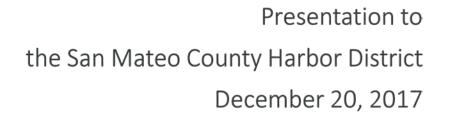


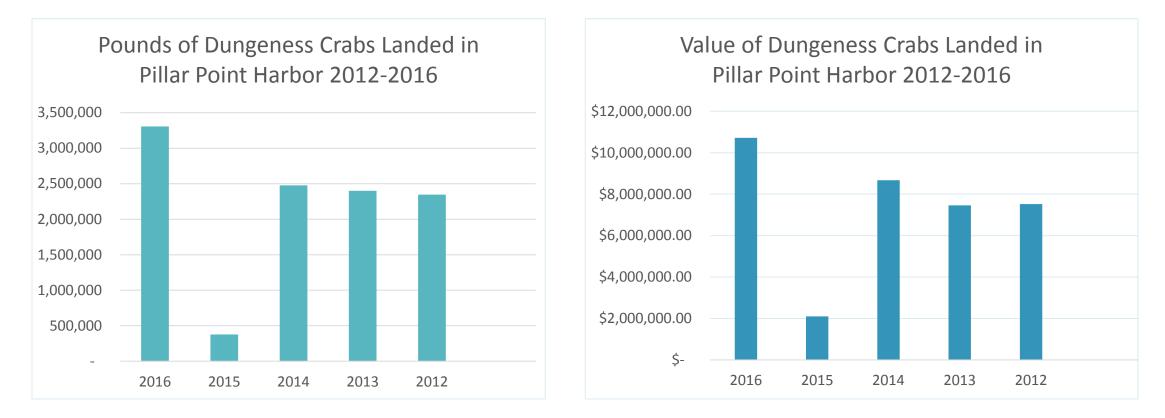
# HALF MOON BAY LOST FISHING GEAR RECOVERY PROJECT







The California Dungeness crab fishery is a highly valuable state resource, averaging an exvessel value of approximately \$59.6 million a year. Locally, over the last five years an average of 2.2 million pounds of Dungeness Crab representing almost \$7.3 million dollars per year was landed in Pillar Point Harbor. This fishery has the highest number Pillar Point Harbor fishermen participating with approximately 42 Dungeness Crab Permit holders.



\* In January 2017, the 2015 Dungeness Crab Fishery was declared a disaster by the US Department of Commerce /NOAA

In response to an increase in reported entanglements, The California Dungeness Crab Fishing Gear Working Group initially convened in the fall of 2015. Since that time, 100+ fishermen have been trained to respond to an entanglement event, hundreds of Best Practices fishing guides have been distributed, and there has been important research into the key drivers of entanglement risk on an annual basis. With the support of the Crab Fleet, Senate Bill 1287 was signed in 2016 to support lost gear recovery efforts and although the law has not yet been implemented, 2017 has shown a significant decrease in reported entanglements.





With the support of The Nature Conservancy and the San Mateo County Harbor District, Half Moon Bay Commercial Fisheries Trust (HMBCFT), partnered with members of the Half Moon Bay Seafood Marketing Association (HMBSMA) and took the initiative to design and test a fishermen-driven model recovering lost Dungeness crab gear in 2015.



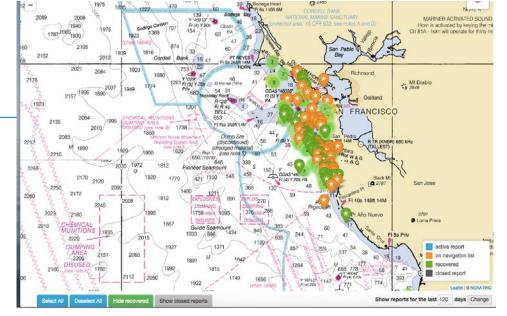
# Data Tool

In 2016, a tool was developed by The Nature Conservancy and tested by the Half Moon Bay fleet to help identify lost gear locations for targeted recovery.

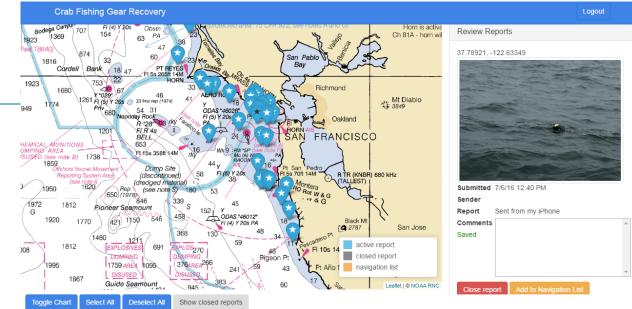
In 2017, the tool was expanded to track lost gear from when it was first located in the ocean, to final resolution at the end of the program.

Development will continue in 2018

HMB worked with 5 California ports to share the tool and support efforts to build similar programs. More than 1000 pots were recovered in California in 2017



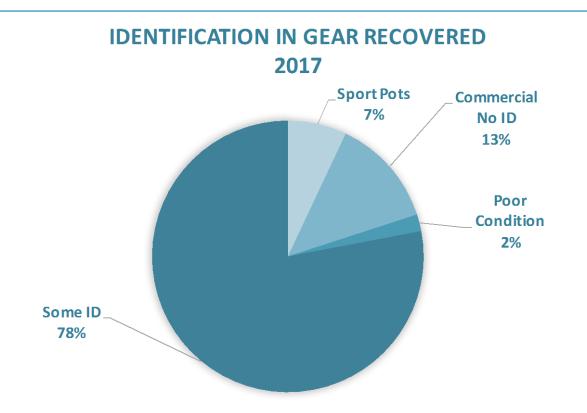






For all three years of the program, SMCHD has donated an area of the parking lot for storage during the program. In 2016 and 2017, HMBCFT rented construction fencing to secure the gear. A sign on the gear lot alerted fishermen and the public to the program and provided contact information. The fenced area is kept locked with a combination lock that is changed weekly during the distribution phase of the project. In 2017 space had to be increased due to high volume of pots recovered, and SMCHD accommodated the additional space needed.

# Gear Identification





Condition of gear recovered through lost gear recovery efforts remains variable and there continues to be more than 20% of gear that does not include owner identification information including recreational gear.



### Gear Distribution



Gear was distributed over the course of 12 weeks and the program was completed By October 15, 2017.



Cost Recovery



64%

29%

#### 2017 Gear retrieval costs

Cost Recovery in 2017

Recovered gear that did not result in cost recovery for the program. In 2015, 3 vessels participated in the program over 6 sea days, retrieving **182** crab pots



In 2016, 5 vessels participated in the program over 12 sea days, retrieving **207 crab pots** 

In 2017, 4 vessels participated in the program over 13 sea days, retrieving **449** crab pots

# **838 pots** have been recovered in HMB since 2015

#### Lessons Learned

- LOST GEAR RECOVERY PROGRAMS CAN EFFECTIVELY
  REMOVE GEAR FROM THE WATER
- TOOLS AND TECHNOLOGY PROVIDE OPPORTUNITIES
- FISHERMEN ARE SUPPORTIVE OF LOST GEAR RECOVERY PROGRAMS
- LOCAL ORGANIZATIONS CAN ADD CAPACITY AND AID IN LOST GEAR EFFORTS
- COSTS MUST BE AFFORDABLE FOR INDUSTRY AND SUPPORT THE PROGRAM





THANK YOU to the San Mateo County Harbor District for supporting the Lost Fishing Gear Recovery Program in Half Moon Bay.