

The **HIMALAYAN DATABASE**



The Expedition Archives of Elizabeth Hawley

**Program Guide for
Windows**

Himal 2.2

Appendix H: Analyses

Richard Salisbury



The Himalayan Database

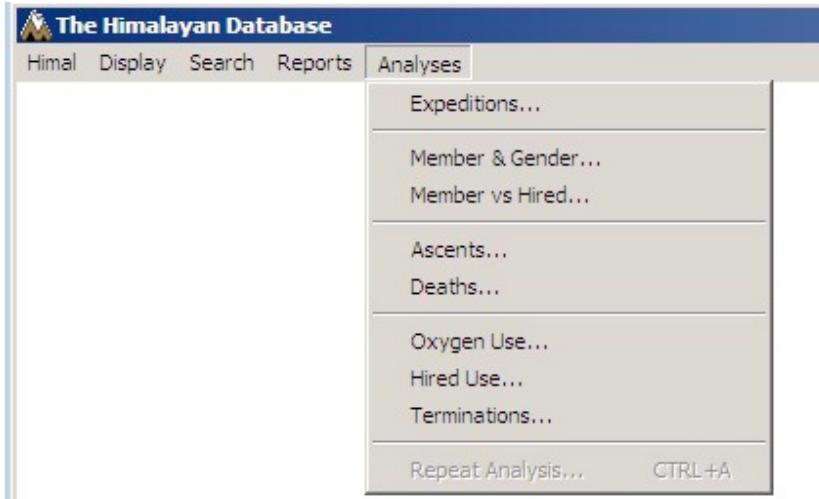
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Appendix H: Analyses

The commands in the **Analyses** menu provide aggregate information on the expeditions and members in the database (whereas the commands in the Reports menu provide information mostly on individual expeditions and members).



Analyses can be performed on expeditions, members, ascents, deaths, oxygen use, hired use, or combinations thereof.

For each type of analysis, the data can be analyzed in a multitude of ways:

- (1) by groups of peaks within altitude ranges
- (2) by expeditions with a range of years or seasons
- (3) by gender, age, and citizenship
- (4) by members or hired personnel only, or both

The analysis output can be either printed or exported as an Excel spreadsheet. Often the Excel exports contain more data fields than the printed output due to the space constrictions of the printed page.

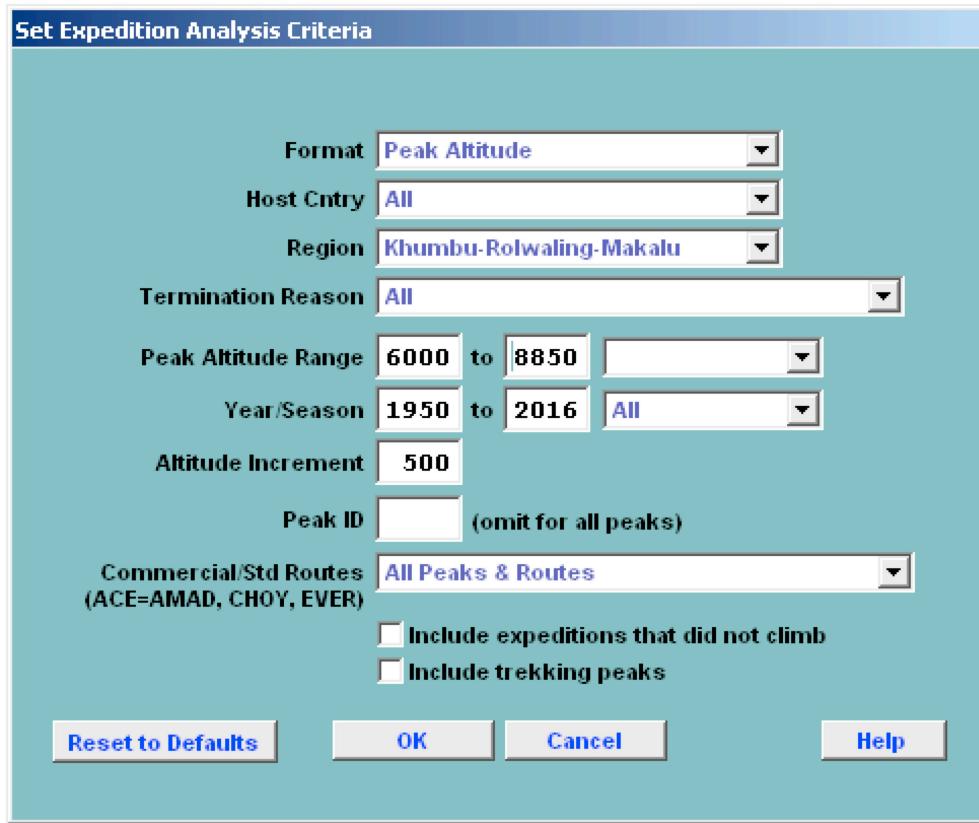
The most recent analysis can be repeated by selecting Repeat Analysis from the Analyses menu. The previous analysis dialog box will appear with the last set of selected options, which can then be modified. This can be very useful when running a series of analyses where only one or two options are to be varied.

Expedition Analysis

The expedition analysis analyzes climbing by teams, members (total members and members above base camp), and hired personnel above base camp. Success and death rates are given for each category, and expedition duration (average number of days for all expeditions, average number of days for successful

expeditions, and average number of days to first summit) is given in the printed report and the Excel export.

In the Analysis Criteria dialog box, select the criteria that you want:



The criteria options for the Expedition analysis are:

Format – emphasis and format of output

Peak Altitude

Expedition Year

Season

Host Cntry

All

Nepal

China

India

Region – geographical peak region

All

Kangchenjunga-Janak

Khumbu-Rolwaling-Makalu

Langtang-Jugal

Manaslu-Ganesh

Annapurna-Damodar-Peri

Dhaulagiri-Mukut

Kanjiroba-Far West

Combinations

Termination Reason

- All
- Success (Main Peak)
- Success (Subpeak)
- Success (Claimed)
- Bad Weather (Storms, High Winds)
- Bad Conditions (Deep Snow, Avalanches)
- Accident (Death or Serious Injury)
- Illness, AMS, Exhaustion, or Frostbite
- Lack of Supplies or Equipment
- Lack of Time
- Route Too Difficult, Lack of Strength
- Did not reach BC
- Did not attempt Climb
- Attempt rumored
- Other
- Combinations

Peak Altitude Range

- All Peaks
- 6000ers
- 7000ers
- 8000ers

mmmm to nnnn meter peaks

Year/Season – expedition year/season range

Altitude/Year Increment

When the Peak Altitude format is chosen, an altitude step increment may be selected (the default is 500m). When the Expedition Year format is chosen, a year step increment may be selected (the default is 5 years). There is no increment available for Season.

Peak ID

Commercial/Std Routes

- All Peaks & Routes
- Exclude ACE Commercial Routes
- Include only ACE Commercial Routes
- Exclude ACE Non-Commercial Routes
- Include only ACE Non-Commercial Routes
- Exclude ACE Peaks (All Routes)
- Include only ACE Peaks (All Routes)
- Exclude 8000m Standard Routes
- Include only 8000m Standard Routes

The ACE peaks are:

- Ama Dablam
- Cho Oyu
- Everest

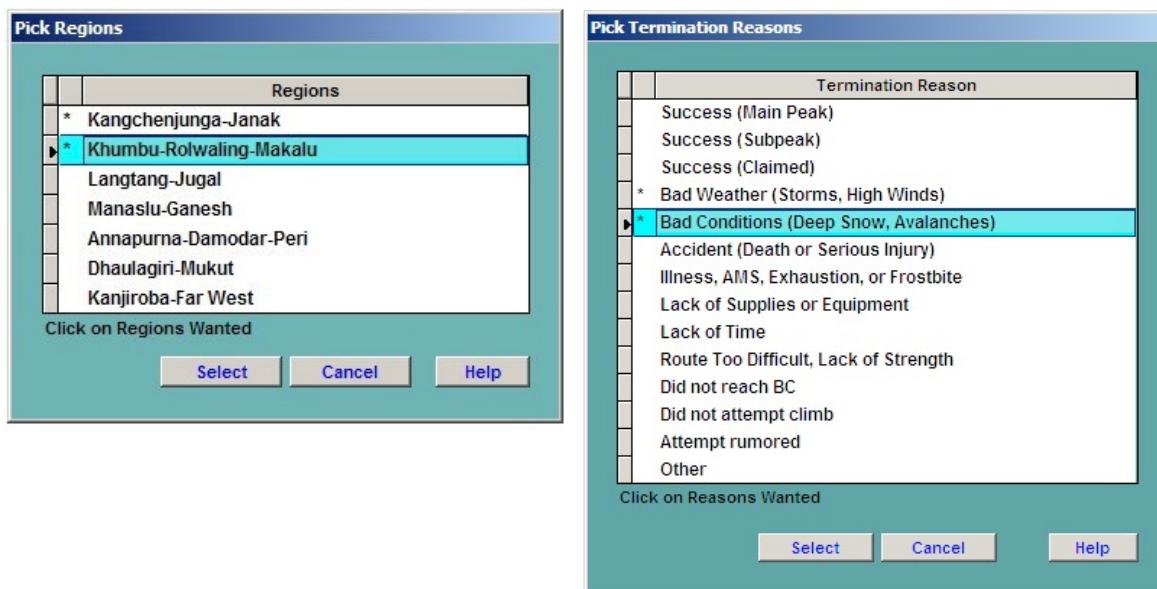
The ACE commercial routes are:

- AMAD - SW Ridge
- CHOY - NW side
- EVER - S Col-SE Ridge, N Col-NE Ridge

The 8000m standard routes are:

KANG - SW Face
MAKA - Makalu La-NW Ridge
LHOT - W Face
EVER - S Col-SE Ridge, N Col-NE Ridge
CHOY - NW side
MANA - NE Face
ANN1 - N Face
DHA1 - NE Ridge

Combinations (multiple selections) can be made for the Region and Termination Reason criteria. Clicking on the Combinations choice will bring up a Pick dialog, from which you can select multiple items. In two examples below, Kangchenjunga and Khumbu, and Bad Weather and Bad Conditions are selected.



The following pages show the printed results from the analysis. You may adjust the size of the preview screen on your monitor by using the standard resize boxes on the report window or the Zoom button in the Print Preview box at the top of the report. The navigation buttons in the Print Preview box allow you to page through a multipage report.

When you are finished looking at the preview, close the preview screen by clicking the close box in the upper right corner of the report window.

From the Select Output Option box, you can then print the analysis output, preview again, or create an Excel spreadsheet file:



Report Designer - analexp.frx - Page 1

Expedition Analysis
by Peak Altitude for All Peaks (6000-8850m) (1950-2016) (Khumbu-Rolwaling-Makalu)

Expeditions		Members						Hired						Average Nbr Days			
Total <u>Cnt</u>	Success <u>Cnt</u>	Total <u>Cnt</u>	Avg BC <u>Cnt</u>	Death <u>Cnt</u>	Death <u>Rate</u>	Avg BC <u>Cnt</u>	Death <u>Cnt</u>	Death <u>Rate</u>	Hired <u>Cnt</u>	Smt <u>Cnt</u>	Smt <u>Rate</u>	Death <u>Cnt</u>	Death <u>Rate</u>	All Exp <u>Days</u>	Sur <u>Days</u>	Exp <u>Days</u>	Smt <u>Days</u>
6000-6499m	132	73	5530	526	4.36	42.66	4	0.91	73	28	38.35	0	0.00	15.24	16.68	11.76	
6500-6999m	1362	877	6439	6930	6588	3206	48.66	24	0.36	1890	900	47.61	7	0.37	13.52	13.82	10.37
7000-7499m	606	255	42.08	3.677	3364	930	27.64	42	1.24	913	258	28.25	17	1.86	15.02	17.12	13.42
7500-7999m	136	42	30.88	736	673	113	16.79	18	2.67	259	28	10.81	3	1.15	27.80	33.09	26.69
8000-8499m	1636	957	58.50	9292	8775	2994	34.12	78	0.38	3121	1174	37.61	25	0.80	27.54	27.57	22.76
8500-8850m	2188	1283	58.64	15062	15085	4432	33.87	180	1.37	11357	3762	33.12	109	0.96	41.07	42.87	37.78
Totals	6060	3487	57.54	36223	32921	11861	36.02	346	1.05	17613	6150	34.91	161	0.91	28.02	29.19	24.69

Ascent totals exclude multiple seasonal ascents

Termination Summary

Cnt	Reason
3482	Success (Main Peak)
33	Success (Subpeak)
16	Success (Claimed)
787	Bad Weather (Storms, High Winds)
563	Bad Conditions (Deep Snow, Avalanches)
138	Accident (Death or Serious Injury)
318	Illness, AMS, Exhaustion, or Frostbite
141	Lack of Supplies or Equipment
50	Lack of Time
217	Route Too Difficult, Lack of Strength
0	Did not reach BC
0	Did not attempt climb
0	Attempt turned off
257	Other

50/06/2017 Expedition Analysis (The Himalayan Database)

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Expedition Analysis Output – By Peak Altitudes

The above example analyzes all expeditions in the Khumbu-Rolwaling-Makalu region from 1950 through 2016 for all peaks from 6000m to 8850m by peak altitude in 500m increments.

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Expedition Analysis
by Expedition Years for CHOY (\$188m) (1950-2014)

Success (Main Peak)

Expeditions		Success		Total		Avg BC		Death		Avg BC		Death		Hired		Average Nbr Days		
<u>Total</u>	<u>Cnt</u>	<u>Success</u>	<u>Cnt</u>	<u>Total</u>	<u>Cnt</u>	<u>Smt</u>	<u>Cnt</u>	<u>Rate</u>	<u>Cnt</u>	<u>Rate</u>	<u>Cnt</u>	<u>Rate</u>	<u>Smt</u>	<u>Cnt</u>	<u>Rate</u>	<u>All Exp</u>	<u>Suc Exp</u>	<u>Smt Days</u>
1950-1954	1	1	100.00	3	3	2	66.66	0	0.00	7	1	14.28	0	0.00	27.00	27.00	22.00	
1955-1959	1	1	100.00	8	6	1	16.66	1	16.66	7	1	14.28	0	0.00	28.00	28.00	26.00	
1960-1964	0	0	0.00	0	0	0	0.00	0	0.00	0	0	0.00	0	0.00	0.00	0.00	0.00	
1965-1969	0	0	0.00	0	0	0	0.00	0	0.00	0	0	0.00	0	0.00	0.00	0.00	0.00	
1970-1974	0	0	0.00	0	0	0	0.00	0	0.00	0	0	0.00	0	0.00	0.00	0.00	0.00	
1975-1979	1	1	100.00	5	5	2	40.00	0	0.00	0	0	0.00	0	0.00	18.00	18.00	14.00	
1980-1984	5	5	100.00	25	24	15	62.50	0	0.00	14	4	28.57	0	0.00	37.80	37.80	34.20	
1985-1989	35	100.00	259	253	122	48.22	2	0.79	57	13	22.80	0	0.00	24.40	24.40	19.22		
1990-1994	74	74	100.00	635	605	260	42.97	5	0.82	41	35.34	1	0.86	24.29	24.29	19.20		
1995-1999	137	137	100.00	1166	1117	500	44.76	6	0.53	235	113	48.08	0	0.00	26.36	26.36	20.46	
2000-2004	196	196	100.00	1174	1119	566	50.58	7	0.62	387	252	65.11	0	0.00	26.84	26.84	21.69	
2005-2009	236	235	99.58	1276	1218	746	61.24	5	0.41	464	360	77.58	0	0.00	25.74	25.74	21.18	
2010-2014	98	98	100.00	495	473	297	62.79	0	0.00	245	174	71.02	0	0.00	24.35	24.35	21.10	
Totals	784	783	99.87	5046	4823	2511	52.06	26	0.53	1532	939	62.59	1	0.06	25.83	25.83	20.98	

A ascent totals exclude multiple seasonal ascents

Termination Summary

<u>Cnt</u>	<u>Reason</u>
784	Success (Main Peak)
0	Success (Subpeak)
0	Success (Claimed)
0	Bad Weather (Storms, High Winds)
0	Bad Conditions (Deep Snow, Avalanches)
0	Accident (Death or Serious Injury)
0	Illness, AMS, Exhaustion, or Frostbite
0	Lack of Supplies or Equipment
0	Lack of Time
0	Route Too Difficult, Lack of Strength
0	Did not reach BC
0	Did not attempt climb
0	Attempt ruined
0	Other

30/06/2017 Expedition Analysis (The Himalayan Database)

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Expedition Analysis Output – By Expedition Years

The above example analyzes all expeditions to Cho Oyu from 1950 through 2014 in 5-year increments.

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Expedition Analysis

by Seasons for EVER (\$850m) (1990-2016)

	Expeditions				Members				Hired				Average Nr. Days					
	Total Cnt	Success Cnt	Success Rate	Total Cnt	Avg BC Cnt	Death Cnt	Death Rate	Avg BC Cnt	Hired Cnt	Smt Cnt	Smt Rate	Death Cnt	Death Rate	All Exp Days	Smt Days	All Exp Days	Smt Days	
Spring	1504	996	66.22	9367	7993	3672	45.94	7526	3458	4594	53	0.70	4076	4337	3824			
Summer	10	0	0.00	54	51	0	0.00	0	17	0	0.00	0	0.00	4857	0.00	0.00		
Autumn	139	34	24.46	1114	982	106	10.79	9	0.91	623	65	1043	9	1.44	3988	4135	3691	
Winter		7	1	14.29	65	55	6	10.90	0	0.00	83	0	0.00	1	1.20	4685	4400	3500
Totals	1660	1031	62.10	10690	9081	3784	41.66	111	1.22	8249	3523	42.70	63	0.76	4075	4330	3820	

Ascent totals exclude multiple seasonal ascents

Termination Summary

Cnt	Reason
1029	Success (Main Peak)
1	Success (Subpeak)
2	Success (Claimed)
208	Bad Weather (Storms, High Winds)
59	Bad Conditions (Deep Snow, Avalanches)
31	Accident (Death or Serious Injury)
101	Illness, AMS, Exhaustion, or Frostbite
40	Lack of Supplies or Equipment
7	Lack of Time
32	Route Too Difficult, Lack of Strength
0	Did not reach BC
0	Did not attempt climb
0	Attempt run cred
145	Other

Expedition Analysis Output – By Seasons

The above example analyzes all expeditions to Everest from 1990 through 2016 by season.

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Expedition Analysis

by Expedition Years for EVER (8850m) (2007-2016)

Success (Main Peak)

Expeditions Cnt	Success Rate	Total Cnt	Avg BC Cnt	Members				Hired				Average Nbr Days All Exp Suc Days			
				Total Cnt	Avg BC Cnt	Death Cnt	Death Rate	Avg BC Cnt	Hired Cnt	Smt Cnt	Death Cnt	All Exp Days	Suc Days	Smt Days	
2007	73	100.00	527	488	314	64.34	4	0.82	455	297	65.27	0	0.00	40.05	33.56
2008	49	100.00	365	353	231	65.43	1	0.28	279	195	69.89	0	0.00	43.35	39.33
2009	55	100.00	370	340	230	67.64	2	0.58	347	229	65.99	1	0.28	40.00	34.72
2010	70	100.00	427	390	256	65.64	3	0.76	418	272	65.07	0	0.00	42.07	36.83
2011	65	100.00	383	360	250	69.44	2	0.55	414	275	66.42	0	0.00	37.69	32.17
2012	69	100.00	435	420	276	65.71	7	1.66	428	276	64.48	2	0.46	42.82	37.01
2013	70	100.00	458	440	306	69.54	3	0.68	532	349	65.60	4	0.75	37.64	33.64
2014	11	100.00	78	71	54	76.05	0	0.00	95	74	77.89	0	0.00	41.90	37.40
2015	0	0.00	0	0	0	0.00	0	0.00	0	0	0.00	0	0.00	0.00	0.00
2016	71	100.00	436	417	311	74.58	5	1.19	448	352	78.57	0	0.00	36.01	31.75
Totals	533	100.00	3479	3279	2228	67.94	27	0.82	3416	2319	67.88	7	0.20	39.91	34.79

Ascent totals exclude multiple seasonal ascents

Termination Summary

Cnt	Reason
533	Success (Main Peak)
0	Success (Subpeak)
0	Bad Weather (Storms, High Winds)
0	Bad Conditions (Deep Snow, Avalanches)
0	Accident (Death or Serious Injury)
0	Illness, AMS, Exhaustion, or Frostbite
0	Lack of Supplies or Equipment
0	Lack of Time
0	Route Too Difficult, Lack of Strength
0	Did not reach BC
0	Did not attempt climb
0	Attempt rumors
0	Other

30/06/2017 Expedition Analysis (The Himalayan Database)

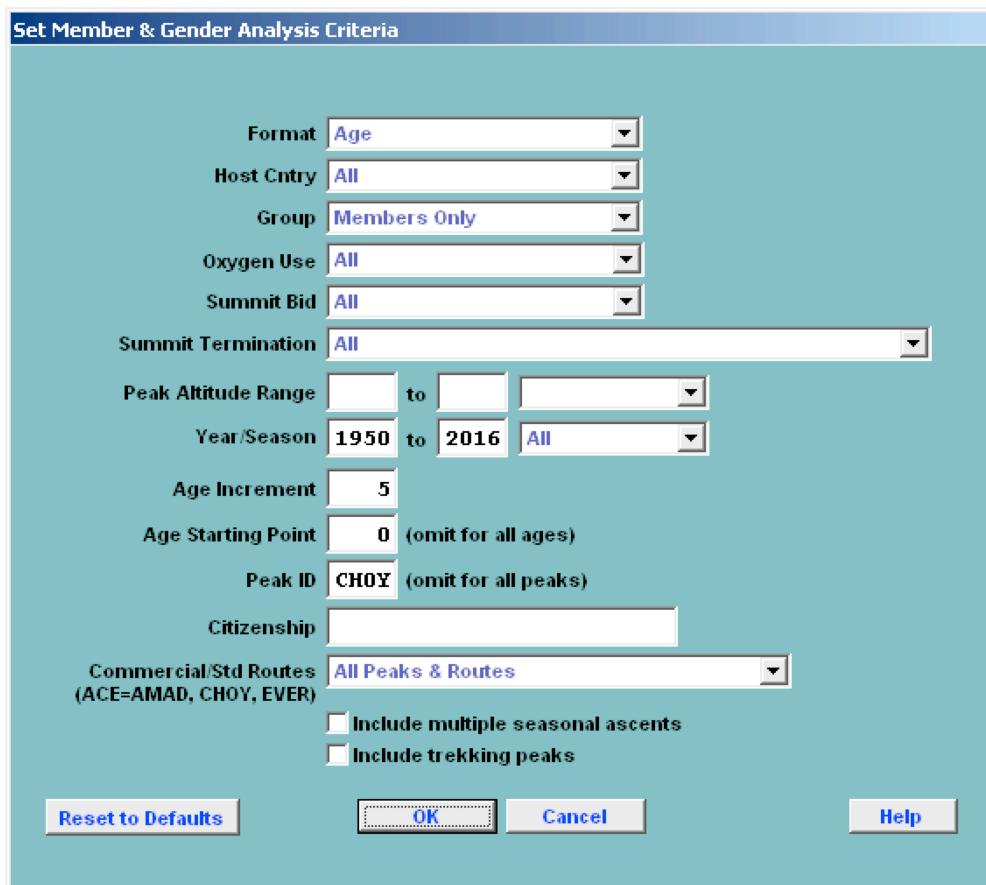
Expedition Analysis Output – Successful Expeditions

The above example analyzes all successful expeditions to Everest from 2007 through 2016 (ten years) in 1-year increments.

Member & Gender Analysis

The member and gender analysis analyzes climbing by members above base camp. Success and death rates broken out by gender are given in the printed report and the Excel export.

In the Analysis Criteria dialog box, select the criteria that you want:



The criteria options for the Member & Gender analysis are:

Format – emphasis and format of output

Peak Altitude

Expedition Year

Season

Age

Citizenship

Host Cntry

All

Nepal

China

India

Group

Members Only

Hired Only

Members & Hired

Oxygen Use

All

Oxygen Used

No Oxygen Used

Summit Bid

All

No summit bid

Aborted below high camp

Aborted at high camp

Aborted above high camp

Successful bid

Combinations

Summit Termination

All

Success

Success (Subpeak)

Bad Weather (Storms, High Winds)

Bad Conditions (Deep Snow, Avalanches, Falling Rock/Ice)

Accident (Death or Injury to Self or Others)

Altitude (AMS Symptoms, Breathing or Unwell)

Exhaustion, Fatigue, Weakness or Lack of Motivation

Frostbite, Snowblindness or Coldness

Other Illnesses or Pains

Lack of Supplies/Support or Equipment Problems

O2 System Failure

Route Difficulty, Intimidation or Insufficient Ability

Too Late in Day or Too Slow

Assisting, Guiding, Supporting or Accompanying Others

Route/Camp Preparation or Fixing Rope

Insufficient Time Left for Expedition

Did Not Climb or Intend to Smt

Other

Unknown

Combinations

Peak Altitude Range

All Peaks

6000ers

7000ers

8000ers

mmmm to nnnn meter peaks

Year/Season – expedition year/season range

Altitude/Year/Age Increment & Age Starting Point

When the Peak Altitude format is chosen, an altitude step increment may be selected (the default is 500m). When the Expedition Year format is chosen, a year step increment may be selected (the default is 5 years). When the Age format is chosen, an age step increment and starting point may be selected (the default is 5 years). There are no increments available for the Season and Citizenship formats.

Order & Minimum Above BC

When the Citizenship format is chosen, the output order may be sorted by one of the orders below (the default is Country Name).

- Country Name
- Members Above BC
- Ascents
- Ascent Rate
- Deaths
- Death Rate

The output may be limited to nations with “n” members above BC.

Peak ID

Commercial/Std Routes (see “*Expedition Analysis*” above)

Combinations (multiple selections) can be made for the Summit Bid and Summit Termination criteria. Clicking on the Combinations choice will bring up a Pick dialog, from which you can select multiple items.

Member & Gender Analysis by Age for CHOY (8188m) (1950-2016)									
Members Only									
Members Above BC									
	Total	Male	Female	Total	Cnt	Total	Male	Female	Total
	Cnt	Cnt	Cnt	Cnt	Cnt	Cnt	Cnt	Cnt	Cnt
Unknown	158	147	11	79	50.00	74	50.34	5	45.45
10-14 yrs	3	2	1	0	0.00	0	0.00	0	0.00
15-19 yrs	20	16	4	7	35.00	6	37.50	1	25.00
20-24 yrs	256	221	35	106	41.40	88	39.81	18	51.42
25-29 yrs	805	693	112	328	40.74	278	40.11	50	44.64
30-34 yrs	1182	1050	132	475	40.18	418	39.81	57	43.18
35-39 yrs	1284	1140	144	547	42.60	489	42.59	58	40.27
40-44 yrs	1064	947	117	416	39.09	378	39.91	38	32.47
45-49 yrs	830	732	98	309	37.22	276	37.70	33	33.67
50-54 yrs	621	571	50	179	28.82	165	28.89	14	28.00
55-59 yrs	336	311	25	97	28.86	88	28.29	9	36.00
60-64 yrs	173	157	16	60	34.68	50	31.84	10	62.50
65-69 yrs	44	39	5	16	36.36	14	35.89	2	40.00
70-74 yrs	21	20	1	6	28.57	5	25.00	1	100.00
Totals	6797	6046	751	2625	38.62	2329	38.52	296	39.41
Ascents									
	Total	Cnt	Cnt	Total	Cnt	Total	Cnt	Cnt	Total
	Cnt	Cnt	Cnt	Cnt	Cnt	Cnt	Cnt	Cnt	Cnt
Deaths	Male	Cnt	Rate	Male	Cnt	Rate	Male	Cnt	Rate

Member Above BC totals include unknown members

Ascent totals exclude multiple seasonal ascents

Death totals include only those who went above BC

Summit Bid Termination Summary			
Cnt	Type	Cnt	Reason
1577	No summit bid	2626	Success
242	Aborted below high camp	0	Success (Subpeak)
440	Aborted at high camp	827	Bad Weather (Storms, High Winds)
797	Aborted above high camp	246	Bad Conditions (Deep Snow, Avalanches, Falling Rock/Ice)
2626	Successful bid	42	Accident (Death or Injury to Self or Others)
1115	Unspecified	288	Altitude (AMS Symptoms, Breathing or Urinwell)
Average Age Summary	All	443	Exhaustion, Fatigue, Weakness or Lack of Motivation
39.69	All	188	Frostbite, Snowblindness or Coldness
39.86	Men	283	Other Illnesses or Pains
38.29	Women	54	Lack of Supplies/Support or Equipment Problems

30.06.2017 Member & Gender Analysis (The Himalayan Database)

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Member & Gender Analysis Output – By Age for Cho Oyu

The above example analyzes members by gender for Cho Oyu from 1950 through 2016 by age in 5-year increments.

Report Designer - analgendifr.frx - Page 1

Member & Gender Analysis by Age for CHOY (8188m) (1950-2016) Members Only

Members Above BC						Ascents						Deaths					
	Total	Male	Female	Cnt	Rate	Cnt	Male	Female	Cnt	Total	Cnt	Male	Cnt	Female	Cnt	Rate	
Unknown	158	147	11	79	50.00	74	50.34	5	45.45	1	0.63	0	0.00	1	9.09		
10-14 yrs	3	2	1	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00		
15-19 yrs	20	16	4	7	35.00	6	37.50	1	25.00	0	0.00	0	0.00	0	0.00		
20-24 yrs	256	221	35	106	41.40	88	39.81	18	51.42	2	0.78	2	0.90	0	0.00		
25-29 yrs	805	693	112	328	40.74	278	40.11	50	44.64	4	0.49	3	0.43	1	0.89		
30-34 yrs	1182	1050	132	475	40.18	418	39.81	57	43.18	4	0.53	4	0.58	0	0.00		
35-39 yrs	1284	1140	144	547	42.60	489	42.59	58	40.27	10	0.77	10	0.87	0	0.00		
40-44 yrs	1064	947	117	416	39.09	378	39.91	38	32.47	5	0.47	4	0.42	1	0.85		
45-49 yrs	830	732	98	309	37.22	276	37.70	33	33.67	2	0.24	2	0.27	0	0.00		
50-54 yrs	621	571	50	179	28.82	165	28.89	14	28.00	6	0.96	6	1.05	0	0.00		
55-59 yrs	336	311	25	97	28.86	88	28.29	9	36.00	3							
60-64 yrs	173	157	16	60	34.68	50	31.84	10	62.50	0	0.00	0	0.00	0	0.00		
65-69 yrs	44	39	5	16	36.36	14	35.89	2	40.00	0	0.00	0	0.00	0	0.00		
70-74 yrs	21	20	1	6	28.57	5	25.00	1	100.00	1	4.76	1	5.00	0	0.00		
Totals	6797	6046	751	2625	38.62	2329	38.52	296	39.41	38	0.55	35	0.57	3	0.39		

Member Above BC totals include unknown members

Ascent totals exclude multiple seasonal ascents

Death totals include only those who went above BC

Summit Bid Summary				Summit Bid Termination Summary			
Cnt	Type	Cnt	Reason	Cnt	Reason	Cnt	Reason
1577	No summit bid	2626	Success	4	O2 System Failure		
242	Aborted below high camp	0	Success (Subpeak)	68	Route Difficulty, Inundation or Insufficient Ability		
440	Aborted at high camp	827	Bad Weather (Storms, High Winds)	80	Too Late in Day or Too Slow		
797	Aborted above high camp	246	Bad Conditions (Deep Snow, Avalanches, Falling Rock/Ice)	77	Assisting, Guiding, Supporting or Accompanying Others		
2626	Successful bid	42	Accident (Death or Injury to Self or Others)	15	Route Camp Preparation or Fixing Rope		
1115	Unspecified	288	Altitude (AMS Symptoms, Breathing or Urinwell)	4	Insufficient Time Left for Expedition		
Average Age Summary		443	Exhaustion, Fatigue, Weakness or Lack of Motivation	60	Did Not Climb or Intend to Smt		
All		188	Frostbite, Snowblindness or Coldness	148	Other		
39.69	All	283	Other Illnesses or Pains	229	Unknown		
39.86	Men	54	Lack of Supplies/Support or Equipment Problems	1115	Unspecified		
38.29	Women						

30.06.2017 Member & Gender Analysis (The Himalayan Database)

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Member & Gender Analysis Output – By Age for Cho Oyu

The above example analyzes members by gender for Cho Oyu from 1950 through 2016 by age in 5-year increments.

Member & Gender Analysis
by Citizenship for CHOY (8188m) (1950-2016)
Minimum of 200 Above BC, Members Only

	Members Above BC						Ascents						Deaths					
	Total		Male		Female		Total		Male		Female		Total		Male		Female	
	Cnt	Cnt	Cnt	Cnt	Cnt	Cnt	Cnt	Cnt	Cnt	Cnt	Cnt	Cnt	Cnt	Cnt	Cnt	Cnt	Cnt	Cnt
Austria	316	293	23	127	40.19	121	41.29	6	26.08	0	0.00	0	0.00	0	0.00	0	0.00	0
France	414	359	55	116	28.01	105	29.24	11	20.00	1	0.24	0	0.00	1	1.81	0	0.00	0
Germany	529	471	58	202	38.18	189	40.12	13	22.41	5	0.94	5	1.06	0	0.00	0	0.00	0
Italy	511	476	35	142	27.78	132	27.73	10	28.57	1	0.19	1	0.21	0	0.00	0	0.00	0
Japan	382	319	63	225	58.90	179	56.11	46	73.01	1	0.26	1	0.31	0	0.00	0	0.00	0
S. Korea	261	249	12	67	25.67	64	25.70	3	25.00	0	0.00	0	0.00	0	0.00	0	0.00	0
Spain	615	569	46	199	32.35	186	32.68	13	28.26	2	0.32	2	0.35	0	0.00	0	0.00	0
Switzerland	291	255	36	112	38.48	96	37.64	16	44.44	6	2.06	6	2.35	0	0.00	0	0.00	0
UK	480	436	44	170	35.41	150	34.40	20	45.45	1	0.20	1	0.22	0	0.00	0	0.00	0
USA	767	677	90	305	39.76	272	40.17	33	36.66	1	0.13	1	0.14	0	0.00	0	0.00	0
** All others**	2331	1942	289	960	43.03	835	42.99	125	43.25	20	0.89	18	0.92	2	0.69	0	0.69	0
Totals	6797	6046	751	2625	38.62	2329	38.52	296	39.41	38	0.53	35	0.57	3	0.39	0	0.39	0

Member Above BC totals include unknown members
Ascent totals exclude multiple seasonal ascents
Death totals include only those who went above BC

Summit Bid Summary:

Cnt	Type	Cnt	Reason
1577	No summit bid	2626	Success
242	Aborted below high camp	0	Success (Subpeak)
440	Aborted at high camp	827	Bad Weather (Storms, High Winds)
797	Aborted above high camp	246	Bad Conditions (Deep Snow, Avalanches, Falling Rock/Ice)
2626	Successful bid	42	Accident (Death or Injury to Self or Others)
1115	Unspecified	288	Altitude (AMS Symptoms, Breathing or Unwell)
		443	Exhaustion, Fatigue, Weakness or Lack of Motivation
		188	Frostbite, Snowblindness or Coldness
		283	Other Illnesses or Pains
		54	Lack of Supplies/Support or Equipment Problems

Summit Bid Termination Summary:

Cnt	Reason
1577	O2 System Failure
242	Route Difficulty, Intimidation or Insufficient Ability
440	Too late in Day or Too Slow
797	Assisting, Guiding, Supporting or Accompanying Others
2626	Route Camp Preparation or Fixing Rope
1115	Insufficient Time Left for Expedition
	Did Not Climb or Intent to Smt
	Other
	Unknown
	Unspecified

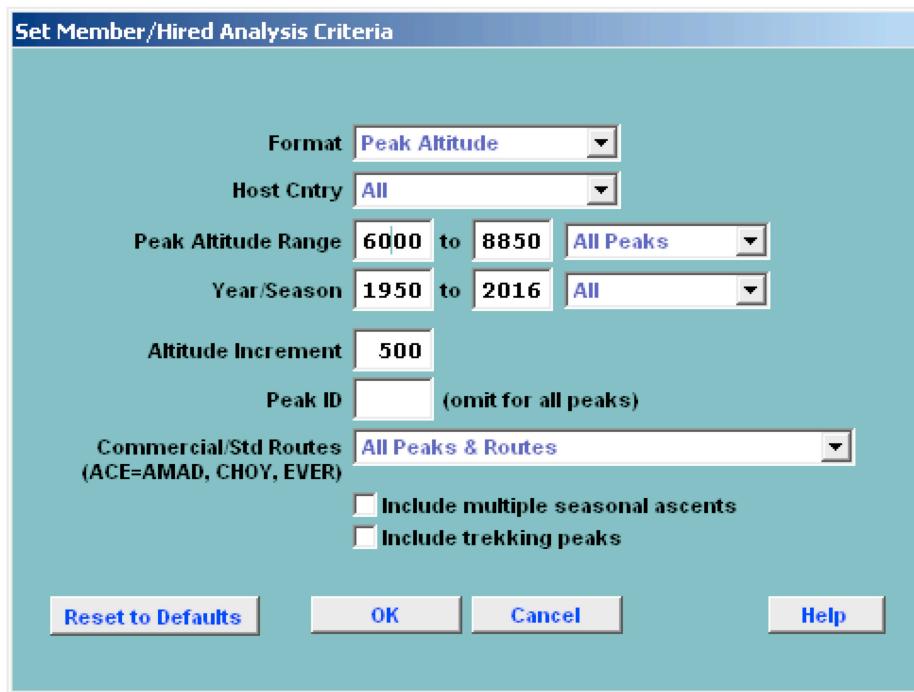
Member & Gender Analysis Output – By Citizenship for Cho Oyu

The above example analyzes members by gender for Cho Oyu from 1950 through 2016 by citizenship for countries with 200 or more members above base camp.

Member vs. Hired Analysis

The member vs. hired analysis analyzes climbing by members (total members and members above base camp) and hired personnel above base camp. Success and death rates are given for each group in the printed report and the Excel export. The Excel export also gives gender totals for members above base camp.

In the Analysis Criteria dialog box, select the criteria that you want:



The criteria options for the Member vs. Hired analysis are:

Format – emphasis and format of output

Peak Altitude

Expedition Year

Season

Host Cntry

All

Nepal

China

India

Peak Altitude Range

All Peaks

6000ers

7000ers

8000ers

mmmm to nnnn meter peaks

Year/Season – expedition year/season range

Altitude/Year Increment

When the Peak Altitude format is chosen, an altitude step increment may be selected (the default is 500m). When the Expedition

Year format is chosen, a year step increment may be selected (the default is 5 years). There is no increment available for Season.

Peak ID

Commercial/Std Routes (see “*Expedition Analysis*” above)

Member/Hired Analysis
by Peak Altitude for All Peaks (6000-8850m) (1950-2016)

Exped	Totals Above BC			Ascents			Deaths			Hired		
	Cnt	Members	Hired	Cnt	Rate	Cnt	Rate	Cnt	Rate	Cnt	Rate	
6000-6499m	393	1751	559	793	45.28	220	39.35	5	0.28	0	0.00	
6500-6999m	1672	8393	2587	3717	44.28	1063	41.09	48	0.57	13	0.50	
7000-7499m	1246	7665	2383	1977	25.79	646	27.10	102	1.33	26	1.09	
7500-7999m	418	2713	1146	394	14.52	122	10.64	65	2.39	10	0.87	
8000-8499m	2775	14907	5710	4368	29.30	1736	30.22	257	1.72	65	1.13	
\$500-\$850m	2269	14192	11911	4728	33.31	3330	32.15	205	1.44	109	0.91	
Totals	8773	49621	24296	15977	32.19	7607	31.31	682	1.37	223	0.91	

Ascent totals exclude multiple seasonal ascents

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30/06/2017 Member Hired Analysis (The Himalayan Database)

Member vs. Hired Analysis Output – By Altitude for all peaks from 6000m to 8850m.

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Member/Hired Analysis

by Expedition Years for DHA1 (8167m) (1950-2016)

Exped	Ascents			Deaths			Hired		
	Totals	Above BC	Members	Cnt	Hired	Members	Cnt	Hired	Rate
		Members	Cnt	Rate	Members	Cnt	Rate		
1950-1954	2	14	23	0	0.00	0	0.00	1	7.14
1955-1959	4	34	42	0	0.00	0	0.00	1	2.94
1960-1964	1	10	7	6	60.00	2	28.57	0	0.00
1965-1969	1	9	4	0	0.00	0	0.00	5	55.55
1970-1974	3	32	7	3	9.37	2	28.57	0	0.00
1975-1979	10	141	76	16	11.34	3	3.94	9	6.38
1980-1984	22	201	63	45	22.38	6	9.52	4	1.99
1985-1989	38	208	76	23	11.05	3	3.94	3	1.44
1990-1994	43	288	76	90	31.25	11	14.47	7	2.43
1995-1999	59	326	75	74	22.69	12	16.00	6	1.84
2000-2004	28	159	51	23	14.46	3	5.88	6	3.77
2005-2009	77	274	84	74	27.00	18	21.42	7	2.55
2010-2014	51	191	87	33	17.27	22	25.28	10	5.23
2015-2016	13	45	25	5	11.11	6	24.00	2	4.44
Totals	352	1932	696	392	20.29	88	12.64	61	3.15

Ascent totals exclude multiple seasonal ascents

30/06/2017 Member Hired Analysis (The Himalayan Database)

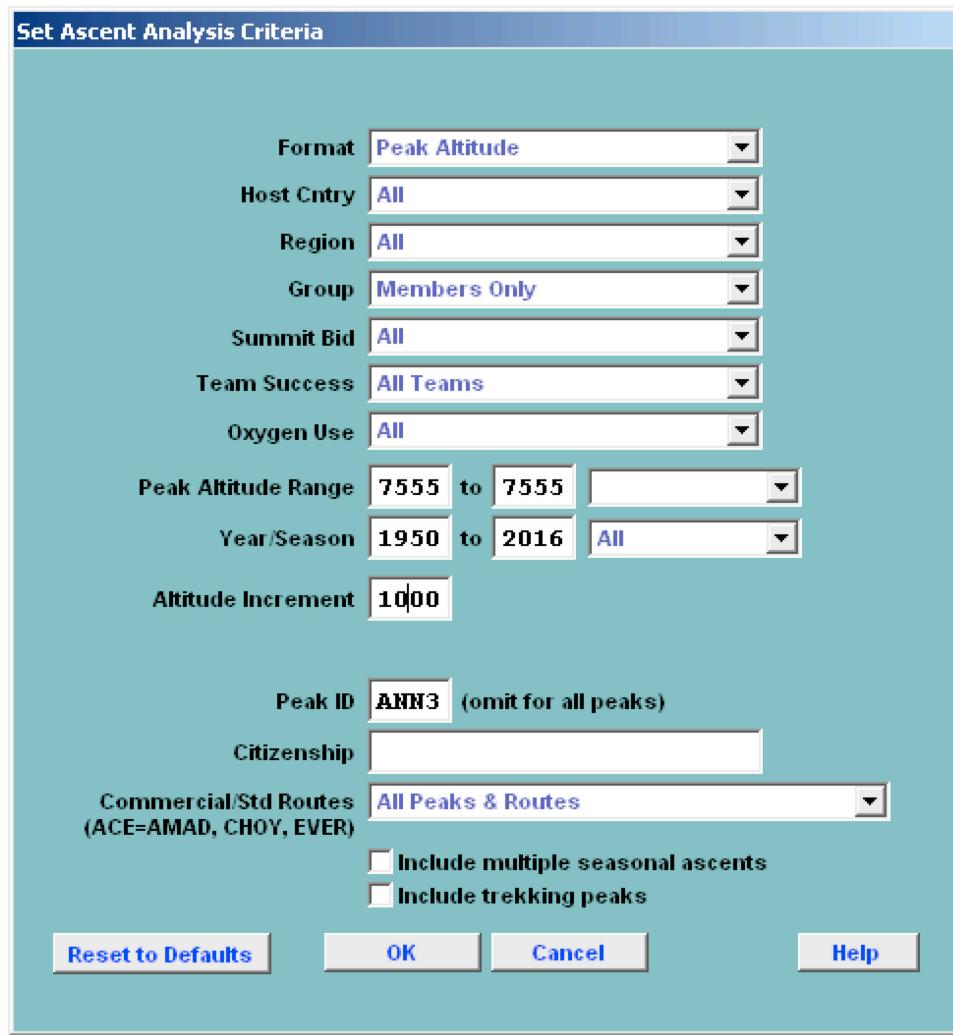
Member vs. Hired Analysis Output – By Expedition Year for Dhaulagiri I

The above example analyzes members vs. hired personnel for Dhaulagiri I from 1950 through 2016 by expedition years in 5-year increments.

Ascent Analysis

The ascent analysis analyzes ascents by members and hired personnel above base camp. Numbers above base camp, ascent counts, ascent rates, and oxygen use are given for each group in the printed report and the Excel export.

In the Analysis Criteria dialog box, select the criteria that you want:



The criteria options for the Ascent analysis are:

- Format – emphasis and format of output
 - Peak Altitude
 - Expedition Year
 - Season
 - Age
 - Citizenship
 - Time of Summit
 - Date of Summit
 - Team Size (Mbrs Abv BC)
 - Team Size (Hired Abv BC)
 - Hired/Members Ratio

Host Cntry	All Nepal China India
Region (see “ <i>Expedition Analysis</i> ” above)	
Group	Members Only Women Members Only Hired Only Members & Hired
Summit Bid	All No summit bid Aborted below high camp Aborted at high camp Aborted above high camp Successful bid Combinations
Team Success	All Teams Successful Teams Only
Oxygen Use	All Oxygen Used No Oxygen Used
Peak Altitude Range	All Peaks 6000ers 7000ers 8000ers <i>meee to nnnn</i> meter peaks
Year/Season – expedition year/season range	
Altitude/Year/Age Increment & Age Starting Point	When the Peak Altitude format is chosen, an altitude step increment may be selected (the default is 500m). When the Expedition Year format is chosen, a year step increment may be selected (the default is 5 years). When the Age format is chosen, an age step increment and starting point may be selected (the default is 5 years). There are no increments available for the Season and Citizenship formats.
Team Size Increment/Hired-Mbrs Ratio	When the Team Size format is chosen, a team size step increment may be selected (the default is 5). When the Hired/Members Ratio is format chosen, a ratio step increment may be selected (the default is 0.5).
Order & Minimum Above BC	When the Citizenship format is chosen, the output order may be sorted by one of the orders below (the default is Country Name).

Country Name
Members Above BC
Ascents
Ascent Rate

The output may be limited to nations with “n” members above BC.

Peak ID
Commercial/Std Routes (see “*Expedition Analysis*” above)

Combinations (multiple selections) can be made for the Region and Summit Bid criteria. Clicking on the Combinations choice will bring up a Pick dialog, from which you can select multiple items.

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Ascent Analysis									
by Peak Altitude for ANN3 (7555m) (1950-2016)									
Members Only									
Members Above BC									
Total	Total	Male	Female	Total	Ascents	Oxygen Use			
Cnt	Cnt	Cnt	Cnt	Cnt	Male	With O ₂	W/o O ₂	Unkn	
221	221	199	22	20	9.05	Cnt	Cnt	Cnt	
Totals	Totals	199	22	20	9.05	17	8.54	3	18
Member Above BC totals include unknown members									
Ascent totals exclude multiple seasonal ascents									
Ascent Summary									
1 Solo ascents									
1 Traverses									
0 Ski snowboard descents									
0 Paragliding descents									
0 Disputed ascents									
0 Unrecognized ascents									

30/06/2017 Ascent Analysis (The Himalayan Database)

Ascent Analysis Output – By Peak Altitude

The above example analyzes member ascents for Annapurna III from 1950 through 2016.

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Ascent Analysis
by Expedition Years for ANN3 (7555m) (1950-2016)

Members Only

Members Above BC	Ascents						Oxygen Use		
	Total	Male	Female	Total	Male	Female	With O ₂	W/o O ₂	Unknown
Cnt	Cnt	Cnt	Cnt	Cnt	Cnt	Cnt	Cnt	Cnt	Cnt
1950-1954	0	0	0	0	0.00				
1955-1959	0	0	0	0	0.00				
1960-1964	6	6	0	2	33.33	2	33.33	0	0.00
1965-1969	0	0	0	0	0.00				
1970-1974	9	0	9	2	22.22	0	0.00	2	22.22
1975-1979	40	32	8	6	15.00	5	15.62	1	12.50
1980-1984	55	55	0	2	3.63	2	3.63	0	0.00
1985-1989	39	39	0	3	7.69	3	7.69	0	0.00
1990-1994	32	27	5	1	3.12	1	3.70	0	0.00
1995-1999	5	5	0	1	20.00	1	20.00	0	0.00
2000-2004	27	27	0	3	11.11	3	11.11	0	0.00
2005-2009	0	0	0	0	0.00				
2010-2014	3	3	0	0	0.00				
2015-2016	5	5	0	0	0.00				
Totals	221	199	22	20	9.05	17	8.54	3	13.63
								1	18
									1

Member Above BC totals include unknown members

Ascent totals exclude multiple seasonal ascents

Ascent Summary

- 1 Solo ascents
- 1 Traverses
- 0 Ski snowboard descents
- 0 Parapente descents
- 0 Disputed ascents
- 0 Unrecognized ascents

30.06.2017 Ascent Analysis (The Himalayan Database)

Ascent Analysis Output – By Expedition Year

The above example analyzes member ascents for Annapurna III from 1950 through 2016 by expedition years in 5-year increments.

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Ascent Analysis

by Seasons for ANN3 (7555m) (1950-2016)

Members Only

	Members Above BC				Ascents				Oxygen Use			
	Total	Male	Female	Cnt	Total	Male	Female	Cnt	With O ₂	W/o O ₂	Unknown	Cnt
Spring	67	58	9	7	10.44	5	8.62	2	22.22	0	7	0
Summer	0	0	0	0	0.00	0	0.00	0				
Autumn	154	141	13	13	8.44	12	8.51	1	7.69	1	11	1
Winter	0	0	0	0	0.00	0	0.00	0				
Totals	221	199	22	20	9.05	17	8.54	3	13.63	1	18	1

Member Above BC totals include unknown members

Ascent totals exclude multiple seasonal ascents

Ascent Summary

- 1 Solo ascents
- 1 Traverses
- 0 Ski snowboard descents
- 0 Parapente descents
- 0 Disputed ascents
- 0 Unrecognized ascents

30/06/2017 / Ascent Analysis (The Himalayan Database)

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Ascent Analysis Output – By Season

The above example analyzes member ascents for Annapurna III from 1950 through 2016 by climbing season.

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Ascent Analysis
by Age for ANN3 (7555m) (1950-2016)
Members Only

Members Above BC				Ascents				Oxygen Use			
Total	Male	Female	Cnt	Total	Cnt	Rate	Cnt	Male	Female	Cnt	Rate
Cnt	Cnt	Cnt	Cnt	Cnt	Cnt	Cnt	Cnt	Cnt	Cnt	Cnt	Cnt
Unknown	1	1	0	1	1	100.00	1	100.00	0	0.00	1
15-19 yrs	2	2	0	2	2	100.00	2	100.00	0	0.00	2
20-24 yrs	26	23	3	26	100.00	23	100.00	3	100.00	0	25
25-29 yrs	75	66	9	75	100.00	66	100.00	9	100.00	1	73
30-34 yrs	60	55	5	60	100.00	55	100.00	5	100.00	1	59
35-39 yrs	26	23	3	26	100.00	23	100.00	3	100.00	0	25
40-44 yrs	14	14	0	14	100.00	14	100.00	0	0.00	0	13
45-49 yrs	9	8	1	9	100.00	8	100.00	1	100.00	1	8
50-54 yrs	4	4	0	4	100.00	4	100.00	0	0.00	0	4
55-59 yrs	2	1	1	2	100.00	1	100.00	1	100.00	0	2
60-64 yrs	2	2	0	2	100.00	2	100.00	0	0.00	0	2
Totals	221	199	22	221	100.00	199	100.00	22	100.00	3	214

Member Above BC totals include unknown members

Ascent totals exclude multiple seasonal ascents

Ascent Summary

- 1 Solo ascents
- 1 Traverses
- 0 Ski snowboard descents
- 0 Parapente descents
- 0 Disputed ascents
- 0 Unrecognized ascents

Average Summitter Age Summary

31.75	All
32.05	Men
30.00	Women

30/06/2017 Ascent Analysis (The Himalayan Database)

Ascent Analysis Output – By Age

The above example analyzes member ascents for Annapurna III from 1950 through 2016 by climber's age in 5-year increments.

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Ascent Analysis
by Citizenship for ANN3 (7555m) (1950-2016)

Members Only

	Members Above BC			Ascents			Oxygen Use		
	Total <u>Cnt</u>	Male <u>Cnt</u>	Female <u>Cnt</u>	Total <u>Cnt</u>	Male <u>Cnt</u>	Female <u>Cnt</u>	With O ₂ <u>Cnt</u>	W/o O ₂ <u>Cnt</u>	Unknown <u>Cnt</u>
Australia	16	16	0	0	0	0.00	0	0	0
Austria	4	4	0	0	0	0.00	0	0	0
Germany	1	1	0	0	0	0.00	0	0	0
India	6	6	0	2	2	33.33	0	0.00	0
Italy	37	30	7	4	10.81	4	13.33	0	0.00
Japan	34	21	13	3	8.82	1	4.76	2	15.38
Nepal (non-Sherpa)	22	22	0	3	13.63	3	13.63	0	0.00
Poland	4	4	0	0	0.00	0	0.00	0	0
S Korea	21	21	0	1	4.76	1	4.76	0	0.00
Slovenia	22	21	1	0	0.00	0	0.00	0	0
Spain	11	11	0	1	9.09	1	9.09	0	0.00
Switzerland	8	8	0	1	12.50	1	12.50	0	0.00
UK	25	24	1	4	16.00	3	12.50	1	100.00
USA	10	10	0	1	10.00	1	10.00	0	0.00
Totals	221	199	22	20	9.05	17	8.54	3	13.63

Member Above BC totals include unknown members

Ascent totals exclude multiple seasonal ascents

Ascent Summary

- 1 Solo ascents
- 1 Traverses
- 0 Ski snowboard descents
- 0 Parapente descents
- 0 Disputed ascents
- 0 Unrecognized ascents

30.06.2017 Ascent Analysis (The Himalayan Database)

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Ascent Analysis Output – By Citizenship

The above example analyzes member ascents for Annapurna III from 1950 through 2016 by citizenship.

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Ascent Analysis

by Team Size (Mtrs Above BC) for ANN3 (7555m) (1950-2016)

Members Only

Members Above BC				Ascents				Oxygen Use			
Total	Male	Female	Cnt	Total	Male	Female	Cnt	With O ₂	W/o O ₂	Unknown	Cnt
Cnt	Cnt	Cnt	Cnt	Cnt	Cnt	Cnt	Cnt	Cnt	Cnt	Cnt	Cnt
0-4	44	44	0	6	13.63	6	13.63	0	0.00	1	4
5-9	80	66	14	7	8.75	4	6.06	3	21.42	0	7
10-14	48	47	1	0	0.00						0
15-19	0	0	0	0	0.00						
20-24	22	22	0	3	13.63	3	13.63	0	0.00	0	3
25-29	27	20	7	4	14.81	4	20.00	0	0.00	0	4
Totals	221	199	22	20	9.05	17	8.54	3	13.63	1	18

Member Above BC totals include unknown members

Ascent totals exclude multiple seasonal ascents

Ascent Summary:

- 1 Solo ascents
- 1 Traverses
- 0 Ski snowboard descents
- 0 Parapente descents
- 0 Disputed ascents
- 0 Unrecognized ascents

30/06/2017 Ascent Analysis (The Himalayan Database)

Ascent Analysis Output – By Member Team Size

The above example analyzes member ascents for Annapurna III from 1950 through 2016 by member team size in 5-member increments.

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Ascent Analysis									
by Hired/Members Ratio for ANX3 (7555m) (1950-2016)									
Members Only									
Members Above BC									
Total Cnt									
Male Cnt									
Female Cnt									
Total Cnt									
Rate									
No Hired	75	73	2		6	8.00	5	6.84	1
0.01-0.49	113	102	11		8	7.08	8	7.84	0
0.50-0.99	6	6	0		0	0.00			
1.00-1.49	21	12	9		4	19.04	2	16.66	2
1.50-1.99	0	0	0		0	0.00			
2.00-2.49	6	6	0		2	33.33	2	33.33	0
Totals	221	199	22		20	9.05	17	8.54	3
								13.63	1
									18
Ascents									
Male Cnt									
Female Cnt									
Total Cnt									
Rate									
No Hired	75	73	2		6	8.00	5	6.84	1
With O ₂	0	0	0		0	0.00	0	0	0
W/o O ₂	0	0	0		0	0.00	0	0	0
Unkn	0	0	0		0	0.00	0	0	0
Oxygen Use									

Member Above BC totals include unknown members

Ascent totals exclude multiple seasonal ascents

Ascent Summary

- 1 Solo ascents
- 1 Traverses
- 0 Ski/snowboard descents
- 0 Parapente descents
- 0 Disputed ascents
- 0 Unrecognized ascents

30.06.2017 Ascent Analysis (The Himalayan Database)

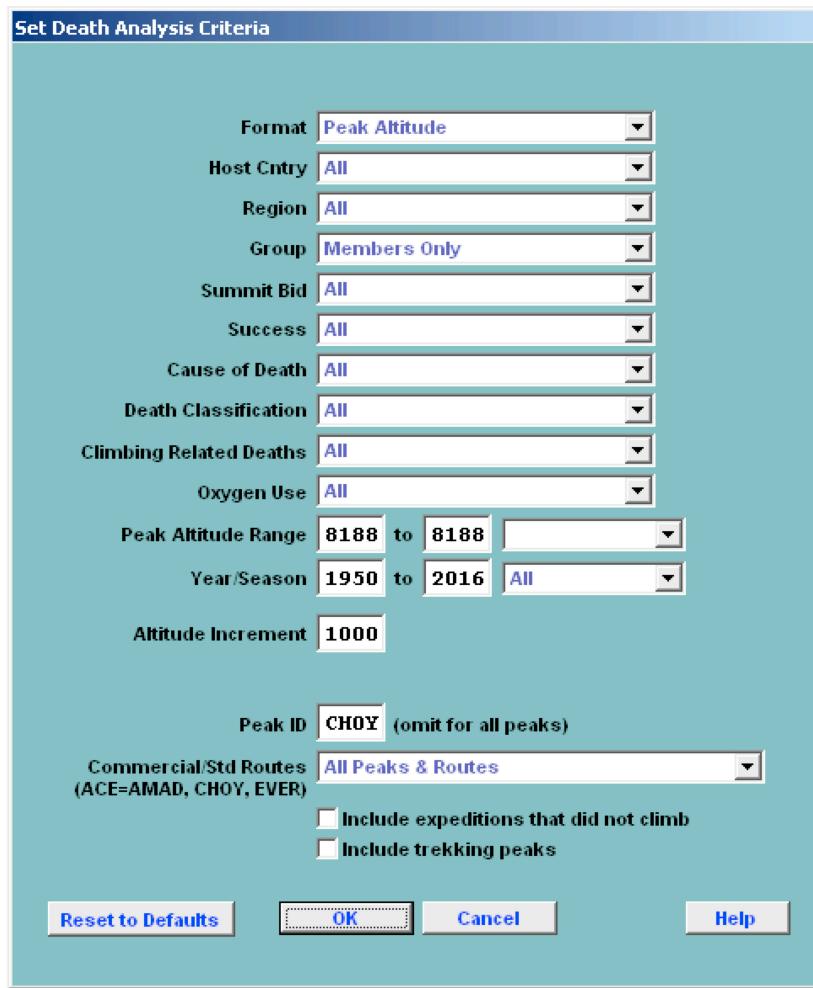
Ascent Analysis Output – By Hired to Members Ratio

The above example analyzes member ascents for Annapurna III from 1950 through 2016 by the ratio of hired personnel to members.

Death Analysis

The death analysis analyzes deaths by members and hired personnel above base camp. Numbers above base camp, death counts, death rates, and oxygen use are given for each group in the printed report and the Excel export.

In the Analysis Criteria dialog box, select the criteria that you want:



The criteria options for the Death analysis are:

- Format – emphasis and format of output
 - Peak Altitude
 - Expedition Year
 - Season
 - Age
 - Citizenship
 - Cause of Death
 - Altitude of Death
 - Time of Death
 - Team Size (Mbrs Abv BC)
 - Team Size (Hired Abv BC)
 - Hired/Members Ratio

Host Cntry	All Nepal China India
Region (see “ <i>Expedition Analysis</i> ” above)	
Group	Members Only Women Members Only Hired Only Members & Hired
Summit Bid	All No summit bid Aborted below high camp Aborted at high camp Aborted above high camp Successful bid Combinations
Success	All Successful Only Unsuccessful Only
Cause of Death	All AMS Exhaustion Exposure/Frostbite Fall Crevasse Icefall Collapse Avalanche Falling Rock/Ice Disappearance (Unexplained) Illness (non-AMS) Other Unknown Combinations
Death Classification	All Death enroute BC Death at BC Route preparation Ascending in summit bid Descending from summit bid Expedition evacuation Other/unknown Combinations

Climbing Related Deaths

All

Include Climbing Only

Include Non-Climbing Only

Peak Altitude Range

All Peaks

6000ers

7000ers

8000ers

mmmm to *NNNN* meter peaks

Year/Season – expedition year/season range

Altitude/Year/Age Increment & Age Starting Point

When the Peak Altitude format is chosen, an altitude step increment may be selected (the default is 500m). When the Expedition Year format is chosen, a year step increment may be selected (the default is 5 years). When the Age format is chosen, an age step increment and starting point may be selected (the default is 5 years). There are no increments available for the Season, Citizenship, and Cause of Death formats.

Altitude Increment & Direction

When the Altitude of Death format is chosen, an altitude step increment (the default is 500m) and direction (Normal or Distance from Summit) may be selected.

Time Increment

When the Time of Death format is chosen, an hourly step increment may be selected (the default is 2 hours).

Team Size Increment/Hired-Mbrs Ratio

When the Team Size format is chosen, a team size step increment may be selected (the default is 5). When the Hired/Members Ratio format is chosen, a ratio step increment may be selected (the default is 0.5).

Order & Minimum Above BC

When the Citizenship format is chosen, the output order may be sorted by one of the orders below (the default is Country Name).

Country Name

Members Above BC

Deaths

Death Rate

The output may be limited to nations with “n” members above BC.

Peak ID

Commercial/Std Routes (see “*Expedition Analysis*” above)

Combinations (multiple selections) can be made for the Region, Summit Bid, Cause of Death and Death Classification criteria. Clicking on the Combinations choice will bring up a Pick dialog, from which you can select multiple items.

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Death Analysis

by Peak Altitude for CHOY (8188m) (1950-2010)

Members Only

	Members Above BC						Deaths After Ascents						Oxygen Use					
	Total Cnt	Male Cnt	Female Cnt	Total Cnt	Male Cnt	Female Cnt	Total Cnt	Male Cnt	Female Cnt	Total Cnt	Male Cnt	Female Cnt	With O ₂ Cnt	W/o O ₂ Cnt	Unknown Cnt			
8188m	6797	6046	751	41	0.60	38	0.62	3	0.39	9	0.34	9	0.33	0	0.00	10		
Totals	6797	6046	751	41	0.60	38	0.62	3	0.39	9	0.34	9	0.33	0	0.00	10		
																1		

Death Summary

Cnt	Classification	Cnt	Classification
11	AMS	1	Death enroute BC
1	Exhaustion	2	Death at BC
0	Exposure/Frostbite	13	Route preparation
14	Fall	4	Ascending in summit bid
1	Crevasse	16	Descending from summit bid
0	Icefall Collapse	5	Expedition evacuation
4	Avalanche	0	Other/unknown
1	Falling Rock/Ice	15	AMS-related
0	Disappearance (Unknown)	0	Weather/Storm-related
8	Illness (non-AMS)		
0	Other		
1	Unknown		

01/07/2017 Death Analysis (The Himalayan Database)

Death Analysis Output – By Peak Altitude

The above example analyzes member deaths for Cho Oyu from 1950 through 2016.

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Death Analysis
by Expedition Years for CHOY (8188m) (1950-2016)
Members Only

Members Above BC										Deaths After Ascents									
Total	Male	Female	Cnt	Total	Male	Female	Cnt	Total	Male	Female	Cnt	Rate	Cnt	Rate	Cnt	Rate	Oxygen Use		
Cnt	Cnt	Cnt	Cnt	Cnt	Cnt	Cnt	Cnt	Cnt	Cnt	Cnt	Cnt	Cnt	Cnt	Cnt	Cnt	With O ₂			
1950-1954	18	17	1	0	3	18.75	1	14.28	2	22.22	0	0.00	0	0.00	1	2	0		
1955-1959	16	7	9	3	40.00	2	40.00	0	0.00	0	0.00	0	0.00	0	0	2	0		
1960-1964	5	5	0	2	0	0	0	0	0.00	0	0.00	0	0.00	0	0	0	0		
1965-1969	0	0	0	0	0	0	0	0	0.00	0	0.00	0	0.00	0	0	0	0		
1970-1974	0	0	0	0	0	0	0	0	0.00	0	0.00	0	0.00	0	0	0	0		
1975-1979	7	7	0	0	0	0	0	0	0.00	0	0.00	0	0.00	0	0	0	0		
1980-1984	114	109	5	1	0.87	1	0.91	0	0.00	0	0.00	0	0.00	0	0.00	0	0		
1985-1989	302	286	16	3	0.99	3	1.04	0	0.00	1	0.82	1	0.84	0	0.00	0	0		
1990-1994	789	728	61	5	0.63	5	0.68	0	0.00	0	0.00	0	0.00	0	0.00	0	0		
1995-1999	1294	1151	143	7	0.54	7	0.60	0	0.00	3	0.60	3	0.66	0	0.00	2	0		
2000-2004	1406	1265	141	9	0.64	8	0.63	1	0.70	1	0.17	1	0.20	0	0.00	4	0		
2005-2009	1701	1466	235	6	0.35	6	0.40	0	0.00	4	0.53	4	0.61	0	0.00	2	0		
2010-2014	934	819	115	5	0.53	5	0.61	0	0.00	0	0.00	0	0.00	0	0.00	0	0		
2015-2016	211	186	25	0	0	0	0	0	0.00	0	0.00	0	0.00	0	0.00	0	1		
Totals	6797	6046	751	41	0.60	38	0.62	3	0.39	9	0.34	9	0.38	0	0.00	10	30		

Death Summary

Cnt	Classification
11	AMS
1	Exhaustion
0	Exposure Frostbite
14	Fall
1	Crevasse
0	Icefall Collapse
4	Avalanche
1	Falling Rock/Ice
0	Disappearance (Unknown)
8	Illness (non-AMS)
0	Other
1	Unknown

0.00

4 Ascending in summit bid
16 Descending from summit bid
5 Expedition evacuation
0 Other/unknown
15 AMS-related
0 Weather/Storm-related

01/07/2017 Death Analysis (The Himalayan Database)

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Death Analysis Output – By Expedition Years

The above example analyzes member deaths for Cho Oyu from 1950 through 2016 by expedition years in 5-year increments.

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Death Analysis

by Cause of Death for CHOY (81,88m) (1950-2016)

Members Only

	Deaths										Deaths After Ascents										Oxygen Use									
	Male					Female					Male					Female					With O ₂									
	Total	Cnt	Pct	Cnt	Pct	Total	Cnt	Pct	Total	Cnt	Pct	Total	Cnt	Pct	Total	Cnt	Pct	Total	Cnt	Pct	Oxygen W/o O ₂	Cnt	Pct							
AMS	11	26.82	11	28.94	0	0.00	3	33.33	0	0.00	3	30.00	7	23.33	1	100.00	0	0.00	0	0.00	0	0.00								
Exhaustion	1	2.43	1	2.63	0	0.00	1	11.11	1	11.11	0	0.00	1	10.00	0	0.00	0	0.00	0	0.00	0	0.00								
Exposure/Frostbite	0																													
Fall	14	34.14	13	34.21	1	33.33	3	33.33	0	0.00	1	10.00	13	43.33	0	0.00	0	0.00	1	3.33	0	0.00								
Crevasse	1	2.43	1	2.63	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	1	3.33	0	0.00								
Icefall Collapse	0																													
Avalanche	4	9.75	2	5.26	2	66.66	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	4	13.33	0	0.00								
Falling Rock/Ice	1	2.43	1	2.63	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	1	10.00	0	0.00	0	0.00	0	0.00								
Disappearance (Unexpl.)	0																													
Illness (non-AMS)	8	19.51	8	21.05	0	0.00	2	22.22	2	22.22	0	0.00	4	40.00	4	13.33	0	0.00	0	0.00	0	0.00								
Other	0																													
Unknown	1	2.43	1	2.63	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	1	3.33	0	0.00								
Totals	41	99.99	38	100.00	3	100.00	9	99.99	9	99.99	0	0.00	10	100.00	30	99.98	1	100.00												

Death Summary

Cnt	Classification	Cnt	Classification
11	AMS	1	Death en route BC
1	Exhaustion	2	Death at BC
0	Exposure/Frostbite	13	Route preparation
14	Fall	4	Ascending in summit bid
1	Crevasse	16	Descending from summit bid
0	Icefall Collapse	5	Expedition evacuation
4	Avalanche	0	Other/unknown
1	Falling Rock/Ice	15	AMS-related
0	Disappearance (Unexpl.)	0	Weather/Storm-related
8	Illness (non-AMS)		
0	Other		
1	Unknown		

01/07/2017 Death Analysis (The Himalayan Database)

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Death Analysis Output – By Cause of Death

The above example analyzes member deaths for Cho Oyu from 1950 through 2016 by cause of death.

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Death Analysis

by Altitude of Death for CHOY (8188m) (1950-2016)

Members Only

	Deaths										Deaths After Ascents										Oxygen Use									
	Male					Female					Male					Female					With O2									
	Total	Cnt	Pct	Cnt	Pct	Total	Cnt	Pct	Cnt	Pct	Total	Cnt	Pct	Cnt	Pct	Cnt	Pct	Cnt	Pct	Cnt	Pct									
Unknown	1	2.43	1	2.63	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	1	3.33	0	0.00										
4500-4999m	1	2.43	1	2.63	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	1	3.33	0	0.00										
5000-5499m	1	2.43	1	2.63	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	1	3.33	0	0.00										
5500-5999m	3	7.31	3	7.89	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	3	30.00	0	0.00	0	0.00										
6000-6499m	2	4.87	2	5.26	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	2	6.67	0	0.00	0	0.00										
6500-6999m	9	21.95	9	23.68	0	0.00	1	11.11	1	11.11	0	0.00	0	0.00	8	26.67	1	100.00	0	0.00										
7000-7499m	12	29.26	10	26.31	2	66.66	4	44.44	4	44.44	0	0.00	4	40.00	8	26.67	0	0.00	0	0.00										
7500-7999m	9	21.95	9	23.68	0	0.00	4	44.44	4	44.44	0	0.00	2	20.00	7	23.33	0	0.00	0	0.00										
8000-8499m	3	7.31	2	5.26	1	33.33	0	0.00	0	0.00	1	10.00	2	6.67	0	0.00	0	0.00	0	0.00										
Totals	41	99.99	38	100.00	3	100.00	9	99.99	9	99.99	0	0.00	10	100.00	30	100.00	1	100.00												

Death Summary		Classification		Classification	
11	AMS	1	Death enroute BC	1	Death enroute BC
1	Exhaustion	2	Death at BC	2	Death at BC
0	Exposure/Frostbite	13	Route preparation	13	Route preparation
14	Fall	4	Ascending in summit bid	4	Ascending in summit bid
1	Crevasse	16	Descending from summit bid	16	Descending from summit bid
0	Icefall Collapse	5	Expedition evacuation	5	Expedition evacuation
4	Avalanche	0	Other unknown	0	Other unknown
1	Falling Rock/Ice	15	AMS-related	15	AMS-related
0	Disappearance (Unexpl)	0	Weather/Storm-related	0	Weather/Storm-related
8	Illness (non-AMS)				
0	Other				
1	Unknown				

01/07/2017 Death Analysis (The Himalayan Database)

Death Analysis Output – By Altitude of Death

The above example analyzes member deaths for Cho Oyu from 1950 through 2016 by altitude of death in 500m increments.

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Death Analysis

by Time of Death for CHOY (8188m) (1950-2016)

Members Only

	Deaths After Ascents										Oxygen Use									
	Deaths					Male					Female					With O2				
	Total	Cnt	Pct	Total	Cnt	Pct	Total	Cnt	Pct	Total	Cnt	Pct	Total	Cnt	Pct	Total	Cnt	Pct	Total	Cnt
Unknown	21	51.22	19	50.00	2	66.66	4	44.44	0	0.00	4	40.00	16	53.33	1	100.00				
00:00-01:59	1	2.43	1	2.63	0	0.00	1	11.11	1	11.11	0	0.00	0	0.00	1	3.33	0	0.00		
02:00-03:59	1	2.43	1	2.63	0	0.00	0	0.00	0	0.00	0	0.00	1	10.00	0	0.00	0	0.00		
04:00-05:59	3	7.31	3	7.89	0	0.00	0	0.00	0	0.00	0	0.00	2	20.00	1	3.33	0	0.00		
06:00-07:59	1	2.43	1	2.63	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	1	3.33	0	0.00		
08:00-09:59	1	2.43	1	2.63	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	1	3.33	0	0.00		
10:00-11:59	4	9.75	4	10.52	0	0.00	1	11.11	1	11.11	0	0.00	2	20.00	2	6.67	0	0.00		
12:00-13:59	4	9.75	3	7.89	1	33.33	2	22.22	2	22.22	0	0.00	0	0.00	4	13.33	0	0.00		
14:00-15:59	2	4.87	2	5.26	0	0.00	0	0.00	0	0.00	0	0.00	1	10.00	1	3.33	0	0.00		
16:00-17:59	2	4.87	2	5.26	0	0.00	1	11.11	1	11.11	0	0.00	0	0.00	2	6.67	0	0.00		
18:00-19:59	1	2.43	1	2.63	0	0.00	0	0.00	0	0.00	0	0.00	0	0.00	1	3.33	0	0.00		
Totals	41	100.00	38	100.00	3	100.00	9	99.99	9	99.99	0	0.00	10	100.00	30	99.98	1	100.00		

Death Summary		Classification	
11	AMS	1	Death enroute BC
		2	Death at BC
		3	Route preparation
		4	Ascending in summit bid
		13	Descending from summit bid
		16	Descending from summit bid
		5	Expedition evacuation
		0	Other/unknown
		15	AMS-related
		0	Disappearance (Unexpl.)
		8	Illness (non-AMS)
		0	Weather/Storm-related
		1	Other
		1	Unknown

01/07/2017 Death Analysis (The Himalayan Database)

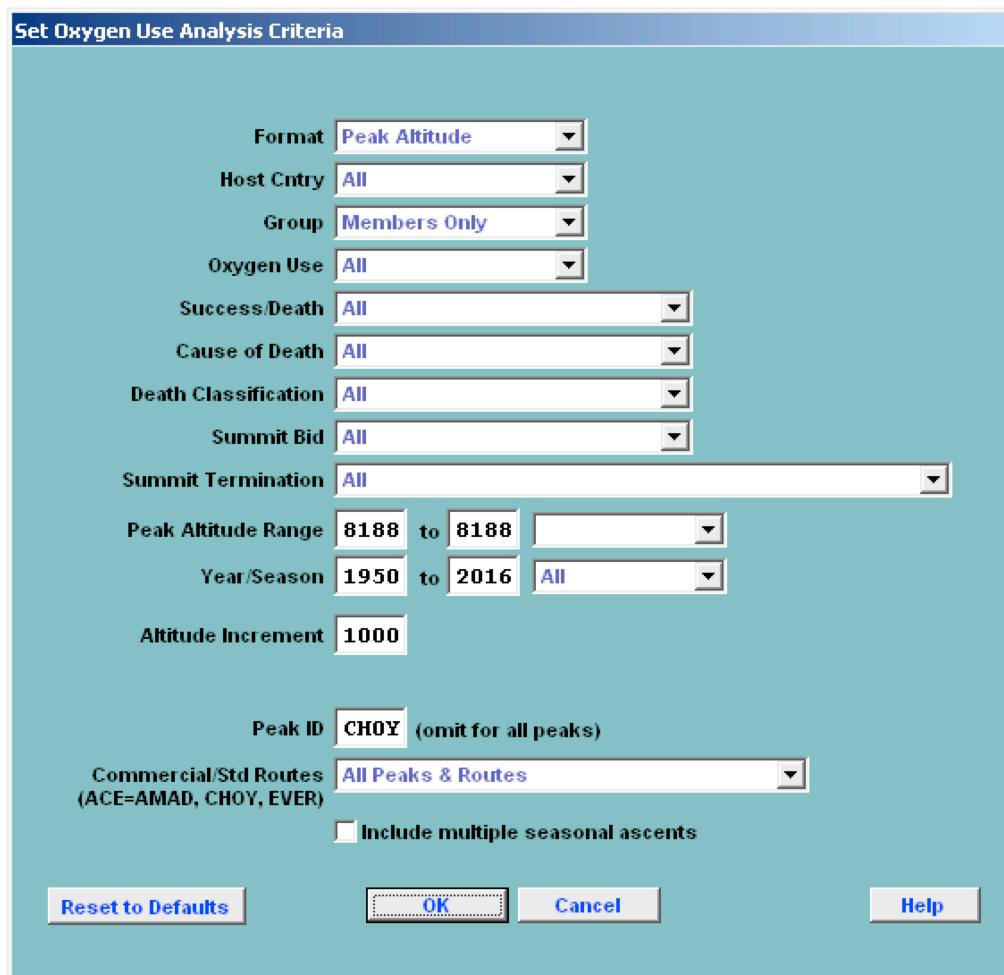
Death Analysis Output – By Time of Death

The above example analyzes member deaths for Cho Oyu from 1950 through 2016 by time of death in 2-hour increments.

Oxygen Use Analysis

The oxygen use analysis analyzes the use of oxygen for ascents and deaths. Numbers above base camp and oxygen use (with, without, and unknown) are given for each group in the printed report and the Excel export.

In the Analysis Criteria dialog box, select the criteria that you want:



The criteria options for the Oxygen Use analysis are:

Format – emphasis and format of output

Peak Altitude

Expedition Year

Season

Age

Citizenship

Host Cntry

All

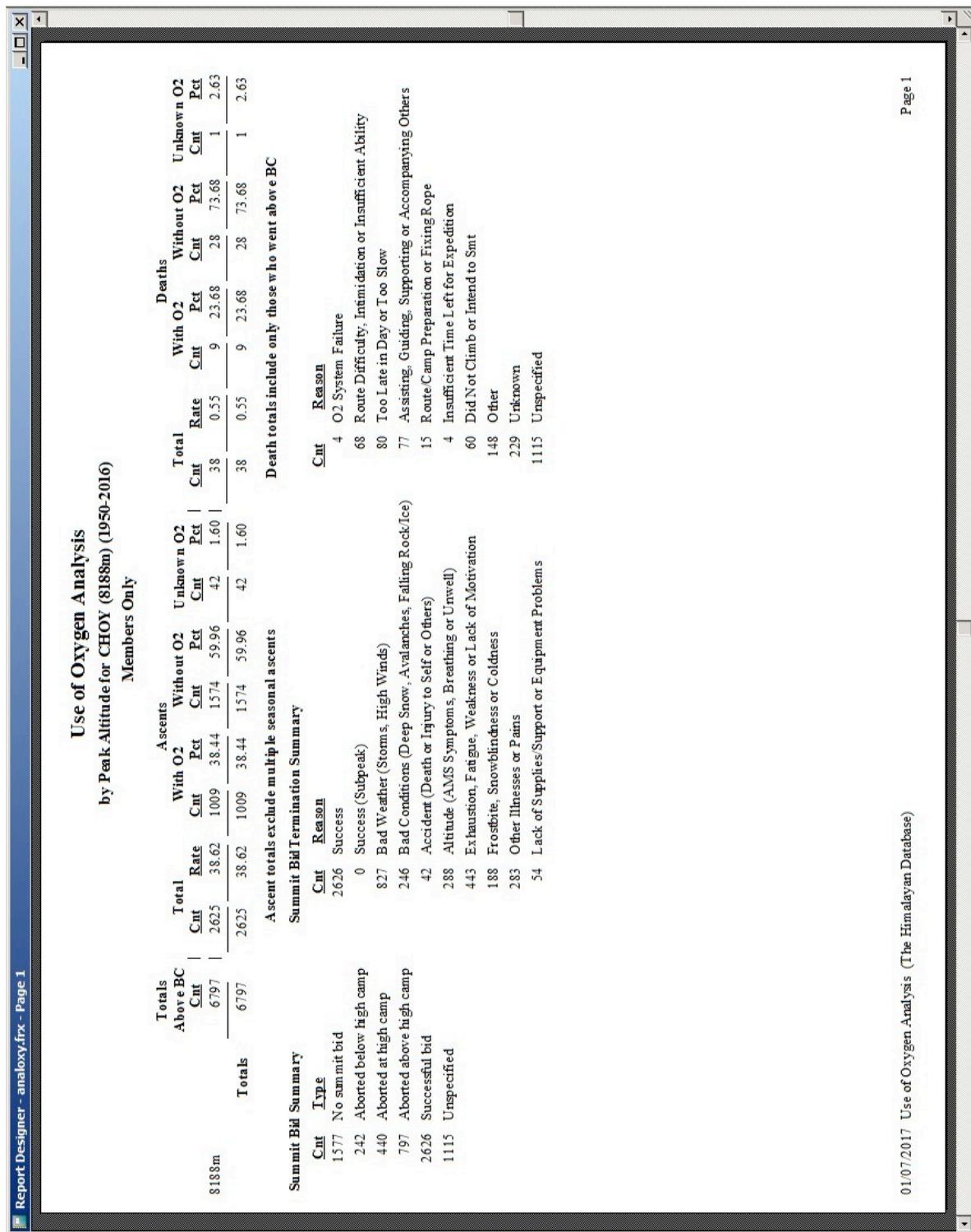
Nepal

China

India

Group
 Members Only
 Hired Only
 Members & Hired
Oxygen Use
 All
 Oxygen Used
 No Oxygen Used
Success/Death
 All
 Successful Only
 Unsuccessful Only
 Died Only
 Survived Only
 Successful and Died
 Unsuccessful and Died
 Successful and Survived
 Unsuccessful and Survived
 Cause of Death (see “*Death Analysis*” above)
 Death Classification (see “*Death Analysis*” above)
 Summit Bid (see “*Death Analysis*” above)
 Summit Termination (see “*Member & Gender Analysis*” above)
Peak Altitude Range
 All Peaks
 6000ers
 7000ers
 8000ers
 mmmm to nnnn meter peaks
Year/Season – expedition year/season range
Altitude/Year/Age Increment & Age Starting Point
 When the Peak Altitude format is chosen, an altitude step increment may be selected (the default is 500m). When the Expedition Year format is chosen, a year step increment may be selected (the default is 5 years). When the Age format is chosen, an age step increment and starting point may be selected (the default is 5 years). There are no increments available for the Season and Citizenship formats.
Order & Minimum Above BC
 When the Citizenship format is chosen, the output order may be sorted by one of the orders below (the default is Country Name).
 Country Name
 Members Above BC
 Ascents
 Ascent Rate
 Deaths
 Death Rate
 The output may be limited to nations with “n” members above BC.
Peak ID
 Commercial/Std Routes (see “*Expedition Analysis*” above)

Combinations (multiple selections) can be made for the Success/Death, Cause of Death, Death Classification, Summit Bid, and Summit Termination criteria. Clicking on the Combinations choice will bring up a Pick dialog, from which you can select multiple items.



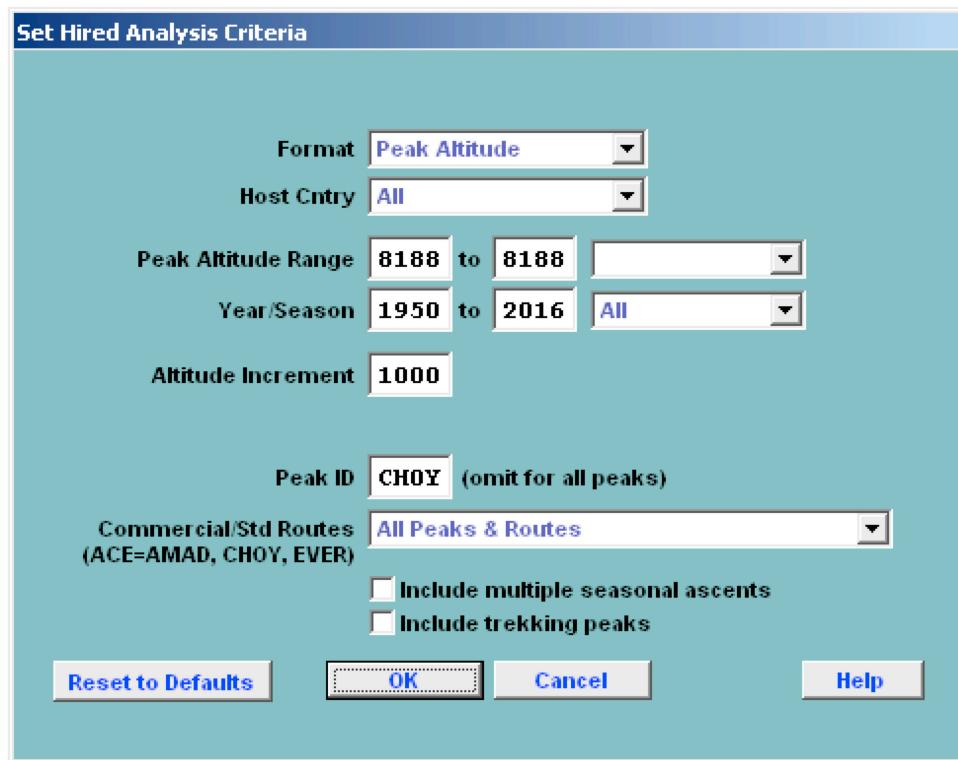
Oxygen Use Analysis Output – By Peak Altitude

The above example analyzes oxygen use for Cho Oyu from 1950 through 2016.

Hired Use Analysis

The hired use analysis analyzes member ascents and deaths by the use or non-use of hired personnel above base camp. Numbers above base camp, ascent counts and rates, death counts and rates, and oxygen use are given for each group in the printed report and the Excel export.

In the Analysis Criteria dialog box, select the criteria that you want:



The criteria options for the Hired Use analysis are:

Format – emphasis and format of output

Peak Altitude

Expedition Year

Season

Age

Citizenship

Host Cntry

All

Nepal

China

India

Peak Altitude Range

All Peaks

6000ers

7000ers

8000ers

mmmm to nnnn meter peaks

Year/Season – expedition year/season range

Altitude/Year/Age Increment & Age Starting Point

When the Peak Altitude format is chosen, an altitude step increment may be selected (the default is 500m). When the Expedition Year format is chosen, a year step increment may be selected (the default is 5 years). When the Age format is chosen, an age step increment and starting point may be selected (the default is 5 years). There are no increments available for the Season and Citizenship formats.

Order & Minimum Above BC

When the Citizenship format is chosen, the output order may be sorted by one of the orders below (the default is Country Name).

Country Name

Members Above BC

Ascents

Ascent Rate

Deaths

Death Rate

The output may be limited to nations with “n” members above BC.

Peak ID

Commercial/Std Routes (see “*Expedition Analysis*” above)

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Use of Hired Analysis
by Peak Altitude for CHOY (8188m) (1950-2016)

8188m	Totals Above BC						Ascents						Deaths					
	Total			w/o Hired			Total			w/o Hired			Total			w/o Hired		
	Total	Hired	Cnt	Total	Hired	Cnt	Total	Hired	Cnt	Total	Hired	Cnt	Total	Hired	Cnt	Total	Hired	Cnt
	6797	4898	1899	2625	38.62	1940	39.60	685	36.07	38	0.55	19	0.38	19	0.38	19	1.00	
Totals	6797	4898	1899	2625	38.62	1940	39.60	685	36.07	38	0.55	19	0.38	19	0.38	19	1.00	

Ascent totals exclude multiple seasonal ascents

01/07/2017 Use of Hired Analysis (The Himalayan Database)

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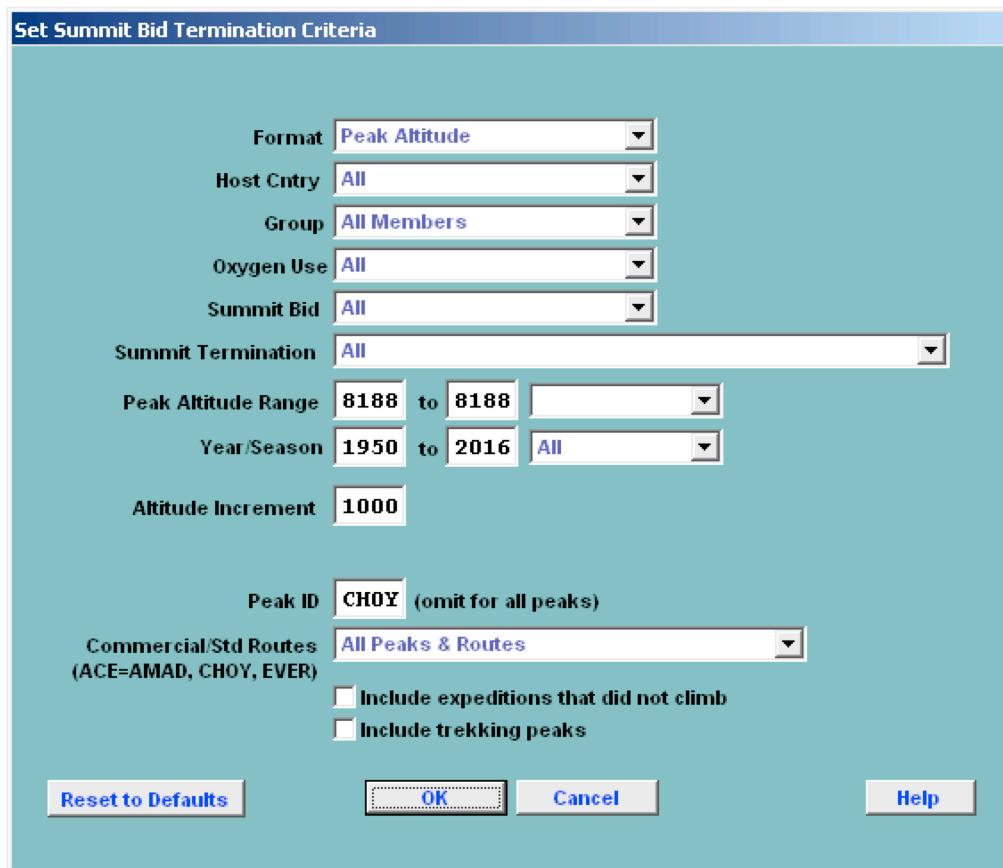
Use of Hired Analysis Output – By Peak Altitude

The above example analyzes the use of hired personnel for Cho Oyu from 1950 through 2016.

Termination Analysis

The Summit Bid Termination analysis analyzes the results of summit bids by members. The status of summit bids are given for each group in the printed report and the Excel export.

In the Analysis Criteria dialog box, select the criteria that you want:



The criteria options for the Summit Bid Termination analysis are:

Format – emphasis and format of output

Peak Altitude

Expedition Year

Season

Age

Citizenship

Host Cntry

All

Nepal

China

India

Group

All Members

Women Only

Men Only

Oxygen Use

All

Oxygen Used

No Oxygen Used

Summit Bid (see "*Death Analysis*" above)

Summit Termination (see "*Member & Gender Analysis*" above)

Peak Altitude Range

All Peaks

6000ers

7000ers

8000ers

mmmm to nnnn meter peaks

Year/Season – expedition year/season range

Altitude/Year/Age Increment & Age Starting Point

When the Peak Altitude format is chosen, an altitude step increment may be selected (default is 500m).

When the Expedition Year format is chosen, a year step increment may be selected (default is 5 years).

When the Age format is chosen, an age step increment and starting point may be selected (default is 5 years).

There are no increments available for Season and Citizenship.

Order

Country Name

Members Above BC

Ascents

Ascent Rate

Deaths

Death Rate

When the Citizenship format is chosen, the output order may be sorted by one of the orders below (default is Country Name).

Minimum Above BC

The output may be limited to nations with "n" members above BC.

Peak ID

Citizenship

The output may be limited to ascents by a single citizenship.

Commercial/Std Routes (see "*Expedition Analysis*" above)

Combinations (multiple selections) can be made for the Summit Bid and Summit Termination criteria. Clicking on the Combinations choice will bring up a Pick dialog, from which you can select multiple items.

Summit Bid Termination Analysis by Peak Altitude for CHOY (8188m) (1950-2016)						
			All Members			
			Reasons for Termination (only given in Excel output)			
Exped Cnt	Members Abv BC	No Smt Bid	Aborted Below High Camp	Aborted At High Camp	Successful	Unspecified
8188m	1277	1577	242	440	797	1115
Totals	1277	1577	242	440	797	1115
Member Above BC totals include unknown members						
Summit Bid Summary						
Cnt	Type	Cnt	Reason	Cnt	Reason	Cnt
1577	No summit bid	2626	Success	4	O2 System Failure	
242	Aborted below high camp	0	Success (Subpeak)	68	Route Difficulty, Intimidation or Insufficient Ability	
440	Aborted at high camp	827	Bad Weather (Storms, High Winds)	80	Too Late in Day or Too Slow	
797	Aborted above high camp	246	Bad Conditions (Deep Snow, Avalanches, Falling Rock/Ice)	77	Assisting, Guiding, Supporting or Accompanying Others	
2626	Successful bid	42	Accident (Death or Injury to Self or Others)	15	Route/Camp Preparation or Fixing Rope	
1115	Unspecified	288	Altitude (AMS Symptoms, Breathing or Unwell)	4	Insufficient Time Left for Expedition	
		443	Exhaustion, Fatigue, Weakness or Lack of Motivation	60	Did Not Climb or Intend to Smt	
		188	Frostbite, Snowblindness or Coldness	148	Other	
		283	Other Illnesses or Pains	229	Unknown	
		54	Lack of Supplies/Support or Equipment Problems	1115	Unspecified	

Termination Analysis Output – By Peak Altitude

The above example analyzes summit bid terminations for Cho Oyu from 1950 through 2016.