when it will be added back into the spreadsheets. And so that when you download it, you'll start seeing those as well.
But that'll be the December release.
Yes, Alan.

H **Hepworth, Allan - FS, GA** 43:34
Scott, I apologize if I missed this, but it looks like the extension has been added to the get data URLs.
Do you know how how long?
That's the the old version of that get data URL is gonna work before it forever. OK, sweet. Thank you.

SL **Scott Linn** 43:51
Forever.
Now yes, I would recommend switching to the ext.
Ension and that's to do is add that in, but if you don't, it's OK.

Hepworth, Allan - FS, GA 44:04
OK.

Scott Linn 44:05
We so, so the. So this is what we added back in July when we added the READONLY database.
We just changed this year so that when you click on the copy data link now it links into the read only database which is also one of the things that helps us out get.
System so that we will have downloaded a little bit more.
So that's really one of the pieces that yes, we have the two databases.
It's a read only and our production database, even though you can't do any read write information into any production database.
Even I don't access to that.
But we just didn't want to have people really reading directly into that in case there was any malicious intent.
And so the exterior, the extension is just our external database is what it is and it's just a read only data.
This song.

Hepworth, Allan - FS, GA 44:58
Grazi.

Scott Linn 45:00
Not a problem. Good question.
Thank you for noticing that.
I forgot to bring that one up. So, but yeah, the other ones will still work.
We're not gonna.
We're not gonna turn those off on you.
Other questions?
Yes, Steven.

Volmer, Stephen@CALFIRE 45:40
Yeah. In regards to training have have you been approached by anyone on the 491

or 591 cadres to incorporate all this data and new information and applications into those training classes?

Scott Linn 45:55
Yeah, I've been working well.
We were working with 491 to get a lot of the basis information in there.
A lot of that was well, let's see here.
Since we since that course had kind of been starting to get, you know, cleaned up and rewritten.
Yeah, I worked with, you know, Michael on quite a bit of that information and the the changes that were occurring and I think they've captured most of the information.
And the new revision that they're working on as far as how everything works and I know Faithan was working off of the fire family plus database, the version two or version three database. So that she has the same outputs and getting all new.
The pre coursework and the coursework itself to line up with the fems information as well, so that those two system that the the training lined out with the new information.
So we had been working pretty heavily on that since it's been postponed a little bit.
And I haven't had as much communication with them, but they've I think they've gathered most of the information that they need at this point, so.
But if there's, I know that you guys are putting on a course if there's certain questions you guys have, definitely reach out to me or you guys are doing what January, correct.

Volmer, Stephen@CALFIRE 47:21
Yeah, we're looking at the week of January 26.
So yeah, I think everything.

Scott Linn 47:25
OK.
Yeah. I mean, if you want some help, you know I can.
Probably I can probably see if I can schedule it out that way. If you guys are looking for help as well. So.

Volmer, Stephen@CALFIRE 47:28

'S.
Yeah, I'll pass that along to the group I know.

Scott Linn 47:36
Mm-hmm.

Volmer, Stephen@CALFIRE 47:38
I think everybody like you said, is moving right along with the inputs for 491 and just kind of curious, we haven't heard or I haven't heard any scuttle on another 591 class since it was canceled a year and a half ago.

Scott Linn 47:53
And I haven't heard anything on that one yet either, so.
Yeah, I know there's some definite questions about that one, so.
John. Yeah, you and I need to have a conversation.
I know that.
And so about the forecast.
The reason?
I haven't had.
I just haven't had time. I need to get with one of our developers.
I want to sit down with them, get the information that you have on the forecasts, look at it in depth on our side as well to see exactly what's occurring. And then I'm gonna reach out to you to understand.
And what are fixes for? If there is, that is, if the issue is occurring, how we can make that fix occur?
So I'm not going off, I apologize.
I'm I'm trying to support fire assignment as well.
And it's just been a very hectic couple of weeks with the release happening and then trying to do this.
So I I apologize for not being more responsive to your questions.

Bonk, Jonathan T 49:08
I know you're good, Scott.
I was I I phrased it very specifically.
Are you ready to 'cause?

Scott Linn 49:13
Yeah, yeah, exactly. No, I know.

Bonk, Jonathan T 49:14
Yeah, I know you've been busy.

Scott Linn 49:15
I've really and I needed time to like really get a full grasp of what's going.
I just haven't, like I said, with our developers the past week, they're really focused on the development or the release and I don't want to pull them away from that because it derails the system.
So now that we have that behind us, I can really you know, I can bend their ear for an hour and I don't feel so bad.
So.

Bonk, Jonathan T 49:39
OK. Thanks.

Scott Linn 49:39
And then and then you and I can, you know, like I'd like to do is be able to actually.
Sit down with you and and one of them and and go through that and make sure that we've got everything we need. So yeah.

Bonk, Jonathan T 49:50
OK, sounds good.

Scott Linn 49:51
Yep, Jamie, you put on here a few questions about the older SIG rod selector tool.
Locally it would be great to have a new version of this fresh data and new stations.
Is there a plan to do that?
So what we plan to do, Jamie, is.
This is one of the discussions again with Faithann kind of as well, not just kind of.
It is with faithann in the reports part of.
Fems now.

We have the ability actually.
I'm gonna go back one.
When you look at our station information.
We have the abilities now in here to have maps. This map is not bringing up right now and that's again part of trying to get the integration. The two things to connect just having power in power BI integrated into this system was a monumental task and really is.
Going to provide some real big horsepower for us in the long run. I know it's hard to see in the very beginnings of this, but.
Just by having these connections.
I really hope to be able to see it so that will be able to build reports like this or reports that all like dispatches. You might be able to use or like you know you're looking for, like you know an if pal or a pal report you can.
Download this and grab it.
Grab the report and we can share that.
So it's one singular report that dispatch centers will use and they don't have to go through and build.
They they won't have to build their own Excel spreadsheets to get the information they need.
So where we'd like to be able to do is have this so that basically in you'd be able to have your mapping piece up on here and you'd be able to do your lasso tool.
Type of things such as you know for, for grabbing stations and you'd be able to understand and look at OK, which stations you know match well for ERC or BI or is it wind or what type of climatology are we looking at that we would want to have?
A better understanding for because we may SIG station or we may.
You know merge stations together that you know for, ER, CS. These four stations might work really well, but for BII don't want to include these other two. I want to include these two because they actually fit well together and we we want to start looking at those cap.
Because they don't.
All all stations don't always fit together well. If they're if, depending on what question we're asking. And so that's really the tools that we're looking to get in the future.
And to move towards is is integrating this information.
And being able to utilize harness the power of this since it's directly hooked into our data sets, this is something where our data your when you look at these reports and

you start doing any querying of information you are pulling directly from.
The force you know from.
The from the the Fems web, the database, and so for us to be able to be able to make those types of connections happen.
You you know, it just gives us a lot more power.
Than we have ever really been able to have in the past.
So again, I know there's not a lot to look at right now, but this is where where things are kind of going towards and you can start seeing, you know, hey, what what time, how many agencies we're starting to look into, you know, this would be one of.

VT **Verdegan, Travis (DNR)** 53:09
Scott.

SL **Scott Linn** 53:19
Them is.
You know how.
What's the station's history look like? You know what numbers are? What? What are?
What's gap filled?
What's not gap filled?
How many?
How much Dacian data is missing? Like all that information, is what we're trying to get built into these reports.
And being able to publish so that you can start looking at and seeing all this in you know some quick easy information or we don't have to individually now on the development team, the development team doesn't have to spend their time and energy developing all the information that.
We really need on the analysis side so.

VT **Verdegan, Travis (DNR)** 53:53
Hey, Scott, you want me to demo the lasso tool on the desktop version?

SL **Scott Linn** 53:53
Long answer, Jamie, I apologize, but.
Yeah, sure. If you got it.

Verdegan, Travis (DNR) 53:59

Yep.
And screen the whole day so.
What Scott was getting out there.
So we'll just do a little bit here.
We'll zoom into Alabama.
Instead of bringing something to look at.
These are on board Esri features that also work within Power BI.
But if I wanna create my list of stations that I look at, this is again a very simple report.
But what you can see here.
By including.
The average annual precept is you can start to see things that are that are unique and how closely related are these.
So this Grove Hill is one that stands out as being.
A few inches bigger.
So must be a rainy part of of Alabama right there.
I don't know. Ethan's probably not on, but.
If we were to do something, let's just make some extremes here.
So we'll go, Arizona.
To Alabama, you can see how much different that is. This is the same type of data and and approach that we can build in to do us like a SIG selector tool or that.
Association type stuff.
So it's all there.
It's just we are in the crawl stage of putting this together and trying to get it so that we actually have the level of support that we need.
So it's not just Scott and I trying to trying to put these things together.

Scott Linn 55:32

Yeah. Thanks, Travis.

Dunbar, Jamie L 55:33

Appreciate the discussion on it.

Scott Linn 55:43

Yeah, there's a lot of capabilities within this program that we'll be able to do and make that we just, you know that really are gonna, I think bring us to really some some more advanced analysis like instead of having you know, area under the curve, we've all talked.

About doing area under the curve for fire danger information, well, this is something that we can easily do within power BI and you'll be able to see it for all stations and you don't sit and worry about.

You know, programming it in through Python or any other way.

We'll we'll be able to make those types of that information and when we get there right here very handily for you, you know, all the fire, other fire analysis breakpoints that we've been doing, there's there's capabilities within this program to be able to do that. And again because.

Power BI.

It's Microsoft system.

It's integrate, you know, with all even state agencies and all the federal agencies are utilizing it. So it's very.

Universal to use throughout the system.

So or throughout the partners?

So any other final questions or comments, I know we only got a couple minutes left here, so.

Verdegan, Travis (DNR) 56:58

Matthew Turner's filling in for the information on that Roz down there.

Scott Linn 57:03

Yeah, exactly.

Rain with a name.

Verdegan, Travis (DNR) 57:05

Should have known he was on.

Scott Linn 57:18

All right.

Well, thanks everyone.

Scott Linn stopped transcription