

Monthly Parcel Update

Brian Kingery

Oct 11, 2016

Main Folder

<R:\Divisions\InfoTech\Shared\GIS\Parcels>

Script

<R:\Divisions\InfoTech\Shared\GIS\Parcels\Scripts\MonthlyParcelUpdate.py>

Directions

1. Navigate to script → Right click → Edit with IDLE → Run
2. Let the script load and type the first function, **Start()**
 - In the UpdateFolder, a folder with today's date will be created containing a folder called CityData and a geodatabase named **Parcels_TodaysDate**.
3. Run the following functions to pull the data from the web automatically individually
 - **WBParcels()**
 - Website
<https://www.williamsburgva.gov/Index.aspx?page=793>
 - Parcels.zip
<http://www.williamsburgva.gov/Modules/ShowDocument.aspx?documentid=3604>
 - **NNParcels()**
 - Make sure you have access to T:\GIS.gdb or \\10.5.106.7\enggisdata-34\avexport\GIS.gdb
 - **JCCParcels()**
 - Website
<http://www.jamescitycountyva.gov/397/Mapping-Layers>
 - jcc_parcels.zip
ftp://property.jamescitycountyva.gov/GIS/layers/jcc_parcels.zip
4. For York County Parcels, connect to the following GIS Server
 - <http://maps.yorkcounty.gov/arcgis/rest/services>
 - Add the feature service to ArcMap
 - AGOServices → Parcels Feature Service
 - Export data to main geodatabase as YC → UpdateFolder\TodaysDate\Parcels_TodaysDate.gdb
5. For Poquoson Parcels, contact WorldView (Carter Chumley carter.chumley@worldviewsolutions.com) to set up an account to submit data requests. Data updates quarterly.
 - When data is ready, save zip file to
<R:\Divisions\InfoTech\Shared\GIS\Parcels\UpdateFolder\TodaysDate\CityData\Poquoson>
 - Run **POQParcels()** after ensuring the zip file is named Waterworks.zip containing a geodatabase named Waterworks.gdb containing a feature class named Tax_Parcels.
 - Alternatively, just open and save data manually
 - Export data to main geodatabase as POQ

6. For Hampton Parcels, contact GIS Manager Allan Lambert alambert@hampton.gov or Andrew Foo afoo@hampton.gov. Data updates quarterly.

- When data is ready, save zip file to

R:\Divisions\InfoTech\Shared\GIS\Parcels\UpdateFolder\TodaysDate\CityData\Hampton

- Run **HAMParcels()** after ensuring the zip file is named Parcel.zip containing a shapefile named PropertyPolygons.shp.

- Alternatively, just open and save data manually

- Export data to main geodatabase as HAM

7. For New Kent County, download the CountyGIS.gdb to \TodaysDate\CityData\NewKentCounty

- Website

<https://www.dropbox.com/sh/ynce0em649y5aas/AACjCT4zCthTqNwAIL7qL7Aka?dl=0>

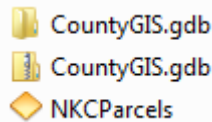
- CountyGIS.gdb

<https://www.dropbox.com/sh/ynce0em649y5aas/AAAN5xE8tjXoeOco3jOQn-Fga/CountyGIS.gdb?dl=0%3F1st>

- Since the file downloads as CountyGIS.gdb.zip, manually copy contents to a folder named CountyGIS.gdb

- Run **NKCParcels()**

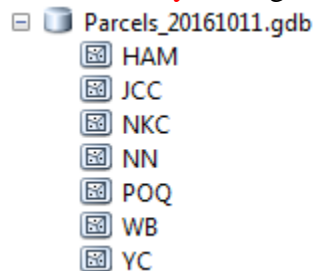
- Output is a layer file named NKCParcels.lyr



- Add NKCParcels.lyr to ArcMap

- Export data to main geodatabase as NKC

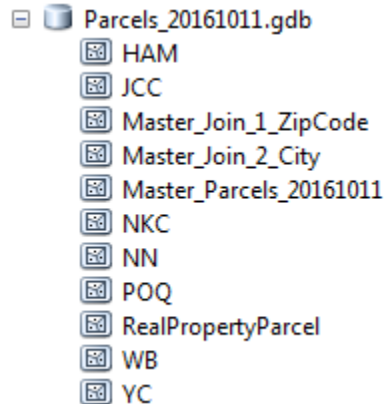
8. Run **FieldCalc()** once your \TodaysDate\Parcels_TodaysDate.gdb appears as below.



- For each of the feature classes, temporary fields will be added. Those fields will be calculated and then the original fields will be deleted leaving only the field calculated temporary fields. This will take some time. The script is set to send an email when finished with this step.

9. Run **Finish()**.

- This function merges all of the feature classes into one feature class named Master_Parcels_**Today'sDate**
- This feature class is then joined to a zip code file downloaded from Census named Master_Join_1_ZipCode
- This feature class is then joined to a city file downloaded from Census named Master_Join_2_City
- The fields are then finalized before sending another email with the final feature class named RealPropertyParcel.
- The final geodatabase layout should look like this



10. The RealPropertyParcel feature class is ready to copy to sde. This can be done manually or programmatically by running **UpdateData()**

- Before running UpdateData(), change versionName variable to appropriate username.
 - Currently set to **versionName = "bkingery"**
- A few lines down, change the version in the arcpy.ChangeVersion_management command
 - Currently set to **'BKINGERY.bkingery'**
- For some reason, the program throws an error but it works so check before leaving for the day.
 - Delete version if it appears messed up so it will not Rec and Post. If it appears operational, the version will be posted during the night.