Pacific Fisheries Information Network

APEX REPORTING SYSTEM

User Documentation



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1. Introduction

Following the successful redevelopment of the PacFIN database in 2014, PacFIN reports have been recreated from the new data warehouse with the ultimate goal of providing more flexibility to customize and export PacFIN data. The new reporting system uses Oracle Application Express (APEX) as the platform for developing and deploying reports. APEX was selected because it is a free, easy-to-use, rapid web application development tool for Oracle databases.

Highlights of the new PacFIN APEX reporting system include:

- 1. Navigable the APEX report website uses a navigable tree to organize reports so that users can find a report easily and quickly.
- 2. Interactive users can customize reports using a set of parameters. For example, the user can extract data by year range, agency, gear code, etc.
- 3. Secure all reports display aggregated catch information (i.e., weight, revenue, price, number of trips) summed at an annual and/or state level. The APEX reporting system has a public site for all users and a secure site for users authorized to access confidential data. On the public site, confidentiality rules are applied (i.e., non-confidential catch summaries will include a minimum of 3 vessels and 3 dealers in the aggregation) to filter confidential catch values in order to protect the privacy of fishermen and seafood dealers as required by the Magnuson-Stevens Act. The secure site is password protected to restrict access to authorized users.
- Low maintenance APEX reports pull data from the PacFIN comprehensive fish tickets database. The comprehensive fish ticket database is updated automatically on a daily basis. Updates of APEX reports are scheduled to be in sync with the comprehensive fish ticket database.
- 5. Exportable users can download reports in Excel or CSV format and then import the data into other applications such as Excel, R, Matlab, etc. for further analysis.

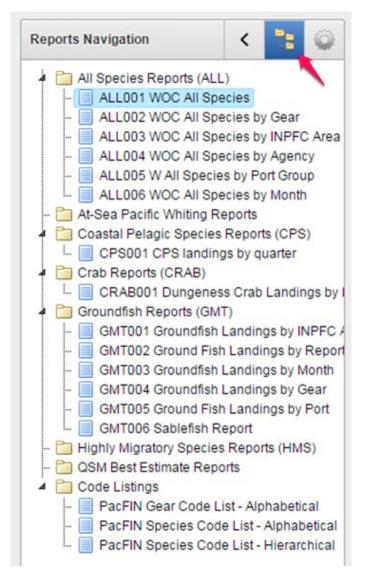
2. Getting Started

- 1. Click the link <u>http://reports.psmfc.org/pacfin</u> to go to the new PacFIN APEX report website.
- 2. Browse PacFIN reports using the report tree on the **Reports Navigation** panel on the left side.

Make sure the **Tree** button is turned on (i.e., highlighted in blue). If not, the report tree doesn't display. You will need to click the **Tree** button to display the report tree. The report tree contains 8 folders:

- a. All Species Reports (ALL) This folder contains the landing reports for all fisheries, summarized by year, month, INPFC area, reporting agency, port group, and /or gear group.
- b. At-Sea Pacific Whiting Reports coming soon
- c. Coastal Pelagic Species Reports (CPS)
- d. Crab Reports (CRAB)
- e. Groundfish Reports (GMT) This folder contains landing reports for groundfish as well as a few other non-groundfish species, prepared for the Pacific Fishery Management Council (PFMC) Groundfish Management Team (GMT). The reports summarize landings by year, month, INPFC area, reporting agency, port group, and /or gear group.

- f. Highly Migratory Species Reports (HMS)
- g. QSM Best Estimate Reports (QSM) coming soon
- h. Code Listings



3. View Reports Online

1. Select a report of interest.

On the **Reports Navigation** panel, expand the reports folder if needed, then click the report name. The report will be displayed on the main report window. In this user manual, we will use report 'ALL001 WOC ALL Species' as an example to demonstrate the procedure for viewing a PacFIN report online. When a report is called, the **Report Navigation** panel displays all

parameters. Notice that the Parameter button with is highlighted in blue.

Pacific Fisheries Information Network

	Reports	
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oorts Navigation 🛛 🕻 隨	ALL001 WOC	All Species							Download File:	CSV Exc	cel.
Year Range * Between 2015 ▼ and 2015 ▼ Display by Year? * © Yes ® No	This report was marine fish are prior to 1997, s Report run tim Included year(Included agen	s generated using the e caught. Canadian a so at-sea data prior to e: June 18th, 2015 2: s): 2015 cy(les): Washington,	a state agency fish ticket da nd Alaskan catches have b 1997 is not included. Data 09pm Oregon, California, At-Sea	ta from the PacFIN cor een excluded. Shores that involve fewer tha and Combined WOC		observer data. This reg area composition sam vithheld to preserve con	oles applied. On board of fidentiality.	oservers did not distingui	sh between retaine	d and discar	ded
aency *	Year	Agency	Management Group	Complex	Common Name	Species Code	Round Weight (mt)	Round Price/lbs	Revenue (\$)	Confident	ial
(W)ashington (O)regon	2015	AT-SEA	CPEL	1771	PACIFIC HERRING	PHRG	0.0	\$0.00	\$0		
(C)alifornia	2015	AT-SEA	CPEL	SUBTOTAL	NO COMPLEX	(4)	0.0	×	\$0		
🗹 At-Sea	2015	AT-SEA	CPEL SUBTOTAL	25	_ALL COASTAL PELAGIC	100	0.0	5	\$0	2	
Combined WOC (incl. At-sea)	2015	AT-SEA	GRND	FLAT	ARROWTOOTH FLOUNDER	ARTH	0.7	\$0.00	\$0	-	
ct a Measure Set " Round Weight (mt); Round Price/lbs	2015	AT-SEA	GRND	FLAT	DOVER SOLE	DOVR	8	54			
anded Weight (mt); Landed Price/lbs	2015	AT-SEA	GRND	FLAT	REX SOLE	REX	1.4	\$0.00	\$0	-	
Submit	2015	AT-SEA	GRND	FLAT SUBTOTAL	ALL FLATFISH	(a.)	2.1		\$0	•	
	2015	AT-SEA	GRND	MGRN	SPINY DOGFISH	DSRK	0.4	\$0.00	\$0		
	2015	AT-SEA	GRND	MGRN	LONGNOSE SKATE	LSKT	2	22	2		
	2015	AT-SEA	GRND	MGRN SUBTOTAL	MISC. GROUNDFISH		0.4	-	\$0	•	
	2015	AT-SEA	GRND	ROCK	AURORA ROCKFISH	ARRA		¥)	÷.	¥2	
	2015	AT-SEA	GRND	ROCK	BANK ROCKFISH	BANK	0.0	\$0.00	\$0		
	2015	AT-SEA	GRND	ROCK	BOCACCIO	BCAC		51			
	2015	AT-SEA	GRND	ROCK	CHILIPEPPER ROCKFISH	CLPR	2		2		
	2015	AT-SEA	GRND	ROCK	CANARY ROCKFISH	CNRY					

2. Customize a report.

Use the parameters in the **Reports Navigation** panel to customize a PacFIN report and then click the Submit button **Submit** to refresh the report. For example, there are 4 parameters for the all species report ALL001:

- a. Year Range allows user to select a year range between 1981 and the current year
- b. Display by Year user can decide between 2 options
 - i. Yes sum up the catch for all years specified by the year range parameter
 - ii. No display the catch by year
- c. Agency user can check a single agency or multiple agencies
 - i. (W)ashington display the catch landed to all Washington ports
 - ii. (O)regon display the catch landed to all Oregon ports
 - iii. (C)alifornia display the catch landed to all California ports
 - iv. At-Sea displays catch processed offshore by catcher-processor vessels or mothership vessels
 - v. Combined WOC (incl. At-sea) sum the catch from all the above 4 sources by species and year.
- d. Select a Measure Set user can decide between the 2 options
 - i. Round Weight (mt); Round Price/lbs display the round weight and price
 - ii. Landed Weight (mt); Landed Price/lbs display the landed weight and price

In the example below, the user wants to select total annual catch (in round weight) by state for all species in 2014 and 2015. Report ALL001 WOC All Species is selected, then the parameters are set accordingly

- a. Year Range between 2014 and 2015
- b. Display by Year yes
- c. Agency (W)ashington, (O)regon, and (C)alifornia
- d. Select a Measure Set Round Weight (mt); Round Price/lbs

eports Navigation 🛛 < 沧 🤷	ALL001 WOC	All Species						D	ownload File:	OSV Exi	cel
Year Range * Between 2014 • and 2015 • Display by Year? * * Yes © No	This report wa where marine discarded cato Report run tim Included year(s generated using th fish are caught. Can th prior to 1997, so a e: June 18th, 2015 1 (s): 2014 - 2015	e state agency fish ticket da adian and Alaskan catches t-sea data prior to 1997 is n	ta from the PacFIN cor have been excluded.	nue, and Price-per-pound (Price/I mprehensive fish ticket table and at sea ob shoreside reported catches have species nvolve fewer than three vessels or dealers	server data. This rep and area compositio	n samples applied. On b	oard observers did not d			
gency *	Year	Agency	Management Group	Complex	Common Name	Species Code	Round Weight (mt)	Round Price/Ibs	Revenue (\$)	Confid	lentia
Washington Opegon	2014	с	CRAB		UNSP. CRAB	UCRB	2.2	\$0.39	\$1,863	26	
0 (C)alifornia	2014	с	CRAB	SUBTOTAL	NO COMPLEX		9,355.1		\$69,455,803		
At-Sea Combined WOC (Incl. At-sea)	2014	C	CRAB	KCRB	UNSP. KING CRAB	UKCR	5.6	\$4.22	\$51,782		
lect a Measure Set *	2014	С	CRAB	KCRB SUBTOTAL	ALL KING CRAB	2	5.6	2	\$51,782	1.	
Round Weight (mt); Round Price/lbs	2014	С	CRAB	TCRB	BAIRDI TANNER CRAB	BTCR	÷.				
Landed Weight (mt); Landed Price/lbs	2014	C	CRAB	TCRB SUBTOTAL	_ALL TANNER CRAB	-	0.0	5	\$0		
Submit	2014	С	CRAB SUBTOTAL	627	ALL CRAB	÷.	9,360.7		\$69,507,585		
	2014	с	GRND	Call:	PACIFIC GRENADIER	GREN	-				
	2014	с	GRND	SUBTOTAL	_NO COMPLEX	-	0.0		\$0		
	2014	С	GRND	FLAT	NOM. ARROWTOOTH FLOUNDER	ART1	18.4	\$0.11	\$4,282	1	
	2014	c	GRND	FLAT	ARROWTOOTH FLOUNDER	ARTH	57.0	\$0.10	\$12,557		
	2014	С	GRND	FLAT	BUTTER SOLE	BSOL	0.0	\$0.47	\$34		
	2014	с	GRND	FLAT	CURLEIN SOLE	CSOL	1.7	\$0.44	\$1,629	12	
	2014	C	GRND	FLAT	DOVER SOLE	DOVR	1,597.4	\$0.45	\$1,572,339		

ONFIDENTIALITY includes species not displayable in this report due to confider

3. Interpret a report.

On the main report panel, there are 5 sections: report title, report description, header notes, report table, and footer notes:

- a. Report title provides a short description of the report.
- b. Report description provides a detailed description of the report.
- c. Header notes summarizes the report run time, year range and selected agency. This is specific to each report refresh activity so it provides important information when a report is exported.
- d. Report table includes:
 - i. Data rows - catch by species, year and agency
 - ii. Subtotal/total/grand total rows - aggregated by complex, management group, agency, and year.
 - Confidential flag uses "*" as an indicator where the catch values are fully iii. hidden (for data rows) or partially hidden (for subtotal, total, and grand total rows).
 - Confidential subtotal rows aggregated confidential catch values. When there is iv. only 1 confidential species, the confidential subtotal catch values are hidden and flagged by "*".

e. Footnotes – additional notes placed under report table to comment on a designated part of the data.

LL001 WOC	All Species						Dov	wnload File:	CSV Excel	1
his report wa here marine scarded cate eport run tim cluded year	is generated using the fish are caught. Can ch prior to 1997, so at the: June 18th, 2015 1 (s): 2014 - 2015	e state agency fish ticket da adian and Alaskan catches -sea data prior to 1997 is n	ta from the PacFIN cor have been excluded.	nue, and Price-per-pound (Price/I mprehensive fish ticket table and at sea ob Shoreside reported catches have species a nvolve fewer than three vessels or dealers	server data. This rep and area compositio	n samples applied. On b	oard chier ars did not dis			
Year	Agency	Management Group	Complex	Common Name	Species Code	Round Weight (mt)	Round Price/Ibs	Revenue (\$)	Confident	tial
2014	с	CRAB		UNSP. CRAB	UCRB	2.2	\$0.39	\$1,863	255	
2014	С	CRAB	SUBTOTAL	NO COMPLEX		9,355.1		\$69,455,803		
2014	С	CRAB	KCRB	UNSP. KING CRAB	UKCR	5.6	\$4.22	\$51,782		
2014	с	CRAB	KCRB SUBTOTAL			5.6	-	\$51,782	323	
2014	с	CRAB	TCRB	BAIRDI TANNER CRAB	BTCR	22				
2014	с	CRAB	TCRB SUBTOTAL	ALL TANNER CRAB	2	0.0		\$0		
2014	С	CRAB SUBTOTAL		ALL CRAB		9,360.7		\$69,507,585		
2014	С	GRND		PACIFIC GRENADIER	GREN					
2014	с	GRND	SUBTOTAL	NO COMPLEX		0.0		\$0	•	
2014	С	GRND	FLAT	NOM. ARROWTOOTH FLOUNDER	ART1	18.4	\$0.11	\$4,282		
2014	С	GRND	FLAT	ARROWTOOTH FLOUNDER	ARTH	57.0	\$0.10	\$12,557	245	
2014	С	GRND	FLAT	BUTTER SOLE	BSOL	0.0	\$0.47	\$34		
2014	С	GRND	FLAT	CURLFIN SOLE	CSOL	1.7	\$0.44	\$1,629		
	с	GRND	FLAT	DOVER SOLE	DOVR	1,597.4	\$0.45	\$1,572,339		

** WITHHELD FOR CONFIDENTIALITY includes species not displayable in this report due to confidentiality restrictions.

4. View another report.

Interested in viewing another report? On the **Reports Navigation** panel, click the **Tree** button

and then select another report from the report tree. Repeat step 1-3 to build a new report.

4. Download Reports

PacFIN APEX reports allow users to download a customized report using one of 3 download buttons (CSV, Excel, PDF) located on the upper right corner of the main report window. Each button corresponds to one file format.



1. Export a report to Excel

a. Download the report.

Click the Excel button once. The user will see a message asking whether to save the file or open the file. Depending on the type of browser used, the download message will appear with a different look.

i. Internet Explorer – user should click the **Save** button to save the excel file to a local directory.

Save -

Open

Cancel

×

Do you want to open or save ALL001-W_O_C-2014-2015.xls (680 KB) from chili.psmfc.org?

ii. Firefox – user should check **Save File** radio button to save the excel file to a local directory.

	0_C-2014-2015.xls
	efox HTML Document (681 KB)
	/chili.psmfc.org
What should Fire	fox do with this file?
Open with	Firefox (default)
Save File	
Do this au	tomatically for files like this from now on.

iii. Chrome – user doesn't get a message as in IE or Firefox. Instead, the file is saved directly to the windows default download folder (i.e., C:\Users\your windows account name\Downloads). When the Excel button is clicked, user should see the download status and Excel file being downloaded on the lower left corner of the browser window.

ports Navigation 🛛 🖌 🍓 🚺	ALLOOT WOC										
	ALLOUTINOCI	All Species						c	Download File: C	SV Excel	F
ear Range * etween 2014 * and 2015 * isplay by Year? * 9 Yes No	This report was where marine i discarded catc Report run time included years	s generated using the fish are caught. Cana th prior to 1997, so at- e: June 19th, 2015 12 (s): 2014 - 2015	e state agency fish ticket da adian and Alaskan catches -sea data prior to 1997 is n	ta from the PacFIN con have been excluded.	enue, and Price-per-pound (Price morehensive fish ticket table and at sea Shoreside reported catches have speci Involve fewer than three vessels or dea	observer data. This reples and area composition	n samples applied. On be	oard observers did not d			
ency *	Year	Agency	Management Group	Complex	Common Name	Species Code	Round Weight (mt)	Round Price/lbs	Revenue (\$)	Confidenti	at
W)ashington	2014	c	CPEL		PACIFIC HERRING	PHRG	2,901.5	\$0.15	\$962,684	S4 (
O)regon Cialifornia	2014	с	CPEL	SUBTOTAL	NO COMPLEX		2,901.5		\$962,684		
M-Sea	2014	с	CPEL	WETF	CHUB MACKEREL	CMCK	5,419.9	\$0.10	\$1,226,992		
Combined WOC (incl. At-sea)	2014	С	CPEL	WETF	JACK MACKEREL	JMCK	784.5	\$0.09	\$148,908	(4) (4)	
ct a Measure Set *	2014	c	CPEL	WETF	MARKET SQUID	MSQD	102.516.2	\$0.32	\$71.838.379		
Round Weight (mt); Round Price/lbs .anded Weight (mt); Landed Price/lbs	2014	с	CPEL	WETF	NORTHERN ANCHOVY	NANC	10,510.7	\$0.07	\$1,620,434		
	2014	c	CPEL	WETF	PACIFIC BONITO	PBNT	32.2	\$0.35	\$24,732		
Submit	2014	c	CPEL	WETF	PACIFIC SARDINE	PSDN	7,768.4	\$0.12	\$2,003,154		
	2014	с	CPEL	WETF	UNSP. MACKEREL	UMCK	5.8	\$0.48	\$6,180		
	2014	c	CPEL	WETF SUBTOTAL		-	127,037.7		\$76,868,779	1	
	2014	c	CPEL SUBTOTAL		ALL COASTAL PELAGIC		129,939,2		\$77,831,463		
					-	DCRB		\$3.62			
	2014	с	CRAB		DUNGENESS CRAB		8,243.7		\$65,840,791	1.2	

b. Read the report in Excel. Find the downloaded file on your computer and then open it. You will get a warning message as shown in the screenshot below. Ignore the message and click **Yes** to open the file. The Excel file reserves all features from online (e.g., title, description, header and footer notes, as well as subtotal/total rows and formatting).

Microsoft Excel	1007	And the second	1001	1994.0	×
The file format and extensi	on of 'ALLOO1-W_O_C-			Inless you trust its source, don't open it. D	o you want to open it anyway?
Was this information help	<u>u!?</u>	Yes	No <u>H</u> elp		

2. Export a report to a CSV file

Click the CSV button once, the APEX report will be exported into a CSV file. Unlike an Excel export, the CSV file only contains the report data, while the report descriptions and notes, and the subtotal/total/grand total rows are not included. The confidential subtotal rows are an exception because the confidential subtotal values are needed for calculating the total landed catch of all species by agency. We expect R users would want to import the CSV *file* into R for analysis. Therefore, we excluded those APEX report features from the CSV file so that users don't have to manually edit the CSV file before importing it into R.

3. Export a report to PDF

Click the PDF button once. The APEX report will be exported to a PDF file. The PDF download button is only available to the reports that are less than 26 columns, because the APEX printing service cannot handle more than 26 columns. PDF export retains the full APEX reporting features as with EXCEL export.