Annual Soil Refresh

Managing Queues and Submitting Trackers

1. Shut off queues – Tammy does this.

When the sdmOFFLINE data update is almost complete - use the following to create new SSA Exports, but **before doing this, disable the following:**

SoilsDashboard - Data Manager - Data Warehouse Polling - Update SSAs - DISABLE

SoilsDashboard - Data Manager - Daily Scheduled Tasks - Update Export Cache – DISABLE

**Data warehouse polling – Update SSAs** -automatically moves newly committed data in the warehouse to the sdmOFFLINE database.

**Daily Scheduled Tasks – Update Export cache** – automatically moves the new data in the precache to the cache directory.

New SSA exports will be created in the WSS File Share 2 - DownloadSoilsData - PreCache - SSA directory

1. Export from Offline a couple of surveys so they show up in precache but not in WSS. – Tammy does this.

Use the SoilsDashboard - Data Manager - Single Task Requests - Export SSA from Offline, but use wildcards sparingly -- only to process 5 or less SSAs at a time.

Export a couple of SSA’s and have Soil Business verify that everything is correct before doing all the exports. Soil Business can give you some suggestions on what SSA’s you should export for this test. This should be done a week or two before the annual refresh.

I usually run one export from OFFLINE and wait a day to make sure WSS is not showing the new SSA export files in the ‘Download Soils Data’ tab. If you do see the new export files, the 'Update Export Cache' is not disabled. See above for details.

If this happens, this is how you fix the issue

* run 'Export SSA from ONLINE (need to generate the old SSA export)
* create DB Tracker - to tell PSO to move this export file to the 'cache' directory and delete the new one
* the correction will be visible the next day in WSS, it always takes a day to make things visible in WSS.

1. Run SQL to generate output file to be attached to Tracker to populate precache. – Tammy does this.

The following sql to that can be used to generate the exports for the entire sdmOFFLINE database – anything updated since ‘July 31, 2021’. Run this sql in SSMS and save the output. You will have to edit the output, remove the comma at the end. Tammy has this file stored in C:\Users\Tammy.Cheever\Documents\SQL Server Management Studio\Projects\ASR-query-to-get-output-for-dbtracker-update-precache.sql. Be sure to change the date in the sql. The output of the file gets split into 4 batches. See this year’s example at: C:\Users\Tammy.Cheever\Documents\Staging Server\AnnualRefresh-FY22-20211001\Create\_SSURGOExports.sql.

**The tracker for Sep 2021 was:** [**https://colab.sc.egov.usda.gov/cb/issue/660503**](https://colab.sc.egov.usda.gov/cb/issue/660503) **This is the first of three trackers that will be submitted.**

Create a DB Tracker for PSO so they can run the output of the sql on the production server. Do not need to assign it to PSO. They will pick it up automatically.

This process took 48.5 hours to completely refresh the precache. Put comment in tracker for the number of rows that will be processed. In Sep 2021 it was 3,374 rows. Once tracker is done, verify count. The folder should have twice as many files because on zip file is an empty template and the other zip file is all the data plus an empty template.

------- run to the SQL needed to create the export cache for all new data

------- edit last row - remove comma at the end -- parse the SQL to make sure it is

------- valid. Create a database tracker for PSO -- to run the SQL on nrcpSCI,26020

select 'insert INTO [sdmmgtONLINE].[dbo].[DataManagerTaskRequest] values '

select '(getdate(), ''' + areasymbol

+ ''', 16),'

from sdmoffline.dbo.sacatalog where saverest > 'July 31, 2021 01:00:00'

order by saverest DESC

SSA Exports are managed by a table in the sdmmgtONLINE database, table DataManagerTaskRequest. You can view the queue with the following SQL:

---------- shows the taskname for all dmtaskid

SELECT \* FROM sdmmgtONLINE.dbo.DataManagerTask

---------- displays list of SSA’s in the data manager queue

SELECT \* FROM sdmmgtONLINE.dbo.DataManagerTaskRequest

1. Verify correct number of files are in the <https://soilsdashboard.sc.egov.usda.gov/DataManager/WSSFileShare?dir=DownloadSoilsData%2FPreCache%2F> – Tammy and Kyle or Deepak can do this.

The folder should have twice as many files because on zip file is an empty template and the other zip file is all the data plus an empty template.

1. After the precache has been populated and we have verified no updates are making it out to WSS, Tammy will submit the next two trackers.   Both should be put ON HOLD status and send email to Jamie Foster, PSO giving her heads up about the trackers.   Be sure to update dates in the tracker each year.

<https://colab.sc.egov.usda.gov/cb/issue/660672>  -- DB Tracker for Sep 30, 2021 Soils Data Refresh

For the DB tracker only, assign the tracker to: Kyle Stephens, Deepak Ahuja, Paltiel Kelsay and Susan McGlasson (only need to do Susan in 2021 but not next year. Make note in the tracker that these people are being assigned so they can track progress and answer questions if needed. They will not be doing the work of the tracker.

<https://colab.sc.egov.usda.gov/cb/issue/660675> -- App Tracker for Sep 30, 2021 Perform IIS Reset after Soil Data Refresh