Community Rating System analysis procedure

Wednesday, September 15, 2015

Prepared by Laura Gibson, reviewed by Mike Dumais and Beth Yang

Program Data Table Item 13. Adjusted Special Flood Hazard Area (aSFHA)

GOAL:

DETERMINE ACREAGE OF AND MAP FLOOD ZONES BEGINNING WITH A AND V EXCLUDING FEDERAL LANDS, INCORPORATED AREAS AND LANDS WITH APPROVED LOMAS WHICH DEFINES THE ADJUSTED SFHA.

RESULT IS UTILIZED FOR THE CRS ACTIVITY 213 DATA TABLE.

SAVE TO WORK SPACE THE FOLLOWING FEATURE CLASSES: PARCELS, LOMAS, FLOOD ZONES, CITY LIMITS, PHYSICAL COUNTY BOUNDARY AND STATE SHORELINE

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CREATE SUBSETS OF FEDERAL OWNED PARCELS, LOMAS,* AND A AND V FLOOD ZONES

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ERASE EXCLUSIONS (CITY LIMITS, LOMAS, FEDERAL PARCELS) FROM FLOOD ZONES

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CLIP REMAINING FLOOD ZONES TO COUNTY BOUNDARY

(COUNTY BOUNDARY IS A COMBINATION OF THE STATE COASTLINE AND LAKE TRAFFORD FEATURE.)

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CALCULATE AND PROVIDE ACREAGE TO FLOODPLAIN MANAGEMENT STAFF

*LOMAS INCLUDED ARE APPROVED LOMAS WITH OUTCOME OF MREM AND PREM. ONLY THE SREMs AND SOAS APPEARING ON THE LATEST PROPERTY APPRAISER BUILDING FOOTPRINT ARE INCLUDED.

Detailed Process:

Timeframe: For consistency the data needs to be collected/completed by the end of August and the aSFHA acreage calculation run September 1st to September 15th.

Feature classes used: Save all plus created feature classes below to one geodatabase within the GIS-Team folder in the G: drive with the date and recertification year.

Property Appraiser Parcels
\\bcc.colliergov.net\data\Collier_GIS_Data\ITGIS\DataConnections\10.2\GIS.sde\gis.DBO.PAO\gis.DBO.Parcels

LOMA Determinations (Updated on a quarterly basis based on FEMA reports. Will be updated through May of the Recertification year.)
\\bcc.colliergov.net\data\Collier_GIS_Data\GMD\DataConnections\GMD.sde\GMD.DBO.DFIRM\GMD.DBO.FEMA11_LOMA_Determinations

Flood Zones
\\bcc.colliergov.net\data\Collier_GIS_Data\GMD\DataConnections\GMD.sde\GMD.DBO.DFIRM\GMD.DBO.FEMA11

City Limits/Incorporated Areas (Updated as needed by GIS department.)
\\bcc.colliergov.net\data\Collier_GIS_Data\GMD\DataConnections\GMD.sde\GMD.DBO.CityLimits

The following process is encompassed in a Python Script saved to the CRS Recertification folder within G:\GIS-Team. The script or this process can be used to obtain the aSFHA acreage.

County boundary, created from:

Shoreline:

> \\bcc.colliergov.net\data\Collier_GIS_Data\ITGIS\DataConnections\10.2\GIS.sde\gis.DBO.PS\gis.DBO.state_shoreline

Physical County Boundary:

> \\bcc.colliergov.net\data\Collier_GIS_Data\ITGIS\DataConnections\10.2\GMD.sde\GMD.DBO.PhysicalCountyBoundary

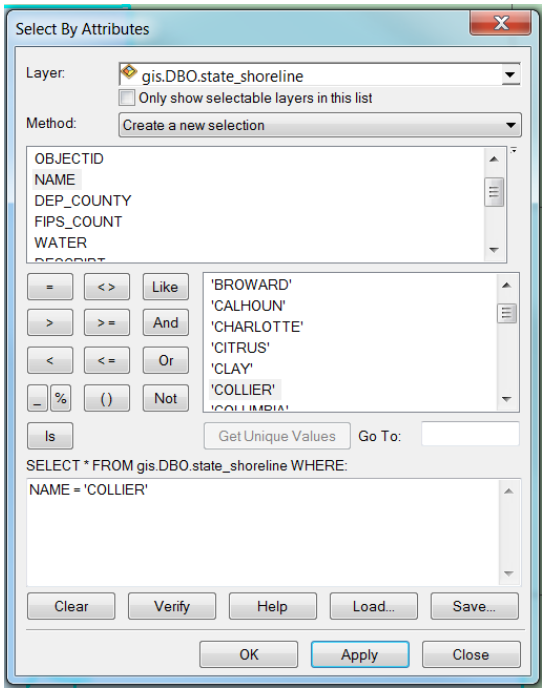
User Limitations:

An ArcGIS Advanced License is required to perform this process. Specifically, the Erase Tool is restricted to Advanced License use.

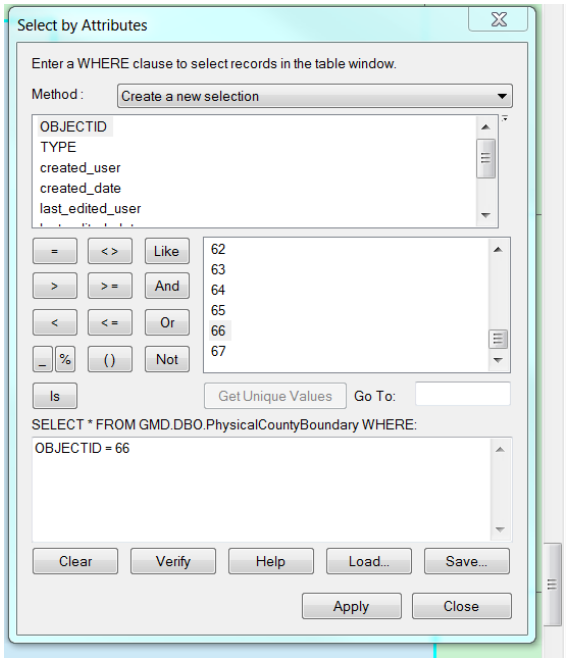
Process to create the Collier County Boundary feature class:

*Note: The 2013 aSFHA acreage was completed using the Physical County Boundary feature class only. However, the State Shoreline boundary is a more up to date representation of the County Boundary with moving coastal barrier islands, and removes more of the coastal waters and rivers than the Physical County Boundary.

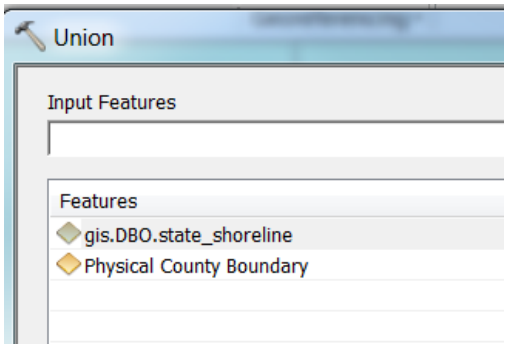
1. Select Collier County boundary from State Shoreline



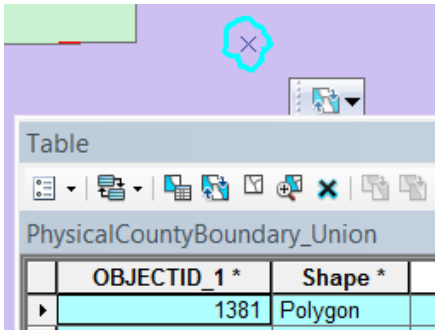
2. Select Lake Trafford from Physical County Boundary



3. Use the Union tool to combine the selections into one feature class.

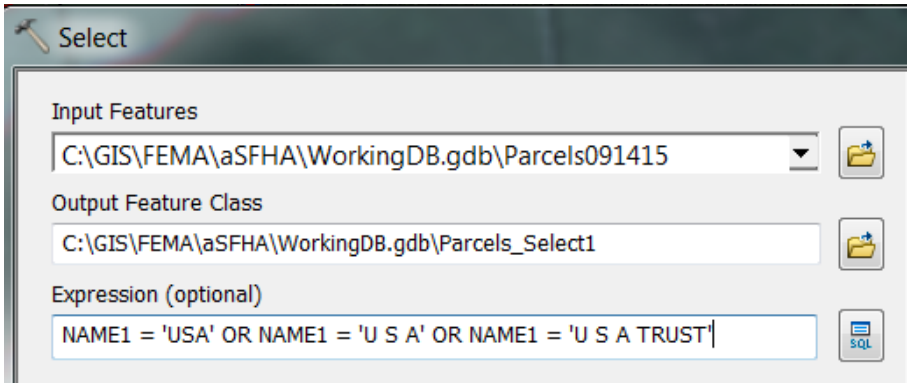


4. Delete Lake Trafford feature and save as the County Boundary feature class to use for the aSFHA.

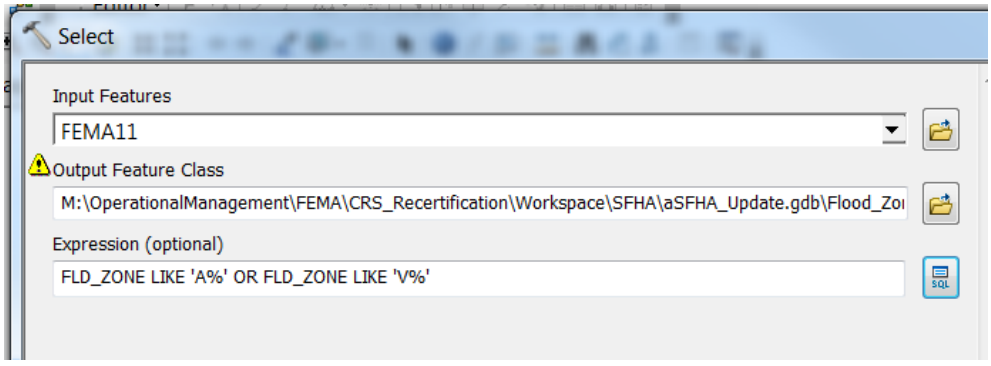


Process to create the aSFHA:

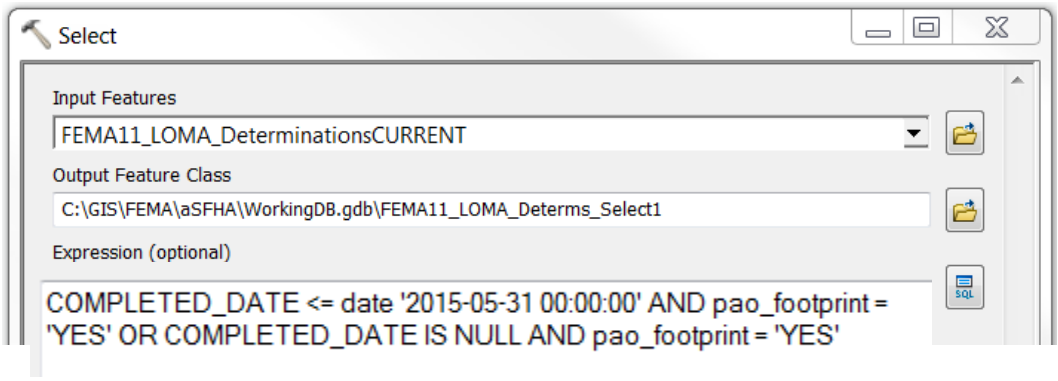
1. Select federally owned parcels and Tribal lands from the Property Appraiser Parcel feature (select NAME1 = USA or USA TRUST from PAO) and save to a separate feature class.



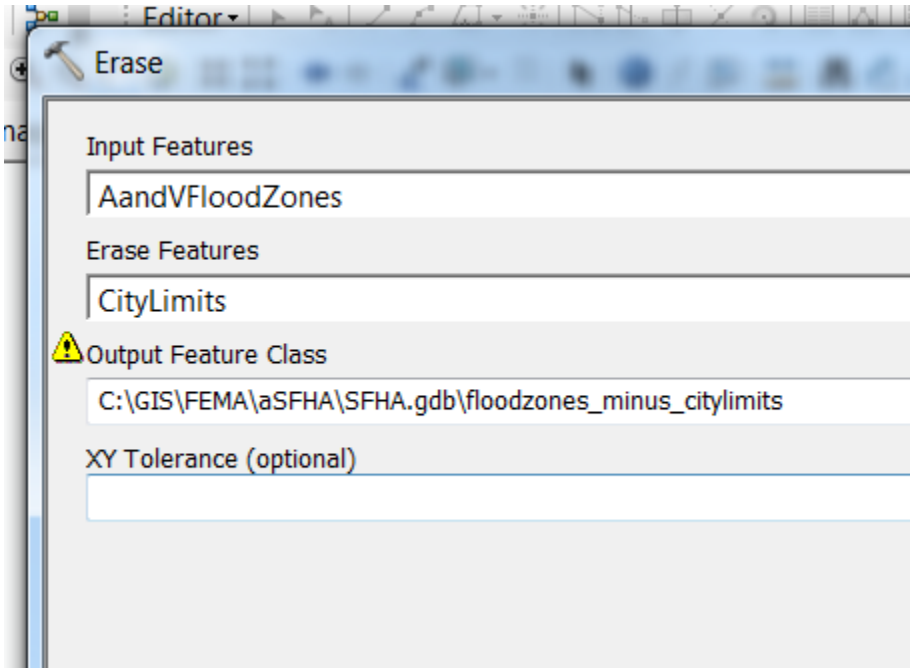
2. Select Flood Zones that start with A or V from the Flood Zone feature class and save to a separate feature class.



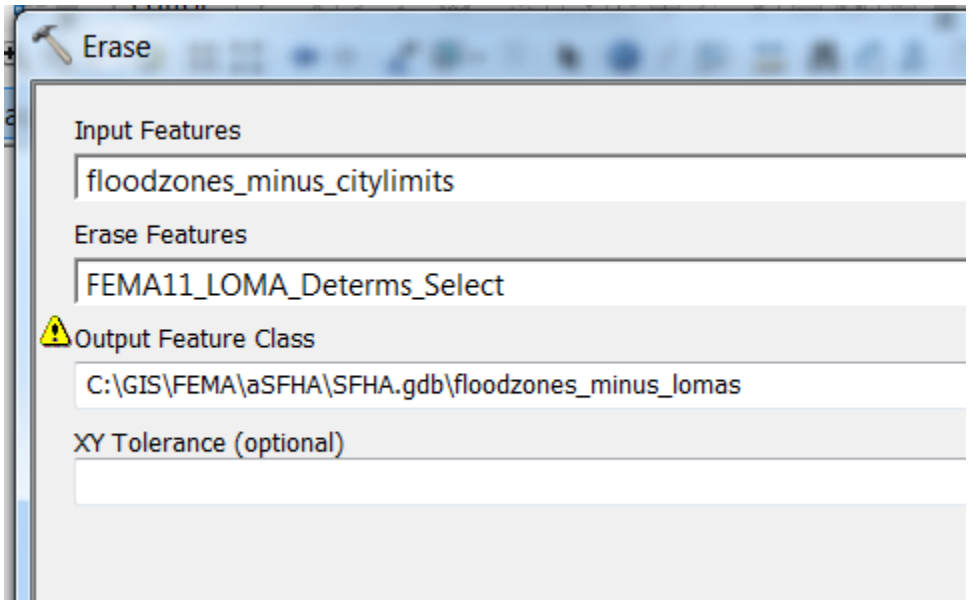
3. Select LOMAs approved on or before May 31st of the current year and with Property Appraiser Building Footprint (field name pao_footprint) = YES in order to only include Structure removals (SREMs/SOAS) shown on the current year footprint and save to a separate feature class. (LOMAs with Outcomes of PREM, POAS and MREM are also assigned a value of YES to avoid an additional selection process.)



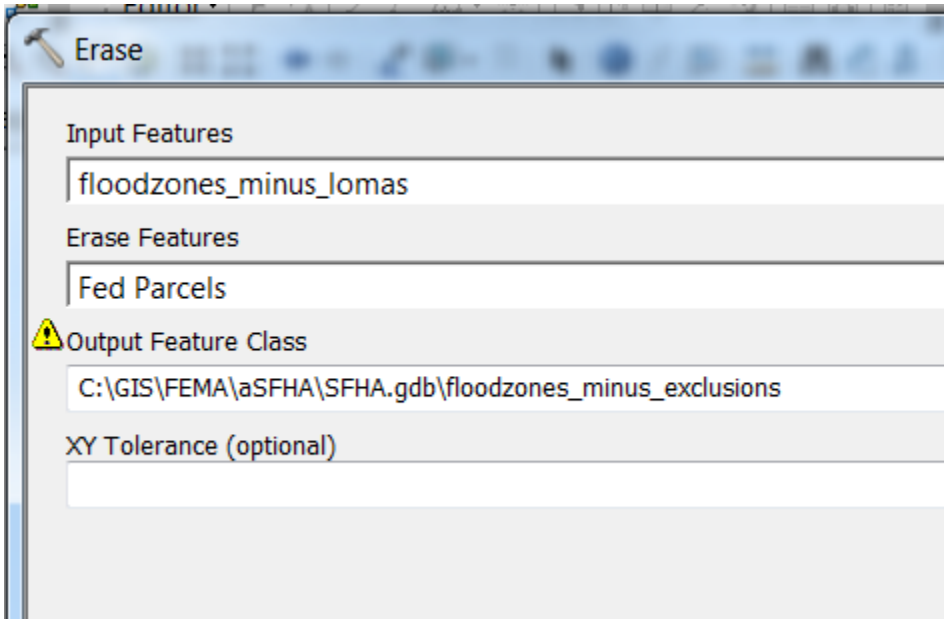
4. Use the Erase tool to remove City Limits from A and V Flood Zones.



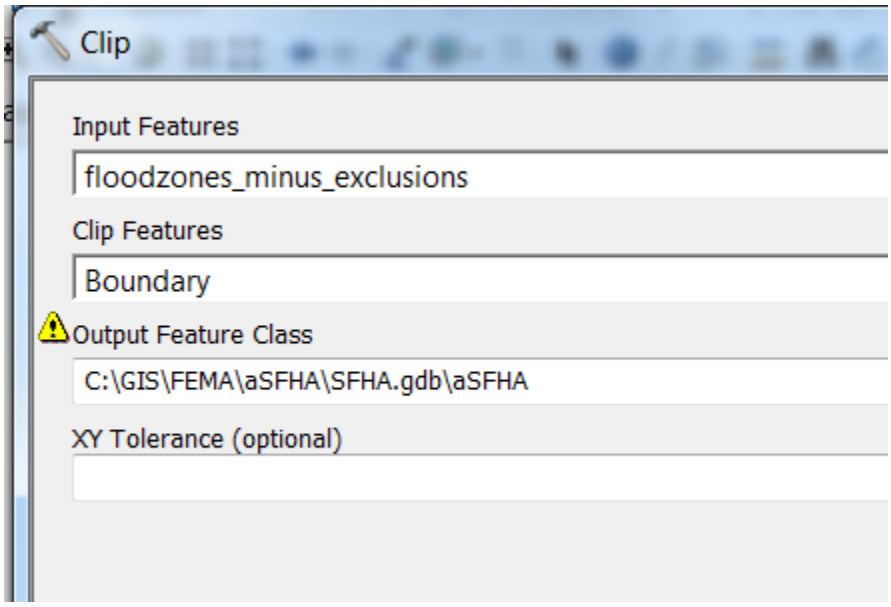
5. Use the Erase tool to remove LOMAs created in step 3 from feature created in step 4.



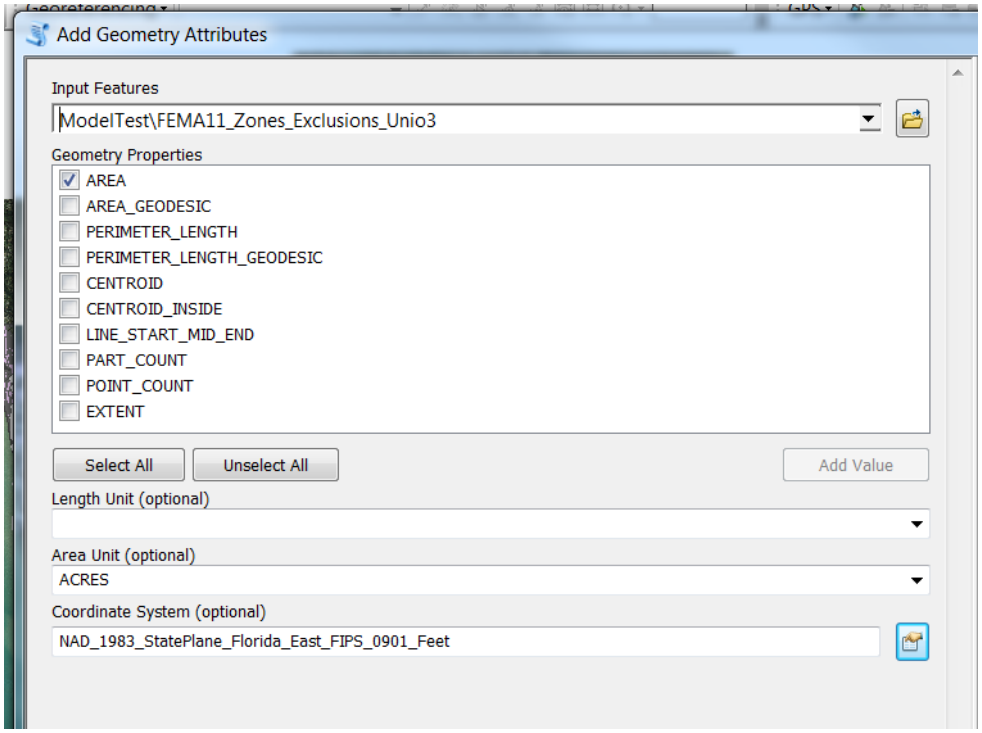
6. Use the Erase tool to remove Federal Parcels from feature created in step 5.



7. Use the Clip tool to clip the feature created in step 6 with the Collier County Boundary feature class (see process above) to create the final aSFHA feature.

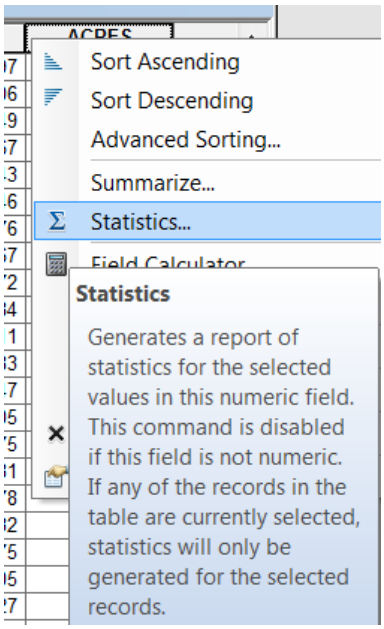


7. Use the Add Geometry Attributes tool to add a field for Acreage

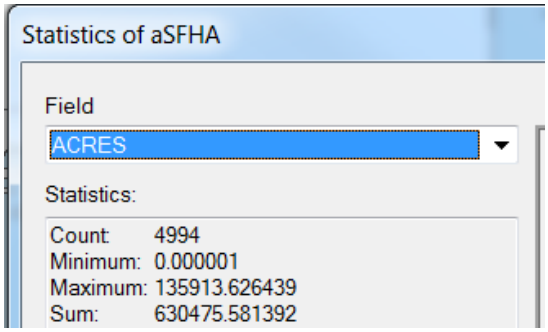


8. Use statistics to report acreage

   Right click on Acres field in the attribute table of the final aSFHA feature class

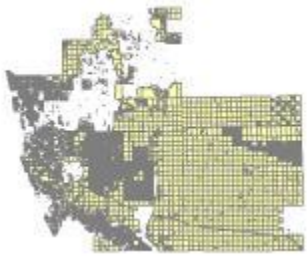


   The Sum is the final aSFHA acreage value.



OpenSpacePres

File Geodatabase Feature Class



Tags

Preserve Lands, Open Space Preservation, Conservation

Summary

Used to make the Open Space Preservation (OSP) layer for the CRS audit under activity 420. Several features have overlapping jurisdiction. Federal Lands cannot be included in the OSP since they can't be counted toward CRS credits (CRS User's Manual 403.b Mapping aSFHA). They are shown for conservation purposes only.

After 2013 Audit, edits made to resolve gaps in known conservation/park areas, consolidate polygons and add more qualifying lands.

Several sources were combined for this layer. The Property Appraiser's Parcel data was used to find lands held in conservation by State Government and Private Conservation Groups (National Audubon Society and The Conservancy of Southwest Florida. County maintained layers were added to show Stewardship Sending Areas and Conservation Collier Preserves. South Florida Water Management District (SFWMD) provided Conservation Easement areas they hold. Data from Collier County Real Property was obtained for County held easements. SFWMD Land Cover was used to add Golf Courses and Lakes. Comprehensive Planning staff provided Transfer Development Rights Program Restoration and Maintenance Lands. US Fish and Wildlife Service Mitigation Lands were added from maps provided by their staff. County required preserves in developments are being added/edited as plans are approved.

Since lands can be held by multiple jurisdictions, the SOURCE field indicates the highest level held (Private then County then State then Fed). The Florida Managed Lands Areas layer was used to assign LOCATION on state owned properties.
Other fields indicate if the property is protected by more than one entity. Field CNTY_PSV indicates if the preserve is included in the county preserve requirements for that development. Field PLAN_AREA indicates the required (not provided) amount of preserve according to the site plan/development order.

Description

Several sources were combined for this layer. The Property Appraiser's Parcel data was used to find lands held in conservation by State Government and Private Conservation Groups (National Audubon Society and The Conservancy of Southwest Florida. County maintained layers were added to show Stewardship Sending Areas and Conservation Collier Preserves. SFWMD provided Conservation Easement areas they hold. Data from Collier County Real Property was obtained for County held easements. SFWMD Land Cover was used to add Golf Courses and Lakes. Comprehensive Planning staff provided TDR Restoration and Maintenance Lands. USFWS Mitigation Lands were added from maps provided by their staff.

The total acreage of this version can't be used for the CRS report. It must be clipped to the aSFHA.

For more information contact Laura Gibson, GMD GIS 239.252.2933

Credits
Collier County GMD North GIS

Property Appraiser

Real Estate Services. Last edited in 2006. Contact Toni Mott, Manager of Property Acquisition at 239.252.8780.

SFWMD, ACOE, USFWS

Conservation Collier

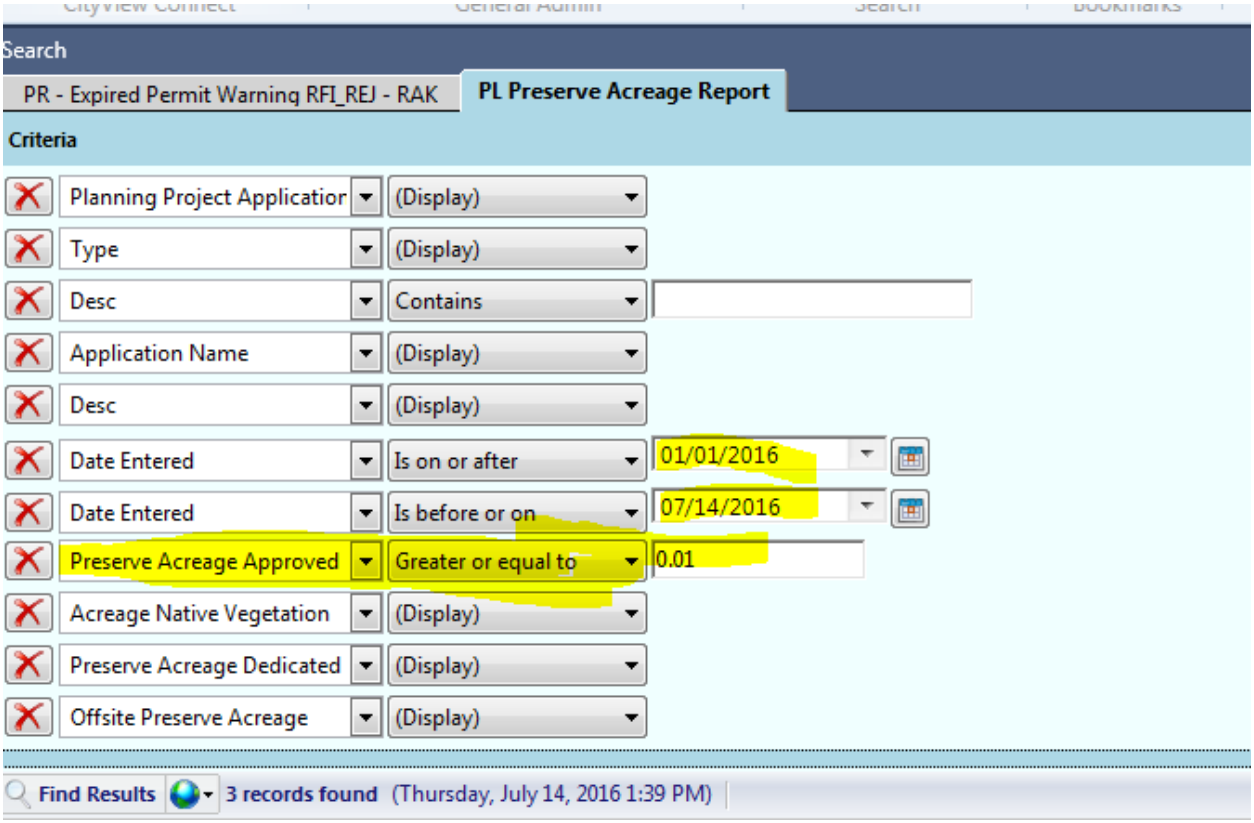
Collier County GMD Comprehensive Planning

Preserves in Development

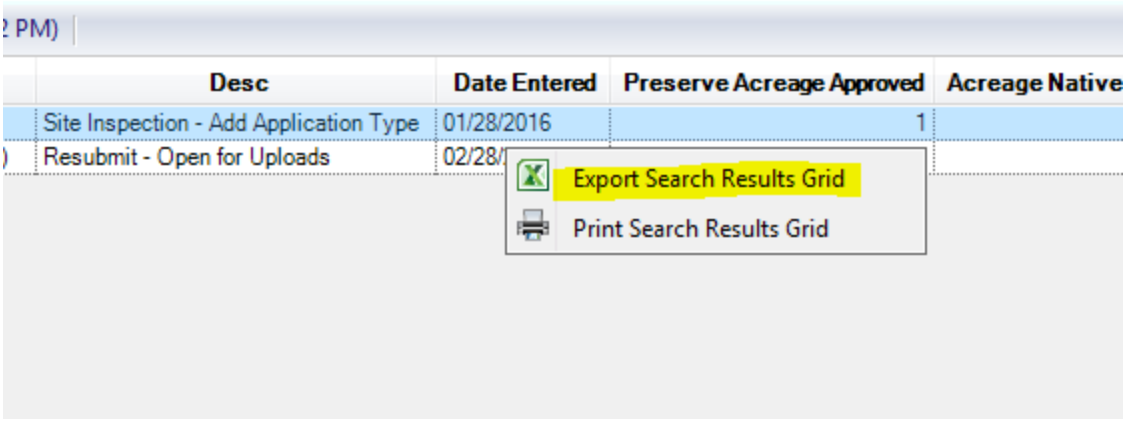
Search CityView for Preserves in Developments

First, remove “site” next to the first Desc field

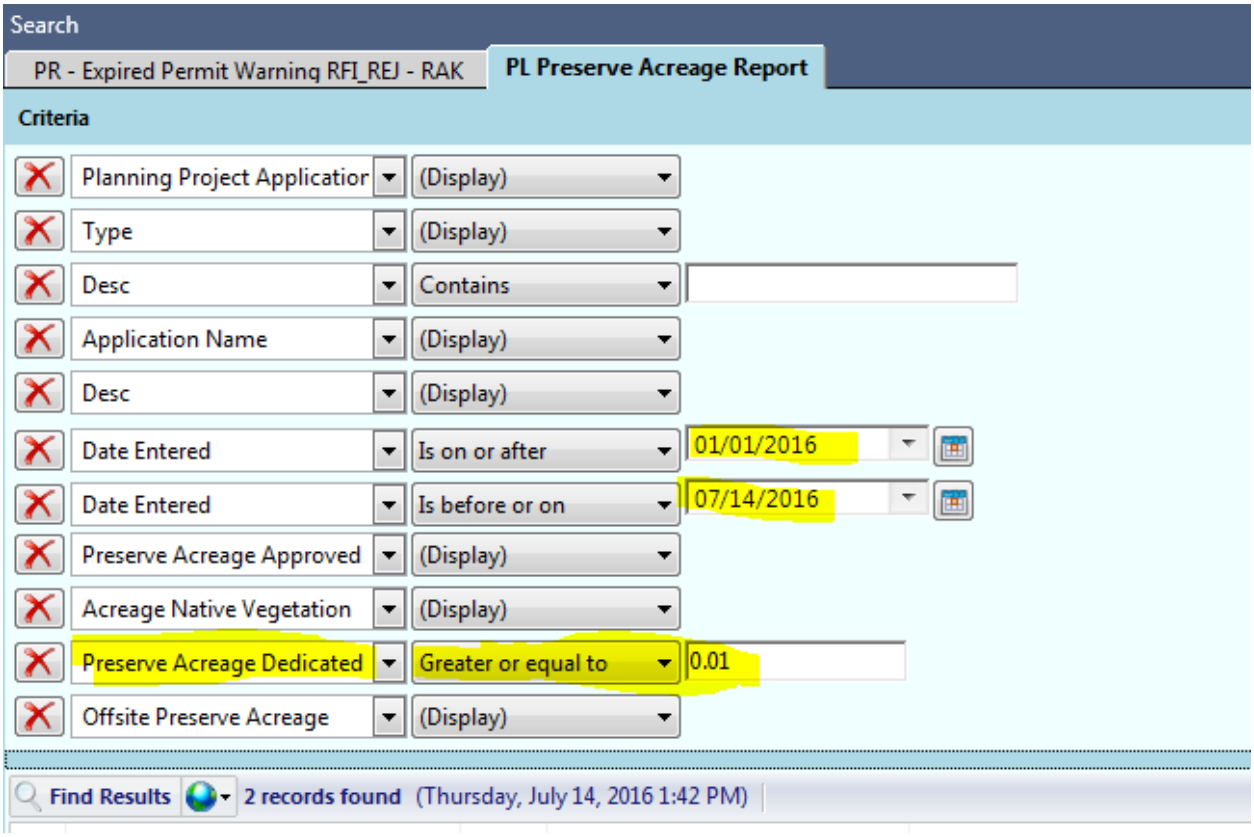
Set the dates from the last date of the previous search to the current date. Set the Preserve Acreage Approved value to Greater or equal to 0.01



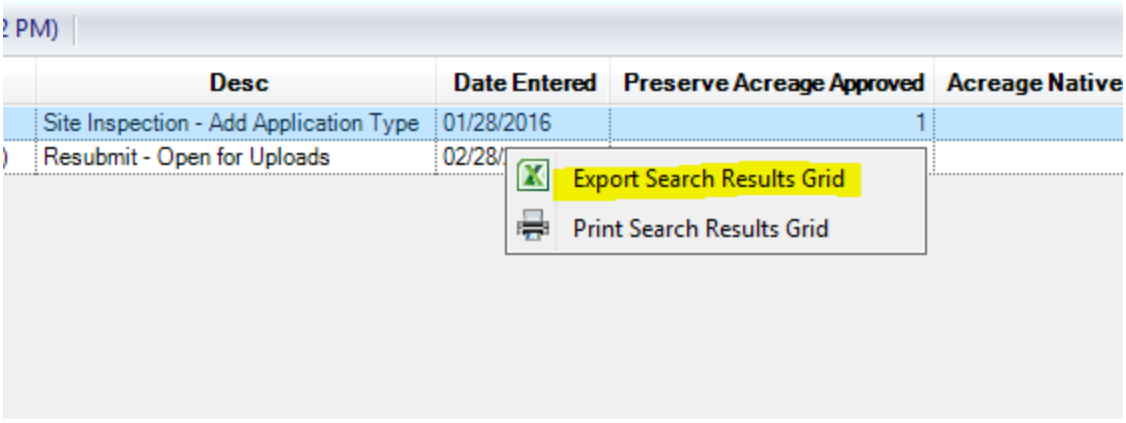
When search results return, right click in the results and export the search results to an Excel table.



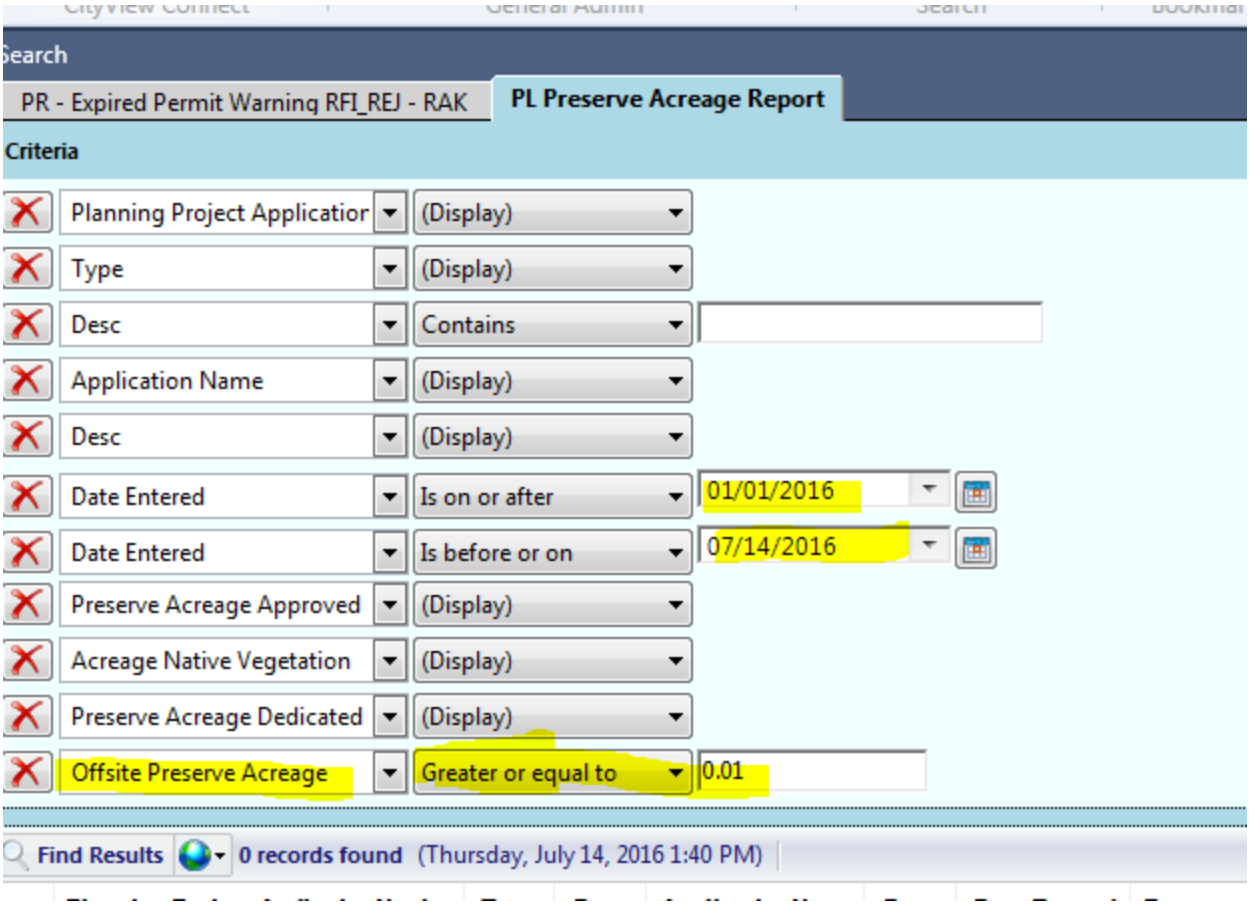
Run the search again with the same dates for Preserve Acreage Dedicated Greater or equal to 0.01. Set Preserve Acreage Approved back to (Display).



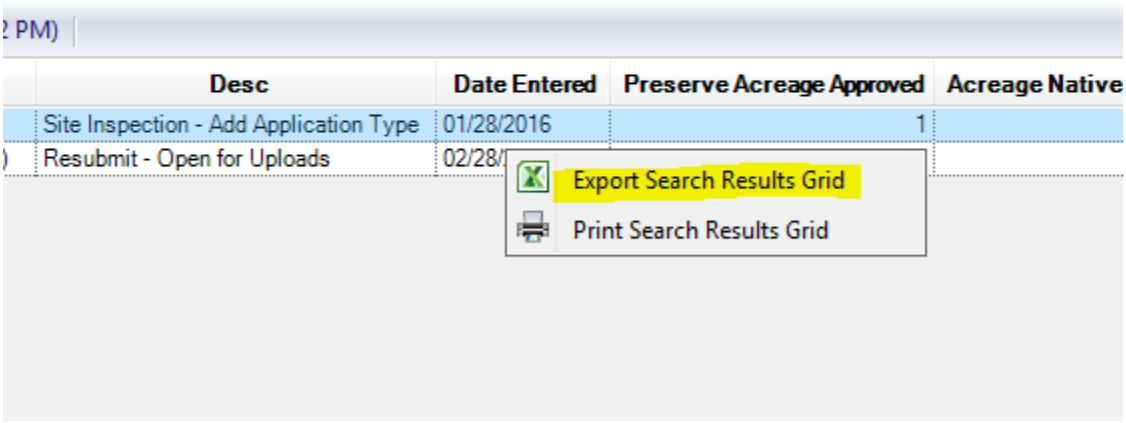
When search results return, right click in the results and export the search results to an Excel table.



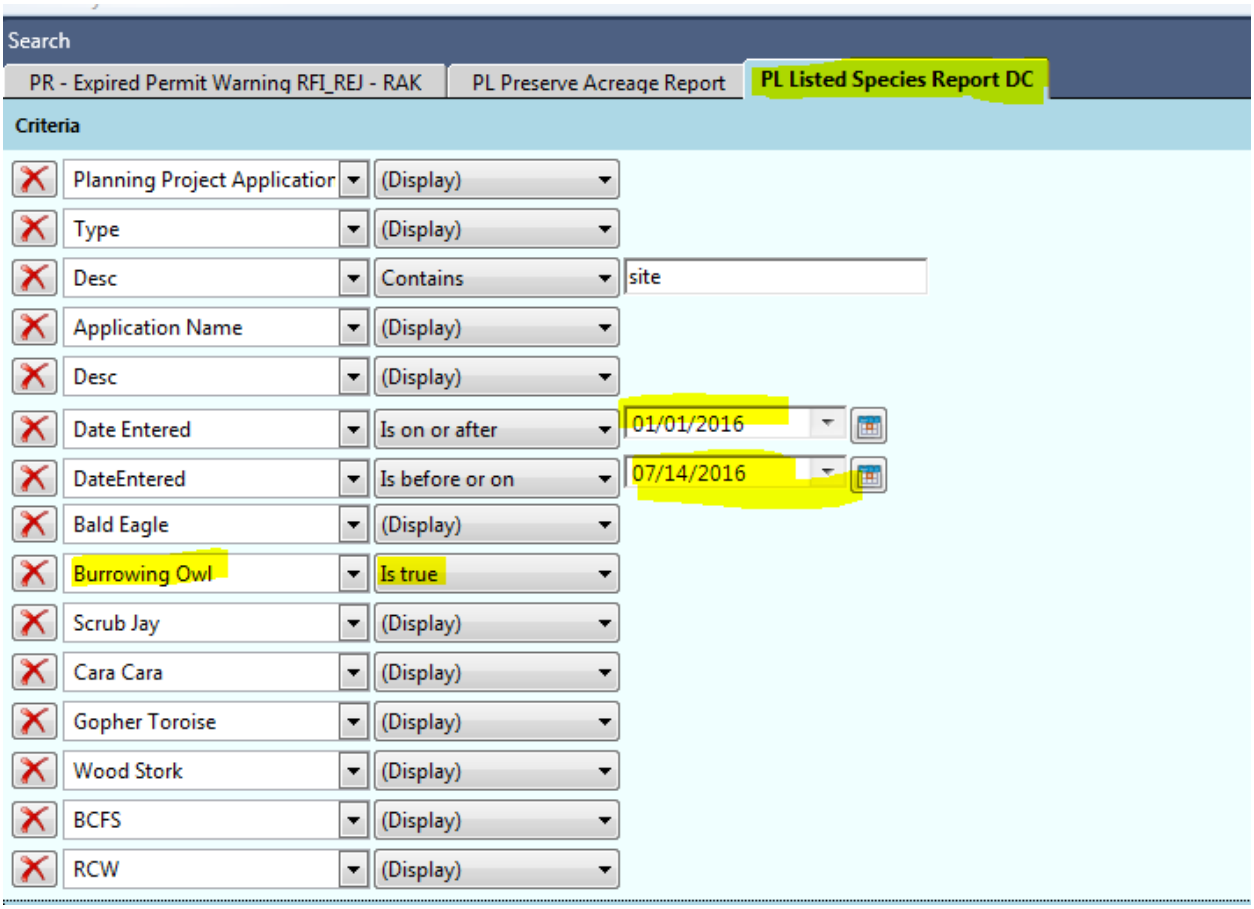
Run the search again with the same dates for Offsite Preserve Acreage Greater or equal to 0.01. Set Preserve Acreage Dedicated back to (Display).



When search results return, right click in the results and export the search results to an Excel table.

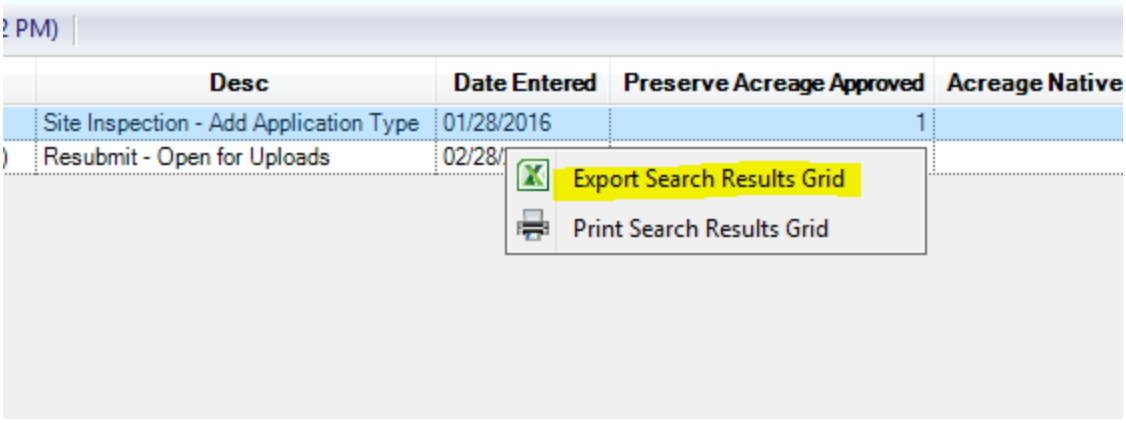


Listed Species search



Iterate through each listed species with a value of “Is true” and the remaining values for the other listed species as “(Display)”

When search results return, right click in the results and export the search results to an Excel table.


2 PM)
Desc
Date Entered
Preserve Acreage Approved
Acreage Native
Site Inspection - Add Application Type
01/28/2016
1
Resubmit - Open for Uploads
02/28/
Export Search Results Grid
Print Search Results Grid