Lake Charles Inventory							
Attribute	**Description**	**Format**	**Source**	**Field**	**Transformation**	**Detail**	**Notes**
ID	Building unique ID.						
Latitude	Latitude of the Building Centroid (inside polygon).	Floating point number					
Longitude	Longitude of the Building Centroid (inside polygon).	Floating point number					
OccupancyClass	Subclassifications of buildings across various categories of Residential and Commercial	Choices: RES1, RES3,	StreetView		**A pretrained Convolutional Neural**	RES1 - Single Family Dwelling	Flood, Wind
BuildingType	Core construction material type; Wood, Concrete, Steel, Masonry, Manufactured Housing.	Choices: Wood	Assume residential wood		**Residential building is assumed as**	Wood	Missing for 2 buildings
YearBuilt	Year of Construction	Integer (4-digit)	StreetView		**SURF is used to train a neural network**		Missing for 2127 buildings (93.5%
NumberofStories	Number of stories estimated via image processing	Integer	StreetView				Flood
RoofSlope	Slope of roof (ratio of rise/vertical over run/horizontal dimensions) covering the majority of	Floating point number	Aerial + StreetView Imagery	Augmented Data	Derive from elevations and polygon	Convention: https://d12m281ylf13f0.cloudfront.net/images2012/article/roof-slope-chart.jpg	Will need to extract from imagery
MeanRoofHt	Mean height of roof system in ft	Floating point number	Aerial + Street Level Imagery		(ElevationR1+ElevationR0)/2	Used only for WMUH	
DSWII	DesignWindSpeed II in mph	Floating point number	ATC API (ASCE 7)	Augmented Data			
AvgJanTemp	Average temperature in January below or above critical value of 25F.	Choices: Above, Below		Default	Default all values to Above.		
LULC	Land Use Land Cover class	1:'Urban or Built-Up Land',	http://www.webgis.com/terr_pages/LA/lulcutm/calcasieu.html			1:'Urban or Built-Up Land',	
RoofShape	Roof classified into equivalent hip, gable or flat	Choices: Hip, Gable, Flat	Aerial Imagery	Augmented Data	None		Wind
RoofSlope	Slope of roof covering the majority of the dwelling	Floating point number	Aerial + Street Level Imagery	Augmented Data	Based on elevations plus polygon	Will need to extract from imagery eventually, defining slope of roof covering majority of footprint	
Garage	Presence of attached garage	Choices: 1.1, 2.1, 0	Random sampled based on statistics.	Augmented Data	Statistical analysis of random sample of	unattached (0): refers to homes with no attached garage (or no garage at all)	
AnalysisDefault	Defines the default level of fidelity for analysis	Choices: 1, 2, 3		Augmented Data	IF NumberofStories1>6, AnalysisDefault=2;		
HazusClass-W	Hazus building classes as defined for wind hazards	CHOICES: WSF1, WSF2,		Augmented Data	See rules for assignment:	**Assuming only WSF1, WSF2, WMUH1, WMUH2, WMUH3 will be used. To assign this we need**	
HPR	Defines Hazard Prone Regions (HPR) for the purposes of Hazus wind vulnerability	Choices: yes, no		Augmented Data	Apply Updated Hazus Wind Rulesets		
WBD	Defines Wind Borne Debris (WBD) for the purposes of Hazus wind vulnerability	Choices: yes, no		Augmented Data	Apply Updated Hazus Wind Rulesets		
SWR	Defines Secondary Water Resistance (SWR) for the purposes of Hazus wind vulnerability	Choices: yes, no		Augmented Data	Apply Updated Hazus Wind Rulesets		
RoofCvr	Defines roof cover for the purposes of Hazus wind vulnerability assignments for WMUH1-3,	Choices: N/A, BUR, SPM		Augmented Data	Apply Updated Hazus Wind Rulesets		
RoofQual	Defines roof cover quality for the purposes of Hazus wind vulnerability assignments for	Choices: N/A, poor, good		Augmented Data	Apply Updated Hazus Wind Rulesets		
RDA-Wood	Defines Roof Deck Attachment (RDA) for wood for the purposes of Hazus wind vulnerability	Choices: A, B, C, D		Augmented Data	Apply Updated Hazus Wind Rulesets	WSF and WMUH:	
R2WC	Defines Roof to Wall Connection (R2WC) for the purposes of Hazus wind vulnerability	Choices: strap, toe-nail		Augmented Data	Apply Updated Hazus Wind Rulesets		
shutters	Defines use of window opening protection for the purposes of Hazus wind vulnerability	Choices: yes, no		Augmented Data	Apply Updated Hazus Wind Rulesets		
Agarage	Defines presence of attached garage for the purposes of Hazus wind vulnerability	Choices: none, SFBC 1994,		Augmented Data	Apply Updated Hazus Wind Rulesets	This has now been modifed per the new interpretation of garage in this inventory	
Terrain	HAZUS-defined terrain classifications (x100) based on LULC data	Choices: 3, 15, 35, 70, 100	LU/LC 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	Based on processing Land Use/Land Cover data; see Hazus Wind Rules for Details	open (0.03) = 3 light suburban (0.15) =15 suburban (0.35) = 35 light trees (0.70) =70 trees (1.00)=100