

Risk ID	Description	Risk Category	Probability (1-3)	Impact (1-3)	PI Score	Expected Result, No Action	Mitigation	Contingency	Action by	Action when	Comments
ENVIRONMENTAL											
Climate	Vail's winter snowpack becomes less reliable, ski seasons become shorter, fewer skiers and guests during winter	Environmental,	3	3	6	Loss of small businesses	Current strategy is to provide early and late season events to attract guests	X	Vail Town Council, Vail Economic Advisory Council, Vail Resorts	Ongoing with Vail Town Council Work Plan and Vail Resorts	Vail will continue to reduce greenhouse gases but the issue is global.
Change Impacts: less reliable snowpack and shorter ski seasons		Financial	High probability over time	There is time to plan and diversify, add more snowmaking equipment							
Drought/	With less snowpack during winter there is a lack of water in streams and rivers	Environmental, Financial	3	2	5	Loss of water quality, less income from angling and rafting, potential forest die-off	Eagle River Water and Sanitation District proactively manages water use, small reservoirs exist to maintain minimum in stream flows	Cap water amounts and charge or fine water users who are out of compliance,	Eagle River Water and Sanitation District	Ongoing monitoring of snowpack water equivalency, Vail water efficiency plan	Efforts to improve outdated infrastructure and reduce water use during summer are underway
Lack of Water			We are entering a long-term drought with climate change	Vail has a water efficiency plan and takes measures to reduce use when needed				Mandatory switch to Xeriscaping			
Wildland Fire	Vail is surrounded by forests and has many trees within residential areas within town	Environmental	2	3	5	Loss of property, potential loss of life, environmental damage to waterways, loss of aesthetics	Vail Fire Department has implemented new regulations to limit trees, also thinned forest around perimeter of town	Evacuation plan implementation	Vail Fire Department	Ongoing	Citizens have concerns about cutting more trees due to loss of ecological and aesthetic values
	Financial										
	Social										
	Health										
Air Quality-- Smoke from Fire	During high fire season there have been increasing amounts of fires in the region and in the West that has caused visible smoke and ash in the air for weeks at a time	Health, Environmental, Social, Financial	3	2	5	Worsening air quality, EPA non-attainment listing for PM10. Increased asthma and respiratory concerns, loss of recreation ability and reduction in tourism	Urban Wildland Interface Mitigation measures (thinning around town boundaries), residential fire wise landscape guidelines and tree removal, no wood shake shingles on roofs. No wood burning stoves allowed.	Air quality monitor installation and need for increased health care, PSA and warnings for residents and guest to stay indoors	Vail Health, TOV, Eagle County	Ongoing	
Flooding—Runoff after Fire	Landslides and other erosive events following a wildfire introduce sediment to waterways	Environmental	2	3	5	Impacts to water quality, drinking water sources and aquatic life	Fire prevention, erosion control	Vail has a wildfire preparedness and evacuation plan in place	Vail Fire Department, Vail Resorts	Ongoing	While flooding is a great threat, fire mitigation measures can cause a lack of vegetation in sensitive areas causing erosion or a decline in habitat, we continue to balance these issues.
Damage to Sensitive Ecological Sites	Vail is situated in a narrow valley with Gore Creek and riparian habitat throughout. Development pressure, recreation and growing population threaten habitat	Environmental	2	3	5	Continued loss of habitat and species that depend upon them	Designated Open Space Zoning, Federally protected USFS lands, seasonal closures, development restrictions, 2018 Comprehensive Open Lands Plan, Land Use Plan, Conservation easements	X	TOV, USFS, Eagle Valley Land Trust, Vail Resorts		The Town's Comprehensive Open Lands Plan identified a need to assess biodiversity and create management plans on town-owned land. This work is expected to begin in 2020.
Water Quality	Non point-source pollution and loss of riparian habitat have impacted water quality	Environmental, economic, public health	2	3	5	Reversal of recent upward trend in aquatic invertebrate populations	Riparian restoration, stormwater filtration, education and outreach, Gore Creek Strategic Action Plan	X	TOV, ERWSD	Ongoing	TOV has committed \$8.5 million to Gore Creek restoration over 5 years
Avalanches	Near record avalanches in the 2018-19 winter season, considerable closures to highways and trails	Environmental, Financial	2	2	4	Continued extremes in fire, flood and avalanche without climate action	Safety measures such as closures, blasting, climate mitigation and adaptation measures, avalanche safety and awareness training courses, SAR Canines	Mountain or highway closures, search and rescue teams deployed	Joint- CDOT USFS, TOV, Search and Rescue, Eagle County, Vail Resorts	Preventative action and monitoring is ongoing. Large snowfall, slides, debris will prompt closures.	
Light Pollution	Safety concerns and a lack of awareness or enforcement of town code, increased development has increased light in the Valley	Environmental, Social	2	1	3	Change in wildlife habitats, impacted sleep patterns, loss of mountain experience and view of stars	Town code requirements for near Dark Skies compliant fixtures	X	TOV, CDOT	Citizen complaint within TOV boundaries, or when plans are submitted for development	Town code does not apply to CDOT highway lighting however, and can amount to considerable light pollution impact
Noise Pollution	I-70 highway noise, truck chain up area. Concert noise	Environmental, Social	1	1	2	Increasing traffic and diesel/noise levels	Highway berms, cutoff time of 10 p.m. for special events with music	X	CDOT, TOV	Citizen complaint	

Loss of Wildlife Populations	Development and loss of habitat has contributed to declines in elk and deer, impacts to birds, insects, etc.	Environmental	3	3	6	Complete loss of ungulate species in the near term, other species long term	Seasonal closures, habitat improvement projects, restrictions on development, proper land use planning, funding for wildlife, citizen science and environmental education programs, wildlife forums	X	USFS, CPW, TOV, EVLT, WMSC	Data show declines, immediate need for action	Eagle County recently conducted a Safe Passages for Wildlife study which assessed and prioritized the need for wildlife crossings along I-70 within the destination. This is a critical need for safe deer and elk crossing especially and the TOV intends to devote resources to the design of these crossings in 2019/2020.
Solid Waste Diversion	Vail's tourist-based economy leads to a higher per-capita waste percentage than the national average	Environmental, Financial	2	2	4	Low recycling rates, increasing landfill costs and space	TOV recycling ordinance, education programs, recycling mobile APP, local commercial composting site, Vail Resorts Zero Waste commitments	Build additional landfill capacity	TOV, VR,	Ongoing	Current TOV recycling rate is 24%
<b>ECONOMIC &amp; SOCIAL</b>											
Mental Health (added April 2019)	Growing urgency for mental health services due to high numbers of suicides locally and crisis intervention needs	Social, Health, Financial	2	2	4	Higher rates of suicides and a community in distress, higher health care costs for all	Eagle County has committed \$500,000 toward addressing needs and the County passed a ballot initiative instituting sales and excise taxes on marijuana products with the proceeds dedicated to mental health services in 2017.	X	Eagle County	In process	While beyond the scope of the destination, it is worth noting that within Eagle County, 2017 was the worst year on record for suicides. Local mental health providers are reporting exponential increases in calls for service. According to the National Association of State Mental Health Program Directors, Colorado now ranks 43rd in mental health spending in the U.S., in part due to the successful ballot measure in Eagle County.
Lack of Housing for Employees	Vail's high priced real estate and low paying jobs, VRBO and Air B and B make it difficult to find housing and challenges businesses to retain employees	Social, Financial	3	2	5	Continued sale of local housing stock to second homeowners, a loss of community, constant turnover of employees and negative impact on businesses and service levels	Vail's Housing 2020 Plan, Vail Indeed program, Middle Creek Income Qualified development, partnership with Eagle County on down-valley workforce housing project	X	TOV, Eagle County, VR	Ongoing	
Shorter Ski Seasons due to Lack of Snow	Climate extremes has already impacted snowpack, particularly in 2018, loss of visitors and recreation, sales tax	Environmental, Social, Financial	3	3	6	Total loss of the skiing economy in the long term, loss of water, loss of ecosystems	Climate actions - public policy, involvement with Colorado Communities for Climate action, local policy and programs (EnergySmart), pressure on Holy Cross Energy to switch to renewable energy	Up marketing on summer activities, creation of Epic Discovery Center for activities that do not require snow	TOV, Holy Cross Energy, Eagle County, Vail Resorts	Ongoing	
Lack of Economic Diversity and Resiliency	Dependence upon the ski industry for sales tax, high property values	Financial	3	1	4	Loss of businesses and tax dollars associated with skiing	Vail has increased focus on health tourism, the redevelopment of the hospital has led to increased high-paying jobs that makes up a significant sector of the economy in the destination.	A larger focus on remote-working, summer activities	TOV, VEAC, VR, Eagle County	Ongoing	
Overcrowding	Colorado has one of the fastest growing populations in the nation, impacting housing, traffic, resort communities and outdoor experiences including the state's "14ers" (14,000 ft. peaks). Negative guest experience due to overcrowding in Villages and on trails, impact to ecosystem	Environmental, Social, Financial	2	2	4	Trampled and damaged vegetation and trails, loss of habitat and wildlife, visitors decide to go elsewhere	Management of special events, efforts by TOV, USFS, Welcome Center and lodging community to spread out and manage trail use (e.g. away from the Booth Creek Trail), Leave No Trace education,	Close trails, permit only, mandatory public transportation, managed/pay parking	TOV, USFS, VR, Lodges	Beginning more serious coordination process 2019	
Loss of Guest Loyalty	Repeat visitation is extremely important to building the brand, and generations of skiers, property owners, successful businesses	Financial, Social	1	1	2	Decrease in sales tax, loss of identity, slip in rating, inability to target market effectively	Robust marketing and high levels of guest service, attention to surveys		TOV, VEAC, VR	Any changes in guest surveys, sales tax, or low snow year	
Crime and Loss of Safety	Community and resort experience are dependent upon a safe and welcoming environment. Threats exist on property theft, domestic violence incidences, some issues with transient population and major highway access	Social	1	3	4	Fear, less visitation, residents moving out of valley, high expenditures on crime management	Police presence, well-staffed code enforcement and PD, serious prosecution of crimes, prevention plan	Increase in enforcement and checks, patrol	TOV, Eagle County PD	Ongoing	
Lack of Parking for Guests	Many front range guests, employee parking, and lack of walkability/winter/social norming for green commuting or barriers to public transportation leads to lack of available parking spaces	Social, Financial	1	1	2	Continued frustration, lack of guests, crowding and parking on frontage road	Managed parking and a large free bus system, additional parking garage built 2018		TOV	Major action completed 2018, ongoing	

