## Risk Definition

• The identification and application of community hazards weighted against the community assets including the built environment and its people



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Local Mitigation Strategy 2020 Osceola County, Florida  
 Blue
 Natural Hazard

 Red
 Manmade Hazard

## HAZARD/ASSET IMPACT TABLE

Community Asset	eneral oulation	cial Need oulation	ıl Facilities	ritical structure	l Resources ers, Lakes, reams	idential ildings	nmercial İldings	culture & estock	urism	siness dustry nmerce	ronment	Confidence	portation stems	ic Safety rvices	edical Ithcare	eneral ernment rvices
Hazard	9 Pol	Spec	Critica	C Infra	Natura – Rive St	Res Bu	Com Bu	Agric	Ic	B E G	Envi	Public	Trans	Publ	Hea	Gove Se
Tropical Cyclone	4	4	4	4	3	4	3	3	4	4	2	2	3	2	3	4
Flooding	4	3	1	2	4	4	3	3	3	3	2	2	3	3	3	4
Tornado	4	4	4	4	2	5	4	2	3	4	2	2	2	3	4	3
Wildfire	2	2	2	3	3	2	2	3	1	1	2	3	2	3	2	2
Severe Thunderstorm	3	3	3	3	3	3	3	2	2	2	1	1	1	2	2	1
Pandemic	4	5	2	1	1	1	1	2	4	4	2	3	2	5	5	4
Agriculture/ Livestock Disease	2	1	1	1	2	1	1	5	4	4	2	2	1	1	1	1
Geomagnetic Storm	2	2	3	2	1	1	3	1	2	3	1	3	2	3	3	2
Sinkhole	1	1	2	3	1	3	3	1	2	2	1	3	2	2	2	1
Climate Change	1	1	1	. 1	2	1	1	1	1	1	2	2	1	1	1	1
Cyber Attack	4	4	5	5	1	3	4	1	4	4	1	5	4	5	5	5
Terrorism	5	5	4	3	3	2	2	2	4	4	3	3	4	3	4	3
Nuclear Facility Incident	2	2	2	2	4	2	2	5	4	4	5	3	2	. 2	3	2
Civil Unrest	3	3	4	4	1	4	4	2	4	4	2	4	4	3	3	3
Mass Migration	1	1	2	1	1	2	1	3	3	1	2	2	4	4	4	2
Transportation Incident	2	2	1	2	1	1	1	1	3	3	3	2	5	3	3	1
Hazardous Material Release	3	3	3	2	4	3	3	4	3	4	5	2	4	3	4	2

1 = Little or no impact – no loss of service

2 = Small impact, rare service interruptions, some small inconveniences throughout the asset categories with slight increase in response efforts

3 = Moderate impact, scattered service interruptions, increased demand for assistance, road closures, businesses interrupted, longer response times, some personnel missing from work, decreased productivity, buildings damaged

4 = High impact, widespread services loss, heavy demand for assistance, major road closures, many business halted, delayed emergency response, personnel absent, heavy damage, outside assistance required, shelters required

5 = Significant impact, most services down, overwhelming demand for assistance, buildings destroyed or compromised, response halted or deterred, personnel cannot travel, significant roads and infrastructure compromised, widespread geographical impact



## Local Mitigation Strategy 2020 Hazard Identification & Risk Assessment Osceola County, Florida

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## HAZARD RISK SCORE TABLE

Hazard	Overall Score	Likelihood of Occurrence	Capacity to Cause Damage	Geographic Impact	Speed of Onset	Population Affected	Potential for Casualties	Potential for Negative Economic Impact	Duration of Event	Seasonal Pattern	Environment Impact	Predictability	Mitigation Potential	Warning System Capability	Corollary Effects
Tropical Cyclone	43	5	4	3	2	3	2	3	4	3	3	5	2	0	4
Flooding	40	5	4	3	3	3	1	1	4	3	2	5	1	1	4
Tornado	37	5	4	2	2	2	2	2	2	3	3	3	3	3	1
Wildfire	37	5	3	3	3	2	2	2	2	3	4	3	1	3	1
Severe Thunderstorm	34	5	2	2	4	4	1	0	1	4	1	3	4	0	3
Pandemic	32	2	1	4	1	2	2	3	5	2	1	2	3	3	1
Agriculture/ Livestock Disease	31	2	3	3	2	1	1	4	3	1	4	0	3	1	3
Geomagnetic Storm	28	3	4	4	4	4	0	3	1	1	0	1	0	0	3
Sinkhole	21	1	1	1	4	1	1	1	2	0	1	0	3	4	1
Climate Change	19	1	1	3	0	2	0	1	2	3	2	1	1	0	2
Cyber Attack	39	5	3	3	4	3	1	5	1	0	2	4	1	3	4
Terrorism	37	1	5	3	3	4	5	5	3	0	3	1	1	2	1
Nuclear Facility Incident	36	1	2	2	4	4	3	3	3	0	4	1	4	0	5
Civil Unrest	33	2	3	1	4	2	1	4	2	1	1	3	3	4	2
Mass Migration	30	2	2	3	3	2	1	1	5	1	1	2	3	1	3
Transportation Incident	28	3	2	2	5	2	3	2	1	0	1	1	1	3	2
Hazardous Material Release	27	2	3	1	4	2	2	1	3	0	2	0	2	3	2

Natural
Hazard
Human Caused
Hazard







Hazard Assessment	5	4	3	2	1	0
Likelihood of Occurrence	5					
Capacity to cause damage		4				
Geographic Impact			3			
Speed of onset (warning time)				2		
Percent of population affected			3			
Potential for causing casualties				2		
Potential for causing negative economic impact			3			_
Duration of event		4				
Seasonal pattern			3			
Environmental impact			3			
Predictability of hazard	5					
Impact mitigation potential (reverse rating)				2		
Warning system capability						0
Corollary effects		4				
TOTAL	10	12	15	6	0	0

Hazard Assessment	5	4	3	2	1	0
Likelihood of Occurrence	5					
Capacity to cause damage		4				
Geographic Impact			3			
Speed of onset (warning time)			3			
Percent of population affected			3			
Potential for causing casualties					1	
Potential for causing negative economic impact					1	
Duration of event		4				
Seasonal pattern			3			
Environmental impact				2		
Predictability of hazard	5					
Impact mitigation potential (reverse rating)					1	
Warning system capability					1	
Corollary effects		4				
TOTAL	10	12	12	2	4	0

Hazard Assessment	5	4	3	2	1	0
Likelihood of Occurrence	5					
Capacity to cause damage		4				
Geographic Impact				2		
Speed of onset (warning time)				2		
Percent of population affected				2		
Potential for causing casualties				2		
Potential for causing negative economic impact				2		
Duration of event				2		
Seasonal pattern			3			
Environmental impact			3			
Predictability of hazard			3			
Impact mitigation potential (reverse rating)			3			
Warning system capability			3			
Corollary effects					1	
TOTAL	5	4	15	12	1	0

Hazard Assessment	5	4	3	2	1	0
Likelihood of Occurrence	5					
Capacity to cause damage			3			
Geographic Impact			3			
Speed of onset (warning time)			3			
Percent of population affected				2		
Potential for causing casualties				2		
Potential for causing negative economic impact				2		
Duration of event				2		
Seasonal pattern			3			
Environmental impact		4				
Predictability of hazard			3			
Impact mitigation potential (reverse rating)					1	
Warning system capability			3			
Corollary effects					1	
TOTAL	5	4	18	8	2	0

Hazard Assessment	5	4	3	2	1	0
Likelihood of Occurrence	5					
Capacity to cause damage				2		
Geographic Impact				2		
Speed of onset (warning time)		4				
Percent of population affected		4				
Potential for causing casualties					1	
Potential for causing negative economic impact						0
Duration of event					1	
Seasonal pattern		4				
Environmental impact					1	
Predictability of hazard			3			
Impact mitigation potential (reverse rating)		4				
Warning system capability						0
Corollary effects			3			
TOTAL	5	16	6	4	3	0

Hazard Assessment	5	4	3	2	1	0
Likelihood of Occurrence				2		
Capacity to cause damage					1	
Geographic Impact		4				
Speed of onset (warning time)					1	
Percent of population affected				2		
Potential for causing casualties				2		
Potential for causing negative economic impact			3			
Duration of event	5					
Seasonal pattern				2		
Environmental impact					1	
Predictability of hazard				2		
Impact mitigation potential (reverse rating)			3			
Warning system capability			3			
Corollary effects					1	
TOTAL	5	4	9	10	4	0

Hazard Assessment	5	4	3	2	1	0
Likelihood of Occurrence				2		
Capacity to cause damage			3			
Geographic Impact			3			
Speed of onset (warning time)				2		
Percent of population affected					1	
Potential for causing casualties					1	
Potential for causing negative economic impact		4				
Duration of event			3			
Seasonal pattern					1	
Environmental impact		4				
Predictability of hazard						0
Impact mitigation potential (reverse rating)			3			
Warning system capability					1	
Corollary effects			3			
TOTAL	0	8	15	4	4	0

Hazard Assessment	5	4	3	2	1	0	
Likelihood of Occurrence			3				
Capacity to cause damage		4					
Geographic Impact		4					
Speed of onset (warning time)		4					
Percent of population affected		4					
Potential for causing casualties						0	
Potential for causing negative economic impact			3				
Duration of event					1		
Seasonal pattern					1		
Environmental impact						0	
Predictability of hazard					1		
Impact mitigation potential (reverse rating)						0	
Warning system capability						0	
Corollary effects			3				
TOTAL	0	16	9	0	3	0	=

Hazard Assessment	5	4	3	2	1	0
Likelihood of Occurrence					1	
Capacity to cause damage				-	1	
Geographic Impact					1	
Speed of onset (warning time)		4				
Percent of population affected					1	
Potential for causing casualties					1	
Potential for causing negative economic impact					1	
Duration of event				2		
Seasonal pattern						0
Environmental impact					1	
Predictability of hazard						0
Impact mitigation potential (reverse rating)			3			
Warning system capability		4				
Corollary effects					1	
TOTAL	0	8	3	2	8	0

Hazard Assessment	5	4	3	2	1	0
Likelihood of Occurrence					1	
Capacity to cause damage					1	
Geographic Impact			3			
Speed of onset (warning time)						0
Percent of population affected				2		
Potential for causing casualties						0
Potential for causing negative economic impact					1	
Duration of event				2		
Seasonal pattern			3			
Environmental impact				2		
Predictability of hazard					1	
Impact mitigation potential (reverse rating)					1	
Warning system capability						0
Corollary effects				2		
TOTAL	0	0	6	8	5	0

Hazard Assessment	5	4	3	2	1	0
Likelihood of Occurrence	5					
Capacity to cause damage			3			
Geographic Impact			3			
Speed of onset (warning time)		4				
Percent of population affected			3			
Potential for causing casualties					1	
Potential for causing negative economic impact	5					
Duration of event					1	
Seasonal pattern						0
Environmental impact				2		
Predictability of hazard		4				
Impact mitigation potential (reverse rating)					1	
Warning system capability			3			
Corollary effects		4				
TOTAL	10	12	12	2	3	0

Hazard Assessment	5	4	3	2	1	0
Likelihood of Occurrence					1	
Capacity to cause damage	5					
Geographic Impact			3			
Speed of onset (warning time)			3			
Population affected		4				
Potential for casualties	5					
Potential for negative economic impact	5					
Duration of event			3			
Seasonal pattern						0
Environmental impact			3			
Predictability of hazard					1	
Impact mitigation potential (reverse rating)					1	
Warning system capability				2		
Corollary effects					1	
TOTAL	15	4	12	2	4	0

Hazard Assessment	5	4	3	2	1	0
Likelihood of Occurrence					1	
Capacity to cause damage				2		
Geographic Impact				2		
Speed of onset (warning time)		4				
Percent of population affected		4				
Potential for causing casualties			3			
Potential for causing negative economic impact			3			
Duration of event			3			
Seasonal pattern						0
Environmental impact		4				
Predictability of hazard					1	
Impact mitigation potential (reverse rating)		4				
Warning system capability						0
Corollary effects	5					
TOTAL	5	16	9	4	2	0

Hazard Assessment	5	4	3	2	1	0
Likelihood of Occurrence				2		
Capacity to cause damage			3			
Geographic Impact					1	
Speed of onset (warning time)		4				
Percent of population affected				2		
Potential for causing casualties					1	
Potential for causing negative economic impact		4				
Duration of event				2		
Seasonal pattern					1	
Environmental impact					1	
Predictability of hazard			3			
Impact mitigation potential (reverse rating)			3			
Warning system capability		4				
Corollary effects				2		
TOTAL	0	12	9	8	4	0

Hazard Assessment	5	4	3	2	1	0
Likelihood of Occurrence				2		
Capacity to cause damage				2		
Geographic Impact			3			
Speed of onset (warning time)			3			
Percent of population affected				2		
Potential for causing casualties					1	
Potential for causing negative economic impact					1	
Duration of event	5					
Seasonal pattern					1	
Environmental impact					1	
Predictability of hazard				2		
Impact mitigation potential (reverse rating)			3			
Warning system capability					1	
Corollary effects			3			
TOTAL	5	0	12	8	5	0

Hazard Assessment	5	4	3	2	1	0
Likelihood of Occurrence			3			
Capacity to cause damage				2		
Geographic Impact				2		
Speed of onset (warning time)	5					
Percent of population affected				2		
Potential for causing casualties			3			
Potential for causing negative economic impact				2		
Duration of event					1	
Seasonal pattern						0
Environmental impact					1	
Predictability of hazard					1	
Impact mitigation potential (reverse rating)					1	
Warning system capability			3			
Corollary effects				2		
TOTAL	5	0	9	10	4	0

Hazard Assessment	5	4	3	2	1	0
Likelihood of Occurrence				2		
Capacity to cause damage			3			
Geographic Impact					1	
Speed of onset (warning time)		4				
Percent of population affected				2		
Potential for causing casualties				2		
Potential for causing negative economic impact					1	
Duration of event			3			
Seasonal pattern						0
Environmental impact				2		
Predictability of hazard						0
Impact mitigation potential (reverse rating)				2		
Warning system capability			3			
Corollary effects				2		
TOTAL	0	4	9	12	2	0

