Options for a Membership-wide Rate Study and Display Tool

A presentation and roundtable by Mike Fisher to AAHPA 2023 Winter Admin Conference March 1, 2023



Agenda

- Purpose of this discussion
- Review of some potential options
- Discussion

Purpose of this Discussion

- AAHPA members often want to do a market rate study and send a request to the mail list to request rates.
- Having AAHPA serve as a central repository for rates, in one form or another, could save time for its member communities in accessing data as well as time and money for members' consultants when they are conducting rate studies.
- There are a lot of options to do this. Today we'll look at some examples and then open a discussion about these and other options.

Review of Potential Options

Potential options for sharing this information include:

- **1. Simple and minimal effort:** page with PDFs you can download
- 2. Simple but with a little more prep work: a static table
- **3. More involved and requiring some web development:** a frontend on the website similar to the financial documents delivery system
- 4. More involved and requiring some coding and a third-party host: a dynamic website, with ability to select the community / harbor and other options

Option 1: Simple Page with PDFs to Download

Creating/updating:

- This would simply require collection of rate sheets (ideally all in the same format, for consistency) and a page on AAHPA's website with links.
- Individual harbors would need to submit their rate sheets to the contact person at AAHPA, who would:
 - Verify the contents
 - Identify the currently posted content to remove (if any)
 - Post the new content and ensure the link points to the right spot

Using:

 Users would go to the AAHPA page to download the sheets they want and then work with them as they saw fit.

Example 1: Simple Page with PDFs to Download

HARBOR E-FORMS

- 2021 Harbor & Port Fee Schedule 🗹
- 2021 Harbor Enterprise Fund Budget 🗹
- 2022 Moorage Application
- Storage Agreement I ≤
- Travel Lift Agreement ⊿

SMALL BOAT HARBOR MAP

View the map here ⊵.

Option 2: Static Table

Creating/updating:

- A slight step beyond the raw sheets, AAHPA could maintain a table with comparable information that is based on each member's rates.
- Updating would require updating the appropriate sheet columns, and there may be multiple tables depending on what is included (different durations of moorage, port fees, etc.).
- Using:
 - Users would pull up the table(s) they want and grab the information they need.

Example 2: Static Table

												²
- II		Annual	Semi-Ann	Monthly	Daily							
Commodi Admin. Ra	•	\$ 62.69 \$ 50.00	\$ 42.00 \$ 33.50									
Tax Rate	ite	7.85%		-								1
		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,										5
				67%			17%					
2023												
	Annual \$62.69 + \$.05/f	+ V LOA		Semi Annual	5/ft X LOA X 67%		Billed Monthly \$62.69 + \$.05/ft X	LOA V 17%		Prompt Payment \$62.69 + \$.05/ft X		E0/#
	+\$.05/ft caps a			\$02.05 + \$.05		•	\$02.05 + \$.05/1C X	LUA X 17 //		302.09 + 3.03/11 A	LUA X 17 /0-3	.50/11
	Admin Fee \$5			Admin Fee	\$33.50		Admin Fee \$8.50	1		Admin Fee \$8.5	0	
	Tax 7.85%											Tota
						Total			Total			Prom
			Total	Semi		Semi	Billed		Billed	Prompt Pay		Pa
LOA	Annual	Тах	Annual	Annual	Tax	Annual	Month	Tax	Monthly	Month	Тах	Month
6	427.94	33.59	461.53	286.72	22.51	309.23	72.75	5.71	78.46	69.75	5.48	
7	491.28	38.57	529.85	329.16	25.84	355.00	83.52	6.56	90.07	80.02	6.28	86
8	554.72	43.55	598.27	371.66	29.18	400.84	94.30	7.40	101.71	90.30	7.09	97
9	618.26	48.53	666.79	414.23	32.52	446.75	105.10	8.25	113.35	100.60	7.90	108
10	681.90	53.53	735.43	456.87	35.86	492.74	115.92	9.10	125.02	110.92	8.71	11
11	745.64	58.53	804.17	499.58	39.22	538.80	126.76	9.95	136.71	121.26	9.52	130
12	809.48	63.54	873.02	542.35	42.57	584.93	137.61	10.80	148.41	131.61	10.33	14
13	873.42	68.56	941.98	585.19	45.94	631.13	148.48	11.66	160.14	141.98	11.15	153
14	937.46	73.59	1,011.05	628.10	49.31	677.40	159.37	12.51	171.88	152.37	11.96	16
15	1,001.60	78.63	1,080.23	671.07	52.68	723.75	170.27	13.37	183.64	162.77	12.78	17
16	1,065.84	83.67	1,149.51	714.11	56.06	770.17	181.19	14.22	195.42	173.19	13.60	186
17	1,130.18	88.72	1,218,90	757.22	59.44	816.66	192,13	15.08	207.21	183.63	14.42	19
A CONTRACTOR	- and - and -					- Constant		-	hara			and the second

Option 3: Front-end with Downloads

Creating/updating:

- A slight step up from Option 1, this option would be similar to a single page of links but would allow for selection of which rate sheets to download.
- It would also allow for multiple years to be available without complicating the layout.
- Sheets could be selected based on community, harbor vs. port, year, etc.
- This would require some web development work.
- Like Option 1, AAHPA would need to manage the rate sheets as well as a backend that tracks characteristics that would be subject to search.
- Using:
 - Users would select the options they want to search, click the search page, and download the sheets they want.

Example 3: Front-end with Downloads

ALASKA

myAlaska Departments State Employees

Department of Commerce, Community, and Economic Development DIVISION OF COMMUNITY AND REGIONAL AFFAIRS

OME TRAINING RESOURCE LIBRARY EXTERNAL USER SIGN IN

State of Alaska / Commerce / DCRA Admin / Resource Library / Financial Documents Delivery System

Financial Documents Delivery System

Every city and borough in Alaska is required under state law (AS 29.20.640) to annually submit its current annual budget and audit to the Alaska DCCED. For nearly four decades these critical financial records have been collected and used by DCRA staff to implement various financial assistance programs, provide local government technical assistance, and advise state agencies and officials regarding local fiscal conditions. In response to increasing demand for copies of these financial documents, DCRA has designed the Financial Documents Delivery System. Now access to every municipal budget and year-end financial statement submitted to the Division is available with a simple click of a button.

Municipal budgets are the annual adopted operating budgets for each municipality and date back to FY2000. The year-end financial statements date back to FY1998 and consist of either an audit or city-prepared financial statement certified as true and complete by the local governing body. DCRA does not adjust these documents in any manner and is not responsible for the accuracy or quality of municipal financial records. The Financial Documents Delivery System is updated throughout the year as financial records are scanned and posted in the form and condition in which they are received.

Documen	it Title:		Fiscal Calendar	Calendar Ye	ar
Documen	t Year: 🗘 to	\$		EFederal Fise	al Year
Adoption	Dates: to			E Fiscal Year	
	Audit	Community:	□ N/A ^	Region:	Gulf Coast Region
Туре:	Budget		🗆 Adak		Interior Region
	Certified Financial		Adak Station		Northern Region
	Statement		Afognak		Northwest Region
			Akhiok		Southcentral Region
			Akiachak		Southeast Region

Example 3: Front-end with Downloads

Category Type:	🗹 Audit	Community:	□ N/A	^	Region:	Gulf Coast Region	^
iype.	Budget		🗌 Adak			Interior Region	
	Certified Financial		Adak Station			Northern Region	
	Statement		Afognak			Northwest Region	
			Akhiok			Southcentral Region	
			🗌 Akiachak	~		Southeast Region	~

Search criteria applied click Reset to clear all filters.

🔍 Searçh

Reset Results/page: 50 v

		Category			Fiscal	Adoption
	Community	Туре	Year	Document Title	Calendar	Date
View PDF	Haines Borough	Audit	2021	Haines Borough Fiscal Year 2021 Audit	FY	12/13/2021
🔁 View PDF	Hydaburg	Audit	2021	Hydaburg Fiscal Year 2021 Audit	FY	03/07/2022
🔁 View PDF	Juneau	Audit	2021	Juneau Fiscal Year 2021 Audit	FY	12/28/2021
🔁 View PDF	Kake	Audit	2021	Kake Fiscal Year 2021 Audit	FY	04/21/2022
🔁 View PDF	Ketchikan	Audit	2021	Ketchikan Calendar Year 2021 Audit	CY	07/28/2022
🔁 View PDF	Ketchikan Gateway Borough	Audit	2021	Ketchikan Gateway Borough Fiscal Year 2021 Audit	FY	12/23/2021
🔁 View PDF	Petersburg Borough	Audit	2021	Petersburg Borough Fiscal Year 2021 Audit	FY	03/15/2022
🔁 View PDF	Yakutat	Audit	2021	Yakutat Fiscal Year 2021 Audit	FY	12/17/2021
🔁 View PDF	Craig	Audit	2020	Craig Fiscal Year 2020 Audit	FY	08/18/2021
尾 View PDF	Haines Borough	Audit	2020	Haines Borough Fiscal Year 2020 Audit	FY	01/15/2021
🔁 View PDF	Hoonah	Audit	2020	Hoonah Calendar Year 2020 Audit	CY	09/23/2021
🔁 View PDF	Hydaburg	Audit	2020	Hydaburg Fiscal Year 2020 Audit	FY	02/08/2021
🔁 View PDF	Juneau	Audit	2020	Juneau Fiscal Year 2020 Audit	FY	12/09/2020
🔁 View PDF	Kake	Audit	2020	Kake Fiscal Year 2020 Audit	FY	07/03/2021
🔁 View PDF	Ketchikan	Audit	2020	Ketchikan Calendar Year 2020 Audit	CY	09/29/2021
View PDF	Ketchikan Gateway Borough	Audit	2020	Ketchikan Gateway Borough Fiscal Year 2020 Audit	FY	12/28/2020

×

- What the heck is a Shiny app?
 - Think of it as an interactive online data-exploration tool, or a web-based data explorer
 - It's called a Shiny app because the technology behind it was named that, and unless you have the ability to run it on your server, the apps are hosted at ShinyApps.io.

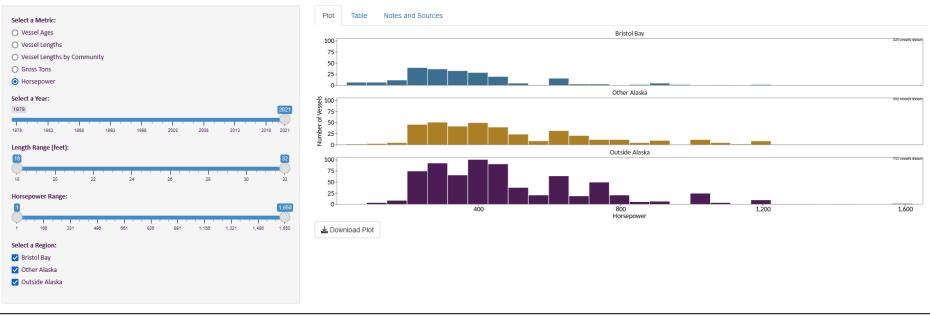
- Creating/updating:
 - We would collect and process rate information for each community / harbor and code a basic front end for the Shiny app.
 - Updates to rates would require that the rates data be updated and posted to the server. This would be relatively quick and easy. A spreadsheet template might be helpful for collecting updated information.
 - Updates to the interface would require an update of the R code. This would likely be easy, depending on the extent of the changes.
 - The app would be hosted on shinyapps.io (e.g., aahpa.shinyapps.io), unless AAHPA's host is capable of running a Shiny server.
 - There is a fee for hosting, which depends on the amount of use (25 hours of use per month is free and 100 hours per month is \$100 per year). See https://www.shinyapps.io/ for details.

Using:

- You can have an option to select communities for comparison and set other parameters. Anything that can be included in the data could be included in the interface.
- The app could have both a chart and a table, depending on how you would want to use it, including options to download what you see on the screen.
- The app could have many, many more features, as well. It just depends on your imagination (and our ability to code it, but we can do some amazing things!).

Example 4: Shiny App

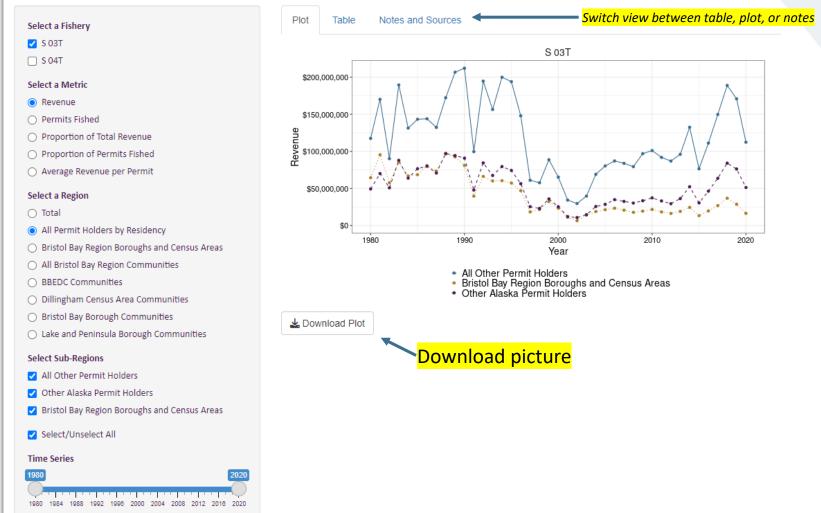
Vessel Characteristics of Bristol Bay Salmon Fisheries



	idency 🔶	Year	Number of Vessels 🖕			
Deinte			Number of Vessels -	Median Horsepower	Horsepower-25th percentile	Horsepower-75th percentile 崇
Bristo	ol Bay	2021	225	320	250	430
2 Othe	Alaska	2021	392	425	300	619.5
B Outsi	de Alaska	2021	711	430	310	600

Example 4: Shiny App

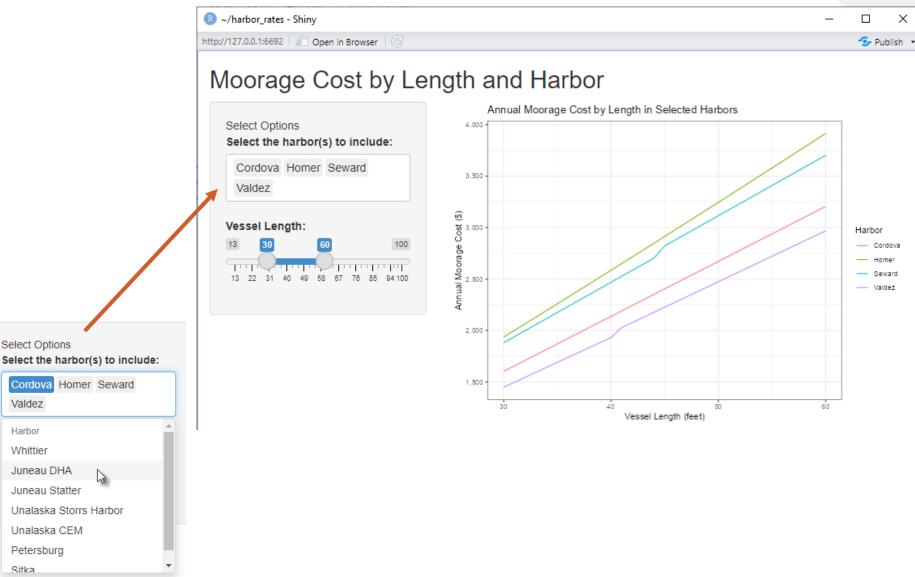
Economic Trends in Bristol Bay Salmon Fisheries



https://northern-economics-errend.shinyapps.io/bbedc_salmon/ Also see https://northern-economics-errend.shinyapps.io/other_fisheries/

Change Plot Appearance

Example 4: Shiny App



- This is a very rudimentary and minimally featured example using vessel cost data from a recent rate study! It could be updated with many more features:
 - Improvements to how the chart looks
 - Other options for what to display (could show rate per foot)
 - Tabs for the chart, a table version, and more (links to each harbor's rate sheets? state map with dots for each harbor and ability to click on them for more info?)
 - Download buttons for the chart and table
- (We're pretty excited about what we can do with Shiny apps!)

Discussion

- What format works best for updating information?
- What format works best for accessing/using information?
- What do you need to get from this endeavor?
- What else do you want to get from this endeavor?
- Are there other options you can think of that I did not include?

Next Steps

- If you have other ideas today or tomorrow, please bring them up for discussion!
- If you have ideas after you return home, please share them.
- If you want to look at what has been done in Shiny apps, they maintain a gallery of sites at <u>https://shiny.rstudio.com/gallery/</u>.

Thank you!





T: 907.274.5600 D: 907.272.6404 E: michael.fisher@norecon.com



