European danger scale with recommendations and additions

		European danger scale					
Danger level	Title	Snowpack stability	Avalanches: size, incidence, probability of release	Additional character- istics	Recommenda- tions for back- country recrea- tionists	Implications and recommendations for transportation routes and settlements	Forecasting frequency and percentage of deaths
5 very high	Extraordinary avalanche situ- ation	The snowpack is poorly bonded and largely unstable in general.	Numerous very large and often extremely large natural ava- lanches can be ex- pected.	Heavy snowfall	You are advised not to engage in winter sports beyond open ski runs and trails. Respect closures.	Avalanches can travel large distances, including beyond the extent of familiar paths. Transportation routes and settlements can be seriously endangered. Extensive safety measures are usually required.	Very rarely forecast. Around 1 % of avalanche fatalities.
4 high	Very critical avalanche situ- ation	The snowpack is poorly bonded on most steep slopes.	Triggering is likely even from low additional loads on many steep slopes. In some cases, numerous large and often very large natural avalanches can be expected.	Remote triggering is typical. Whumpf sounds and shooting cracks occur often. Critical amount of new snow exceeded or heightened likelihood of wet-snow avalanches.	Stay on moderately steep terrain. Heed runout zones of very large avalanches. Unexperienced persons should remain on open ski runs and trails.	Avalanches can travel large distances, in particular within familiar paths. Exposed objects (mostly sections of transportation routes, but in isolated cases also buildings) can be endangered. Consider taking safety measures.	Forecast only on a few days throughout the winter. Around 10 % of avalanche fatalities.

3 consider-	Critical ava-	The snowpack is	Triggering is possible	Whumpf sounds and	The most critical	In individual cases	Forecast for
able	lanche situa-	moderately to	even from low addi-	glide cracks typically	situation for	exposed objects	around 30 %
	tion	poorly bonded on	tional loads particu-	occur, but not in all	backcountry rec-	(mostly sections of	of the winter
		many steep slopes.	larly on the indicated	cases. Remote trigger-	reationists. Se-	transportation	season.
			steep slopes. In cer-	ing can occur. In many	lect best possible	routes) can be en-	Around 50 %
			tain situations some	cases the critical	route and take	dangered. Here,	of avalanche
			large, and in isolated	amount of new snow	action to reduce	consideration	fatalities.
			cases very large natu-	is reached, fresh	risks. Avoid very	should be given to	
			ral avalanches are	snowdrift accumula-	steep slopes with	taking safety	
			possible.	tions exist over a wide	the aspect and	measures.	
				area, or the snowpack	elevation indi-		
				is either prone to trig-	cated in the ava-		
				gering due to persis-	lanche bulletin.		
				tent weak layers or is	Unexperienced		
				being weakened by	persons are ad-		
				water infiltration.	vised to remain		
					on open ski runs		
					and trails.		

2 moder-	Mostly favour-	The snowpack is	Triggering is possible	Warning signs can	Routes should be	Very little danger.	Forecast for
ate	able avalanche	only moderately	primarily from high	occur in isolated cas-	selected careful-		around 50 %
	situation	well bonded on	additional loads, par-	es. Weak layers in the	ly, especially on		of the winter
		some steep slopes;	ticularly on the indi-	snowpack are prone	slopes with the		season.
		otherwise well	cated steep slopes.	to triggering in some	aspect and eleva-		Around 30 %
		bonded in general.	Very large natural	places. Fresh snow-	tion indicated in		of avalanche
			avalanches are un-	drift accumulations	the avalanche		fatalities.
			likely.	are mostly shallow or	bulletin. Travel		
				cover only small areas.	very steep slopes		
					one person at a		
					time. Pay atten-		
					tion to unfavour-		
					able snowpack		
					structure (persis-		
					tent weak layers,		
					old snow prob-		
					lem).		
1 low	Generally fa-	The snowpack is	Triggering is general-	No warning signs pre-	Travel extremely	No danger.	Forecast for
	vourable ava-	generally well	ly possible only from	sent. Small fresh	steep slopes one		around 20 %
	lanche situa-	bonded (or entire-	high additional loads	snowdrift accumula-	person at a time		of the winter
	tion	ly loosely packed)	in isolated areas of	tions can exist in iso-	and be alert to		season.
•		and stable.	very steep, extreme	lated cases.	the danger of		Around 5 %
			terrain. Only small		falling.		of avalanche
			and medium natural				fatalities.
			avalanches are possi-				
			ble.				

Additional information and definitions

- The avalanche bulletin usually describes areas where the danger is most significant in greater detail (e.g. elevation zone, aspect, topography, etc.).
- Slope angles:
 - very steep, extreme terrain is especially unfavourable as regards the slope angle, topography, proximity to ridgelines or ground conditions
 - extremely steep: steeper than 40°
 - very steep: steeper than 35°
 - steep: steeper than 30°
 - moderately steep: less than 30°
- Additional load (artificial triggering):
 - high (e.g. group of skiers without spacing, snowmobile/groomer, avalanche blasting)
 - low (e.g. single skier, snowboarder or snowshoe hiker)
- Natural: without human influence
- For avalanche sizes, see https://www.slf.ch/en/avalanche-bulletin-and-snow-situation/about-the-avalanche-bulletin/avalanche-sizes.html
- Aspect: the compass direction which a downward slope faces
- Ski runs: marked pistes and descents
- Trails: marked snowshoe and winter hiking trails
- Experience: experience in assessing avalanche danger means the ability to obtain and correctly interpret external sources of information, e.g. the avalanche bulletin, and one's own observations with regard to avalanche danger, and to respond correctly in accordance with the situation.
- Warning signs include: recent avalanches, whumpf sounds or shooting cracks
- Critical amount of new snow: 10-20 cm when conditions are unfavourable, 20-30 cm when conditions are fair and 30-50 cm when conditions are favourable
- Exposed: especially exposed to danger, e.g. section of road in steep terrain within range of even medium avalanches