

HRVA Prioritizing Risk & Resiliency Strategies

September 20, 2022 9:00 am

Microsoft Teams

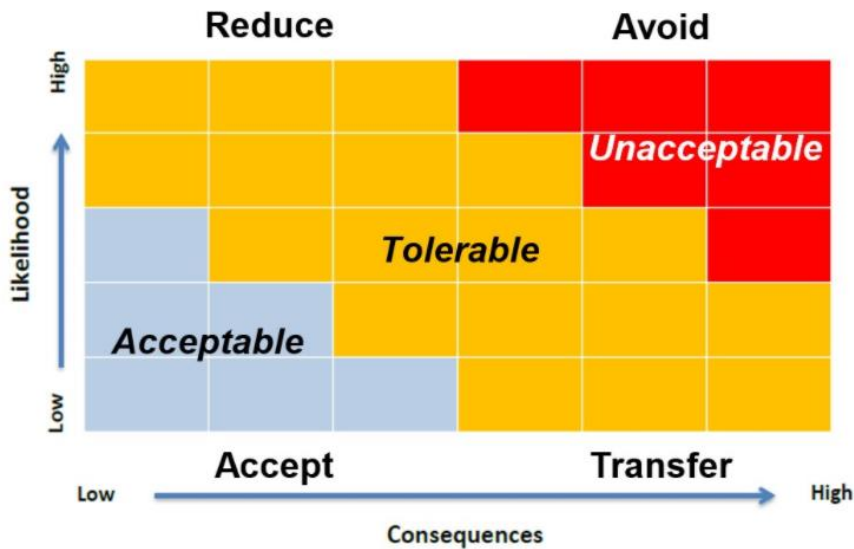
In Attendance

- Mark Parker
- Alana Legere
- Bob Storey
- Joe Pacheco
- Dave Christie

Regrets

- Audrey Fennema
- Juan Cereno
- Yvan Laramée
- Ashley Heathcliff
- Jason Ruming
- Michael Lee
- Lora-lee Pacheco
- Jason Regnier
- Adam Patrick
- Jo-Anne Fiske

Introduction Summary Hazard Matrix






















- This is the common Hazard Risk Matrix.
- The hazard list referenced within this report is based on the 42 or the 57 hazards, the Hazard Risk Matrix, as shown here, is a useful tool for a local authority during the process of determining the level of risk and the potential consequences to help determine options to reduce, avoid, accept, or transfer responsibility of the four pillars of emergency management (Mitigate, Prepare, Respond, Recover).
- Methodology – How is the matrix created and what does it tell us:
 - For the Likelihood Scoring – we used the Median Score.
 - For the Consequence (impact expressed in numbers) Scoring we used the mean, which is the average score.

Hazard Scoring

- This table summarizes the likelihood scoring and consequence scoring. The different colours represent where they fall on the Hazard Risk Matrix for Acceptable, Tolerable and Unacceptable.

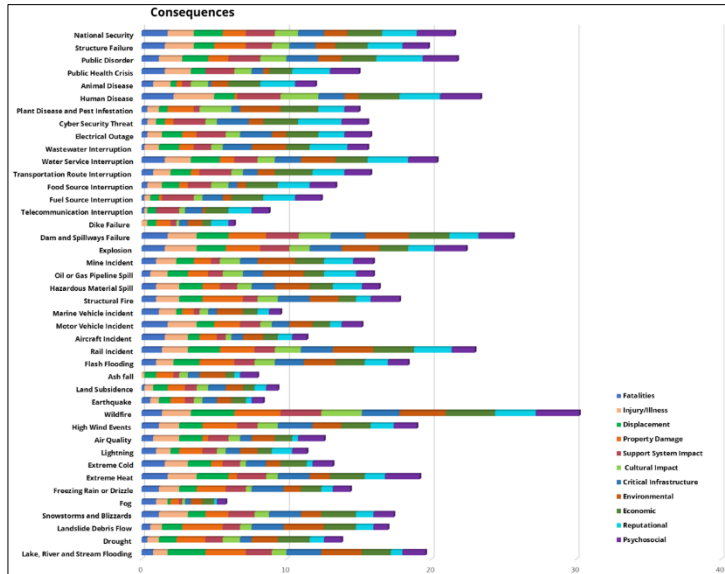
Priority	Hazard List	Current Likelihood	Consequence Total	Future Likelihood
1 	Wildfire	C - Probable	30	D - Likely
2 	Dam and Spillways Failure	C - Probable	26	D - Likely
3 	Human Disease	C - Probable	23	C - Probable
4 	Rail Incidents	D - Likely	23	E - Almost certain
5 	Explosions	D - Likely	22	D - Likely
6 	Public Disturbance	D - Likely	22	E - Almost certain
7 	National Security Threat	D - Likely	22	E - Almost certain
8 	Water Service Interruption	D - Likely	20	D - Likely
9 	Structural Failure	E - Almost certain	20	E - Almost certain
10 	Lake, River, and Stream Flooding	D - Likely	20	D - Likely
11 	Extreme Heat	D - Likely	19	E - Almost certain
12 	Hurricane/ Typhoon/High Wind	D - Likely	19	E - Almost certain
13 	Flash Flooding	B - Unlikely	18	B - Unlikely
14 	Structure Fire	B - Unlikely	18	B - Unlikely
15 	Snowstorms and Blizzards	C - Probable	17	D - Likely
16 	Landslide/ Debris Flow	C - Probable	17	C - Probable
17 	Hazardous Material Spill	C - Probable	16	D - Likely
18 	Mine Incident	B - Unlikely	16	B - Unlikely
19 	Oil or Gas Pipeline Spill	C - Probable	16	C - Probable
20 	Transportation Route Interruption	B - Unlikely	16	B - Unlikely
21 	Electrical Outage	D - Likely	16	D - Likely
22 	Cyber Security Threat	C - Probable	16	C - Probable
23 	Wastewater Interruption	C - Probable	16	C - Probable

Priority	Hazard List	Current Likelihood	Consequence Total	Future Likelihood
24 	Motor Vehicle Incident	B - Unlikely	15	C - Probable
25 	Plant disease and Pest Infestation	B - Unlikely	15	B - Unlikely
26 	Public Health Crisis	B - Unlikely	15	C - Probable
27 	Freezing Rain or Drizzle	A - Rare	14	A - Rare
28 	Drought	D - Likely	14	D - Likely
29 	Food Source Interruption	C - Probable	13	D - Likely
30 	Extreme Cold	C - Probable	13	D - Likely
31 	Air Quality	D - Likely	13	D - Likely
32 	Fuel Source Interruption	C - Probable	12	C - Probable
33 	Animal Disease	C - Probable	12	C - Probable
34 	Lightning	D - Likely	11	E - Almost certain
35 	Aircraft Incident	C - Probable	11	D - Likely
36 	Marine Vessel Incident	D - Likely	10	E - Almost certain
37 	Land Subsidence	D - Likely	9	E - Almost certain
38 	Telecommunications Interruption	D - Likely	9	D - Likely
39 	Earthquake	E - Almost certain	8	E - Almost certain
40 	Ash Fall	D - Likely	8	D - Likely
41 	Dike Failure	B - Unlikely	6	D - Likely
42 	Fog	C - Probable	6	D - Likely

Consequence Scoring Summary

0- None	1 - Low	2 - Medium	3 - High	4 - Extreme
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- Here is a visual breakdown of the total scores for the Consequence Scoring, based on the 11 sub-categories, which were totaled and into are reflected in the consequence stacking table.



Comments:

- Interesting how wildfire was rated the highest, while ash fall was the lowest.
 - The ash fall is referenced to volcanic ash, not wildfire ash.
 - I think the Committee would have based this on the wildfire ash.
- Traffic volume has increased in the past two years.
 - Potential for more accidents.
- There has also been a noticeable increase in train activity, and with the increase in Port capacity we will continue to see further increases.
- Surprised to see the Dam and Spillway Failure rated so high.
 - This would affect Nautley, Fort Fraser and Vanderhoof more so than Fraser Lake.

Hazard Matrix

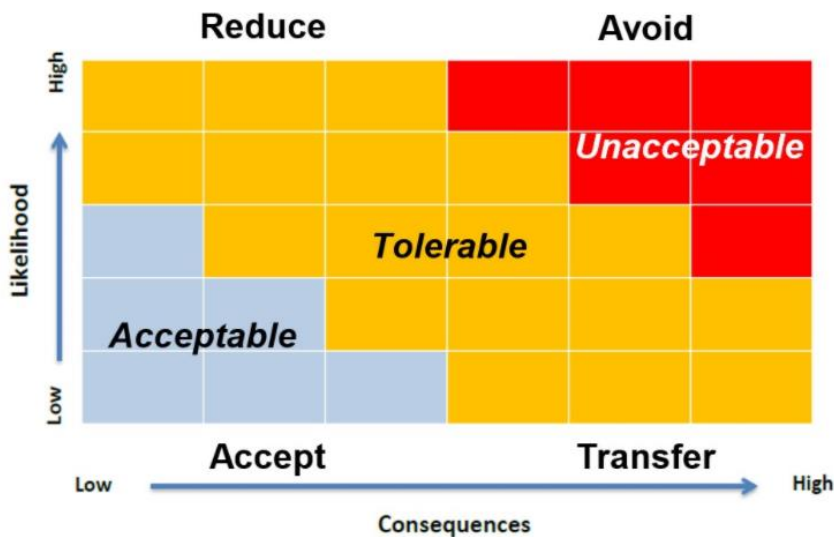
Here are the results shown in the Hazard Risk Matrix.

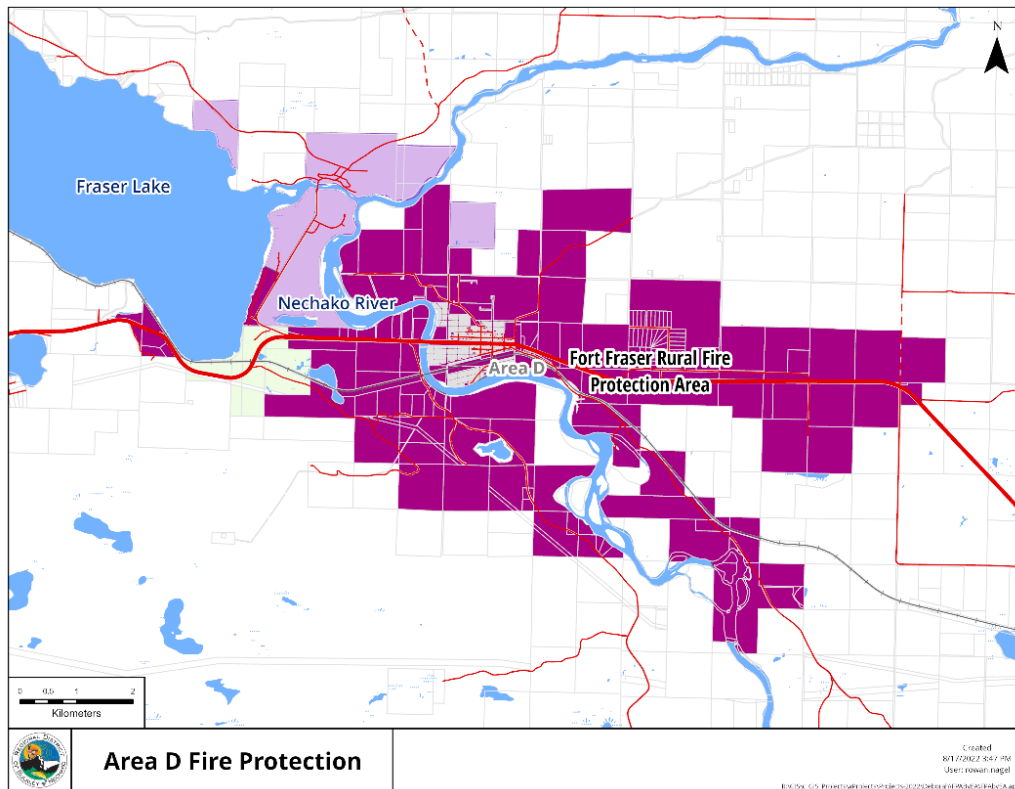


Comments:

- Surprised that the Dam and Spillway failure is under probable, this has been rated as a 26, the committee does see this as a risk.

Resiliency Strategies





Risk Reduction

Measures Form

- When considering your suggestions please consider:
 - What is Practical?
 - What falls under the jurisdiction of the RDBN? What can the RDBN do?
 - What risks does the RDBN to transfer and advocate for?
 - What risks can external agencies reduce?
 - What risk can residents assist in reducing?
 - How do we reduce, transfer and avoid risks? Where are the opportunities.

Comments/Questions:

- Is there a partnership with the Province of BC regarding environmental mitigation strategies with preparation with preventing further environmental damage? (As this is out of local government mandate)
 - Yes, advocacy is a strategy that the Regional District could move forward with. This is a high priority and would like to bring this to the Board of Directors.
- Emergency Operation Centre and Incident Command is a vital part of emergency response and could be added into the risk reduction.

Next Steps

- Return completed Risk Reduction Measure Form by **Friday October 7 by 4:30 pm.**
- The RDBN will be hosting a lunch or dinner in Fraser Lake once the draft HRVA is completed and will present the document to the committee.