This project is funded by a Rapid Response National Science Foundation grant #2032790, #2032787, and #2032787.

2020 COVID-19 RAPID Response: *Pandemic Preparedness in Remote Rural Fishing Communities Facing Rapid, Massive, Seasonal In-Migration*

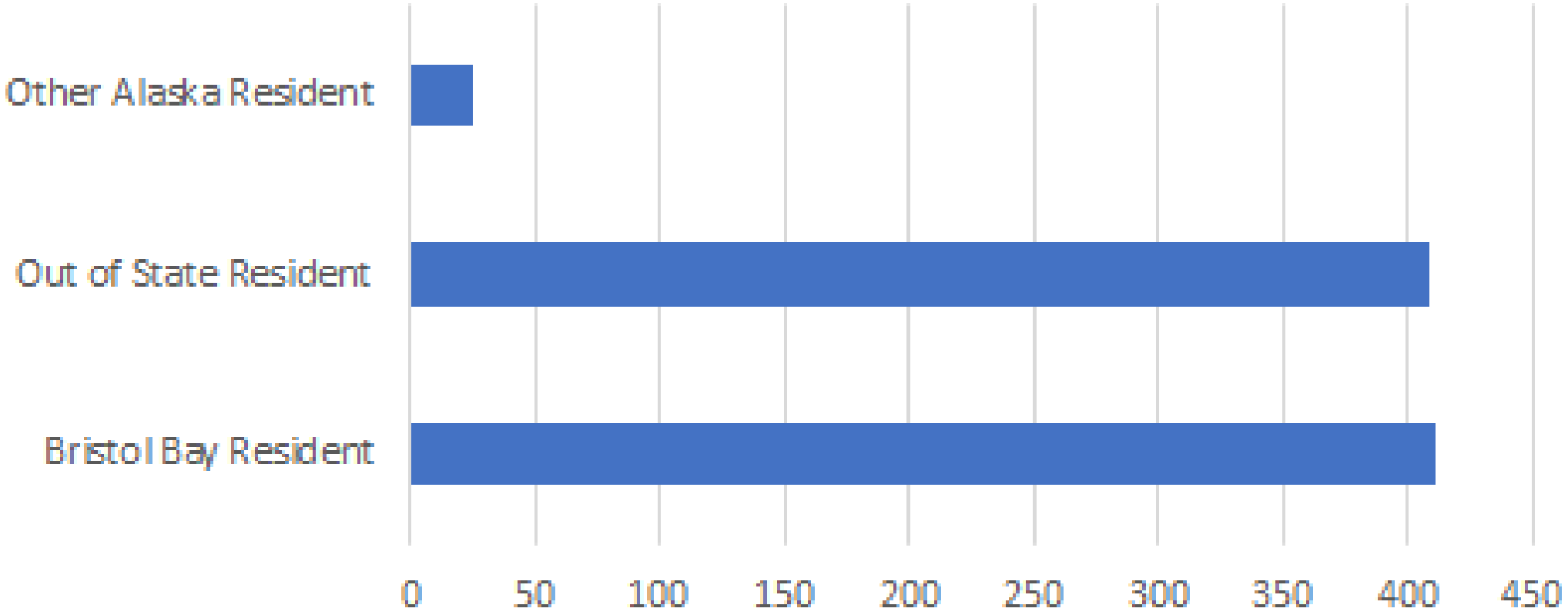
May 2021 Bristol Bay Data

- In late April and early May 2021 we conducted a follow-up survey with the 926 survey respondents from our summer 2020 survey.
- About 850 people completed a survey.
- Survey #2 asked similar questions as Survey #1 with the exception of asking several vaccine / vaccine hesitancy related questions.
- Incentives between survey #1 and survey #2 were identical; respondents received an Amazon gift card valued between $5 and $30 depending on responses.

Survey overview (30 minutes)

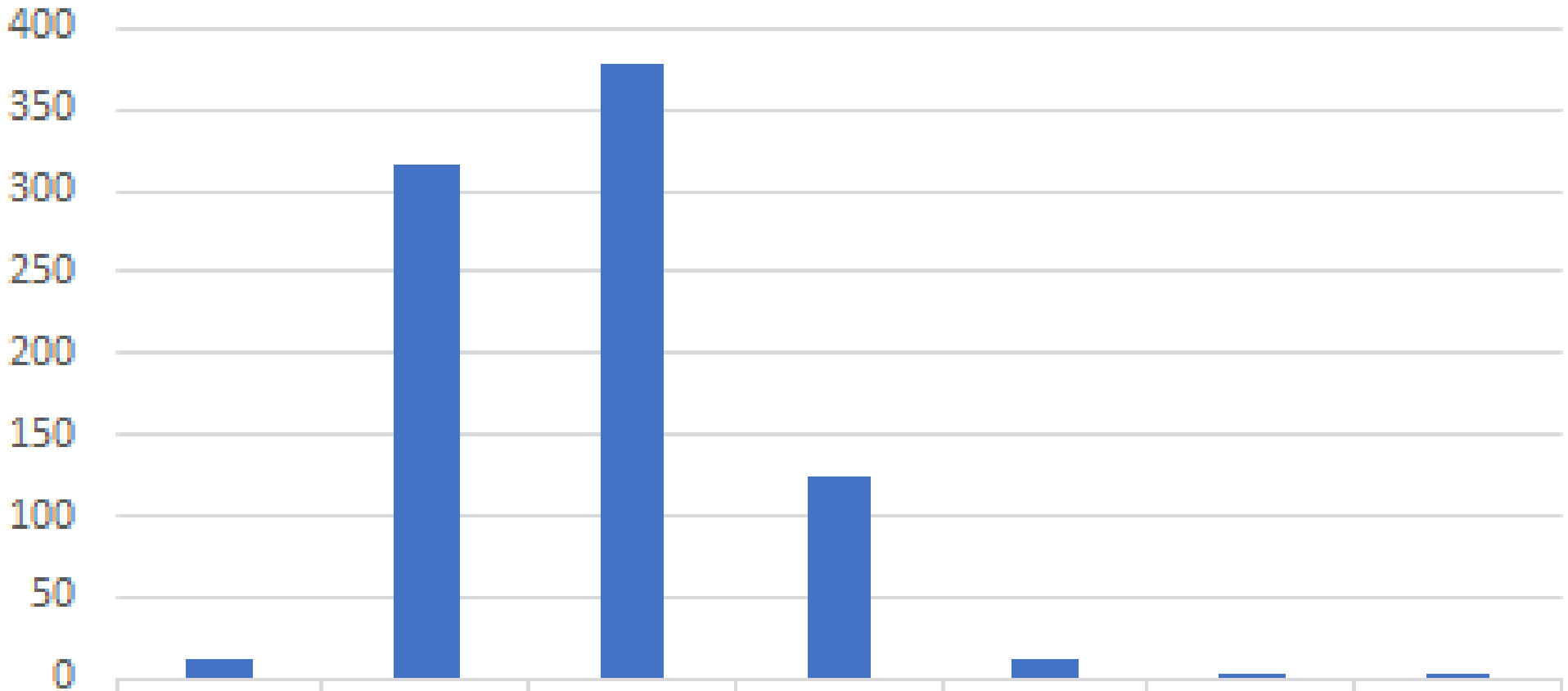
- Basic demographics / survey respondents
- Labor force information
- Health information
- Satisfaction with government policy
- COVID-19 related policy questions

2021 Total Respondents (N=846)



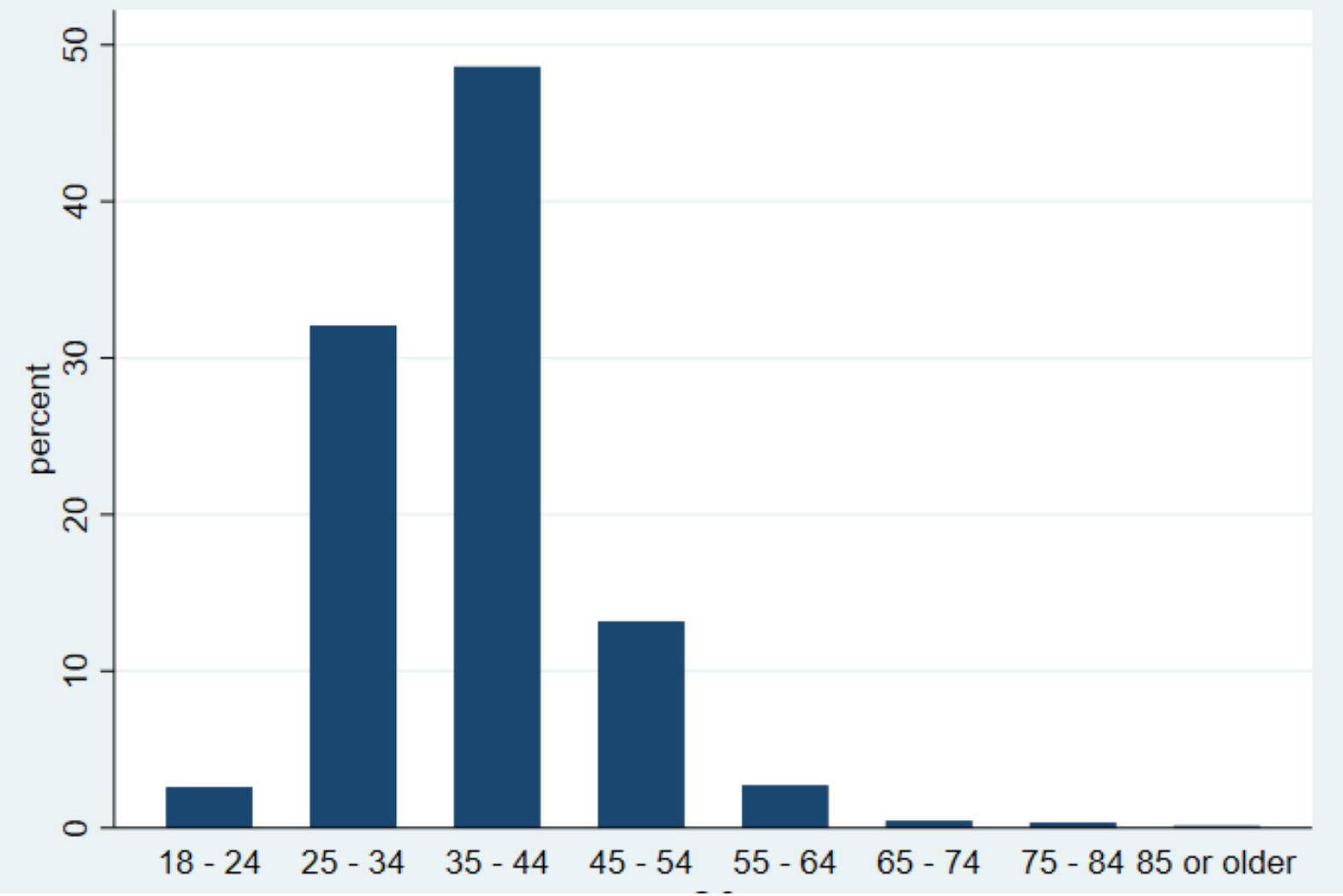
	Bristol Bay Resident	Out of State Resident	Other Alaska Resident
Respondents	412	409	25

Age Groups of Respondents



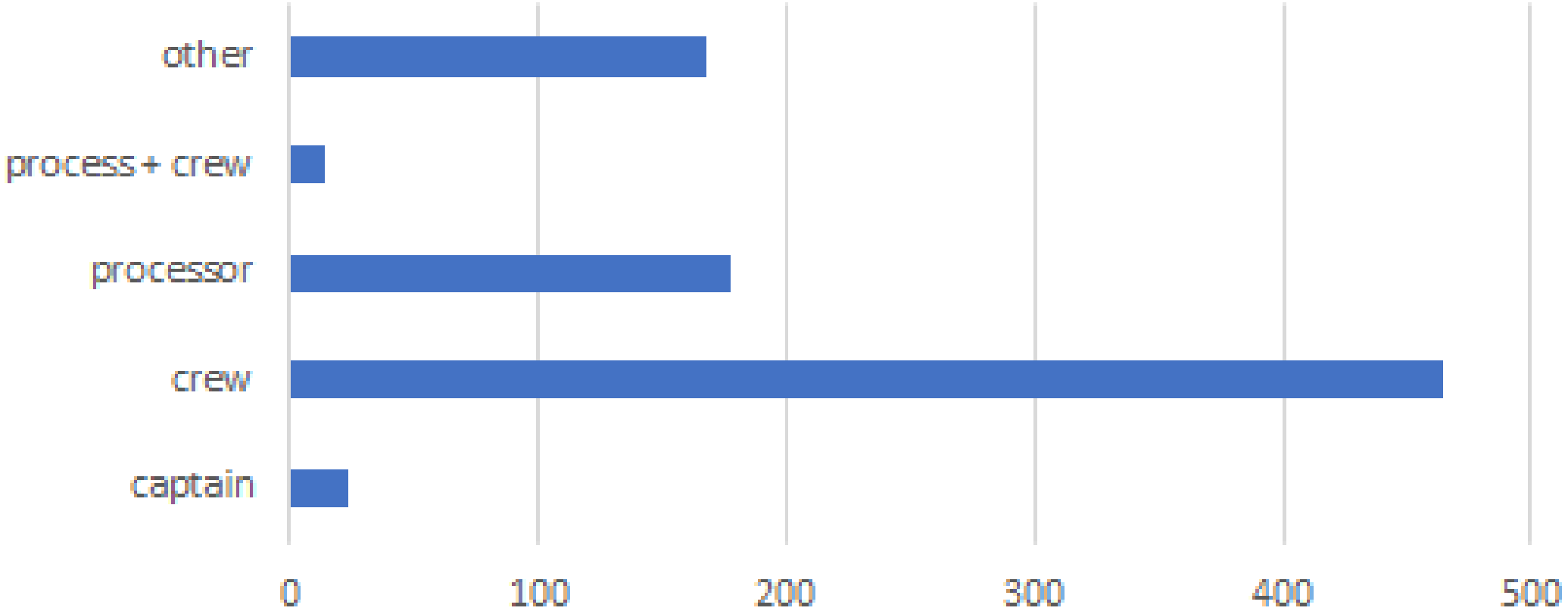
	18 - 24	25 - 34	35 - 44	45 - 54	55 - 64	65 - 74	or older
Age Freq.	12	317	378	124	13	1	1

Basic Demographics : age in 2020 survey



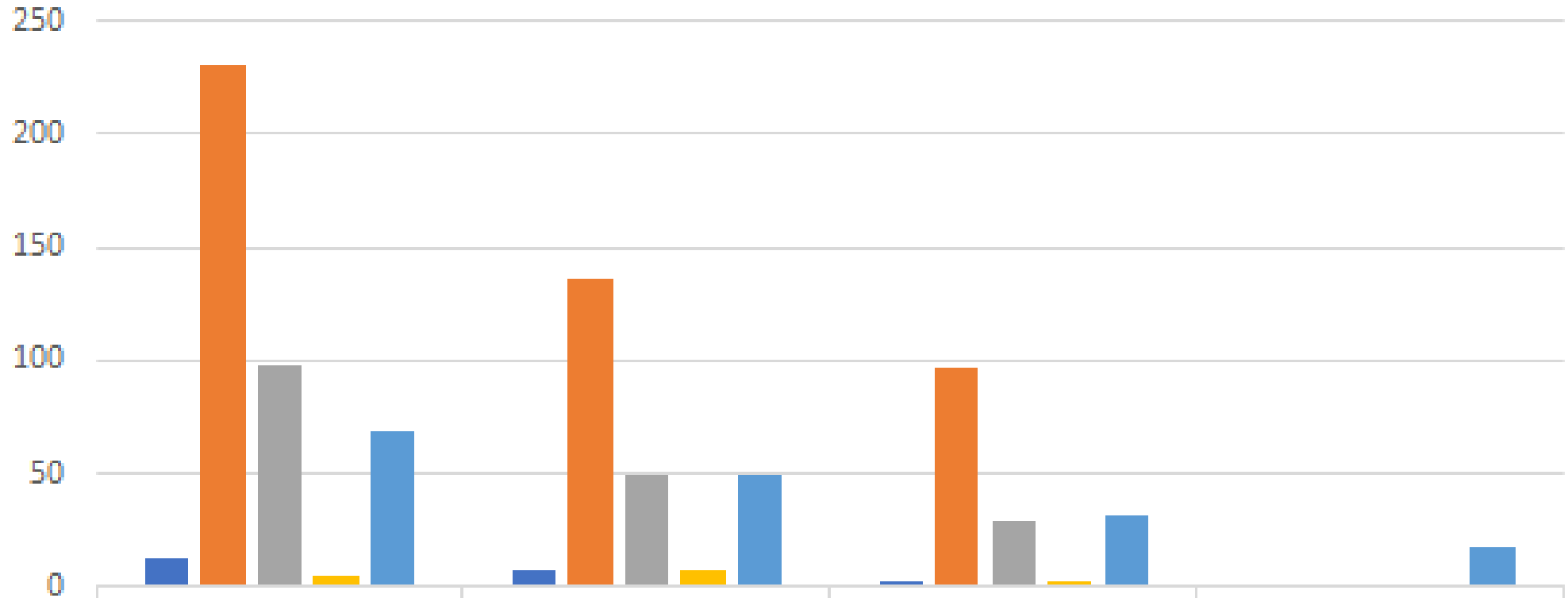
N=926

Response by Occupation

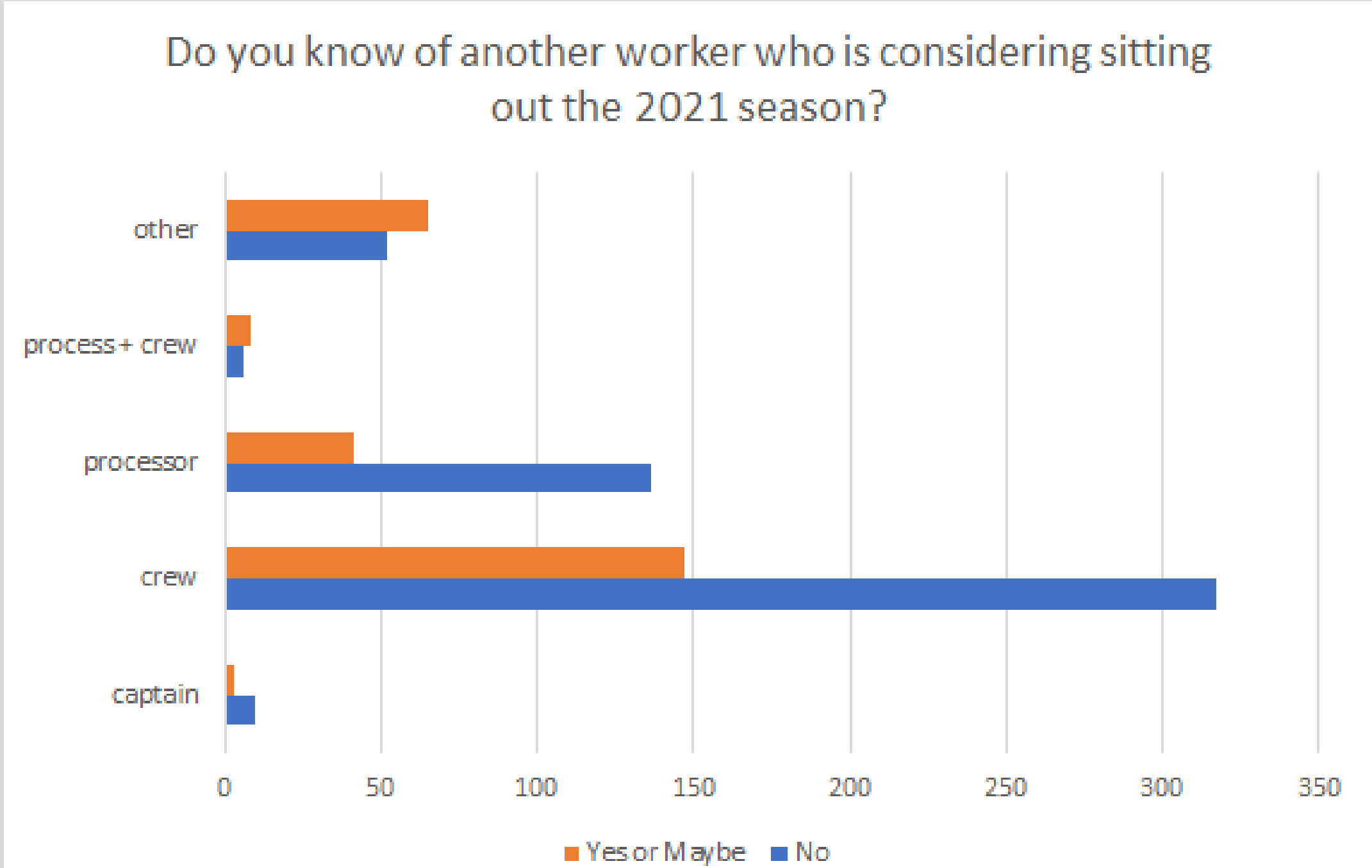


	captain	crew	processor	process+ crew	other
Total	23	464	177	14	168

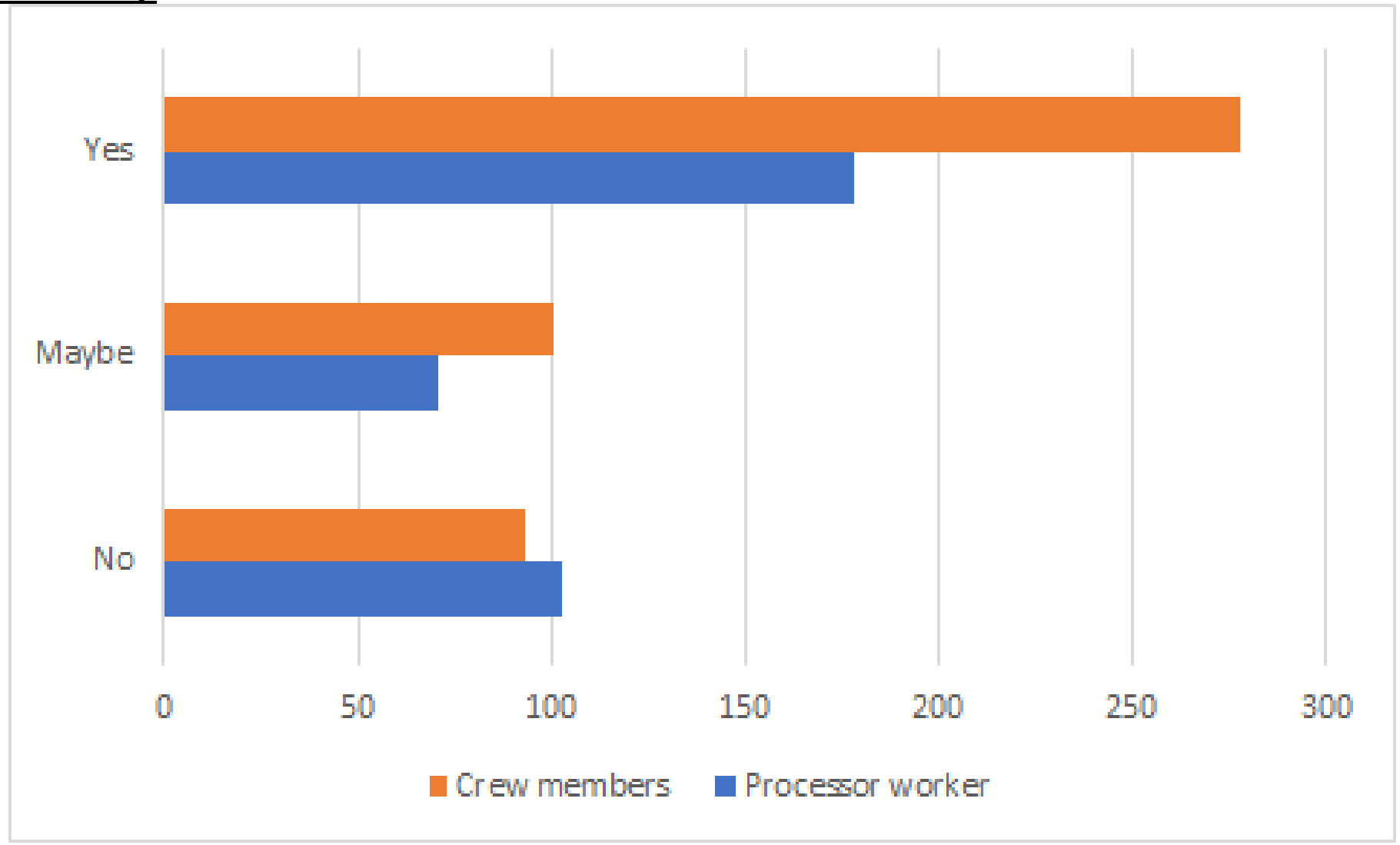
Home Port by Job Type



	Dillingham	King Salmon	Naknek	NA
captain	13	7	2	1
crew	230	136	97	1
processor	98	50	29	0
process+ crew	5	7	2	0
other	69	50	32	17


Do you know of another worker who is considering sitting out the 2021 season?
other
process + crew
processor
crew
captain
0
50
100
150
200
250
300
350
Yes or Maybe
No

Do you know of another worker from the boat /processing plant who decided to sit out this season due to health risks related to COVID-19?
2020 survey



Survey overview

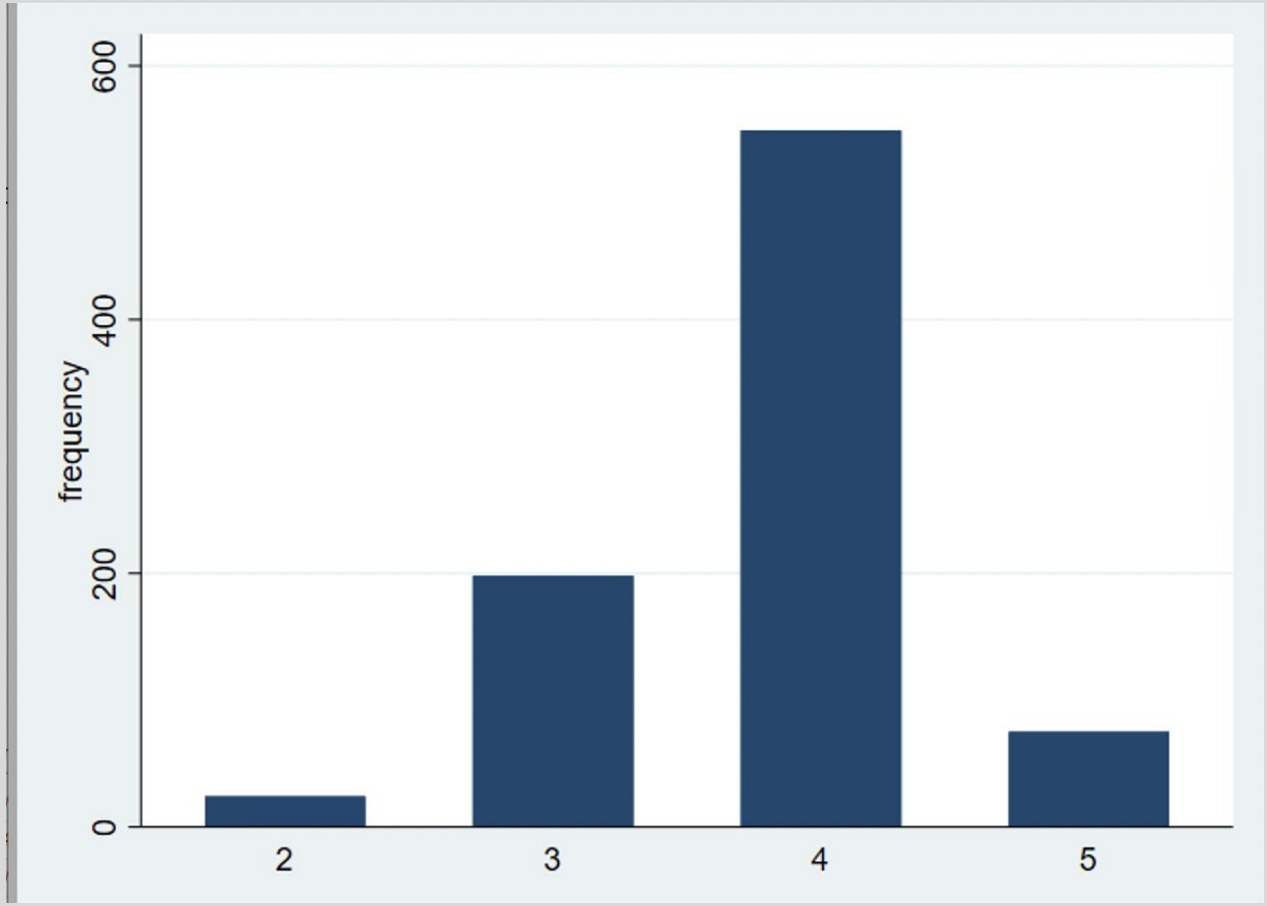
- Basic demographics / survey respondents
- Labor force information
- Health and Vaccination information
- Satisfaction with government policy
- COVID-19 related policy questions

Vaccination Questions

- We asked several questions about vaccination status and vaccination hesitancy
- All vaccine related questions were taken from the US Census Household Pulse Survey

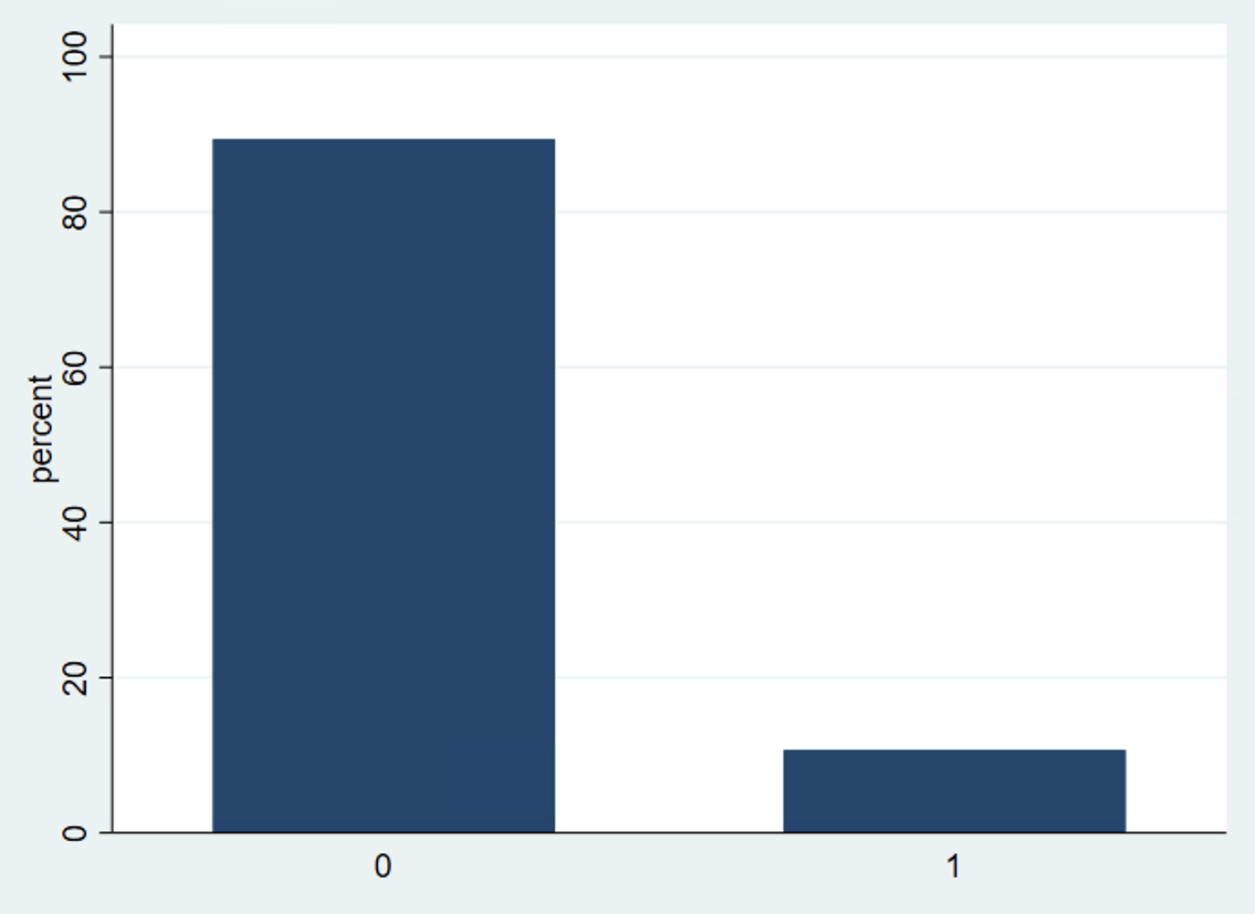
  https://www.census.gov/programs-surveys/household-pulse-survey.html

2021 Health Info – Overall

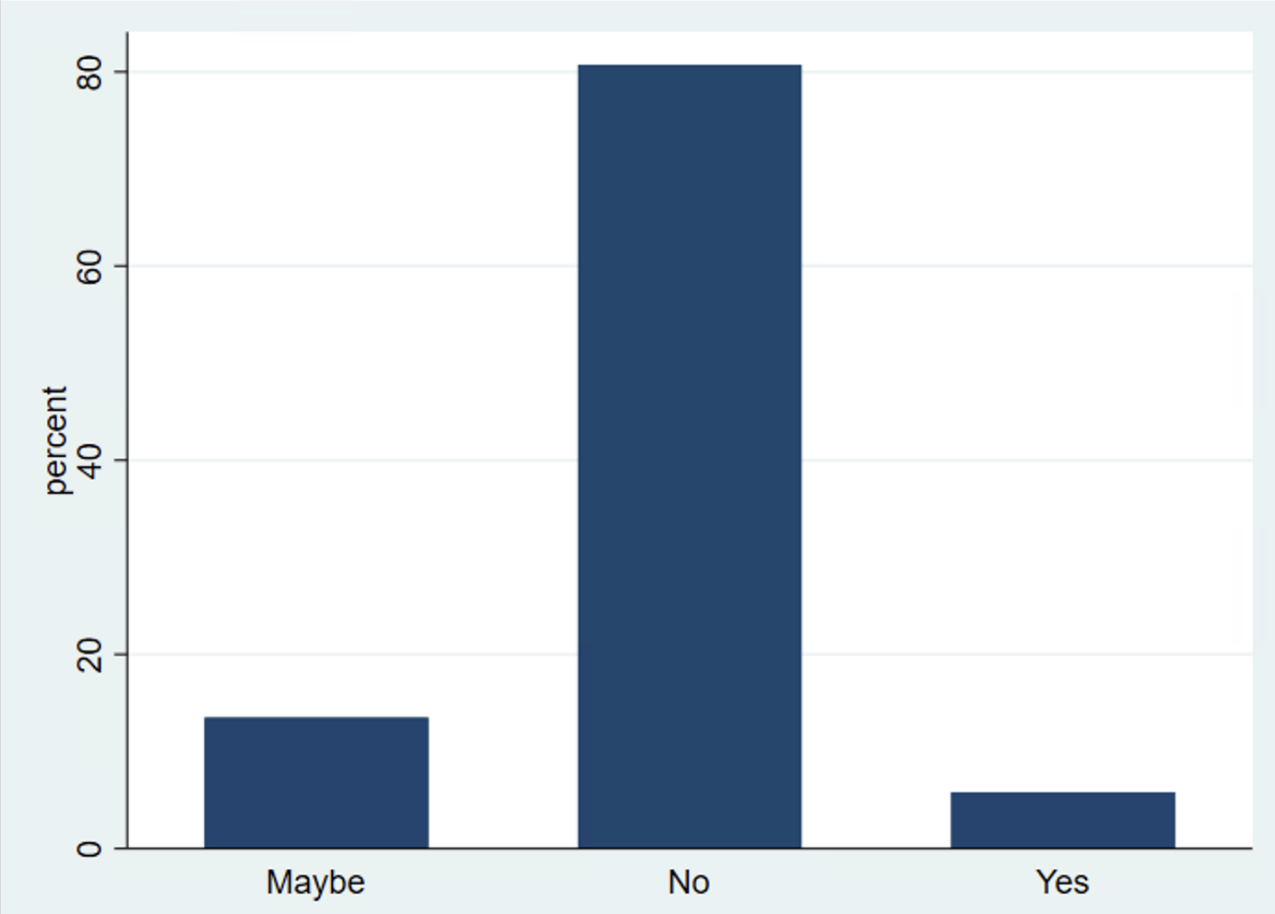


overall_health	Freq.	Percent	Cum.
2	24	2.84	2.84
3	198	23.40	26.24
4	549	64.89	91.13
5	75	8.87	100.00
Total	846	100.00	

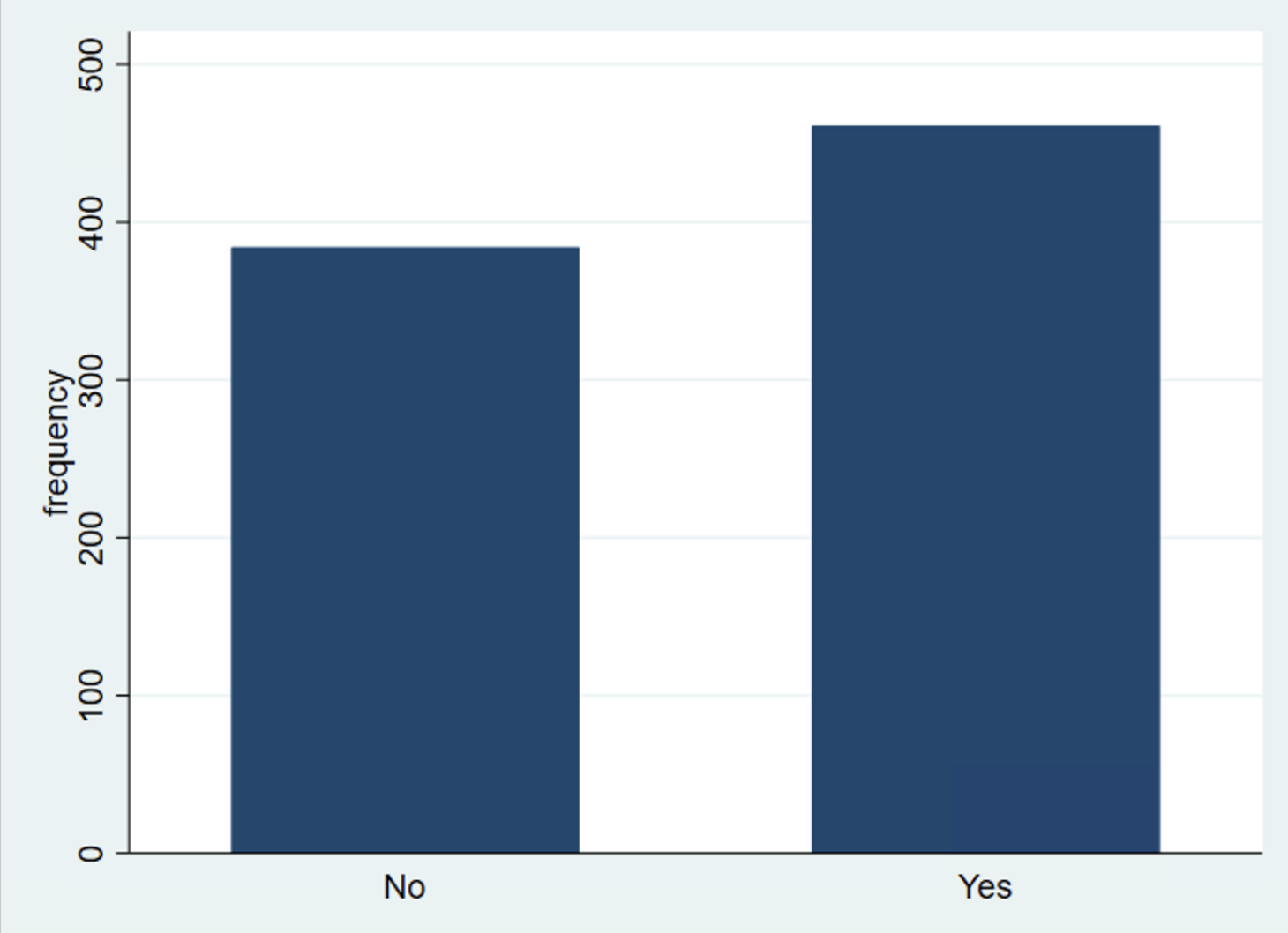
2021 Health information: pre-existing conditions (n=846)



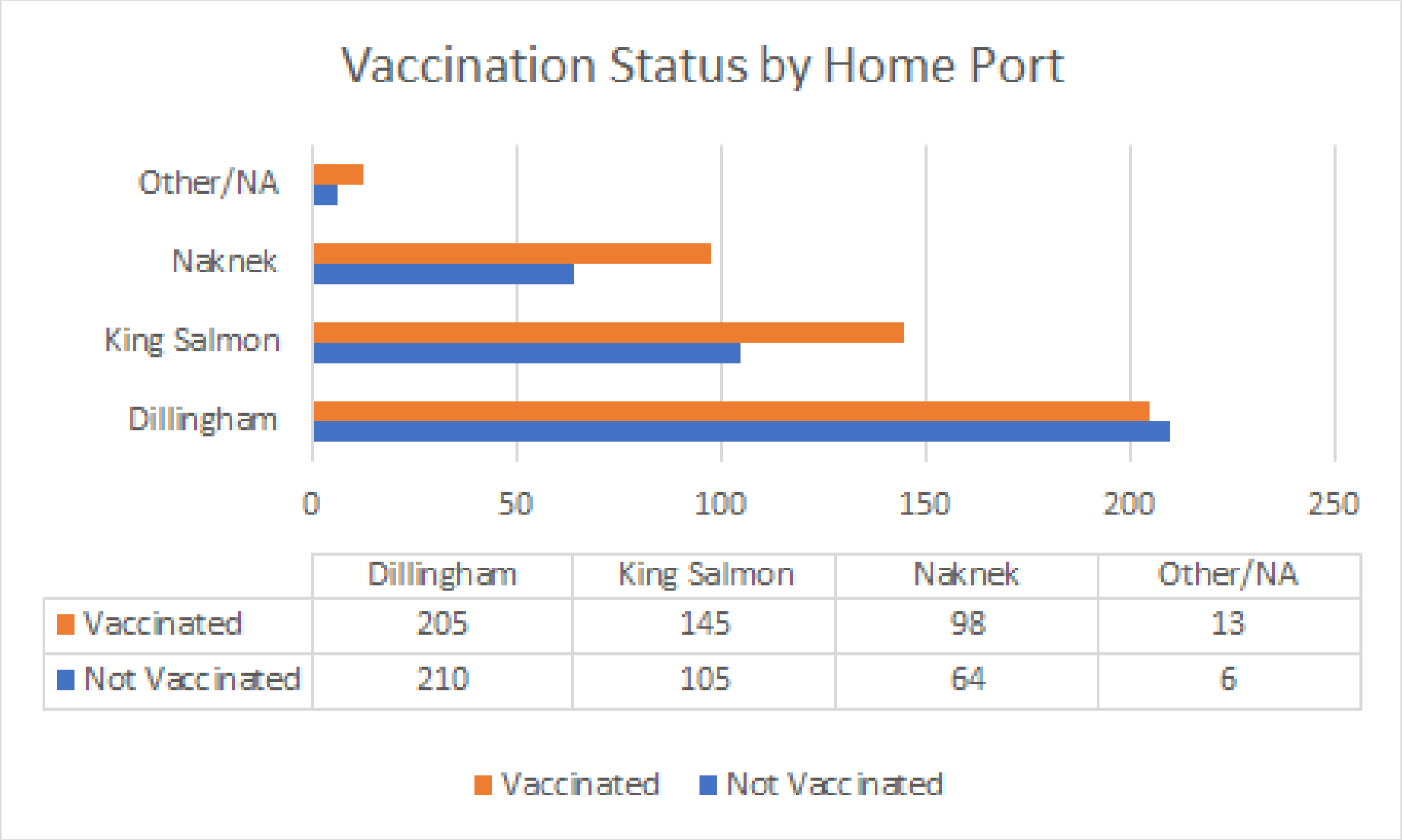
2021 Health information : do you live with someone with pre-existing condition?



2021 Have you received a COVID-19 vaccine? No = 385 and Yes = 461, as of approx. 5/1/2021

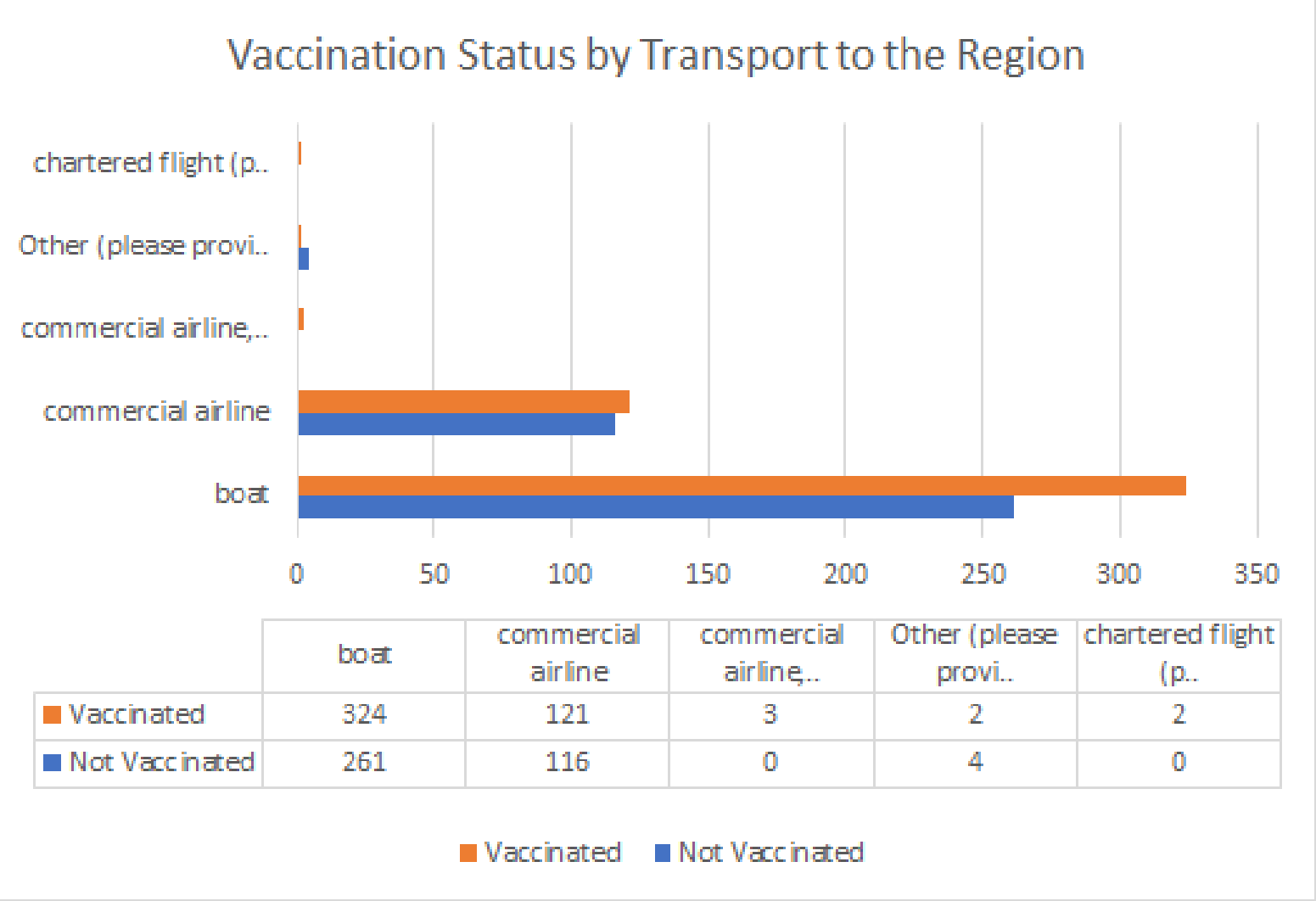


2021 Have you received a COVID-19 vaccine?(n=845), as of approximately 5/1/2021



	Dillingham	King Salmon	Naknek	Other/NA
Vaccinated	205	145	98	13
Not Vaccinated	210	105	64	6

Vaccination status by means of transportation to the Bristol Bay Region



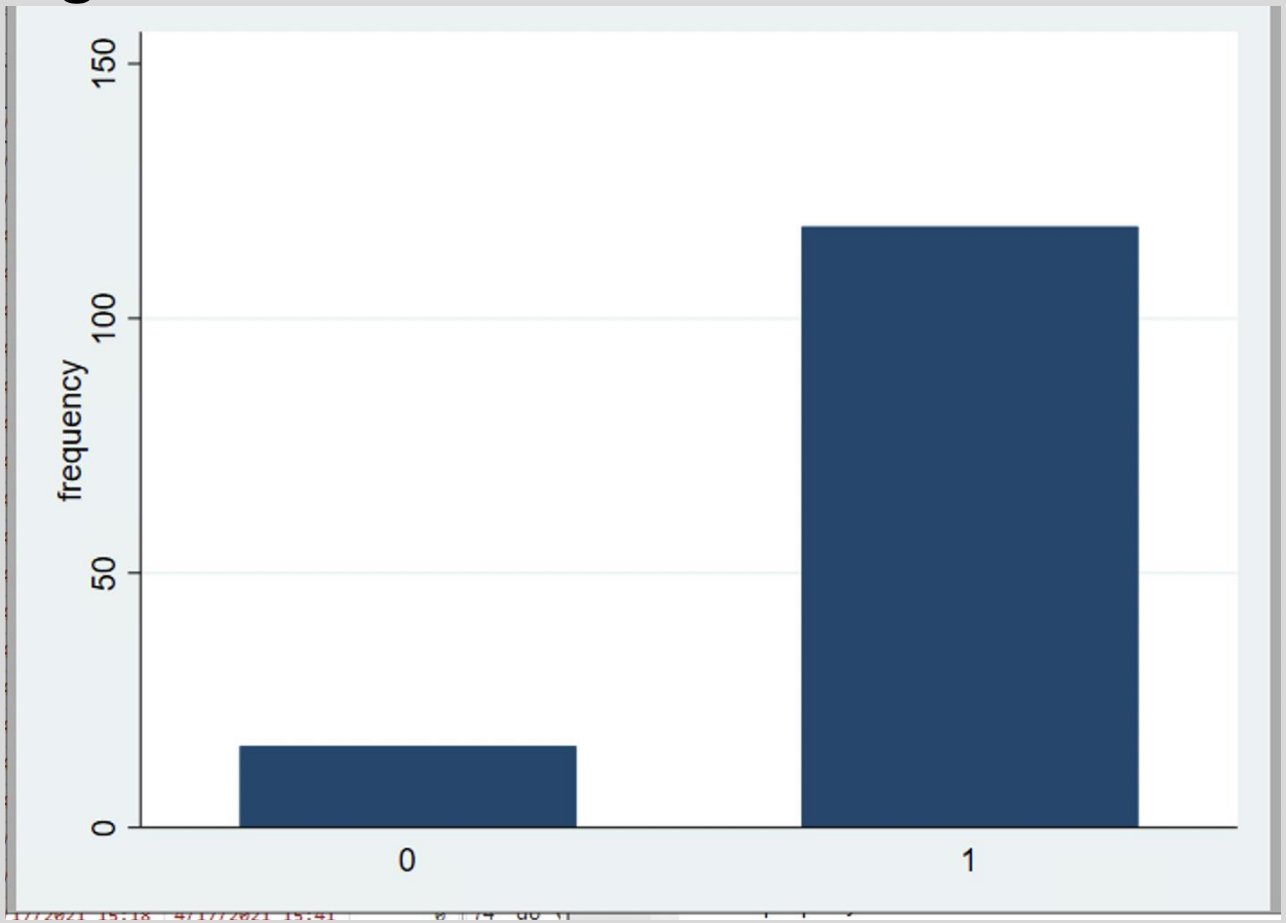
	boat	commercial airline	commercial airline,..	Other (please provi..	chartered flight (p..
Vaccinated	324	121	3	2	2
Not Vaccinated	261	116	0	4	0

For those who have not received a vaccine (N=385) …

About 251, or 65 %, indicate they are eligible to receive a vaccine.

The other 134 indicate the are not eligible.

For respondents indicating they are not eligible for a vaccine (N=134) we asked … Once a vaccine to prevent COVID-19 is available to you, will you definitely or probably get vaccine. **A large share (88%) indicate they will get a vaccine.**



Definitely or probably not

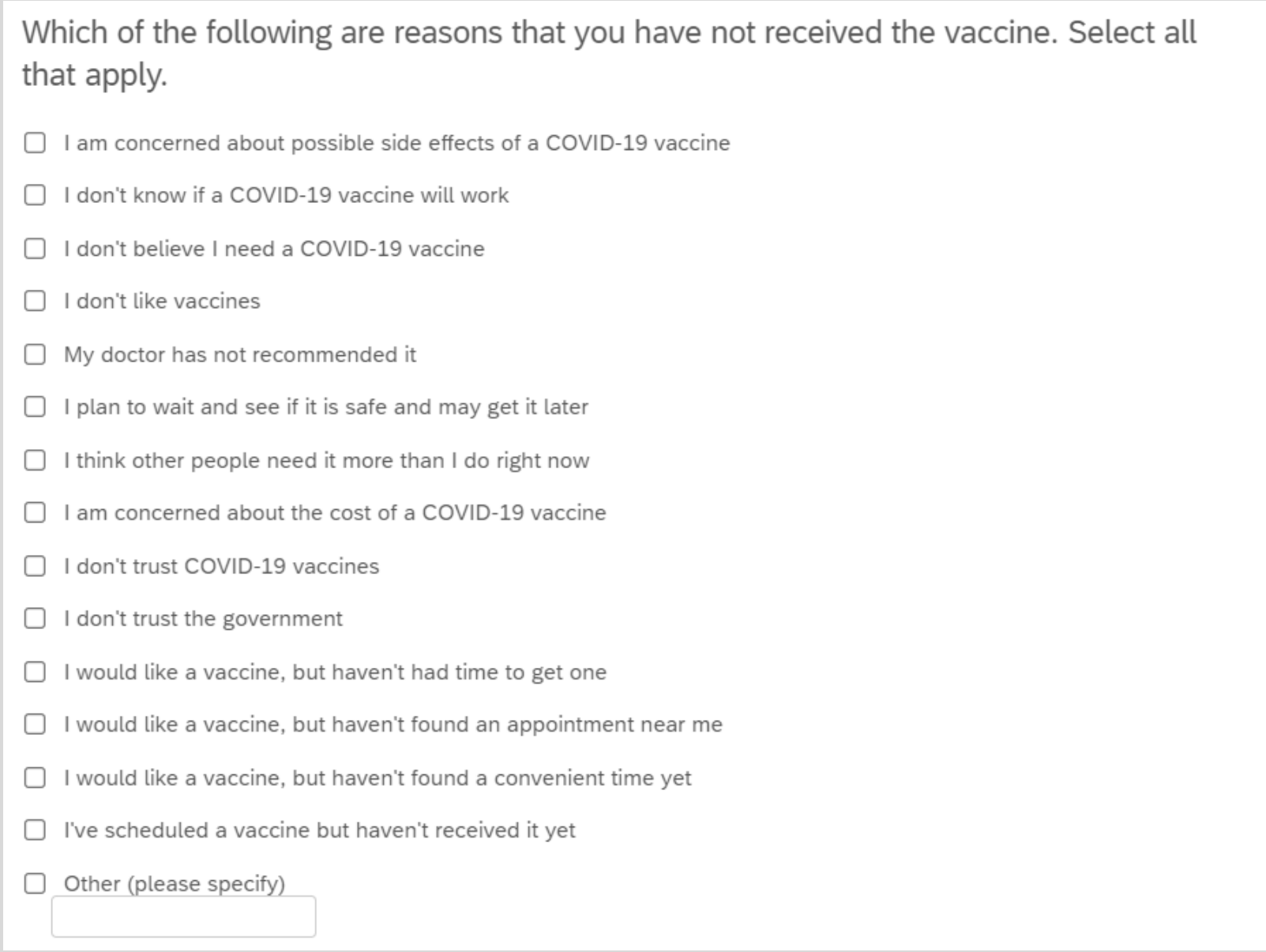
Definitely or probably will

```
. tab will_get
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will_get	Freq.	Percent	Cum.
0	16	11.94	11.94
1	118	88.06	100.00
Total	134	100.00	

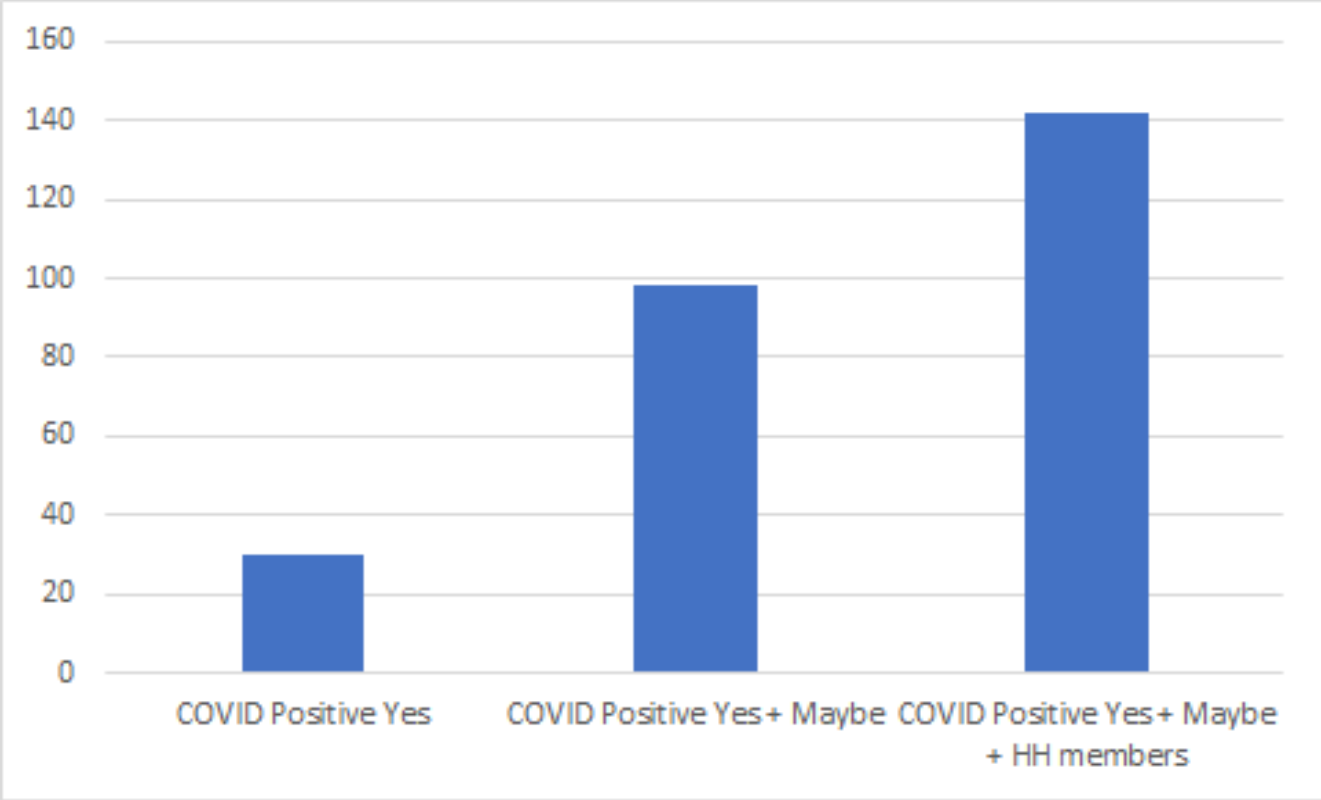
For respondents eligible for a vaccine but have not received a vaccine (N=251) the most common responses were:

- I am concerned about possible side effects of a COVID-19 vaccine
- I plan to wait and see if it is safe and may get it later



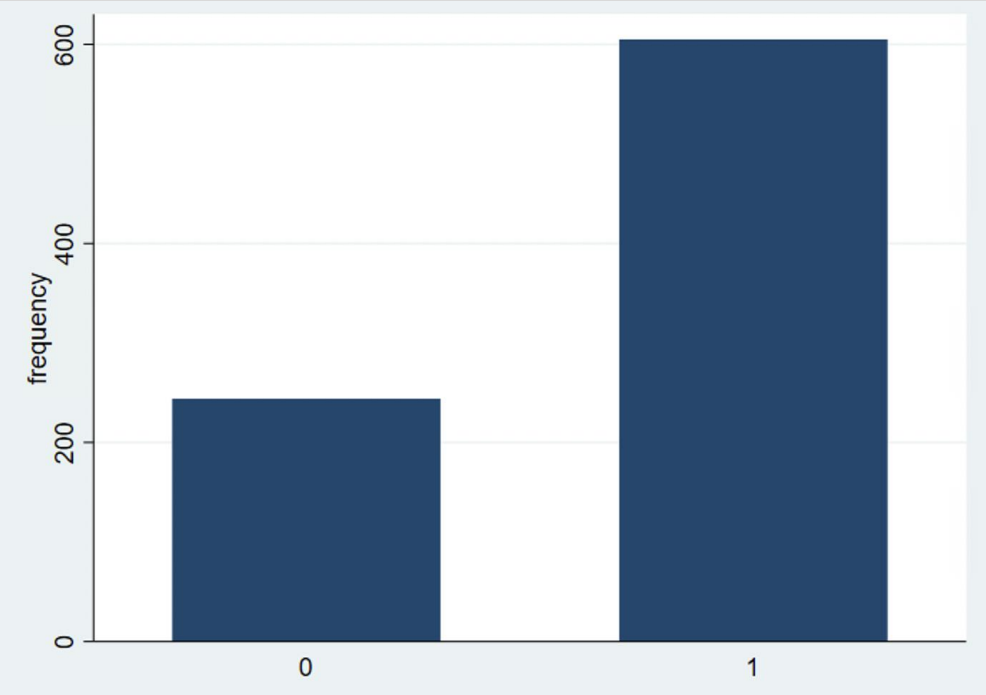
Some unvaccinated respondents also had COVID-19 and may be relying on natural immune response

- Of those not vaccinated (N=385), 8% indicate they had COVID-19 and 17% indicate they might have had COVID-19
- In addition, 44 more indicate a household member had or may have had COVID-19
- A total of 37% of unvaccinated respondents indicate some close exposure to COVID-19



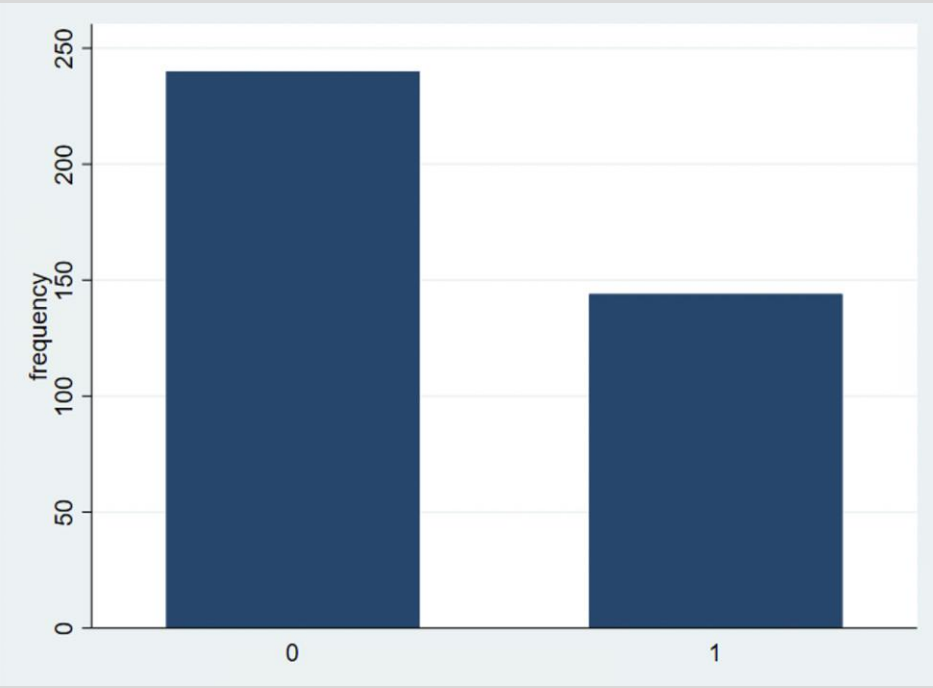
Do you have the vaccine (~5/1/2021), are eligible and will get when opportunity presents, or when eligible will definitely or probably get vaccine. N=849.

ALL respondents (849)



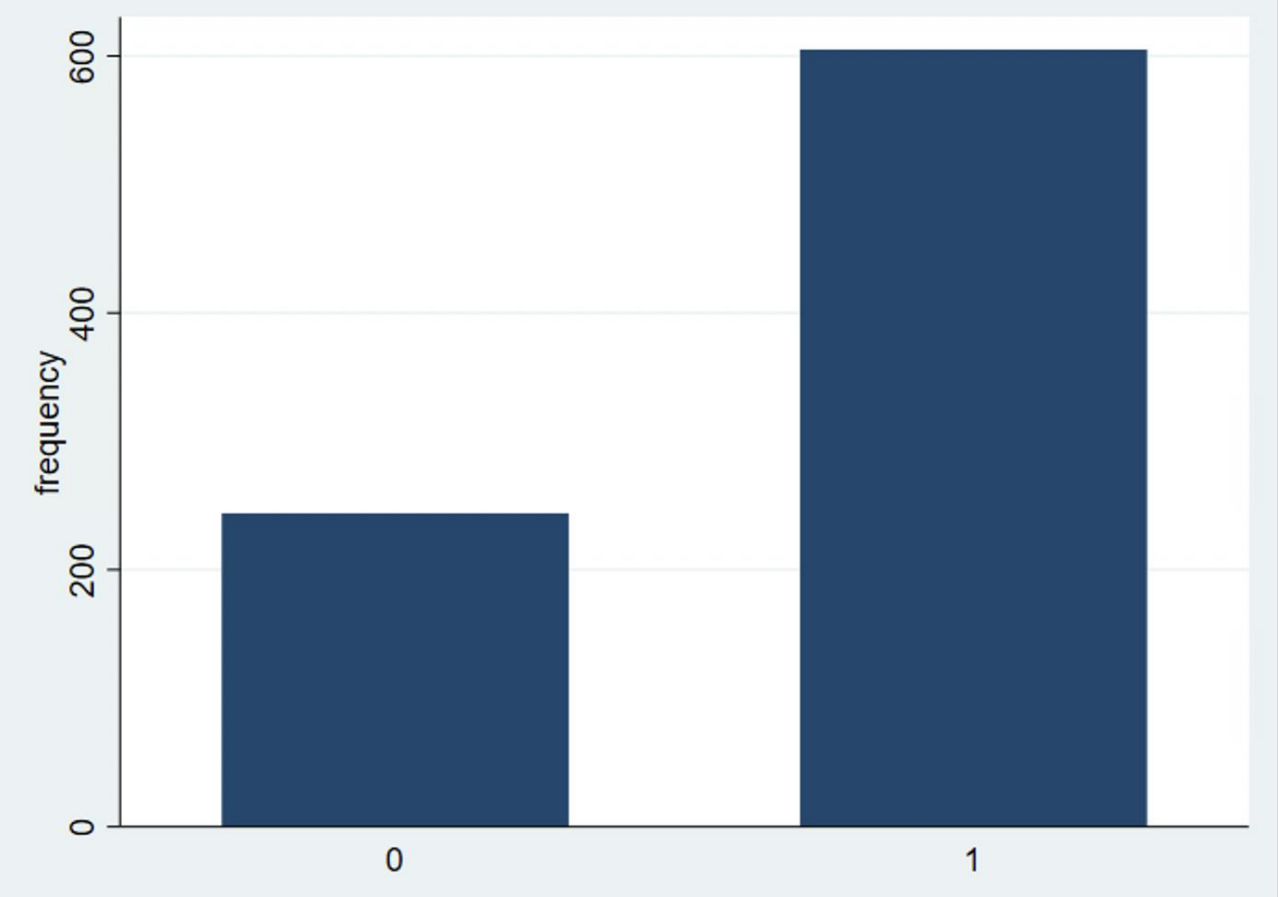
Vax hesitant Vax-comfortable

Unvaccinated respondents (384)



Vax hesitant Vax-comfortable

Vax hesitant vs comfortable, with breakdown by covid status.



Vax hesitant

Vax-comfortable

Had covid

vax_willing	Freq.	Percent	Cum.
0	13	22.81	22.81
1	44	77.19	100.00
Total	57	100.00	

Has not had covid

vax_willing	Freq.	Percent	Cum.
0	199	29.48	29.48
1	476	70.52	100.00
Total	675	100.00	

Unsure covid status

vax_willing	Freq.	Percent	Cum.
0	29	25.44	25.44
1	85	74.56	100.00
Total	114	100.00	

Vax hesitant vs comfortable, with breakdown by state of residence.

All (including vaccinated)

From BB or rest of AK

vax_willing	Freq.	Percent	Cum.
0	77	17.58	17.58
1	361	82.42	100.00
Total	438	100.00	

Not from AK

vax_willing	Freq.	Percent	Cum.
0	167	40.63	40.63
1	244	59.37	100.00
Total	411	100.00	

Unvaccinated only

From BB or rest of AK

vax_willing	Freq.	Percent	Cum.
0	75	48.70	48.70
1	79	51.30	100.00
Total	154	100.00	

Not from AK

vax_willing	Freq.	Percent	Cum.
0	165	71.74	71.74
1	65	28.26	100.00
Total	230	100.00	

Vax hesitant vs comfortable, with breakdown by processor status.

All (including vaccinated)

Not processor

vax_willing	Freq.	Percent	Cum.
0	174	26.44	26.44
1	484	73.56	100.00
Total	658	100.00	

Processor

vax_willing	Freq.	Percent	Cum.
0	70	36.65	36.65
1	121	63.35	100.00
Total	191	100.00	

Unvaccinated only

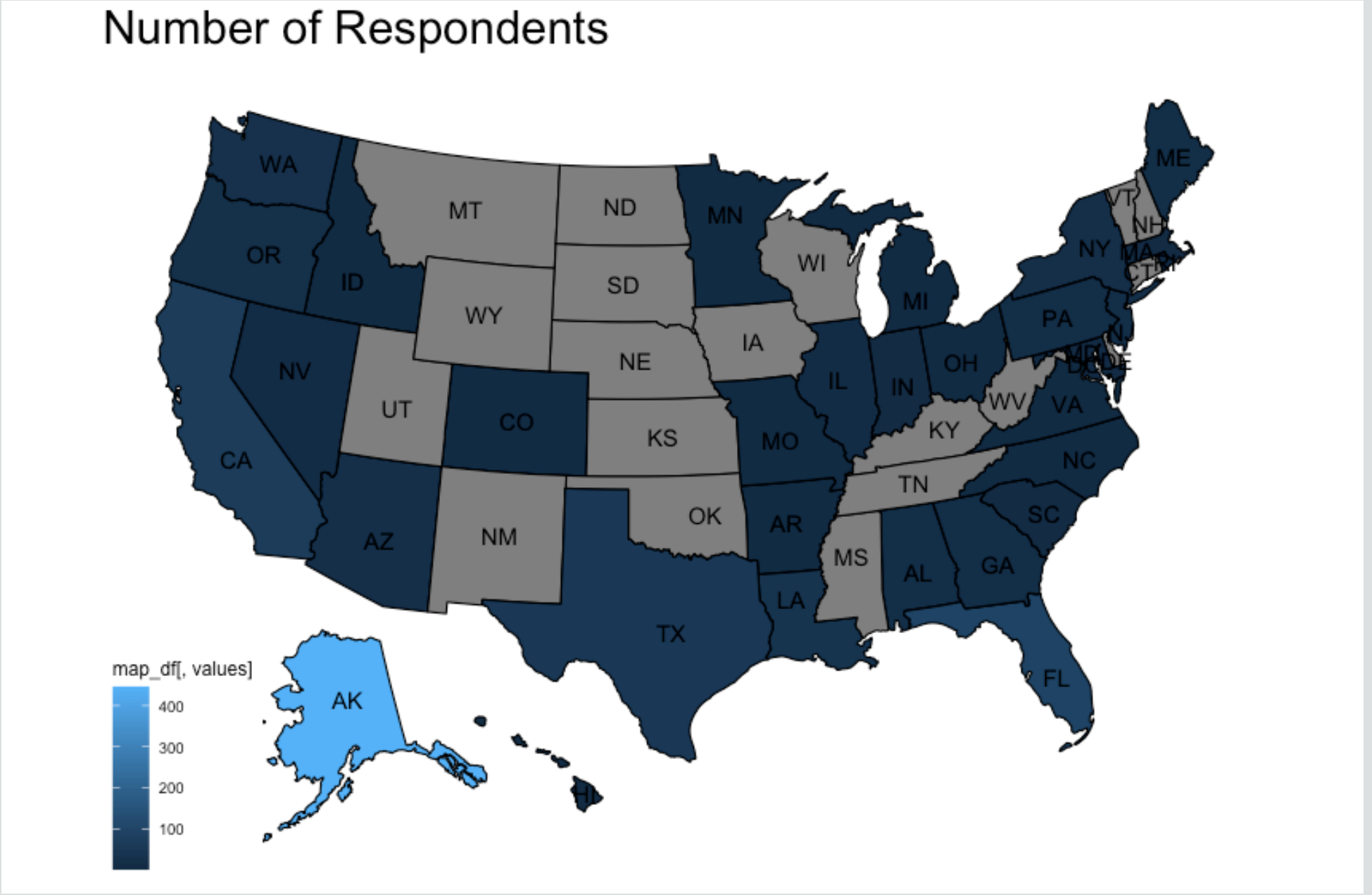
Not Processor

vax_willing	Freq.	Percent	Cum.
0	170	61.59	61.59
1	106	38.41	100.00
Total	276	100.00	

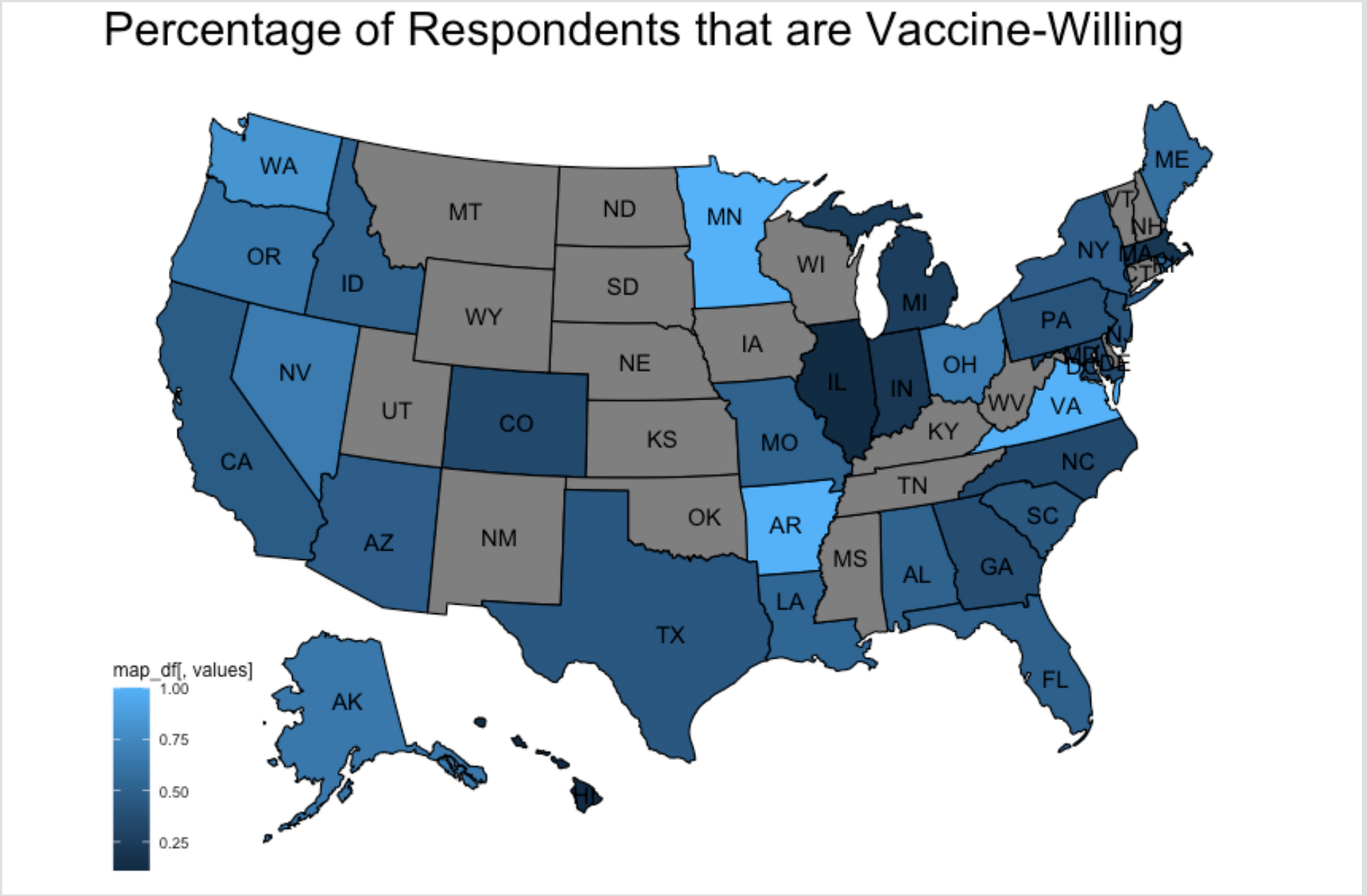
Processor

vax_willing	Freq.	Percent	Cum.
0	70	64.81	64.81
1	38	35.19	100.00
Total	108	100.00	

Number of Respondents



Percentage of Respondents that are Vaccine-Willing



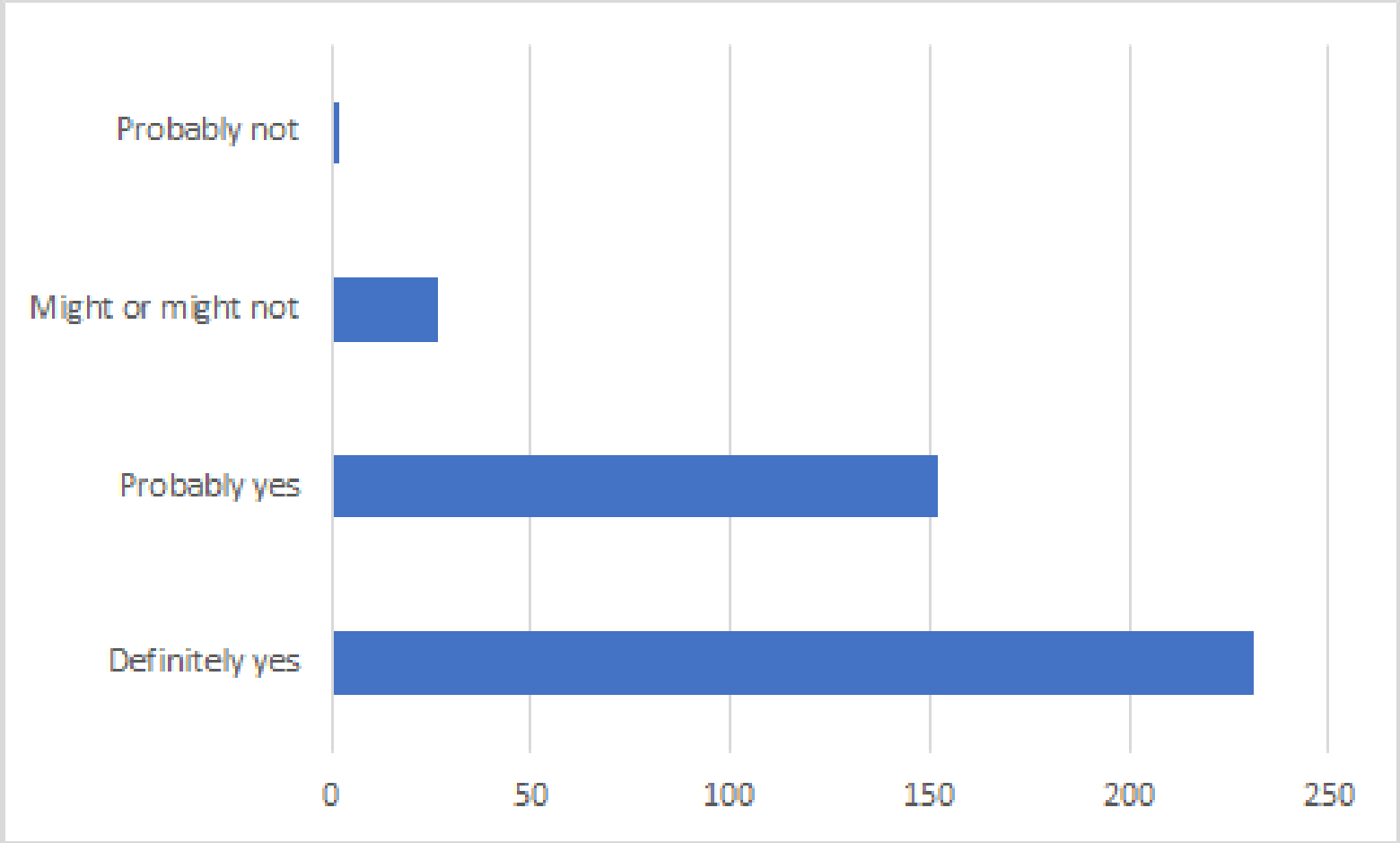
Survey overview

- Basic demographics / survey respondents
- Labor force information
- Health and Vaccination information
- Satisfaction with government policy

2021 Satisfaction with policy
Open fishery – Bristol bay area residents

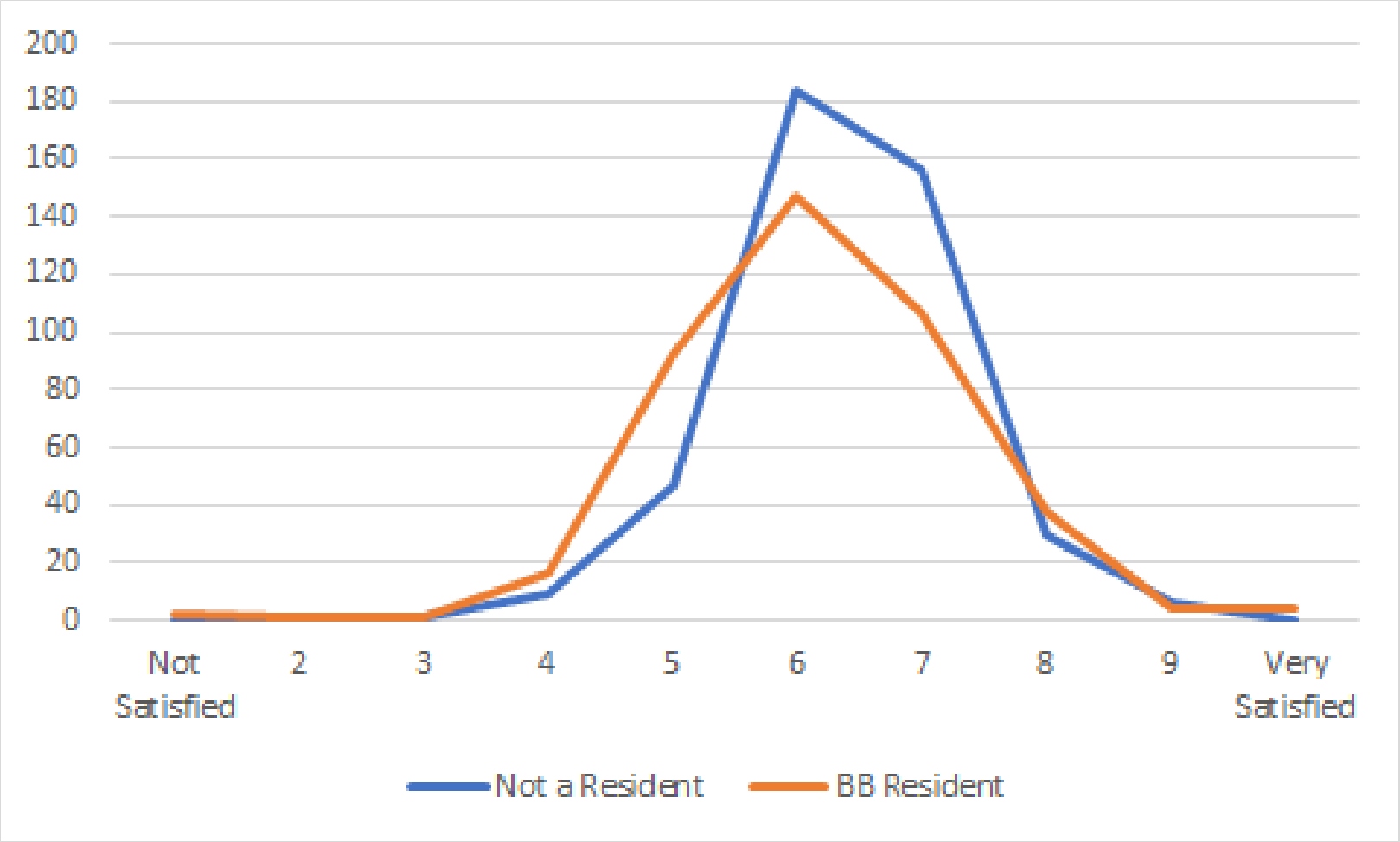
Do you think the commercial fishery should be opening this year? N= (412)

93% of respondents indicate yes or probably yes



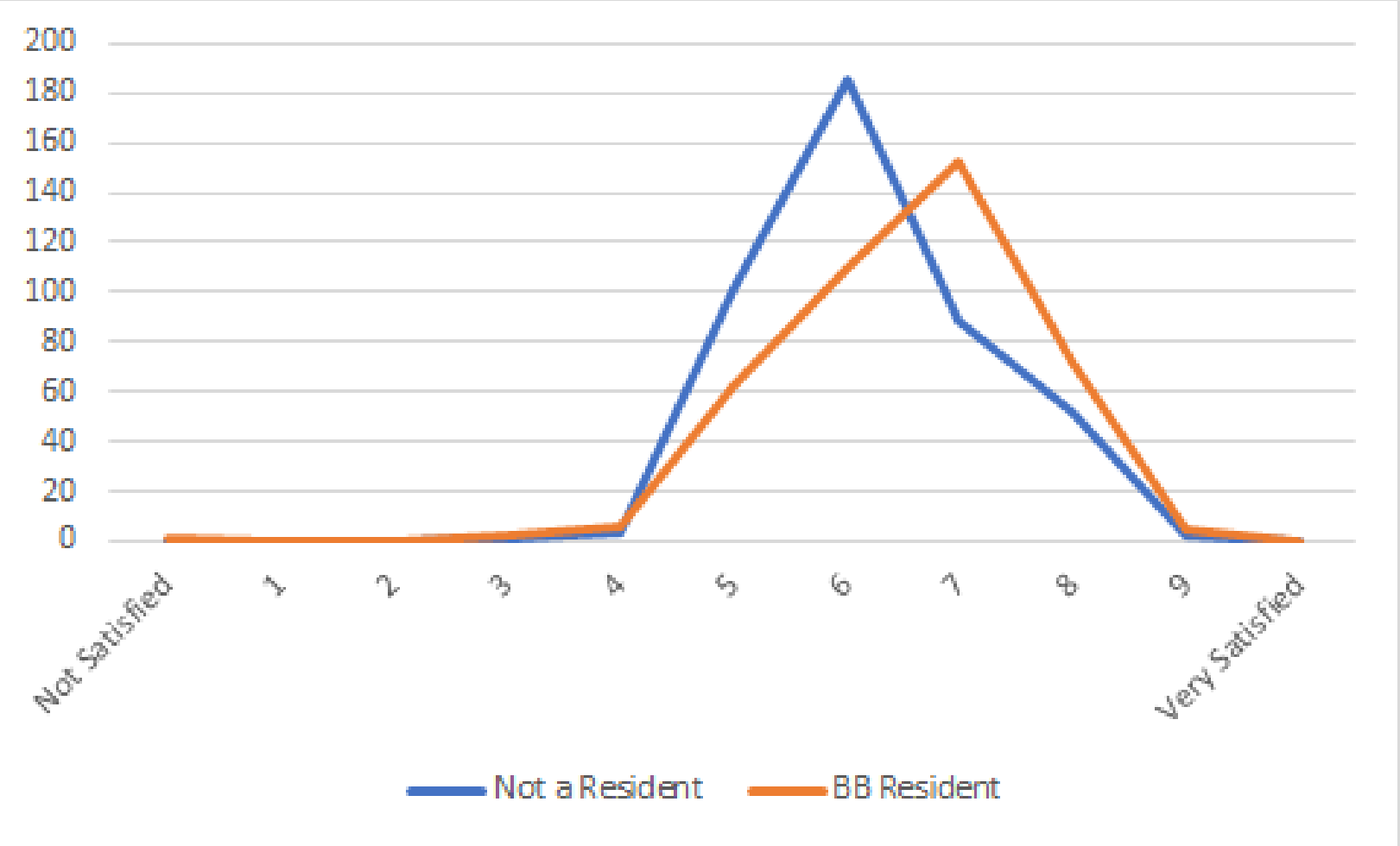
2021 Satisfied with Municipal Response, by place of residence

On a scale of 0-10 - with 0 being not satisfied at all and 10 being highly satisfied - how satisfied are you with the actions and policies of your **city government** (or the city government where you work in Bristol Bay if you do not live in Alaska) in responding to Coronavirus so far over the last year?



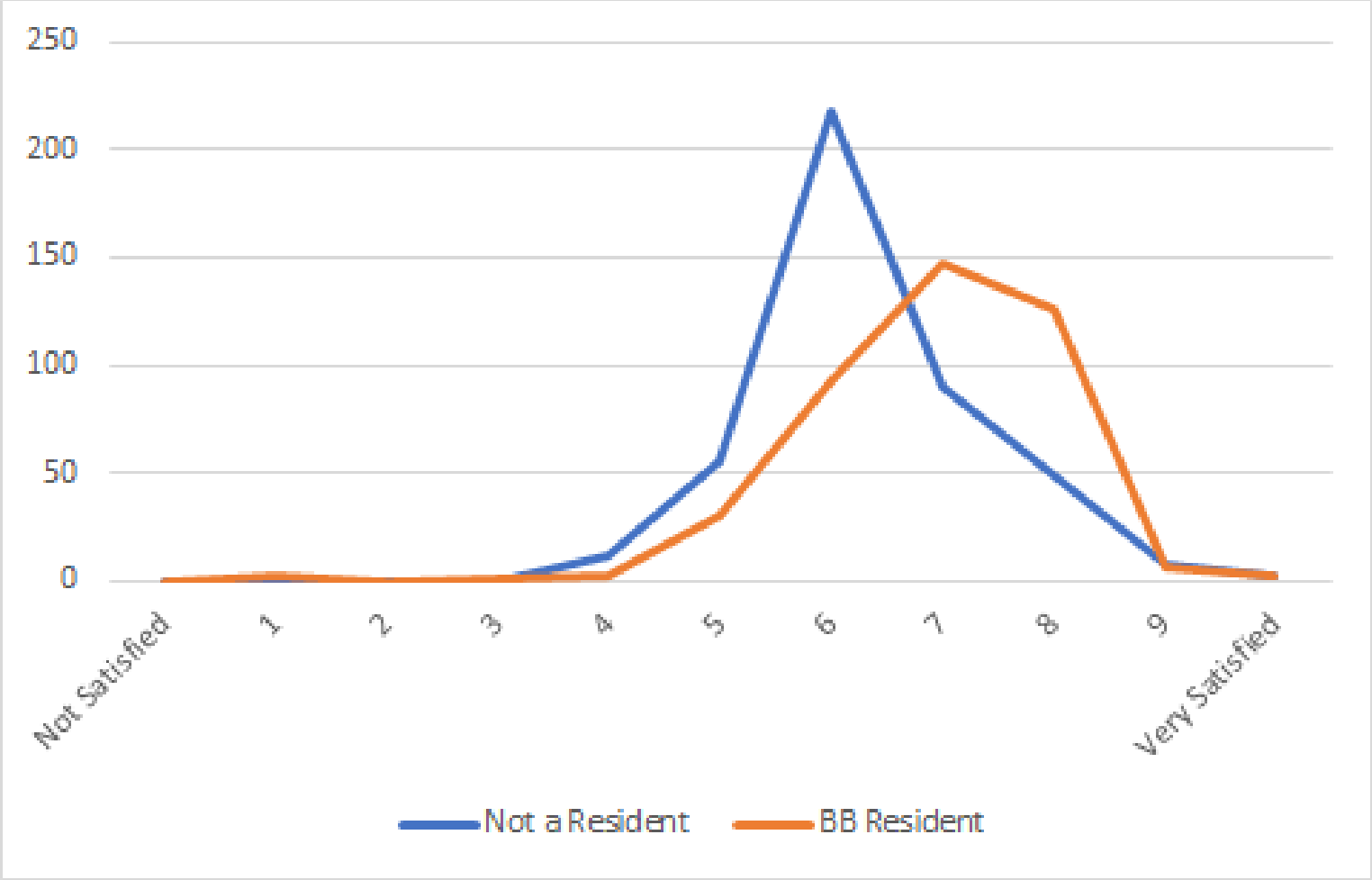
2021 Satisfied with AK response, by place of residence

On a scale of 0-10 - with 0 being not satisfied at all and 10 being highly satisfied - how satisfied are you with the actions and policies of the **Alaska state governme nt** in responding to Coronavirus in the Bristol Bay region so far over the last year?



2021 Satisfied with processors?

On a scale of 0-10 - with 0 being not satisfied at all and 10 being highly satisfied - how satisfied are you with the actions and policies of **processors** in responding to Coronavirus in the Bristol Bay region so far over the last year?



Survey overview (30 minutes)

- Basic demographics / survey respondents
- Labor force information
- Satisfaction with government policy
- COVID-19 related policy questions

2021 Some Bristol Bay communities have adopted various mitigation rules. Which of the following rules do you support?

Some Bristol Bay communities have adopted various mitigation rules. Which of the following rules do you support?

- [ ] Mandatory vaccinations for non-resident fishery workers,
- [ ] Mandatory vaccinations for residents.
- [ ] Mandatory 14 day quarantine period or a negative test-out option.
- [ ] Mandatory testing.
- [ ] Mandatory wearing of masks when in the premise of any indoor business.
- [ ] Social distancing of 6 feet or more for those not working on a boat or in a processing plant.
- [ ] Mandatory Quarantine (Lima) flags for vessels with an infected crew member.
- [ ] Mandatory quarantine areas/restricted zones for crew and processors.
- [ ] Mandatory quarantine for vulnerable adults and children living in the community
- [ ] Fines for breaking any of the local or state rules.
- [ ] Criminal prosecution for breaking any of the local or state rules
- [ ] None of the above
- [ ] Other (please describe)

2021 Some Bristol Bay communities have adopted various mitigation rules. Which of the following rules do you support?

- About 55% support a mandatory 14 day quarantine
- About 45% support mandatory vaccinations for non-residents
- About 30% support mandatory vaccinations for residents
- About 45% support mandatory testing
- About 70% support mandatory quarantine flags for vessels with an infected crew member
- About 77% support mandatory quarantine/restricted zones for crew and processors
- About 0% support no rules

Questions next steps …

- Do you have any questions or other feedback for us?
- Short follow up COVID-19 surveys planned
  - Planned for late June through the end of season
  - What types of information would be most helpful?
  - Survey invitations will be sent to those who indicated they were not vaccinated and maybe others from the sample

Thank you!