Background

• National Standard 1 (NS1) requires that U.S. fisheries management:
  • Prevent overfishing
  • Achieve optimum yield
• NS1 guidelines provide guidance on *how* to achieve these requirements
• NMFS last revised the NS1 guidelines in 2016
  • Phase-in
  • Carry-over
NS1 Technical Guidance Workgroup

Purpose: Develop technical guidance on National Standard 1 (NS1) guideline topics to support decision-making.

- Address key concepts within 2009 and 2016 revisions.
- Will result in multiple work products.
NS1 Technical Guidance Workgroup

• Divided into 3 subgroups.
  • Subgroup 1: Reference points
  • Subgroup 2: Carry-over and Phase-in
  • Subgroup 3: Data limited stocks
NS1 Technical Guidance Workgroup

• Divided into 3 subgroups.
  • Subgroup 1: Reference points
  • Subgroup 2: Carry-over and Phase-in
  • Subgroup 3: Data limited stocks
Phasing-in changes to catch levels

Must prevent overfishing each year
Carry-Over Approach #1: Utilizing ACL buffer

- Overfishing Limit
- Acceptable Biological Catch
- Annual Catch
- Limit year 2
- Annual Catch
- Limit year 1

Carry-over

Year 1

Year 2
Consider the stock’s **condition** & the **reason** for the underage prior to carrying-over.
Tech Memo on Carry-over and Phase-in

**NS1 Technical Guidance** for Designing, Evaluating, and Implementing Carryover and Phase-in Provisions within ABC Control Rules.

- Examples of carry-over and phase-in provisions.
- Approaches to implement and evaluate carry-over and phase-in.
- Characteristics of fish stocks/fisheries/management that impact risks and benefits of carry-over and phase-in.
Tech Memo on Carry-over and Phase-in

• Council staff liaisons
  • Dr. Ryan Rindone (GMFMC)
  • Josh DeMello (WPFMC)

• Status:
  • Draft under internal review.
Potential Benefits of carry-over

- Safety
- Economic stability
- Management stability
- Multispecies catch share fisheries
Approaches to implement and evaluate carry-over

Develop carry-over provision within ABC control rule

• NS1 Guidelines advise:
  • Describe when the carry-over provisions can/cannot be used
  • Conduct comprehensive analysis
  • Consider reason for the ACL underage
  • Evaluate if appropriate for overfished/rebuilding stocks
Approaches to implement and evaluate carry-over

Develop carry-over provision within ABC control rule - continued

- Additional factors to consider:
  - Which stocks are eligible for carry-over?
  - How will underages be determined?
  - Account for multiple fishery sectors
  - Limit the amount of carryover
  - Process for making changes to ABC and ACL
  - Evaluate with a management strategy evaluation to test for robustness
  - Consult with SSC and applicable NMFS Science Center
Approaches to implement and evaluate carry-over

Case-by-case basis

- Rerun the projections that were used in the last stock assessment with revised catch estimates.
- Scenario planning within a stock assessment.
Potential Benefits of Phase-in

- Greater stability/less variability in ACLs over time
- Lower management uncertainty (easier for managers to control catch when ACLs shifts are smaller)
Approaches to implement and evaluate phase-in

Develop phase-in provisions within ABC control rule

- **NS1 Guidelines advise:**
  - Describe when the phase-in provisions can/cannot be used
  - Conduct comprehensive analysis
  - Phase-in time may not exceed 3 years
  - Prevent overfishing each year
  - Evaluate if appropriate for overfished/rebuilding stocks
Approaches to implement and evaluate phase-in

Develop phase-in provisions within ABC control rule - continued

- Additional factors to consider:
  - Which stocks are eligible?
  - Phasing in increases and decreases to ABC
  - Maintaining a minimum buffer between ABC and OFL
  - Generation time of stock, assessment precision, and length of time between assessments
  - Evaluate with a management strategy evaluation to test for robustness
Example of phase-in from old to new sigma values

- OFL
- Old ABC Control Rule (Cat.1, P*=0.4)
- New ABC CR (Cat.1, P*=0.4, 6-10 yrs)
- Potential Phase-in

New assessment in 2015
New Spex in 2017
New Sigmas in 2021
183 mt
74 mt
Approaches to implement and evaluate phase-in

Case-by-case basis

- SSC may recommend ABC that differs from the result of the ABC control rule.
- Run projections based on the most recent assessment with the proposed ABCs.
Characteristics of fish stocks and fisheries that impact risks of carry-over and phase-in

• Life history characteristics
• Stock structure, status, and spatial dynamics
• Jointly targeted and bycatch species
• Assessment availability and frequency
• ACL overages and catch uncertainty
Next Steps

• Plan to make draft available to SSCs for review in summer 2019.
• Plan to present to CCC in November.

Points of Contact

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Thank you!