

# Understand Exposure | Community Asset Types and Spatial Data

## WHO

This exercise is for the practitioner to complete in the Understand Exposure step.

## WHAT

Guidance and steps to delineate community asset types using spatial data collected. The community assets focused on here include those in the built and natural environments. These will be used for the assessment in the Assess Vulnerability and Risk step and throughout the rest of the project to understand the results and draw insights.

## SUPPORTING RESOURCES

- Use the themes developed in [2.3 Community Asset Themes - Worksheet](#) to guide this process of further delineating community asset types.
- Having [2.8 Spatial Data Collection - Worksheet](#) on hand will be helpful for ensuring all spatial data collected for community assets are represented in these types.

## INSTRUCTIONS

- Review the guidance below about [community asset types](#).
- Fill in the tables provided with the community asset types. There are several tables provided, one theme per table can be used. The following information needs to be filled in:
  - Type ID: one line for each community asset type listed with each theme. If there are multiple datasets for a category, add additional lines for it. See the example below.
  - Layer/Field: The layer is the spatial dataset and any specific field that is used to identify the property type.
  - Criteria: If a specific field is used to identify the property type, enter those attributes here. If every data point in the dataset should be used, simply enter “all points.”
- For each theme, consider community assets with high criticality. This will be used later for ruleset development.
  - Look at asset types per theme. Which ones would incur a greater impact if affected by the particular hazard?

## What are Community Asset Types?

Community asset types provide an easy way to work with the spatial data based on the themes being used within a community. These will be created using the asset themes determined in [2.3 Community Asset Themes - Worksheet](#) and the spatial community asset data collected. Community asset types are used in

the Assess Vulnerability and Risk step as part of the analysis and then throughout the rest of the project to interrogate the results and draw insights.

Community assets with high criticality are those that would incur a greater impact if affected by the hazard. These will be used within the rulesets and are determined by theme. For example, if there is a residential theme consider multi-family homes as high criticality, compared to single family homes. The former would incur a greater impact because more people are affected.

## Example Community Asset Types

<b>Critical Facilities</b>			
<b>Type ID</b>	<b>Layer/Field</b>	<b>Criteria</b>	<b>Notes</b>
police_stations	parcels/USE	200; 201;	
hospitals	parcels/USE	300;	
hospitals	NC_hospitals/	All points;	
fire_stations	parcel/USE	205;	

<b>Cultural and Community Services</b>			
<b>Type ID</b>	<b>Layer/Field</b>	<b>Criteria</b>	<b>Notes</b>
places_of_worship	community/ID	10	
community_centers	community/ID	15	
childcare_facilities	parcels/USE	405; 406;	
senior_services	parcels/USE	305;	

<b>Residential</b>			
<b>Type ID</b>	<b>Layer/Field</b>	<b>Criteria</b>	<b>Notes</b>
single_family	parcels/USE	100;	

condo	parcels/USE	110;	
multi_family	parcels/USE	105;	

## Example Community Assets with High Criticality

Theme	High Criticality Types
Residential	Multi_family; condo; group_home; nursing_home;
Cultural and Community Services	Senior_services; childcare_facilities; food_bank; shelter;

# Community Asset Types

Community Asset Theme:			
Type ID	Layer/Field	Criteria	Notes

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# Community Assets with High Criticality

Theme	High Criticality Types