

IBFWS Exercises

Matrix Development

- Hazards
- Impacts
- Response/Advise

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Impact Matrix			
Minimal Impact	Minor Impacts	Significant Impacts	Severe Impacts

Response Matrix:

Very Low - Business as usual

Low - Be Aware

Medium - Be Prepared

High - Take Action

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Early Morning

- Forecasters are evaluating the potential for heavy rain
- Currently, they are not confident that the event will occur
- If it does happen, major roads may be flooded and may cut people off from a residential area

Rainfall Impacts Table

Minimal	Minor	Significant	Severe
<ul style="list-style-type: none"> • Water on roads, driving conditions affected by water • Isolated flooding of low-lying areas • Traffic congestion 	<ul style="list-style-type: none"> • Some minor roads impassable • Low-lying bridges experience typical flooding • Major roads affected causing increased travel times • Areas cut off temporarily • Minor flooding occurring on some basins 	<ul style="list-style-type: none"> • Flooding of major roads disrupting transport routes • Some minor route bridges impassable • Danger to life • Damage to roads • Communications and travel disrupted • Flash floods affecting many communities • One or two local municipalities affected 	<ul style="list-style-type: none"> • Danger to life from fast flowing deep water • Evacuations and search and rescue operations may be needed • Roads impassable, road closures • Large-scale damage to major and minor roads • Widespread Flash floods • Large communities cut off • Bridges impassable or damaged • Houses flooded • More than two local municipalities affected
<p>1-hour Rainfall > 25 mm (particularly sensitive areas like urban basins, steep slopes) 6-hour Rainfall > 75 mm</p>			
	<p>1-hour Rainfall > 50 mm (particularly sensitive areas like urban basins, steep slopes) 6-hour Rainfall > 150 mm</p>		
		<p>1-hour Rainfall > 100 mm 6-hour Rainfall > 200 mm</p>	

What is your advice?

Response Matrix: Rainfall

Very Low - Business as usual	Low - Be Aware	Medium - Be Prepared	High - Take Action
<p>The Met service will continue to monitor for any changing weather conditions.</p>	<p>Be aware of flooding and stay out of flood waters. Evaluate inventory of emergency supplies (food, water, medical supplies), restock supplies as needed. Monitor roads and properties for localized flooding and possible traffic and public transportation disruptions.</p>	<p>Be prepared for flooding and stay out of flood waters Check emergency supplies, purchase additional supplies if needed, fill gas tanks, etc. Be prepared for localized flooding of roads and properties in [...locations...],and land slippages that could block roads. Prepare for possible delays or cancellation of public transportation services</p>	<p>Stay out of flood waters and prepare to use emergency supplies. Avoid walking or driving through moving water and seek safer/higher ground if in [...locations...]. Don't drive and stay off roads in flood prone areas or areas with frequent land slippage/landslides. Plan to shelter in place in non-flood areas.</p>

Scenario 2

- Strong winds up to 30 kts sustained are expected
- Winds will begin at 2200 and continue overnight

Wind Impacts Table

Minimal	Minor	Significant	Severe
<ul style="list-style-type: none"> Isolated trees branches damaged Few transport routes affected 	<ul style="list-style-type: none"> Localized tree damage blocking roads Localized transport routes affected and longer travel times needed Isolated loss of communication and electricity supply due to damaged power lines 	<ul style="list-style-type: none"> Weakly constructed houses suffer blown roofs or house collapse Some trees blown over or damaged and blocking roads Localized loss of communication and electricity supply due to damaged power lines Transport routes affected Localized problems with high profile vehicles on wind-prone routes One to two local municipalities affected 	<ul style="list-style-type: none"> Widespread damage to structures, houses destroyed, roofs blown off, weak structures overturned or blown away Falling trees and electrical power lines blocking major roads Widespread and long duration disruption to power supply and other services Dangerous driving conditions More than two local municipalities affected
Strong winds 20-33 kts			
	Gale / Tropical storm force winds 34-50 kts		
		Strong Tropical storm > 50 kts	

Response Matrix: Wind

Very Low - Business as usual	Low - Be Aware	Medium - Be Prepared	High - Take Action
We will notify you if weather conditions change.	Be aware of possible tumbling of unsecured objects, falling tree limbs, sea spray, and choppy seas in [...locations...]. Also be aware of possible traffic delays.	Be prepared for downed power lines, tumbling and rolling of unsecured objects, falling tree limbs and trees, sea spray, choppy seas and large breaking waves in [...locations...]. Also be prepared for road closures and traffic delays.	Expect downed power lines, tumbling and rolling of unsecured objects, falling tree limbs and trees, sea spray, choppy seas and large breaking waves in [...locations...]. Also expect road closures and traffic delays.