

Promoting avalanche safety throughout Colorado since 1973.









The mission of the CAIC is to provide avalanche information, education, and promote research for the protection of life, property, and the enhancement of the state's economy.



The mission of the Friends of CAIC is to support avalanche forecasting and education throughout Colorado.



LETTER FROM FRIENDS OF CAIC

Dear Friends,

It is an honor and incredibly humbling to write my 15th annual letter on behalf of the Friends of CAIC. Fifteen years ago, our goal was to help keep the lights on at the Colorado Avalanche Information Center (CAIC). Since then, we have invested over \$2.5M into avalanche safety in Colorado, including \$430,656 this past season. This money has supported CAIC's forecasting operations, developed avalanche safety videos and signage, created outreach for new and existing users, built new web and mobile applications, and helped finance the Know Before You Go avalanche awareness program.

The 2021/2022 season was another year of growth for our organization. As you explore this annual report, you will learn more about our investments, partners, and programs. None of this would have been possible without your shared support of avalanche safety.

As we continue to grow, we will also continue to evolve. We have three specific goals over the next two years. First, we will continue our work toward increasing our direct support to CAIC's forecasting operations. By increasing our contribution, the CAIC will be able to maximize its staffing model, build a robust observer program, and develop new ways for people to engage with the avalanche forecast products.

Through this growth, users of the CAIC's public safety products can expect to see more accurate forecasts for the specific terrain they are traveling in. Second, we will expand and enhance our educational programming, including our Trailhead Outreach Program, avalanche awareness program, and signage program. Third, we will continue to build a reserve fund to support our mission and operations should the Friends of CAIC, or the CAIC, fall on hard financial times. Through your continued support, we can accomplish all three of these goals.

We have accomplished so much over the last fifteen years. I am incredibly thankful for everyone who continues to support our work, and am looking forward to expanding our impact in the years ahead.

Sincerely,

Aaron Carlson

Executive Director

Friends of CAIC



LETTER FROM CAIC

The Colorado Avalanche Information Center (CAIC) is a program of the Colorado Department of Natural Resources (DNR). It is a partnership between the DNR, the Colorado Department of Transportation (CDOT), and the Friends of the CAIC (FoCAIC), a 501c3 group. The mission of the Center is to provide avalanche information, education, and promote research for the protection of life, property and the enhancement of the state's economy. This effort began as the Colorado Avalanche Warning Program in 1973 within the United States Forest Service and moved into the State of Colorado in 1983.

The 2021-2022 avalanche year felt like several years packed into one. Snowfall in October followed by a dry fall created a thin and very weak snowpack. This was a tough time to do winter recreation. In many areas it was easier to walk through the snow than to ride on top of it. These conditions lasted well into December, but shortly before the holidays it started snowing again, and once it started it just would not stop. Heavy snow continued into the second week of January and we had the longest string of High avalanche danger and Avalanche Warnings on record. As the dust settled we went into another extended dry period, but this time with a thick and stable snowpack. The forecast map went from red to green and you could travel in places you typically would not think of going in the middle of the winter. Near the end of February someone turned the snow machine back on and we went into another active period that lasted into the end of April.

In the middle of each stretch it was hard to look back and see how we got from the last one to where we were today. Each period was interesting and had its own challenges, but they all felt disconnected.

As the population of our state and the popularity of winter recreation increase, so does the demand for avalanche safety. This underlying and increasing demand amplifies the challenges we face as the avalanche conditions ebb and flow through the winter. By some metrics the 2021-2022 avalanche season was a normal year. We documented 3,283 avalanches, which is not an unusual number. However, there were nearly 900 human-triggered avalanches, 110 reports of people involved in avalanches, and seven people killed. The first report of a person caught in an avalanche was October 1, 2021 and the last fatal accident was June 30, 2022. There can be avalanches in Colorado during any month of the year, but the active part of this year felt very long.

Sham Grane

Sincerely,

Ethan Greene

Director

Colorado Avalanche Information Center



AVALANCHES & ACCIDENTS by the numbers

The CAIC recorded data on more than 3,283 avalanches between October 1, 2021 and June 30, 2022

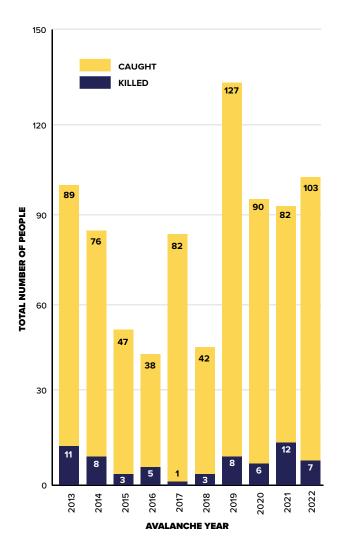
There were 103 people reported caught in avalanches. Of those caught, 7 were killed.

The CAIC published 1,420 forecasts throughout the season – each one of these requires staff time to research, discuss, write, and publish.

AVALANCHES BY FORECAST ZONE

STEAMBOAT TOTAL 21/22 AVALANCHES: 4,848 **{40**} Forecast Zone: Steamboat **Recorded Avalanches: 57** Forecast Zone: Vail & Summit County **Recorded Avalanches: 734** Forecast Zone: Grand Mesa VAIL Recorded Avalanches: 58 **DENVER** 285 BRECKENRIDGE ASPEN (Forecast Zone: Aspen Forecast Zone: Front Range Recorded Avalanches: 675 **Recorded Avalanches: 576 GRAND JUNCTION** Forecast Zone: Sawatch **Recorded Avalanches: 366** Forecast Zone: Gunnison Recorded Avalanches: 1,244 50 Forecast Zone: Northern San Juan **Recorded Avalanches: 682** 285 **TELLURIDE** Forecast Zone: Sangre de Cristo Forecast Zone: Southern San Juan Recorded Avalanches: 11 Recorded Avalanches: 434 DURANGO

PEOPLE CAUGHT & KILLED





GETTING THE MESSAGE OUT website, app & social media



WEBSITE





MOBILE APP







SOCIAL MEDIA

140K
CAIC/Friends of CAIC
Meta Followers (FB/IG)

23.5K
Monthly Dump Subscribers

50%-60% Email Open Rate

2,405
Online Media Mentions



TRADITIONAL MEDIA







GETTING THE MESSAGE OUT Circle of Friends

The 2021-2022 Circle of Friends team lent their voices and influence to support avalanche safety and education in Colorado. Spread out across the state, these individuals helped magnify important messaging during the winter. Hilaree Nelson was tragically killed in Nepal while skiing Manaslu in fall 2021. We are forever grateful for her work on avalanche safety and education.



Ann Driggers Ski Ambassador



Carly Finke
Snowboard Ambassador



Chris Davenport Ski Ambassador



Cody Cirillo Ski Ambassador



Gregory Hope Ski Ambassador



Hilaree Nelson Ski Ambassador



Jason Killgore Ski Ambassador



Jill Seager Ski Ambassador



Kim Onasch Snowmobile Ambassador



Lani Bruntz Ski Ambassador



Liam Doran Ski Ambassador



Matt Entz Snowmobile Ambassador



TJ David Ski Ambassador

Circle of Friends Ambassador Followers by Zone:

Total	246.588
South San Juan	32,800
Gunnison	3,903
North San Juan	76,203
Vail/Summit	1,7382
Aspen	116,300



EXPANDING PROGRAMS Trailhead Outreach

Trailhead Outreach Program (TOP) Coordinator Sam Gifford made
79 trailhead visits and spoke to over 2,300 people last winter at
trailheads across the state. Partially due to this success, Friends of CAIC
secured funding from the National Forest Foundation's Ski Conservation
Fund for an additional coordinator to be focused on the Dillon Ranger
District during the 2022/2023 season.







"The aim of the program is to "make checking the avalanche forecast TOP of mind" for backcountry users of all types and levels across Colorado."

- Sam Gifford Trailhead Outreach Program (TOP) Coordinator





We are the Colorado Mountain School (CMS) founded in Estes Park, Colorado over 40 years ago. Since then we've built a reputation on tens of thousands of days skiing, climbing, mountaineering, and teaching in our backyard—the spectacular Colorado Rockies—and across the globe in other world-class mountain ranges. Our team is highly trained and



curates internationally respected courses and trips. CMS is Colorado's largest mountain guide company, an accredited guide service of the American Mountain Guides Association.

As we all have experience, the popularity of backcountry travel has exploded over the years and as a result, CMS has become the #1 busiest avalanche education programs in the country through the American Institute for Avalanche Research and Education (AIARE). Because of that, we understand that it is our responsibility to provide decision making tools, information and resources available to our students as well as the greater backcountry community. One of the most valuable and important resources that we can provide them is that of the Colorado Avalanche Information Center (CAIC).

For several years now, we have partnered with the Friends of CAIC to ensure our students get the tools they need to make good decisions in the backcountry and are well aware of the efforts and information provided by the CAIC. Having access to the Avalanche forecast is an integral part of staying safe in the backcountry and we at CMS highly value everything that FoCAIC and the CAIC do. We look forward to another year of partnership where we can work together to ensure Colorado's backcountry travelers have the tools, resources and education they need to stay safe in the backcountry this season!

Ignite Your Passion!

Avalanche Safety Education & Safety Team // Colorado Mountain School





2021/2022 STAFF & BOARD

CAIC STAFF

Ethan Greene Director

Brian Lazar Deputy Director/ Lead Forecaster

Mike Cooperstein Lead Forecaster

Rebecca Hodgetts
Lead Forecaster

Spencer Logan Lead Avalanche Scientist

Austin Divesta Avalanche Forecaster

Ann Mellick Avalanche Forecaster

Ben Pritchett Weather and Avalanche Forecaster

Brandon Levy Avalanche Forecaster

Chris Bilbrey Avalanche Forecaster Colin Mitchell Avalanche Forecaster

Dylan Craaybeek Avalanche Forecaster

lan Fowler Weather and Avalanche Forecaster

Jacob Barney
Development Manager

Jason Konigsberg Weather and Avalanche Forecaster

Jeff Davis Avalanche Forecaster

Jeremy Primmer Avalanche Forecaster

Jeremy Yanko Avalanche Forecaster

John Snook Numerical Prediction Specialist

Matt Huber Avalanche Forecaster Naomi Hodges Program Assistant

Ron Simenhois Avalanche Forecaster and Data Scientist

Ryan Becwar Information and Technology Coordinator

Ryan Zarter Avalanche Forecaster

Will Barrett
Avalanche Forecaster

FRIENDS OF CAIC STAFF

Aaron Carlson
Executive Director

Brian Rodine Marketing and Events Director, Trailhead Program Manager

Kia Soden Membership and Development Coordinator

Katie Thibideau Development Officer

Sam Gifford Trailhead Outreach Program Coordinator FRIENDS OF CAIC BOARD OF DIRECTORS

Markian Feduschak Board Chair

Brent Brown Board Vice Chair

Bill Mueller Board Treasurer

Heidi Ruckriegle Board Secretary

Rusty Perry Board Member

Jonathan Lantz Board Member

David Clark Board Member

Samantha Killgore Board Member

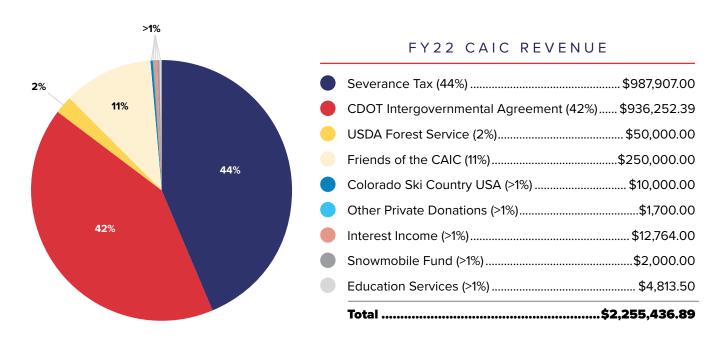
Ethan Greene Non-Voting CAIC Liaison

Aaron Carlson Ex-Officio



10

FINANCIAL BREAKDOWN CAIC



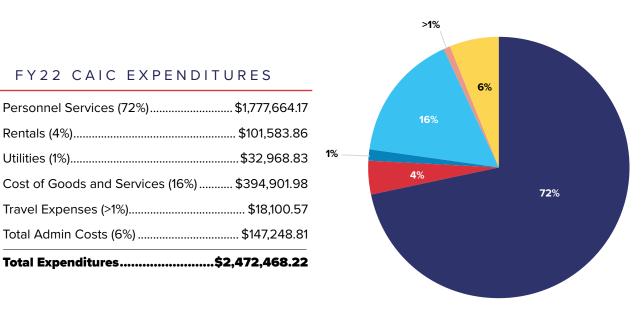
FY22 CAIC EXPENDITURES Personnel Services (72%).....\$1,777,664.17

Rentals (4%)......\$101,583.86 Utilities (1%).....\$32,968.83

Cost of Goods and Services (16%) \$394,901.98

Travel Expenses (>1%)......\$18,100.57

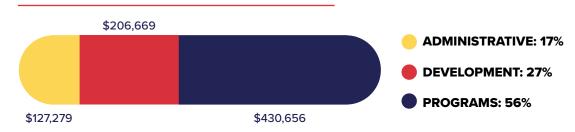
Total Expenditures.....\$2,472,468.22



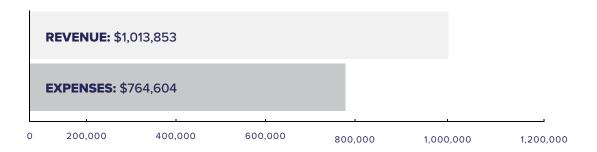


FINANCIAL BREAKDOWN Friends of CAIC

EXPENSE BREAKDOWN BY CLASS



REVENUE & EXPENSES



COST BREAKDOWN

The Friends of CAIC invested **\$430,656** into avalanche forecasting and education in Colorado during the 2021/2022 season.



FORECASTING & OPERATIONS \$267,075





EDUCATION & AWARENESS \$60,734



PROGRAM MANAGEMENT \$65,653







CAIC

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Colorado Avalanche Information Center



colorado.gov/avalanche

