Volume 15

March 2013



BOTTOMFISH NEWS

01/04/13 01/18/13 02/01/13 02/15/13 03/01/13 03/15/13 03/29/13

Present Deep 7 Bottomfish fishing year

10/26/12 11/09/12 11/23/12 12/07/12 12/21/12

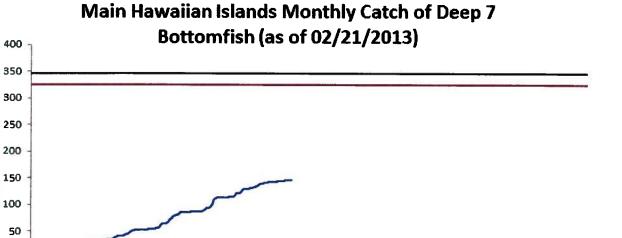
09/28/12 10/12/12

Cumulative Pounds Caught (1000's)

150

100

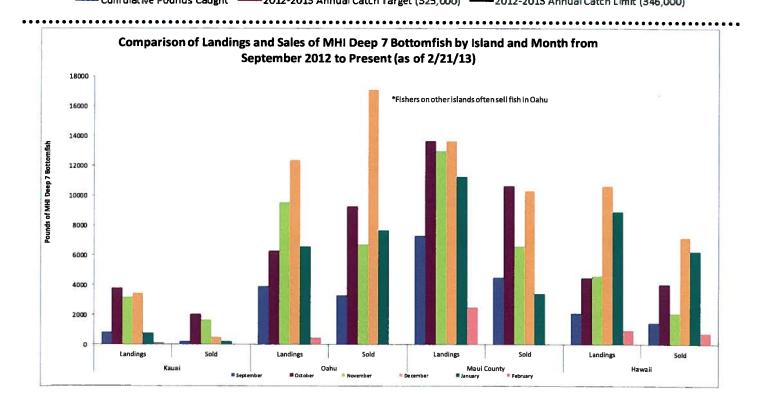
50



04/26/13

05/10/13

06/07/13 06/21/13 07/05/13



@ 2012 Dec

12/30

Bottomfish Trip Reporting Reminders														
(Please Print) MHI "Deep					мн	l "Deep 7" Bottomfisl	7" Bottomfish Fishing Trip Report				FOR OFFICE USE			
Lic	Licensee Name					Commercial Marine	License No.					ń		
Vessel NameH				HA No.	No. USCG No. Please choose				wind speed!					
Trip Start Date: Month Day Year Trip End Date: Month Day Year Wind Speed (Kt.; check one only 0-10 11-15 16-20 21														
FISHING EFFORT					RT		SPECIES	САТСН		LOS RELEA				
Day Fished	Buoy or Area Fished	Fishing Method (See Methods List)	Hours Fished per Method/Area	Number of Lines or Loop Nets or Loop Nets or Catch "X" No Catch "X"		Species Name (See Species List)		Number Landed	Lbs. Landed (est.)	Number Lost to Predation	Number Released			
							The state of the s	hed with a crev heir GML numb	A CONTRACTOR OF THE PARTY OF TH					
		lease fill out your sales nd include dealer(s)	informat	ion				<u> </u>				***************************************		
Nua	iber Lost						Crew: CML NO:		CML NO			>		
Number Number Number To Whom Sold: No Sales: Dealer Dealer Cash or Retail Sale: \(\sqrt{\chi} \) & file Personal Cash Sales Report														
Con	Comments to DAR													
Bottomfish Trip Report must be submitted to DLNR-DAR within 5 days after end of trip (§13-74-20(d) & §13-Division of Aquatic Resources. Department of Land and Natural Resources, State of Hawaii MHID7 BF TR 07/08/2012 If you select this option it means you sold to someone that is not a registered fish dealer please be sure to submit a Personal Cash Sa Report In addition to your trip report										r, ales				
One	One question that always come up with submitting reports online:													
clos A: If in a Rep nee Bott	e the you C five d ort red d to b omfis	report?" NLY bottomfish ay period from quirement (due e submitted. Or	for the entine the 1	ne mon nd of y Oth da the mo	nth, our ay of	then you are only requitip). Since, the Bottom f the following month) at can be represented with will be displayed in this	ired to submit you fish Trip Reports Ind you ONLY wer th an "Open" or "F	ir Bottom are count it bottomf Pending" s	fish Trip ed towa ishing, status v	o Repor ards yo no othe vith the	rt(s) (d ur Mo er repo	lue with- nthly orts pleted"		
We	We are currently working to resolve this confusion, in the mean time please contact us if you have questions.													
Online Fishing Report						The state of the s	If BF status is "Completed" and you did not go on any non-Deep 7 trips, your report requirement							
		Pishing Catch Report License Humber License Hame Currently Viewing Year:		13 2012		has been me	has been met and the monthly status will remain "Open" or "Pending."							

Open

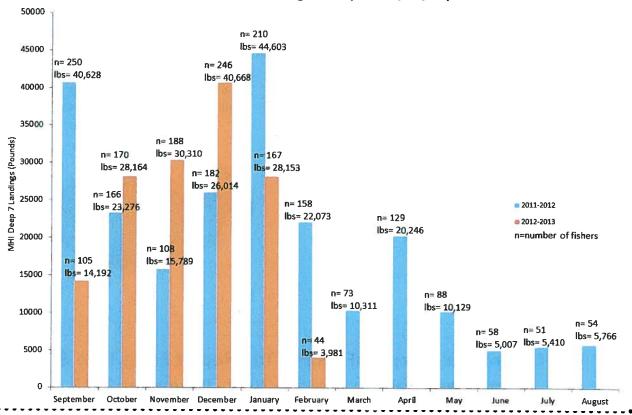
Completed

January 2, 2013

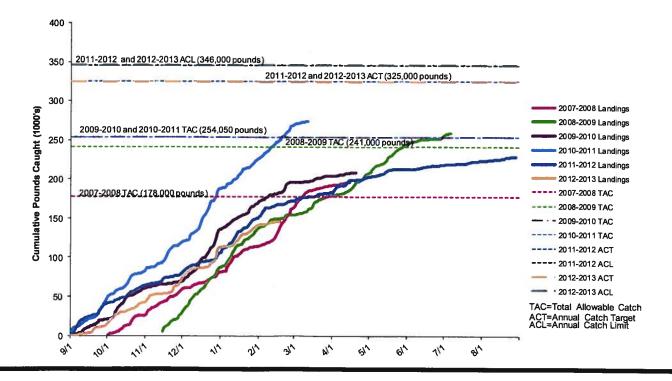
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Comparison of MHI Deep 7 Fishing Years

Comparison of MHI Deep 7 Landings by Month for the 2011-2012 and 2012-2013 Fishing Years (as of 2/21/13)

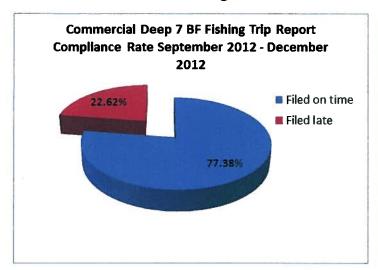


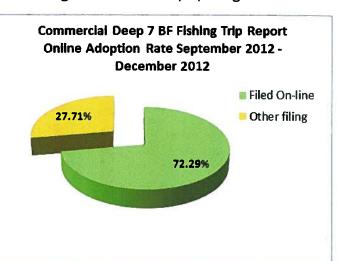
Comparison of MHI Deep 7 Bottomfish Landings from 2007 to Present with catch limits (as of 02/13/2013)

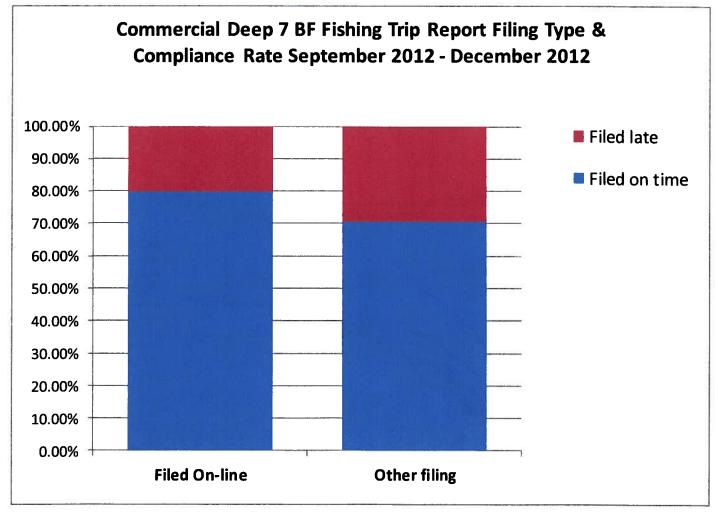


MAHALO!! 77% of Deep 7 Bottomfish Trip reports are submitted on time!

77% of all of Deep 7 Bottomfish Trip reports are submitted on time, in an average of two and a half days after the trip end date. Of those submitted late, on average they are submitted within 16 days of the trip end date. Of these, 73% are submitted online. Thank you for your cooperation! The high compliance rate and high percentage of fishers using the online system is outstanding and greatly appreciated! We would like to remind fishers that everything they catch needs to be reported whether or not they sell it. All catch data is important to the scientists and is used when making stock assessments and determining catch limits. Keep up the good work!



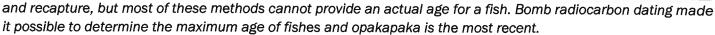


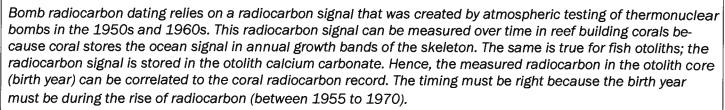


Nuclear bombs and how long opakapaka can live - Dr. Allen H. Andrews (NOAA Fisheries - PIFSC)

Opakapaka were originally seen as a relatively fast growing species with a maximum estimated age between 5 and 18 years. The methods used to come up with these estimates are good for validating the age of young fish, but not as appropriate for the largest fish. Most fish can be aged by counting annual growth zones in otoliths (fish ear bones), similar to counting rings in a tree. But opakapaka otoliths have not revealed growth zones that can be counted for the oldest fish. Therefore, the methods used for early fish growth were used to extrapolate an age for the largest fish. For some fishes this practice may be valid, but with opakapaka the results were unclear.

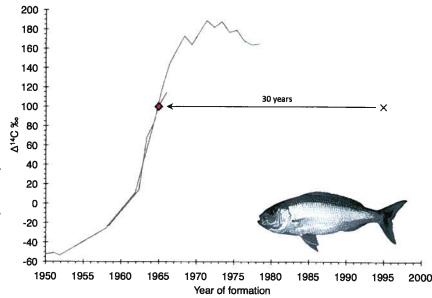
Validating the maximum age of fishes can be a difficult task. A number of methods have been used on other fishes, such as tag





An example of how this works is if a fish was captured in 1995 and its otolith core radiocarbon matched the coral record from 1965. This fish was 30 years old (see figure).

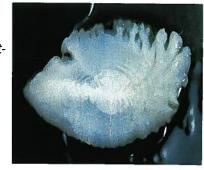
Bomb radiocarbon dating of opakapaka revealed they could live more than 40 years. In the study, otoliths from collections revealed ages from 11 to 43 years for lengths of 1'8" to 2'5" FL. Overall, the age and growth calculated for young fish by other methods remained valid up to about 5-10 years, but the extrapolated maximum ages underestimated true age. This means opakapaka can grow fairly large in less than 10 years, but each fish can reproduce for more than 30 years.



This kind of information is important for fish-

ery management because proper stock assessments can be made to determine population productivity, and ultimately an estimate of a sustainable yield. Other species in the Deep 7 Bottomfish fishery are being studied at this time. The hapu'upu'u study is well underway and preliminary results indicate longevity is greater than previously estimated. Other fishes in this group under age exploration are onaga and gindai.

If you are interested in more information on this kind of research either visit "www.astrofish.me" or email Dr. Andrews (allen.andrews@noaa.gov).



Division of Aquatic Resources Dept. of Land & Natural Resources 1151 Punchbowl Street Room 330 Honolulu, Hawaii 96813



Key Online Benefits:



- File commercial fishing reports
- Purchase/renew commercial fisheries licenses and permits
- Register bottomfish vessel

Contact Information:

Email: fishrpt@hawaii.gov

Phone: (808) 587-0595 / -0084 / -0594 / -0108







Division of Aquatic ResourcesHawaii Department of Land
and Natural Resources

Dear Commercial Bottomfish fishers and dealers-Please let us know what kind of information is useful to you. We welcome your feedback! Any feedback about the newsletter, positive or negative, is greatly appreciated! PLEASE CALL statistical staff member, Jessica Miller, (808) 587-0594 or e-mail dlnr.ar.bf@hawaii.gov. Mahalo! - DAR Statistical Unit

Thank you to everyone for your ideas and assistance in editing the Bottomfish Newsletter Volume 15! A special thanks to: Dr. Allen Andrews, Caitlin Burgess, Reginald Kokubun, Eric Yokomori, Dr. Robert Nishimoto.

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