

Lake Charles Inventory							
Attribute	Description	Format	Source	Field	Transformation	Detail	Phase
ID	Building unique ID.						Asset Description
Latitude	Latitude of the Building Centroid (inside polygon).	Floating point number (Decimal Degrees)					Asset Description
Longitude	Longitude of the Building Centroid (inside polygon).	Floating point number (Decimal Degrees)					Asset Description
OccupancyClass	Subclassifications of buildings across various categories of Residential and Commercial	Choices: RES1, RES3, COM1	StreetView		A pretrained Convolutional Neural Network in BRAILS is used to classify the occupancy type of residential buildings based on street view images.	RES1 - Single Family Dwelling RES3 - Multi Family Dwelling - Duplex COM1 - Commercial Building	Asset Description
BuildingType	Core construction material type; Wood, Concrete, Steel, Masonry, Manufactured Housing.	Choices: Wood	Assume residential wood		Residential building is assumed as wood.	Wood	Asset Description
YearBuilt	Year of Construction	Integer (4-digit)	StreetView		SURF is used to train a neural network on the year built information from National Structure Inventory (NSI). The neural network is used to infer the year built information for each building based on the spatial patterns it learned from the		Asset Description
NumberOfStories	Number of stories estimated via image processing	Integer	StreetView				Asset Description
RoofSlope	Slope of roof (ratio of rise/vertical over run/horizontal dimensions) covering the majority of the dwelling.	Floating point number	Aerial + StreetView Imagery	Augmented Data	Derive from elevations and polygon (footprint) geometry	Roof slope convention	Asset Description
MeanRoofHt	Mean height of roof system in ft	Floating point number	Aerial + Street Level			Used only for WMUH	Asset Description
DSWII	DesignWindSpeed II in mph	Floating point number	ATC API (ASCE 7)	Augmented Data			Asset Description
AvgJanTemp	Average temperature in January below or above critical value of 25F.	Choices: Above, Below		Default Assignment	Default all values to Above.		Asset Description
LULC	Land Use Land Cover class	Integer (2-digit)	WebGIS			LULC conversion	Asset Description
RoofShape	Roof classified into equivalent hip, gable or flat	Choices: Hip, Gable, Flat	Aerial Imagery	Augmented Data	None		Asset Description
RoofSlope	Slope of roof covering the majority of the dwelling	Floating point number	Aerial + Street Level	Augmented Data	Elevations plus polygon gives this		Asset Description
Garage	Presence of attached garage	Choices: 0, 1	StreetView	Augmented Data	Statistical analysis of random sample of single family homes visually inspected using streetview imagery	unattached (0): refers to homes with no attached garage (or no garage at all); attached (1): refers to homes with attached garage(s)	Asset Description
AnalysisDefault	Defines the default level of fidelity for analysis	Choices: 1, 2, 3		Augmented Data	IF NumberOfStories1>6, AnalysisDefault=2; ELSE AnalysisDefault=1		Asset Description
HazusClass-W	Hazus building classes as defined for wind hazards	Choices: WSF1, WSF2, WMUH1, WMUH2, WMUH3		Augmented Data	Rules for HazusClass-W assignment	Assuming only WSF1, WSF2, WMUH1, WMUH2, WMUH3 will be used.	Asset Representation
HPR	Defines Hazard Prone Regions (HPR) for the purposes of Hazus wind vulnerability assignments for WSF1-2	Choices: yes, no		Augmented Data	Apply Hazus Building Attribute Rulesets - Wind		Asset Representation
WBD	Defines Wind Borne Debris (WBD) for the purposes of Hazus wind vulnerability assignments for WSF1-2	Choices: yes, no		Augmented Data	Apply Hazus Building Attribute Rulesets - Wind		Asset Representation
SWR	Defines Secondary Water Resistance (SWR) for the purposes of Hazus wind vulnerability assignments for WSF1-2, WMUH1-3	Choices: yes, no		Augmented Data	Apply Hazus Building Attribute Rulesets - Wind		Asset Representation
RoofCvr	Defines roof cover for the purposes of Hazus wind vulnerability assignments for WMUH1-3, MMUH1-3	Choices: N/A, BUR, SPM		Augmented Data	Apply Hazus Building Attribute Rulesets - Wind		Asset Representation
RoofQual	Defines roof cover quality for the purposes of Hazus wind vulnerability assignments for WMUH1-3	Choices: N/A, poor, good		Augmented Data	Apply Hazus Building Attribute Rulesets - Wind		Asset Representation
RDA-Wood	Defines Roof Deck Attachment (RDA) for wood for the purposes of Hazus wind vulnerability assignments for WSF1-2, WMUH1-3	Choices: A, B, C, D		Augmented Data	Apply Hazus Building Attribute Rulesets - Wind	WSF and WMUH: A = 6d @ 6"/12" B = 8d @ 6"/12" C = 6d/8d mix @ 6"/6" D = 8d @ 6"/6"	Asset Representation
R2WC	Defines Roof to Wall Connection (R2WC) for the purposes of Hazus wind vulnerability assignments for WSF1-2,	Choices: strap, toe-nail		Augmented Data	Apply Hazus Building Attribute Rulesets - Wind		Asset Representation
shutters	Defines use of window opening protection for the purposes of Hazus wind vulnerability assignments for WSF1-2, WMUH1-3	Choices: yes, no		Augmented Data	Apply Hazus Building Attribute Rulesets - Wind		Asset Representation
Agarage	Defines presence of attached garage for the purposes of Hazus wind vulnerability assignments for WSF1-2, MSF1-2	Choices: none, SFBC 1994, standard, weak		Augmented Data	Apply Hazus Building Attribute Rulesets - Wind	This has now been modified per the new interpretation of garage in this inventory	Asset Representation
Terrain	HAZUS-defined terrain classifications (x100) based on LULC data	Choices: 3, 15, 35, 70, 100	LULC Data	Augmented Data	IF FloodZone = V OR VE OR V1-30 OR A OR AE OR A1-30 OR AR OR A99, Terrain = 3 IF LULC = 30-39 OR 50-59 OR 62 OR 70-79, Terrain = 3 IF LULC = 20-29, Terrain = 15 IF LULC = 11-15 OR 61, Terrain = 35 IF LULC = 16 OR 17 OR 41-43, Terrain = 70		Asset Representation