



Resort Family Safety Survey

Note: “Most” means half or more. “Some” means less than half. “N/A” means that the question is not applicable to your resort. Examples:

Hypothetical Sample Question: Patches of purple snow are marked signed N/A.

Checked “marked” box means there is a marker at the location of the hazard; checked “signed” box means there is a sign at the location or in advance of the hazard. Both “marked” and “signed” boxes may be checked if they both apply. Checked “N/A” box means there is no purple snow at the resort.

Hypothetical Sample Question: All Most Some N/A chairlifts at my resort are painted red.

Only one check box can apply. No checked boxes means that there are chairlifts, but none of them are painted red. Checked “N/A” box means there are no chairlifts at the resort.

Please call (415-839-6716) or email us (snowsportsafety@gmail.com) with questions or for clarifications. Email a completed copy of the Survey to the above email address or mail it to 1494 Page Street, San Francisco, CA 94117 by November 15, 2015.

Name of Resort:

Name/Title of Individual(s) Completing Survey:

Date:

A. IMPACT PROTECTION: Devices and systems to prevent falls from lifts and to prevent or reduce injury severity from impact with lift poles, outbuildings and other man-made structures and equipment.

1. Impact mitigation devices or systems are used for All Most Some N/A of your lift-related structures and outbuildings to which skiers and riders are exposed. If so, please indicate what devices or systems are used (check all that apply):

	All	Most	Some	N/A
Rope or ribbon barriers	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Crossed bamboo poles	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	All	Most	Some	N/A
Bean bags (i.e., “Willie Bags”)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Snow berms	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Closed cell foam cylinders (Gilman or other)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Waterproof hay/straw bales	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Open cell foam pads/sheets (waterproof fabric covered)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Improvised catch nets/fences	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
FIS-approved catch fences	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

2. All Most Some N/A man-made fixed obstacles to which skiers and riders on slopes and trails may be exposed are marked. Please indicate how many of them are equipped with impact mitigation devices or systems:

	All	Most	Some	N/A
Snowmaking hydrants	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Snowmaking guns	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Posts and poles on trails	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Exposed snowmaking air and water supply pipes	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Other (please describe):

3. Isolated on-snow motorized vehicle lanes are provided for All Most Some N/A regular access routes on or near designated trails and slopes.
4. All Most Some N/A on-snow motorized vehicles are equipped with and display flashing lights and/or flags when operating on the trails and slopes.
5. All Most Some N/A on-snow motorized vehicles are accompanied by one or more staff escorts when traveling on the open trails and slopes.
6. All Most Some N/A on-snow motorized vehicles parked on or adjacent to open trails and slopes maintain operating warning lights and/or are shielded by fencing or impact mitigation devices or systems.
7. All Most Some N/A lift chairs have restraint or safety bars installed.
8. All Most Some N/A lift chairs have been specifically designed or adapted for child safety.

Please describe the specific design or adaptation below:

9. Yes No N/A: All passengers are required to properly engage restraint or safety bars when riding chairlifts so equipped.
10. Yes No N/A: Operating procedures require an adult to accompany young child passengers on chairlifts.

If yes, please specify the applicable age and/or size required for unaccompanied children _____.

11. All Most Some N/A lift operators are fluent in English.
12. Yes No N/A lift operators are subject to pre-employment and/or random drug testing.

B. TRAIL DESIGN, MAINTENANCE AND MANAGEMENT: Prevention of skier-skier collisions and injuries from collisions with natural hazards.

1. • All • Most • Some • N/A trail intersections have been constructed to allow full advance visibility of merging traffic from both directions.

• All • Most • Some • N/A intersections without full advanced visibility from both directions have physical barriers to allow for separation of the merging traffic.

• All • Most • Some • N/A intersections of mixed skill level (beginner, advanced, expert) have physical barriers to allow for separation of the merging traffic.

2. • All • Most • Some • N/A intersections of trails have warning signs posted on both trails in advance of the intersection.

3. Please indicate which of the following separation devices or systems are used at trail intersections of mixed ability skill levels and/or without full advance visibility from both directions:

	All	Most	Some	N/A
Nets or fences separating merging traffic	•	•	•	•
Double rope or ribbon barriers separating merging traffic	•	•	•	•
Single rope lines separating merging traffic	•	•	•	•
Wanded bamboo poles separating merging traffic	•	•	•	•
Solid wood, plastic or metal fences separating merging traffic	•	•	•	•
Other barriers separating merging traffic	•	•	•	•

Other (please describe):

4. • All • Most • Some • N/A traffic flow congestion areas (due to merging or trail constriction) have speed controls.

5. Please indicate which of the following speed controls are used at traffic flow congestion areas if applicable:

	All	Most	Some	N/A
Slow signs	•	•	•	•
Staggered fence sections (i.e., maze fences)	•	•	•	•
Posted staff enforcement	•	•	•	•
Other	•	•	•	•

Other (please describe):

6. • Yes • No • N/A beginner/learning areas are specifically designated.

7. • All • Most • Some • N/A beginner/learning areas are protected from other skier/snowboarder traffic.

8. • All • Most • Some • N/A egress trails or slopes that are shared by advanced/expert and

beginner/novice skiers and snowboarders are • actively (posted staff) and/or • passively (signs, electronic speed monitors) managed for speed control.

9. Please indicate which of the following methods are used to separate learning areas:

	All	Most	Some	N/A
Geographic isolation	•	•	•	•
Fences to restrict inadvertent entry	•	•	•	•
Rope or barriers to restrict inadvertent entry	•	•	•	•
Perimeter signs	•	•	•	•
Posted staff enforcement	•	•	•	•

Other (please describe):

10. • All • Most • Some • N/A natural surface hazards (e.g., exposed tree stumps, rocks, bare spots, sink holes, creeks, etc.) on open designated skiing and riding terrain are marked with bamboo poles or by other means.

11. Please indicate which of the following methods are used to mark surface hazards:

	All	Most	Some	N/A
Bamboo or stick markers	•	•	•	•
Signs	•	•	•	•
Net or fabric fences	•	•	•	•
Wire flags	•	•	•	•
Other	•	•	•	•

Other (please describe):

12. • All • Most • Some • N/A isolated, single or small groups of trees standing on trails and slopes designated specifically for beginner/novice skiers and riders are equipped with impact mitigation devices or systems.

13. • All • Most • Some • N/A exposed man-made or natural obstacles below areas of side-slope trails and slopes have impact mitigation devices or systems.

14. • All • Most • Some • N/A areas of unmanaged (un-groomed and no hazard marking) terrain have posted advance warning signs at potential entry points.

15. • All • Most • Some • N/A areas of unmanaged (un-groomed and no hazard marking) terrain have designated entry gates.

16. • All • Most • Some • N/A areas of unmanaged (un-groomed and no hazard marking) terrain have rope or other barriers to prevent inadvertent entry.

17. • All • Most • Some • N/A unmanaged terrain (un-groomed and no hazard marking) has marked and/or signed alternative pathways to less challenging terrain in advance of their entry point.

18. • All • Most • Some • N/A points of potential inadvertent entry into unmanaged areas are monitored by video or stationed staff.

19. Please indicate which of the following apply to preventing inadvertent entry into unmanaged

(un-groomed and no hazard marking) areas:

	All	Most	Some	N/A
Access discouraged with fence barrier	•	•	•	•
Access discouraged with double ribbon or rope-line barrier	•	•	•	•
Area defined by single rope or wanded bamboo barrier	•	•	•	•
Area defined by posted signs around boundary or perimeter	•	•	•	•
Posted staff at access points	•	•	•	•

Other (please describe):

20. • All • Most • Some • N/A trails and slopes are monitored for reckless behavior.

21. Please indicate which of the following are utilized to monitor trails and slopes for reckless behavior:

	All	Most	Some	N/A
Roving ski patrollers or other staff	•	•	•	•
Stationed ski patrollers or other staff	•	•	•	•
Video monitoring	•	•	•	•

22. • Yes • No • N/A Reckless skiers/boarders are evicted after • first violation, • one warning, • two warnings or • three warnings.

23. • All • Most • Some • N/A impact protection barriers are erected when and where lift lines are exposed to downhill traffic.

24. Shielded (by fencing or other barriers) designated rest areas are provided on the sides of • All • Most • Some • N/A slopes and trails where feasible.

C. RESORT BOUNDARIES

1. Boundaries are • open or • closed or • some of both.

2. For open boundaries, please check all of the following that apply.

- No barriers and no designated exit points
- Designated and marked exit points
- Regularly spaced markers and warning signs
- Barriers, warning signs and exit gates

3. For closed boundaries, please check all of the following that apply.

- No barriers or signs
- Regularly spaced markers and warning signs along • All • Most • Some • N/A of the closed boundaries
- Fencing or other barriers along • All • Most • Some • N/A of the boundaries

4. Please specify the size, shape, color and words/symbols of regularly spaced boundary **markers**:

5. Please specify the size, shape, color and words/symbols on regularly spaced boundary **signs**:

6. Please specify the size, shape, color and words/symbols on commonly used warning signs:

7. Please specify the placement (e.g., on trees, poles, etc.) of regularly spaced boundary signs:

8. Please specify the size, shape, color, placement and words/symbols on any special boundary danger warning signs:

D. JUMPS, OTHER ACROBATIC FEATURES AND TERRAIN PARKS • N/A

1. •Yes • No: There are jumps and/or other acrobatic features on the slopes and trails outside of a designated terrain park.

If yes, please specify the type of features:

- All • Most • Some • N/A have warning signs in advance of entry points.
- All • Most • Some • N/A are marked at the entry points.
- All • Most • Some • N/A are isolated and/or have barriers to inadvertent entry.
- All • Most • Some • N/A have warning signs in advance of landing/egress areas.
- All • Most • Some • N/A have barriers preventing inadvertent entry to landing/egress areas.
- All • Most • Some • N/A jumps and other acrobatic features are designed by licensed engineers.

2. •Yes • No: Your resort has a designated terrain park(s).

If yes:

- Yes • No: The terrain park(s) is/are in a defined area isolated from other traffic.

Please indicate which of the following methods are used to manage inadvertent access to terrain park(s):

	All	Most	Some	N/A
Gated access	•	•	•	•
Perimeter defined by fence barrier	•	•	•	•
Perimeter access managed by double ribbon or rope-line barrier	•	•	•	•
Perimeter defined by single rope or wanded bamboo barrier	•	•	•	•
Perimeter defined by posted signs around boundary or perimeter	•	•	•	•
Posted staff at access points	•	•	•	•

Other (please describe):

3. • Staff • Patron spotters are required for all jumps and other acrobatic features.

4. • Yes • No: Starting points are designated and marked for all ramped jumps to control take-

off speed.

5. • Yes • No: Speed gun displays (or other methods) are provided for all ramped jumps to help jumpers determine appropriate approach speed.

Other methods (please describe):

Please check the appropriate boxes below for your resort’s terrain park:

	All	Most	Some	N/A
Takeoff points for jumps are flagged or marked	•	•	•	•
Half pipe decks are roped off	•	•	•	•
Features are designed by licensed engineers	•	•	•	•
Terrain park is staffed and supervised at all times	•	•	•	•

E. ALALANCHE HAZARD FORECASTING, MITIGATION AND RESCUE

1. • Yes • No: Does your resort have potential avalanche terrain that impacts the permit area or other areas within the boundaries of the resort. (If “No,” skip this section.)
2. • Yes • No: Is any part of your resort operating under Federal or State permits?
3. All • Most • Some • No potential avalanche terrain is on government permit land. If not “All” or “No,” please specify location(s): _____
4. • Yes • No: Does your resort have a written avalanche hazard forecasting plan?
5. • Yes • No: Does your resort have at least one person on staff whose primary responsibility is that of an avalanche hazard forecaster?
6. • Yes • No: Is there at least one dedicated avalanche forecaster present at the resort every day of winter operations?
7. • Yes • No: Are snow pits dug in or near an avalanche path’s starting zones on a regular basis?
8. • Yes • No: Are written or digital records of snow pit data collected for each snow pit?
9. • Yes • No: Are continuous records of snow pit data made available for easy reference for all members of the avalanche hazard forecasting and mitigation team?
10. • Yes • No: Does your resort have an avalanche hazard mitigation program?
11. • Yes • No: Does your resort have a written avalanche hazard mitigation plan?

12. Please indicate the type(s) of avalanche hazard mitigation measures used at your resort:

	All	Most	Some	N/A
Explosives (hand charges, tramway, gas exploders, etc.)	•	•	•	•
Artillery (military, Avalauncher, etc.)	•	•	•	•
Ski or snowboard checking (includes cornice cutting, improvised loading, etc.)	•	•	•	•
Temporary avalanche terrain closures using signs only	•	•	•	•

Temporary avalanche terrain closures using rope line	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Temporary avalanche terrain closures using posted staff	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Permanent closures of avalanche terrain	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Temporary closures of lift access to avalanche terrain	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

13. • Yes • No: Are written or digital records kept of when and where all avalanche hazard mitigation measures are used?
14. • Yes • No: Are written or digital records kept of all results from active (any attempt to trigger avalanches) avalanche hazard mitigation efforts?
15. • Yes • No: Are continuous records of active avalanche hazard mitigation measures used and their results made available for easy reference for all members of the avalanche hazard forecasting and mitigation team?
16. • Yes • No: Does your resort have an avalanche rescue program?
17. • Yes • No: Does your resort have a written avalanche rescue plan?
18. • All • Most • Some • No resort employees receive annual avalanche rescue skills training. If not “All” or “No,” please specify which employees (by role) receive training:

19. • Yes • No: Avalanche rescue equipment for rapid response is located at all • All • Most • Some • No ski patrol stations. If so, please indicate the equipment included. _____

F. METHODS AND MATERIALS

1. • Yes • No: The resort post a “key” or “legend” of the meaning of all markers and signs and to advise the public as to how they can best respond to signs and hazard markings they will encounter on the trails and slopes. If so, please provide a copy of the key.
2. The trail sign and hazard marker key is posted at (please check all that apply):
- The base of the mountain.
 - At all lift loading/unloading areas.
 - On trail maps.
 - On the resort’s website.
3. • All • Most • Some • No trail signs and hazard markers are specifically designed to be understood by children.

Please provide examples:

4. • All • Most • Some • N/A rope barriers are equipped with safety-release capability.
5. • All • Most • Some • N/A crowd control fencing is collapsible.
6. • All • Most • Some • N/A barrier fencing is impact absorbing.
7. • All • Most • Some • N/A trail sign posts and hazard markings are collapsible.

8. • All • Most • Some • N/A impact mitigation devices and systems on trails and slopes are designed to minimize injury up to __ 5-10 mph, __ 10-15 mph, __ 15-20 mph, __ 20-25 mph, __ 25-35 mph or greater.

G. SAFETY POLICY, PLANNING, MANAGEMENT AND DOCUMENTATION

1. Please check the appropriate boxes below for your resort’s safety policy, planning, management and documentation:

	Yes	No
The resort has a documented safety plan	<input type="checkbox"/>	<input type="checkbox"/>
The resort makes the safety plan available to the public on request (please return a copy with this survey)	<input type="checkbox"/>	<input type="checkbox"/>
All mountain employees are aware of and have access to the safety plan	<input type="checkbox"/>	<input type="checkbox"/>
All mountain staff are encouraged to raise safety concerns and identify injury prevention opportunities	<input type="checkbox"/>	<input type="checkbox"/>
The safety plan is reviewed and updated annually	<input type="checkbox"/>	<input type="checkbox"/>
A mountain manager or supervisor has designated responsibility for safety and accident prevention	<input type="checkbox"/>	<input type="checkbox"/>
An appointed workgroup of managers and mountain staff meets regularly to review all accidents resulting in death or serious injury (e.g., requiring ambulance transport) and makes recommendations for improved safety policies and practices	<input type="checkbox"/>	<input type="checkbox"/>
Alcohol is served at restaurant facilities on the slopes (not including the base lodge)	<input type="checkbox"/>	<input type="checkbox"/>
A maximum number of customers (season pass and day ticket purchases) on the trails and slopes has been established and is enforced by a limit on lift-ticket sales	<input type="checkbox"/>	<input type="checkbox"/>
Some types of riding equipment (e.g., snowboards, snow bikes, sleds, etc.) are prohibited, segregated or given restricted access to all or some trails and slopes.		
If yes, please specify the type(s) of riding equipment and the related exclusion or restriction: _____ _____ _____	<input type="checkbox"/>	<input type="checkbox"/>

H. PERSONAL SAFETY EQUIPMENT AND EDUCATION

1. Please check the appropriate boxes below for your resort’s safety equipment and education:

	Yes	No
Helmets are required for all children and adolescents at all times on the trails and slopes. If yes, please specify age: _____	<input type="checkbox"/>	<input type="checkbox"/>
The resort requires a mountain safety orientation for all children and adolescents new to the resort	<input type="checkbox"/>	<input type="checkbox"/>
The resort provides a voluntary mountain safety orientation for all children and adolescents new to the resort	<input type="checkbox"/>	<input type="checkbox"/>
Helmets are available for children and adolescents at no charge	<input type="checkbox"/>	<input type="checkbox"/>
Helmets are available for rent by children and adolescents	<input type="checkbox"/>	<input type="checkbox"/>
Resort staff are required to wear helmets when on trails and slopes.	<input type="checkbox"/>	<input type="checkbox"/>

I. PATROLLER STAFFING, CERTIFICATIONS AND PROCEDURES

1. • All • Most • Some • N/A patrollers are paid employees of the resort.
2. • All • Most • Some • N/A patrollers have current NSP or professional (AAPP) certification.
3. • All • Most • Some • N/A patrollers have current OEC or EMT certification.
4. • All • Most • Some • N/A patrollers have current basic Red Cross First Aid certification.
5. • Yes • No: A physician or licensed paramedic is always available on the slopes, trails or at the base lodge when the slopes and trails are open.
6. • Yes • No: The resort maintains a continuously updated manual of patroller qualifications, roles/responsibilities and procedures.
7. • Yes • No: There are clearly defined weather, snowpack and other parameters for closing all or parts of the resort slopes and trails.

J. RESORT STATISTICS

Please provide the following information. This information will be helpful to potential patrons in determining the appropriateness of your facility for their families. It will also help SSF normalize (to skier volume and terrain risk) the resort-specific data we are beginning to collect on deaths and serious injuries.

1. Number _____ and acreage _____ of skiable slopes and trails when fully operating
2. Percentage of slopes by color designation (number/acreage): Green____/____,
Blue____/____, Single Black Diamond____/____, Double Black Diamond____/____,
Other____/____ (please specify): _____
3. _____ Average number of skiers/riders per week day (past three seasons)
4. _____ Average number of skiers/riders per weekends/holidays (past three seasons)
5. _____ Average number of patrollers per week day (past season)
6. _____ Average number of patrollers per weekends/holidays (past season)
7. Total annual skier days during the past five seasons:
_____ 2014/2015
_____ 2013/2014

_____ 2012/2013

_____ 2011/2012

_____ 2010/2011

COMMENTS, SUGGESTED IMPROVEMENTS, EXPANSION/EXPLANATION OF RESPONSES

PLEASE RETURN THE COMPLETED SURVEY AND ADDITIONAL INFORMATION TO:

SnowSport Safety Foundation
1494 Page Street
San Francisco, CA 94117

Or snowsportsafety@gmail.com

Page | 8