Agenda Item G.1.b Supplemental Public PPT1 (Pleschner-Steele) September 2020

SARDINE REBUILDING PLAN ~ final action



Sound bites from SSC and CPSMT

- We greatly appreciate (unanimous) recognition of these points:
 - Environmental conditions are key to stock rebuilding Environmental conditions drive sardine abundance (even without fishing)
 - Actual catch of "northern" sardine (av. 472 mt 2015-2020)
 less than 1% (0.6% ~ E= 0.006) of "northern" stock biomass (NSP)
 - Actual catches = close to rebuilding analysis for 0 US catch.
 - Alt. 1 Rebuilder model analysis assumed full ABC (E=18%) was taken every year, and assumed all landings were NSP
 - But actual catches = far below ABC and most were 'southern' stock sardines
 - Rebuilder could not model sardine dynamics and cannot predict the future

(No model can predict the future with accuracy)

- Rebuilding analysis followed Terms of Reference: based on 2020 assessment, taking into consideration the current environment.
 - Assessments were based on poor environment with no recruitment
- Rebuilding Analysis and Plan will be updated when more information is available -- nothing set in stone.

CPSMT EA ~ Sardine Rebuilding Plan

- We thank the CPSMT for its thoughtful deliberations that considered realities beyond the Rebuilder Analysis.
 - Rebuilder model excluded high productivity time periods
- CPSMT recognized that a rebuilding program is already built into current sardine HCR
 - Current HCR provides flexibility to adjust harvest as biomass changes
 - Also incorporates automatic actions typically made under rebuilding plans
 - Reduced incidental catch rates have already seriously constrained fishing operations
 - Further tightening restrictions would precipitate even higher level economic impacts, but would not guarantee stock rebuilding

Range of Alternatives

- We support Alternative 1 (status quo) ~
 - Allowing fishing as under current HCR has negligible impact on stock but keeps fisheries and industry alive
 - Rebuilding Target of 150,000 mt 1+ biomass makes sense
 - Fishery is managed by age 1+, not by spawning biomass
 - Equivalent to 121,650 mt of SSB ~ higher than median SBmsy 116,374 mt
 - Rebuilding timelines will be determined by Mother Nature
 - California CPS fishermen have been reporting recruitment
 - CWPA field research is now documenting it
- We oppose Alternative 3
 - Alt. 3 would precipitate economic disaster
 - ~ But would NOT GUARANTEE sardine recovery
 - 5% harvest rate (e.g. 1,400 mt for all uses) = death by a thousand cuts

Re: Socio-Economic Impact Analysis

- Long-term Economic importance of Sardine fishery in CA ~ (really not addressed in Socio Econ. Analysis CPSMT Report 3)
 - Average 2000-2007 (last year before in-season closures began) sardines = 38.1% of total CPS catch in CA (including squid)
 - ~ more than a third of CA's "3 legged stool" of sustainability (CWPA public comment ~ Source: Table 2.1.1-1 CPS FMP)
 - Average 2012-16 value of CA squid fishery: \$54.7 million.
- Live Bait Fishery ~
 - Inability to land sardines would curtail almost 5,000 jobs, \$602 million in sales impacts, \$222 million in income and \$309 million in gross domestic product

(SAC public comment)

 CA wetfish industry and live bait fishery need sardines to survive and Alternative 3 means that they wouldn't!

Importance of CA Wetfish Industry to CA

- Until recent years, CA's complex of of CPS fisheries produced 80+% of volume, 37% dockside value of total statewide commercial fishery harvest (based on av. landings 2000-2012)
- Important to many harbor communities
 - Volume is essential to maintain infrastructure, jobs

Port	Wetfish % of Total Port Landings	Wetfish % of Total Port XV Value
Monterey Harbor	97.5%	76.3%
Moss Landing	96.2%	66.3%
Ventura	98.7%	82% (squid)
Port Hueneme	99.9%	99.9%
San Pedro	99.6%	93.4%
Terminal Island	97.7%	81.4%
Contribution to Statewide Landings	82%	37% 6

One picture is worth a thousand words...



Figure 3.4.14. Regional landings by weight and value, with 12-year trends and average proportions for each major West Coast management group, 2000-2011. (Maps courtesy of Murdock Environmental, data source: PacFIN. Pacific Coast Fishery Ecosystem Plan p.72 2013

MSA Regulatory Requirements:

- MSA requires end to overfishing "immediately" for overfished stocks... BUT
 - MSA also provides flexibility in rebuilding timelines to consider "stocks with unusual life history characteristics"
 - MSA also requires every action to be consistent with all 10 National Standards. Councils are required to consider impacts to fishing communities, as well as biology, when developing a rebuilding plan
 - Courts have upheld rebuilding plans that allow fishing at status quo levels to continue for a certain number of years in order to mitigate economic hardships.
 - The MSA does not require that the most drastic action be taken.
 - MSA does allow directed fishing during rebuilding
 - MSA does not require instant recovery
 - OY is long-term goal, measured as an average
 - The rebuilding plan should not require US fishermen to make up for Mexican harvest – it has to reflect their "relative" participation

In Summary ~ Please consider:

- Curtailing fishing unlikely to hasten recovery (CPSMT Report)
- MSA allows flexibility in rebuilding plans: permits directed fishing to continue in order to meet the needs of fishing communities
- Further restrictions would precipitate socio-economic disaster
- Please support the CPSMT Recommendations for Alternative 1 "Status Quo" as the Rebuilding Plan
 - and retain the flexibility of current "status quo" management
- We also support CPSAS request for review of rebuilding plan and analysis in 2021 as soon as possible after 2021 NOAA summer AT survey
 - 2020 survey was cancelled due to COVID restrictions
 - 2021 survey should include both AT survey of offshore and AT survey of nearshore using industry vessels
 - plus CDFW/CWPA Aerial Survey in CA

Evidence of Recruitment & Abundance the good news

From CWPA testimony Agenda Item G.1.b, Supp. Pub. Comm. June 2020

 Thanks to Council support for our "directed fishing" EFP, NMFS approved it and we are producing new evidence:



10-70g = YOY 70-90g = 1yr 90-110g = 2 yr 122g = 4 yr 200g+ = 5-6 yr

Based on Butler et al 1993 CalCOFI & R.Parrish model

Sample from 32 ton landing in Monterey on 6/8/20

10

Images from CDFW/CWPA 2020 Aerial Survey + Directed Sardine Fishing

- Central Coast Survey going on now
- Sampling schools to collect biological data
- Directed sardine fishing also collecting bio data
- CWPA thanks CDFW for their dedication to help us improve the science behind stock assessments



Sardine sample ~ Stratum N8



Orange sky (from fires) grounded plane for a few days





Sonar & fathom – 50 t sardine set near HMB 9/13



Questions?

