

Implementing the MLMA Master Plan

Prioritizing Key California Invertebrate Fisheries



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Fishery Prioritization

Goal: Identify state-managed fisheries with the greatest need for management attention to inform implementation of the MLMA Master Plan scaled management approach

*Focus CDFW's limited resources on greatest management need

Prioritization Method

Prioritization process consists of 2 components:

- 1. Productivity Susceptibility Analysis (PSA): Assess productivity of a species and its susceptibility to current fishing practices
- 2. Ecological Risk Assessment (ERA): Assess impacts of fishery on bycatch and habitat
- Scores from PSA, Bycatch, and Habitat added to get total score/ranking

Productivity Susceptibility Analysis

- Developed through collaboration between CDFW and partners (2015-2016)
- Applied to 45 state-managed fisheries with greatest catch or landings (15 invertebrates)
- Interim priority list in 2018 Master Plan based on PSA results only

Ecological Risk Assessment

 Iterative tool development, involving partners and stakeholders

 Tool further refined by CDFW to be more streamlined and intuitive

Fishery Prioritization Status

- Finfish
 - Prioritization results presented to Commission in Fall 2019
 - High priority fisheries ran through scaled Management Approach and results provided to FGC in Feb 2020
- Today- Prioritization for 15 invertebrate fisheries

Results: Combined PSA and ERA

Species	Sector	Gear	Rank Total	PSA Rank	ERA Rank Bycatch	ERA Rank Habitat
Giant Red Sea Cucumber	Comm	Trawl	5	2	2	1
Ocean Pink Shrimp	Comm	Trawl	7	3	3	1
Ridgeback Prawn	Comm	Trawl	7	4	2	1
Spiny Lobster	Comm	Trap	7	2	3	2
Spot Prawn	Comm	Trap	9	4	3	2
Kellet's Whelk	Comm	Trap	9	4	3	2
Dungeness Crab	Comm	Trap	10	5	2	3
Spiny Lobster	Rec	Hoop net	10	3	4	3
Warty Sea Cucumber	Comm	Dive (Hand)	10	1	4	5
Red Abalone	Rec	Dive (Hand/Iron)	10	1	4	5
Rock Crab	Comm	Trap	10	5	3	2
Dungeness Crab	Rec	Trap	11	5	3	3
Pacific Geoduck Clam	Rec	Shovel	11	3	4	4
Red Sea Urchin	Comm	Dive (Hand/Rake)	13	4	4	5
Pismo Clam	Rec	Clam Fork	14	5	4	5

PSA Results

Species	Sector	Gear	PSA Rank
Warty Sea Cucumber	Comm	Dive (Hand)	1
Red Abalone	Rec	Dive (Hand/Iron)	1
Giant Red Sea Cucumber	Comm	Trawl	2
Spiny Lobster	Comm	Trap	2
Ocean Pink Shrimp	Comm	Trawl	3
Spiny Lobster	Rec	Hoop net	3
Pacific Geoduck Clam	Rec	Shovel	3
Kellet's Whelk	Comm	Trap	4
Spot Prawn	Comm	Trap	4
Red Sea Urchin	Comm	Dive (Hand/Rake)	4
Ridgeback Prawn	Comm	Trawl	4
Rock Crab	Comm	Trap	5
Dungeness Crab	Comm	Trap	5
Pismo Clam	Rec	Clam Fork	5
Dungeness Crab	Rec	Trap	5

ERA Results

Species	Sector	Gear	Ecological Risk	ERA Rank Bycatch	ERA Rank Habitat
Ridgeback Prawn	Comm	Trawl	3	2	1
Giant Red Sea Cucumber	Comm	Trawl	3	2	1
Ocean Pink Shrimp	Comm	Trawl	4	3	1
Dungeness Crab	Comm	Trap	5	2	3
Spot Prawn	Comm	Trap	5	3	2
Rock Crab	Comm	Trap	5	3	2
Spiny Lobster	Comm	Trap	5	3	2
Kellet's Whelk	Comm	Trap	5	3	2
Dungeness Crab	Rec	Trap	6	3	3
Spiny Lobster	Rec	Hoop net	7	4	3
Pacific Geoduck Clam	Rec	Shovel	8	4	4
Warty Sea Cucumber	Comm	Dive (Hand)	9	4	5
Red Sea Urchin	Comm	Dive (Hand/Rake)	9	4	5
Red Abalone	Rec	Dive (Hand/Iron)	9	4	5
Pismo Clam	Rec	Clam Fork	9	4	5

Priority for Scaled Management

Consider for Scaled Management

Ridgeback Prawn

Ocean Pink Shrimp*

Giant Red Sea Cucumber

Spot Prawn

Rock Crab

Warty Sea Cucumber

Red Sea Urchin

In progress/other considerations

Red Abalone* (FMP in progress)

Spiny Lobster* (FMP in place)

Dungeness Crab* (complex

management system)

Implementation: Scaled Management

- Scaled management addresses the questions:
 - What happens next for fisheries identified as higher priority?
 - What is the appropriate management action?
- Seeks to match the level of management effort with the management needs and complexity of the fishery
- During process, also will address fisheries or factors not contemplated in the prioritization process (e.g. emerging fishery or resource concerns)

Next Steps

Determine what scale of management is appropriate

Update the MLMA Work Plan and provide an update to the

Commission





Thank You

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