COMET-Farm API File IO Description

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We have a UI site which you could use to upload xml files directly :

<https://comet-farm.com/home/apiview>

On this site you input your cfarm email and select the xml file to upload, and it will send the input xml file to our server to be parsed and added to the API queue. This site generates a post request which you can examine and reverse engineer if you want. A brief writeup below describes how to format of the post request that I wrote in august for a different group.

FInally, to see the API's status and view which files it is working on you can go here:

<https://comet-farm.com/home/apistatus>

When the job is done the results will be emailed to your cometfarm email in .xz format (mislabeled as .lzma, in any case 7zip will be able to open and extract the results)

The write-up on the post request is below:

**POST request description:**

This is a post request to this address:

[https://comet-farm.com///ApiMain/AddToQueue](https://comet-farm.com/ApiMain/AddToQueue)

the body of the post request is:

LastCropland:-1

FirstCropland:-1

email:[EMAIL@EMAIL.COM](mailto:EMAIL@EMAIL.COM)

LastDaycentInput:0

FirstDaycentInput:0

URL:ADDLISTENINGURLHERE

Files: **(type file, value is the uploaded .xml file)**

**Notes:**

The uploaded .xml file should have each cropland run be a model run node. The numbers in LastCropland and FirstCropland refer to the order these appear in the file.  i.e. LastCropland:10  FirstCropland:5 would mean of the runs in the file, only do the 5th through 10th run.  If the LastCropland is negative then the APIwill run every model run it finds in the file.

email needs to be the email of a registered cometfarm user. The finished API run results, inputs and errors will be sent here when the file is done. NOTE: Our team has implemented an opportunity to receive the API results via webhooks, however that is being tested on our development site. We expect it to be available for general users by mid-May, 2020 and we will update this documentation at that time.

LastDaycentInput and FirstDaycentInput are for which model runs you would like to receive the daycent inputs that the API built for those locations. These are the schedule files that daycent uses to perform its runs. Leave as 0 to omit returning them or set LastDaycentInput as a very large number to return all inputs.

The URL field is optional, and is available to add the URL where a server app is listening for a response to the POST. If the URL field is populated, the response will be sent there. If empty, the response will be sent to the email address provided in the email field.

The file key is the actual file being uploaded. In postman this can be set in the body of the post request in Key Value mode by adding a new key/value of type file and choosing the input xml file.

 If the post request is successful you will get as a return message:

File successfully added:

NUM NAME

Where "NUM" is the position in the queue of your uploaded file and NAME is the name of the file you uploaded.

***Using Webhooks:***

Users may also use Webhooks, either through webhook.site or webhook.script to post model run requests to the API. See the Webhooks documentation at <https://webhook.site>.

***Error Trapping:***

Please see the error trapping explanation in the .pdf file titled ‘COMET Tools API Presentation 9 June 2020.pdf’.