Attachments 1-5

Attachment 1: Respondent Demographics

Three hundred fifty-two surveys were used in the analyses. The table shows the distribution of respondents by economic region. Personal identifiers were not collected. Zip codes were used to approximate urban vs rural areas.

Respondents by Economic Region	Survey	Rural	Urban
(Based on Zip Codes)	Counts	Counts	Counts
Gulf Coast	168	7	7
Anchorage/Mat-Su	80	0	80
Southeast	42	42	0
Interior	27	12	15
Southwest	26	26	0
Northern	6	6	0
Not Reported	3		
TOTAL	352	250	102

Age

The mean age of respondents is 21, with a median age of 17. For analysis, a few surveys from respondents under 13 years old and over 65 years old were excluded.

Age of Survey Responde	ents
Mean	21.32
Median	17
Standard Deviation	10.610
Min/Max	13/65
Count	346

Gender

Gender was collected as free-form entry.

Gender	male	female	other	total
Count	171	161	14	346

School/Work Status School or work status includes 74% high school students, followed by high school graduates or GED completers. Some respondents belong to more than one category; some high school students or college students are also interns or in dual credit programs,

		Standard	Standard	Sample		
School/Work Status	Mean	Error	Deviation	Variance	Sum	Count
Mean = percent						
HS Student	0.739	0.0234	0.4396	0.1932	260	349
HS Graduate or GED	0.142	0.0186	0.3492	0.1219	50	349
College Student	0.082	0.0146	0.2750	0.0756	29	349
College Graduate	0.082	0.0146	0.2750	0.0756	29	349
Tech Train Student	0.048	0.0114	0.2144	0.0460	17	349
Dual Credit	0.045	0.0111	0.2083	0.0434	16	349
Not in School	0.040	0.0104	0.1954	0.0382	14	349
Apprentice	0.034	0.0097	0.1815	0.0329	12	349
Other	0.028	0.0088	0.1661	0.0276	10	349
Intern	0.025	0.0084	0.1578	0.0249	9	349
Tech Train Graduate	0.014	0.0063	0.1183	0.0140	5	349

and a number of the high school graduates are also "not in school." In general, a fair cross-section of respondents, with the desired emphasis on high school students, was obtained.

Attachment 2: Barriers Perceived by Respondents

Respondents identify these 14 barriers to their advancement on a career path in Alaska: FINANCES (51%), NEED SCHOLARSHIP/LOAN (32%), UNCERTAINTY (30%), NEED OTHER TRAINING/SKILLS (29%), HOUSING (24%), TRANSPORTATION (22%), NEED EMPLOYER (13%), NO SUPPORT (13%), NEED MENTOR (12%), CAN'T FIND TRAINING (12%), NO APPLICATION ASSISTANCE (11%), NO INTERNET (10%), NO INTERNSHIP (10%), and NO APPRENTICESHIP (8%).

Barriers Prevent Taking Desired Job Or Career Path	Mean	Standard Error	Standard Deviation	Sample Variance	Sum	N=
Mean = percent						
Finances	0.51	0.027	0.501	0.251	181	349
Need Scholarship/Loan	0.32	0.025	0.468	0.219	113	349
Uncertainty	0.30	0.024	0.458	0.210	105	349
Need other training/skills	0.29	0.024	0.456	0.208	103	349
Housing	0.24	0.023	0.429	0.184	85	349
Transportation	0.22	0.022	0.418	0.175	79	349
Need Employer	0.13	0.018	0.334	0.112	45	349
No support	0.13	0.018	0.341	0.116	47	349
Need Mentor	0.12	0.017	0.328	0.108	43	349
Can't find training	0.12	0.017	0.321	0.103	41	349
Application assistance	0.11	0.017	0.318	0.101	40	349
No Internet	0.10	0.016	0.296	0.088	34	349
No internship	0.10	0.016	0.300	0.090	35	349
No apprenticeship	0.08	0.014	0.267	0.071	27	349
Child Care	0.05	0.012	0.221	0.049	18	349
Elder Care	0.02	0.007	0.130	0.017	6	349
None	0.15	0.019	0.362	0.131	54	349

Attachment 3: Chi-Square Tests – Motivating Barriers: Rural vs Urban

URBAN VERSUS RURAL

	Act		
	Thought a lot about career and job opportunities.	No Thought a lot about career and job opportunities.	
URBAN	64	38	102
RURAL	135	108	243
	199	146	345

	Ехре		
	Thought a lot about career and job opportunities.	No Thought a lot about career and job opportunities.	
URBAN	58.83	43.17	102
RURAL	140.17	102.83	243
p=0.2174	199	146	345

	Act		
	Finances	L	
URBAN	57	45	102
RURAL	70	173	243
	127	218	345

	Ехре		
	Finances	No Finances	
URBAN	37.55	64.45	102
RURAL	89.45	153.55	243
p=0.0000	127	218	345

	Act		
	Need Child Care	No Need Child Care	
URBAN	13	89	102
RURAL	5	238	243
	18	327	345

	Ехре			
	Need Child Care			
URBAN	5.32	96.68	102	
RURAL	12.68	230.32	243	
p=0.0000	18	327	345	

	Act		
	Internet	No Internet	
URBAN	68	34	102
RURAL	123	120	243
	191	154	345

	Expected		
	Internet	No Internet	
URBAN	56.47	45.53	102
RURAL	134.53	108.47	243
p=0.0062	191	154	345

	Ехре		
	Need	No Need	
	Transportation	Transportation	
URBAN	23.06	78.93	102
RURAL	54.93	188.06	243
p=0.4071	78	267	345

	Expected		
	No Need		
	Need Housing	Housing	
URBAN	34.29	67.70	102
RURAL	81.70	161.29	243
p=0.0383	116	229	345

	Expected		
	Not No		
	No support	support	i.
URBAN	13.60	88.40	102
RURAL	32.40	210.60	243
p=0.0609	46	299	345

	Expected		
		Not	
	Uncertainty	Uncertainty	
URBAN	18.33	83.66	102
RURAL	43.66	199.33	243
p=0.0000	62	283	345

	Expected		
	No Need		
	Need Mentor	Mentor	
URBAN	12.53	87.46	100
RURAL	30.46	212.53	243
p=0.0204	43	300	343

	Expected		
	Need other training or skills	No Need other training or skills	
URBAN	22.46	79.53	
RURAL	53.53	189.46	
p=0.2032	76	269	

	Actual		
	Need No Need		
	Transportation	Transportation	
URBAN	26	76	102
RURAL	52	191	243
	78	267	345

	Actual		
	No Need		
	Need Housing	Housing	
URBAN	26	76	102
RURAL	90	153	243
	116	229	345

	Actual		
	Not No		
	No support	support	
URBAN	19	83	102
RURAL	27	216	243
	46	299	345

	Actual		
	Not		
	Uncertainty	Uncertainty	
URBAN	36	66	102
RURAL	26	217	243
	62	283	345

	Actual		
	Need Mentor	Mentor	
URBAN	19	81	100
RURAL	24	219	243
	43	300	343

	Actual		
	Need other training or skills	No Need other training or skills	
URBAN	18	84	102
RURAL	58	185	243
	76	269	345

	Actual		
		No Move	
	Move to	to other	
	other state	state or	
	or country.	country.	
URBAN	63	39	102
RURAL	153	90	243
	216	129	345

Actual

	Need Scholarship/Loan	No Need Scholarship/Loan	
URBAN	35	67	102
RURAL	74	169	243
	109	236	345

	Actual		
	Need Elder Care	No Need Elder Care	
URBAN	3	99	102
RURAL	3	240	243
	6	339	345

	Actual		
	Need internship	No Need internship	
URBAN		91	102
RURAL	19	224	243
	30	315	345

	Actual		
	Need Employer	No Need Employer	
URBAN	19	83	102
RURAL	25	218	243
	44	301	345

	Expected		
	Move to other state or country.	No Move to other state or country.	
URBAN	63.86	38.13	102
RURAL	152.13	90.86	243
p=0.8337	216	129	345

Expected

	Need	No Need	
	Scholarship/Loan	Scholarship/Loan	
URBAN	32.22	69.77	102
RURAL	76.77	166.22	243
p=0.4815	109	236	345

Expected		
Need Elder Care	No Need Elder Care	
1.77	100.22	102
4.22	238.77	243
6	339	345
	Need Elder Care 1.77 4.22	Need Elder CareNo Need Elder Care1.77100.224.22238.77

	Expected		
	Need internship	No Need internship	
URBAN	8.86	93.13	102
RURAL	21.13	221.86	243
p=0.3724	30	315	345

	Expected		
	Need Employer	No Need Employer	
URBAN	13.00	88.99	102
RURAL	30.99	212.00	243
p=0.0341	44	301	345

	Expected		
	Need	No Need	
	apprenticeship	apprenticeship	
URBAN	7.68	94.31	102
RURAL	18.31	224.68	243
p=0.0539	26	319	345

	Ехре		
	No issue		
	Can't find	find	
	training	training	l
URBAN	11.82	90.17	102
RURAL	28.17	214.82	243
p=0.2422	40	305	345

	Expe		
	No	Not No	
	assistance with	assistance with	
	applications	applications	
URBAN	11.53	90.46	102
RURAL	27.46	215.53	243
p=0.8611	39	306	345

	Ехре		
	No advisor support	Not No advisor support	
URBAN	13.00	88.99	102
RURAL	30.99	212.00	243
p=0.7213	44	301	345

	Ехре		
	None	Not None	
URBAN	15.96	86.03	102
RURAL	38.03	204.96	243
p=0.0097	54	291	345

	Act		
	Need	No Need	
	apprenticeship	apprenticeship	
URBAN	12	90	102
RURAL	14	229	243
	26	319	345

	Act		
	Can't find	find	
	training	training	I
URBAN	15	87	102
RURAL	25	218	243
	40	305	345

Act		
No assistance with applications	Not No assistance with applications	
12	90	102
27	216	243
39	306	345
	No assistance with applications 12 27	assistance withassistance withapplicationsapplications129027216

	Actual		
	No advisor support		
URBAN	12	90	102
RURAL	32	211	243
	44	301	345

	Actual		
	None	Not None	
URBAN	8	94	102
RURAL	46	197	243
	54	291	345

Attachment 4: Chi-Square Tests – *Methods of Looking at Careers and Thinking of Leaving Alaska*

Some methods of looking into careers and/or job opportunities are associated with increased or decreased likelihood of respondents thinking about leaving the state. The totality of the method options considered in this report are presented in Chi-square comparisons below. All those related to exploring career/jobs options Q2 are included, along with a few others that may be of interest. Most of those which are significant are discussed in the body of the report.

	Ac	tual			Expe	cted	
	Job Fair	No Fair			Job Fair	No Fair	
LEAVE	46	169	215	LEAVE	53.75	161.25	
STAY	40	89	129	STAY	32.25	96.75	
	86	258	344	p= 0.046	86	258	
	Act	ual			Ехре	cted	
		No				No	
	Counselors	Counselors			Counselors	Counselors	
LEAVE	69	146	215	LEAVE	63.125	151.875	
STAY	32	97	129	STAY	37.875	91.125	
	101	243	344	p= 0.151	101	243	
	Act	ual			Ехре	cted	
	Career	No Career			Career	No Career	
	Course	Course			Course	Course	_
LEAVE	40	175	215		26.25	170 75	
		175	215	LEAVE	36.25	178.75	
STAY	18	173	215 129	STAY	21.75	178.75	
STAY							
STAY	18	111	129	STAY	21.75	107.25	
STAY	18 58	111	129	STAY	21.75 58	107.25 286	
STAY	18 58	111 286	129	STAY	21.75 58 <i>Expect</i>	107.25 286	
STAY	18 58 Act	111 286	129	STAY	21.75 58 <i>Expect</i> School N	107.25 286 ted	
STAY	18 58 Act School to	111 286 :ual No School	129	STAY	21.75 58 <i>Expect</i> School N	107.25 286 t <i>ed</i> o School	
	18 58 Act School to Work	111 286 :ual No School to Work	129 344	sтау p= 0.265	21.75 58 <i>Expect</i> School N to Work t	107.25 286 ted o School :o Work	
LEAVE	18 58 Act School to Work 53	111 286 wo School to Work 162	129 344 215	STAY p= 0.265 LEAVE	21.75 58 <i>Expect</i> School N to Work t 56.88	107.25 286 ted o School to Work 158.13	
LEAVE	18 58 Act School to Work 53 38	111 286 wo School to Work 162 91	129 344 215 129	STAY p= 0.265 LEAVE STAY	21.75 58 Expect School N to Work t 56.88 34.125	107.25 286 ted o School :o Work 158.13 94.875	
LEAVE	18 58 Act School to Work 53 38 91	111 286 wo School to Work 162 91 253	129 344 215 129	STAY p= 0.265 LEAVE STAY	21.75 58 Expect School N to Work t 56.88 34.125 91	107.25 286 ted o School co Work 158.13 94.875 253	
LEAVE	18 58 Act School to Work 53 38 91	111 286 wo School to Work 162 91	129 344 215 129	STAY p= 0.265 LEAVE STAY	21.75 58 Expect School N to Work t 56.88 34.125	107.25 286 ted o School co Work 158.13 94.875 253	
LEAVE	18 58 Act School to Work 53 38 91	111 286 No School to Work 162 91 253	129 344 215 129	STAY p= 0.265 LEAVE STAY	21.75 58 Expect School N to Work t 56.88 34.125 91	107.25 286 c 286 c School co Work 158.13 94.875 253 ccted	
LEAVE	18 58 Act School to Work 53 38 91 Act Ask	111 286 No School to Work 162 91 253	129 344 215 129	STAY p= 0.265 LEAVE STAY	21.75 58 Expect School N to Work t 56.88 34.125 91 <i>Expe</i>	107.25 286 ced o School co Work 158.13 94.875 253 ccted No Ask	2

p= 0.154	185 159		344
	Ехре		
		No	
	Internet	Internet	
LEAVE	119.38	95.63	215
STAY	71.63	57.38	129
p= 0.005	191	153	344

	Ехре		
	Ask friends	No Ask friends	
LEAVE	84.53	132.47	217
STAY	49.47	77.53	127
p= 0.029	134	210	344

	Ехре		
	heard	no heard	
	about	about	
	apprentice	apprentice	
	ships	ships	
LEAVE	32.70	192.30	225
STAY	17.30	101.70	119
p= 0.019	50	294	344

	Ехре		
		No AK	
	AK Perform	Perform	
	Scholarship	Scholarship	
LEAVE	75.625	139.375	215
STAY	45.375	83.625	129
p= 0.210	121	223	344

	Expected		
	Military	No Military	
LEAVE	20.2	181.8	202
STAY	12.8	115.2	128
p= 0.940	33	297	330

	185	159	344
	Act	ual	
		No	
	Internet	Internet	
LEAVE	132	83	215
STAY	59	70	129
	191	153	344

	Act		
	Ask friends	No Ask friends	
LEAVE	75	142	217
STAY	59	68	127
	134	210	344

	Actual		
	heard	no heard	
	about	about	
	apprentice ships	apprentice ships	
	-	•	l
LEAVE	40	185	225
STAY	10	109	119
	50	294	344

	Actual		
		No AK	
	AK Perform	Perform	
	Scholarship	Scholarship	
LEAVE	81	134	215
STAY	40	89	129
	121	223	344

	Actual		
	Military	No Military	
LEAVE	20	182	202
STAY	13	115	128
	33	297	330

	Expected		
	Elective	No Elective	
	Courses in HS	Courses in HS	
LEAVE	85.625	129.375	215
STAY	51.375	77.625	129
p= 0.932	137	207	344

	Ехре		
	Heard	No Heard	
	about	about	
	internships	internships	
	in school	in school	
LEAVE	33.75	181.25	215
STAY	20.25	108.75	129
p= 0.818	54	290	344

	Expected		
		Not HS	
	HS Student	Student	
LEAVE	158.13	56.88	215
STAY	94.88	34.13	129
p= 0.138	253	91	344

	Expected		
	Employed FT	Not Employed FT	
LEAVE	33.75	181.25	215
STAY	20.25	108.75	129
p= 0.078	54	290	344

	Expected		
	Not Employed	Employed FT or PT	
LEAVE	88.13	126.88	215
STAY	52.88	76.13	129
p= 0.479	141	203	344

	Actual		
	Elective	No Elective	
	Courses in HS	Courses in HS	
LEAVE	86	129	215
STAY	51	78	129
	137	207	344

	Actual		
		No Heard	
	Heard about	about	
	internships in	internships	
	school	in school	
LEAVE	33	182	215
STAY	21	108	129
	54	290	344

	Actual		
		Not HS	
	HS Student	Student	L
LEAVE	164	51	215
STAY	89	40	129
	253	91	344

	Actual		
		Not	
	Employed FT	Employed FT	
LEAVE	28	187	215
STAY	26	103	129
	54	290	344

	Actual		
	Not Employed	Employed FT or PT	
LEAVE	85	130	215
STAY	56	73	129
	141	203	344

	Expected		
	Seeking	Not seeking	
	Employment	employment	i.
LEAVE	50.63	164.38	215
STAY	30.38	98.63	129
p= 0.491	81	263	344

	Expe	ected	
	studies	studies not	
	useful in	useful in	
	your future	your future	
	career/job?	career/job?	
LEAVE	169.28	43.72	213
STAY	101.72	26.28	128
p= 0.191	271	70	341

	Expected		
	Complete	Not complete	
	training or	training or	
	education in	education in	
	AK	AK	
LEAVE	105.63	109.38	215
STAY	63.38	65.63	129
p= 0.000	169	175	344

	Expected		
	Age > 21	Age <=21	
LEAVE	50.63	164.38	215
STAY	30.38	98.63	129
p= 0.024	81	263	344

	Actual		
	Seeking Employment	Not seeking employment	
	Employment	employment	
LEAVE	48	167	215
STAY	33	96	129
	81	263	344

	Actual		
		studies not	
	studies useful	useful in your	
	in your future	future	
	career/job?	career/job?	1
LEAVE	174	39	213
STAY	97	31	128
	271	70	341

	Actual		
	Complete training or	Not complete training or	
	education in	education in	
	AK	AK	
LEAVE	80	135	215
STAY	89	40	129
	169	175	344

	Actual		
	Age > 21	Age <=21	
LEAVE	42	173	215
STAY	39	90	129
	81	263	344

Attachment 5: Chi-Square Tests – AKCIS and Methods of Looking at Careers/Jobs

AKCIS was not widely recognized by respondents. However, it was significantly associated with several key methods for engaging students, young adults, and job seekers with career opportunities, some of which were shown to be associated with a lower likelihood of respondents thinking about leaving Alaska. All Chi-square results are presented, regardless of association.

	Actu	al			Ехрес	ted	
	Job Fairs	No Job Fairs			Job Fairs	No Job Fairs	
AKCIS	16	19	35	AKCIS	8.775	26.225	35
NO AKCIS	72	244	316	NO AKCIS	79.225	236.775	316
	88	263	351	p= 0.003	88	263	351
	Actu	ual			Expe	cted	
	Career	No Career			Career	No Career	
	Course	Course			Course	Course	1
AKCIS	14	21	35	AKCIS	5.783	29.217	35
NO AKCIS	44	272	316	NO AKCIS	52.217	263.783	316
	58	293	351	p= 0.000	58	293	351
	Actu	al			Expe	ected	
	Yes heard about apprenticesh ips in school	No heard about apprentice ships in school			Yes heard about apprentices hips in school	No heard about apprentices hips in school	
AKCIS	about apprenticesh	about apprentice ships in	35	AKCIS	Yes heard about apprentices hips in	No heard about apprentices hips in	35
AKCIS NO AKCIS	about apprenticesh ips in school	about apprentice ships in school	35 316	AKCIS NO AKCIS	Yes heard about apprentices hips in school	No heard about apprentices hips in school	35 316
	about apprenticesh ips in school 13	about apprentice ships in school 22			Yes heard about apprentices hips in school 4.986 45.014	No heard about apprentices hips in school 30.014	
	about apprenticesh ips in school 13 37 50	about apprentice ships in school 22 279 301	316	NO AKCIS	Yes heard about apprentices hips in school 4.986 45.014	No heard about apprentices hips in school 30.014 270.986 301	316
	about apprenticesh ips in school 13 37	about apprentice ships in school 22 279 301	316	NO AKCIS	Yes heard about apprentices hips in school 4.986 45.014	No heard about apprentices hips in school 30.014 270.986	316
	about apprenticesh ips in school 13 37 50	about apprentice ships in school 22 279 301	316	NO AKCIS	Yes heard about apprentices hips in school 4.986 45.014	No heard about apprentices hips in school 30.014 270.986 301	316
	about apprenticesh ips in school 13 37 50 50	about apprentice ships in school 22 279 301 301	316	NO AKCIS	Yes heard about apprentices hips in school 4.986 45.014 50 Expe	No heard about apprentices hips in school 30.014 270.986 301	316
NO AKCIS	about apprenticesh ips in school 13 37 50 50 Act Counselors	about apprentice ships in school 22 279 301 301	316 351	NO AKCIS p= 0.000	Yes heard about apprentices hips in school 4.986 45.014 50 50	No heard about apprentices hips in school 30.014 270.986 301 301	316 351

	Act		
	Yes, Heard	No, Heard	
	About Alaska	About Alaska	
	Performance	Performance	
	Scholarship	Scholarship	
AKCIS	8	27	35
NO AKCIS	113	203	316
	121	230	351

	Actual		
		No Ask	
	Ask Family	Family	
AKCIS	15	20	35
NO AKCIS	174	142	316
	189	162	351

	Actu		
	Yes heard	No heard	
	about	about	
	internships in school	internships in school	
AKCIS	6	29	35
NO AKCIS	47	269	316
	53	298	351

	Actual		
	School to Work	No School to Work	
AKCIS	15	20	35
NO AKCIS	119	197	316
	134	217	351

	Actual		
	Internet	No Internet	
AKCIS	16	19	35
NO AKCIS	178	138	316
	194	157	351

Expe		
Yes, Heard	No, Heard	
About Alaska	About Alaska	
Performance	Performance	
Scholarship	Scholarship	
12.066	22.934	35
108.934	207.066	316
121	230	351
	Yes, Heard About Alaska Performance Scholarship 12.066 108.934	About Alaska Performance ScholarshipAbout Alaska Performance Scholarship12.06622.934108.934207.066

	Expected		
		No Ask	
	Ask Family	Family	
AKCIS	18.846	16.154	35
NO AKCIS	170.154	145.846	316
p= 0.169	189	162	351

Expe		
Yes heard	No heard	
about	about	
•	•	
in school	in school	1
5.285	29.715	35
47.715	268.285	316
53	298	351
	Yes heard about internships in school 5.285 47.715	aboutaboutinternshipsinternshipsin schoolin school5.28529.71547.715268.285

	Expe		
	School to Work	No School to Work	
AKCIS	13.36	21.64	35
NO AKCIS	120.64	195.36	316
p= 0.548	134	217	351

	Expe		
	Internet	Internet	
AKCIS	19.345	15.655	35
NO AKCIS	174.655	141.345	316
p= 0.231	194	157	351

		Actual				Expected		
		Taken	No Taken				No Taken	
		Elective	Elective			Taken Elective	Elective	
		Courses in	Courses in			Courses in	Courses in	
		High School	High School	-		High School	High School	
A	KCIS	11	24	35	AKCIS	14.060	20.940	35
NO	AKCIS	130	186	316	NO AKCIS	126.940	189.060	316
		141	210	351	0.2662	141	210	351