Appendix H Reporting Avalanche Involvements

H.1 Objective

The objective of reporting avalanche accidents and damage is to collect data about the extent of avalanche hazards in the United States. Summaries of the reports will draw attention to avalanche problems and assist in the development of risk reduction measures.

H.2 Reporting Forms

Two different reports are available for recording avalanche accidents and damage. Any person who wishes to report an avalanche incident or accident can use these reports.

The short form is a brief summary of an avalanche incident or accident. This form should be submitted every time people are involved in an avalanche, property is damaged or a significant natural event occurs.

The long form is a detailed report that can be used as a template for an accident investigation. This report should be completed when an avalanche causes a fatality, serious injury, or property damage in excess of \$5,000, or when the incident has a high educational value. It may be useful as a checklist when operations wish to describe an accident and rescue work in greater detail.

H.3 Filing of Reports

Completed short reports should be returned as quickly as possible to the nearest avalanche center. A copy should also be sent to the Colorado Avalanche Information Center, which serves as a central recording hub for avalanche accident information.

Colorado Avalanche Information Center 325 Broadway WS1 Boulder, CO 80305 caic@qwestoffice.net Voice: (303) 499-9650 Fax: (303) 499-9618

www.colorado.gov/avalanche

Reports will be used to identify trends in avalanche accidents, used for educational purposes, and to maintain long-term data sets. The reporter's and victim's names and contact information should be recorded. Requests for anonymity will be noted and respected whenever possible.

H.4 Completing the Short Form

H.4.1 Date and Time

Fill in the date and time of the avalanche occurrence.

H.4.2 Location

Give the mountain range, valley and feature where the avalanche occurred. Include as much information as possible including county name, ski area name, highway name, avalanche path and GPS coordinates.

H.4.3 Group and Activity Description

Record the primary purpose of the group when the avalanche occurred. Enter the number of people engaged in each listed activity. If the activity is not listed write it in (i.e. mountain climbing, snowshoeing, traveling on a road). Note if the group was ascending, descending, etc.

H.4.4 People Caught in the Avalanche

Enter the number of people that were involved in the avalanche and the number injured or killed. Of those involved, give the number that were not caught or buried; the number *caught*; the number that were *partially buried—not critical*; the number that were *partially buried—critical*; and the number *completely buried* using the definitions listed below.

The following definitions were composed for the purpose of reporting incidents and accidents with the intent of delineating between different rescue scenarios.

A person is *caught* if they are touched and adversely affected by the avalanche. People performing slope cuts are generally not considered *caught* in the resulting avalanche unless they are carried down the slope.

A person is *partially buried–not critical* if their head is above the snow surface when the avalanche stops.

A person is *partially buried–critical* if their head is below the snow surface when the avalanche stops but equipment, clothing and/or portions of their body are visible.

A person is *completely buried* if they are completely beneath the snow surface when the avalanche stops. Clothing and attached equipment are not visible on the surface.

For people that were *completely buried* or *partially buried*—*critical*, estimate the length of time they were buried, the burial depth measured from the snow surface to their face, position of person (face up, face down, or sitting), the distance between multiple persons and distance from vehicle if applicable. Include the method of rescue used to find the victim (i.e. transceiver, exposed equipment, exposed body part, spot probe, probe line, voice, etc.).

H.4.5 Diagram

Provide a sketch, photograph, or digital image showing the outline of the avalanche, the deposit, and the locations of people, snowmobiles, and other equipment when the avalanche started and when it stopped. Include significant terrain features and avalanche path characteristics such as starting zones or terrain traps.

H.4.6 Avalanche Description

Fill in the appropriate fields as accurately as possible.

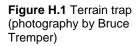
H.4.7 Comments

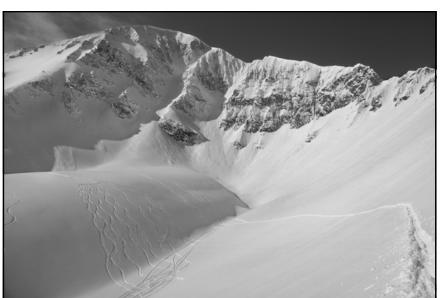
Briefly describe: events leading to the avalanche involvement; how the rescue was conducted; the injuries sustained; level of avalanche training of group members; and other information that may be significant. A description of the events and decision-making process leading up to the accident should be recorded.

H.5 Completing the Detailed Report

On the form enter the information in the spaces provided or tick off the multiple-choice statements.

Write "N/Av" if the information is not available or "N/App if not applicable. Online versions of these forms can be found at www.avalanche.org, www.fsavalanche.com, and www.colorado.gov/avalanche.







American Avalanche Association Forest Service National Avalanche Center Avalanche Incident Report: Short Form



	AAA		Occurr	ence D	ate:(YYY	YMMDI	D)	Time:(HHMM)						MENT OF AGRICUS
Reportin	g Party Na	ame and	d Address:											
Avalanch	Type: Trigger _ Size: R_ Sliding S	 _/D urface (Aspec Slope	Angle tion:	:	m / ft	Site Nar Lat/Lon	County: Itn Pass, or Drain	nage:					
Group		ber of ople						Dimensions □ m □ ft			Average			mum
Caught								Height of Crow	n Face					
Partially			Time				Depth to Face	Width of Fractu	ure					
Buried— Not-critic			Recovere	ed	Duration o	of Burial	□m □ ft	Vertical fall						
Partially								Snow	H	Hardness		Grain Type	G	rain Size
Buried— Critical								Slab						
Complete	ely							Weak Layer						
Buried								Bed Surface						
Number o	of people ir	ijured:_		1	Number of	people k	illed:	Thickness of w	eak layer:_			mm / cm /	in	
Burial inv Location	olved a ter of group in	rain traj	p? □ no □ y n to start zoi	es→ty ne duri	pe: ng avaland	che: □hig	h □middle □lov	Number o w □ below □ al	of people the	at crossed wn Ava	start zon	ne before the	avalanche:	t descent
Subject		Name		Age	Gender			Address				Phone		Activity
1														
2														
3														
4														
5														
	transceive shovel probe pole	at Ac 1 2 3	rience etivity 4 5	l vn □ ediate□ ed □		one ome dvanced	Signs of Instabi Noted by Grou unknown none recent avalar shooting crac collapse or w	nches cks vhumphing	Injuries Sustained 1 2 3 4 5	none first aid doctor's o hospital s	care		5 asphyxi head tra spinal ii chest tra skeletal	ation uma njury numa
Damage	Number	r of Veh	icles Caugh	ıt:		Nur	nber of Structures	s Damaged:		Estim	ated \$ Lo	DSS:		
Accident	Summary	Incl	ude: events	leading	g to accide	nt, group	's familiarity with	h location, object	tives, route,	hazard ev	aluation,	, etc.		
Rescue S	ummary	Include	e: descriptio	n of in	itial search	n, report o	of accident, organ	ized rescue etc.						self rescue transceiver spot probe probe line rescue dog voice object digging

Attach additional pages as needed. Include: weather history, snow profiles, reports from other agencies, diagram of site, and any other supporting information.

Please send to: CAIC; 325 Broadway WS1; Boulder, CO 80305; caic@qwestoffic.net Voice:(303) 499-9650 Fax (303) 499-9618 www.colorado.gov/avalanche



American Avalanche Association Forest Service National Avalanche Center Avalanche Accident Report: Long Form



Please send to: Colorado Avalanche Information Center 325 Broadway WS1 Boulder, CO 80305

voice: (303) 499-9650, fax: (303) 499-9618 fax, email: caic@qwestoffice.net, web: www.colorado.gov/avalanche

	O	ccurrence Date:							
Report Au Na Ao	ime:			Affiliation					
Location: State: Geographic	County: Area (mountain	n range, mountain j	pass, drainage, or	Region: feature):	Forest:				
Site Name: Lat/Lon or Datum:	UTM:				Elevation: 🗆 a	above treeline	□ near tree	line	below treeline
Summai	y Caught	Partially Buried Not-critical	Partially Buried Critical	Buried Completely		Killed			Structures Damaged
Number	Number								
Weather	Fill in the weather	chart of the five days p	rior to the accident.	Use 24 hr average	es or trends for wind	d speed and dir	ection.		
Weather static	n(s): Location		Lat/Lon or	UTM:	Elevation	1:	m / ft		
Date								Day o	f Accident
Tmax									
Tmin									
HN24									
HN24W									
Wind Speed									
Wind Dir									
Avalanch	e Conditions	Attach most recent av	valanche advisory						
Closest Avala	nche Center:	Avalanche Danger R	ating Recent Ava	lanche Activity					
☐ accident our area	side of forecast	☐ Moderate ☐ Considerable ☐ High ☐ Extreme							
Avalanche wa	rning in effect? y	/es □ no							
Snowpack	Describe the sta	ate of the snowpack. In	clude season history,	, snow profiles, ar	d prominent featur	es as necessary			

Section I:	Group	Information
------------	-------	-------------

Fill in the following tables. Some of the fields can be checked yes or left blank. Attach additional pages and reports from other agencies as necessary.

Subject	Name	Age	Gender	Address	Phone
1					
2					
3					
4					
5					

		Years at	Rank skill level as novice,	intermediate, advanced, or expert.	VTline in	Avalanche Education		
Skill Level	Activity	Activity	Activity Skill Level	Accessed Local Avalanche Advisory	Years Traveling in Avalanche Terrain	Level		
1								
2								
3								
4								
5								

Rescue Equipment Carried	Transceiver Make and Model	Shovel	Probe Pole	Releasable Bindings	Other	Snowmobile: Rescue Equipment Carried on Person
1						
2						
3						
4						
5						

Injuries or Cause of Death	Unknown	None	First-Aid Necessary	Doctor's Care Needed	Hospital Stay Required	Asphyxia	Head Injury	Chest Injuries	Spinal Injury	Hypothermia	Skeletal Fracture	Other	Fatal
1													
2													
3													
4													
5													

Comments			

Section II: Aval	anche Patl	and Event	Information									
	_	ables. Some o s necessary.	f the fields can	be checked y	res or left blank	x. Attach addit	ional pages, frac	cture line				
Avalanche Char	racteristics											
Type: Sliding Surface (check Distance from trigger t			v/old interface □C	Old snow layer			□D1 □D2 □D3 □I stepped down into					
Comments:	<u> </u>			- 10								
Dimensions ☐ m ☐ ft	Average	Maximum	Measured	Snow	Hardness	Grain Type	Grain Size	Thickness				
Height of Crown Face				Slab								
Width				Weak Layer								
Vertical fall				Bed Surface								
Start Zone		Groun	nd Cover	Loc	eation of Crow	n Face	Snow N	/loisture				
Elevation:m / ft												
Rocky Cornice Average Slope Angle (°) :												
	□ Dense Forest □ Convex Roll											
	Maximum Slope Angle (°): ☐ Open Forest ☐ Concave Slope ☐ Wet ☐ Brush ☐ Rocks											
Aspect:	-		Grass Unknown		□ Unknown							
Vegetation:												
Track												
☐ Open Slope A	verage Slop	e Angle (°):				Snow Moistu	re					
☐ Confined A	spect:				$\Box D$	ry □Moi	st					
□ Gully												
Runout		Ground (☐ Smo		w Moisture	Debris Type (check all that apply)	α_{i} (°):						
			ky	☐ Dry ☐ Moist	☐ Fine ☐ Blocks	. α _e (°) :						
Elevation:		☐ Dens	eier se Forest	□ Wet	\square Hard		ity:l	rg/m ³				
Average Incline (°):	☐ Oper☐ Brus	n Forest		□ Soft□ Rocks	Terrain Trap	-					
Aspect:	-	\square Gras	SS		☐ Trees		Type:					
Vegetation:		□ Unkı	nown			-						
Comments												
Comments												

Г

	in the follorts as nec		available informat	ion. Attach additiona	al pages, stateme	nts, witness accounts, and other
Events Lea	ding Up	to the Avalanche	Include objectives o groups, location of p	f party, departure point, roparty at time of avalanche,	ute taken, familiarity	with area, and encounters with other
Location of grou Slope angle at ap				high middle low		nown
Avalanche	Danger l	Evaluation				
Number of sr	nowpit obs	servations :	Stabilit	y Tests Performed:	Test Res	ults
Signs of Insta				□ yes		
☐ none ☐ some crack		unknown shooting cracks		□ no □ unknown		
□ whumphin□ recent aval	g 🗆	hollow sounds	Locatio	on of observations:		
Comments						
Witnesses 1		Name		Addres	Phone	
2						
Accident D	iagram	On a separate page or on trees, the location of all p	a photograph, draw a party members before	diagram of the accident sc the avalanche, and the loca	ene. Include avalance tion of people, mach	the boundaries, prominent rock and/or ines and equipment after the avalanche.

Section III: Accident Description

Section	TX7.	Doggara
Section	IV:	Kescue

Fill in the following sections with available information. Attach additional pages, statements, witness accounts, and other reports as necessary.

Rescue	Chronol	ogy															
F	irst Report									F	Response						
Reporting	g Party:		1	Agency			ime atched	Time or	1 Scene	Me	thod of Travel	Numbe of Rescu			Equ	ipment	
Report M	ethod:																
Time Rep	oorted:																
Recover	y	For Body For Head	y Position use I Position use	e: Prone/Fac e: Up Hill, I	e Down, S	upine/Or	n Back, On S	Side, Sitting	Standing								
Subject	Caught	Partial	lly Buried n-critical			ried -			Depth to Fac					Body Position			ead ition
1																	
2																	
3																	
4	4																
5																	
Recovery Method			For	r a transc	eiver re	covery	, include	make an	d model	of tr	ansceiver used	by searcher.	If an ob	ject on th	e surfa	ace was t	ised as a
Subject	Subject Self Rescue Compani			ganized	Voice		Objec	t			Transceiver		Spot Probe	Probe Line	Reso	cue Dog	Digging
1																	
2																	
3																	
4																	
5																	
Rescue 1	Descript	ion I	List perting needed.	ent event	s that oc	curred	during th	ne rescue	. Includ	e ado	ditional pages o	of dispatch no	otes, state	ements, ar	nd age	ency repo	orts as

Fill ir	amage the follow	ing sections with	available infor	mation Attac	ch additional pages, statements	witness accounts	and other
	ts as neces				Puges, surement	, , , , , , , , , , , , , , , , , , , ,	, шти оттет
Vehicles in A	valanche	Fill in the table	below. Describe a	nd/or estimate the	e cost of the damage to each vehicle ca	aught in the avalanche	
	Туре		Partially Completely Damage				Replacement
			Buried	Buried			Cost
tructures D	amaged	Fill in the table below	v. Describe and/or	estimate the cost	of the damage to each structure affect	ted by the avalanche.	
Type		Construction Type	Damage			Destroyed	Replacemen Cost
Total Loss	Estimate the	e cost of the damage ca	used by the avalan	che. \$			
Rescue Cost	Estimate th	ne cost of rescue. \$					
Economic E	Proot a Lis	et economic effects not	included in the abo	ove tables (road o	closed, ski area closed, mine closed, cl	nange in nolicy etc.)	
ECOHOHHC E	nects	e conomic crices not	meradea in the des	ove tables (road c	stosed, ski dred etosed, filme etosed, et	unge in poney, etc.)	
Additional (Comments	s and Recomme	ndations				
		, uu 11000111110					