



SPOTTED SEATROUT MANAGEMENT SCENARIOS

Jason Adriance | LWFC Meeting | January 9, 2020

Stock Projections

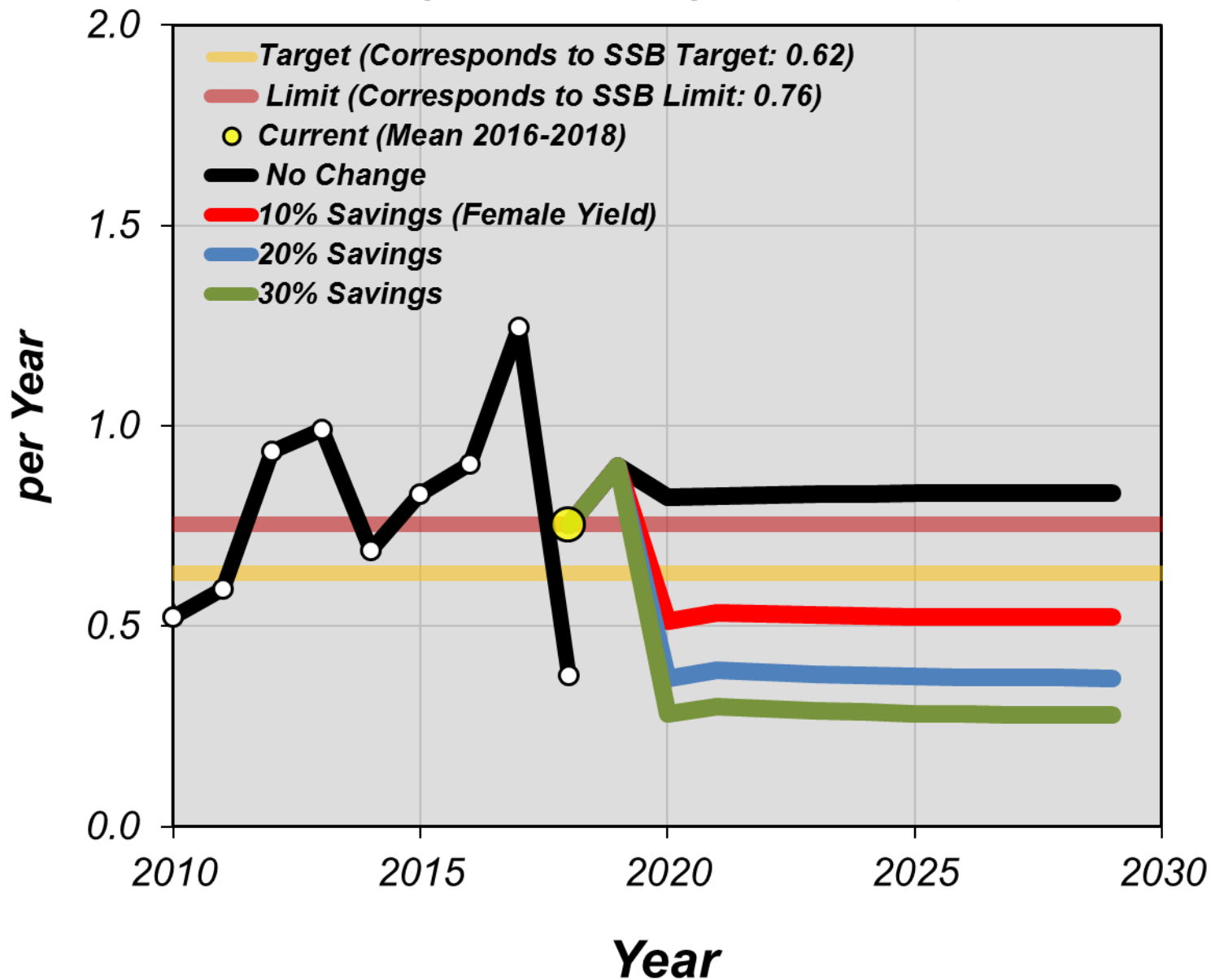


Projection Summary

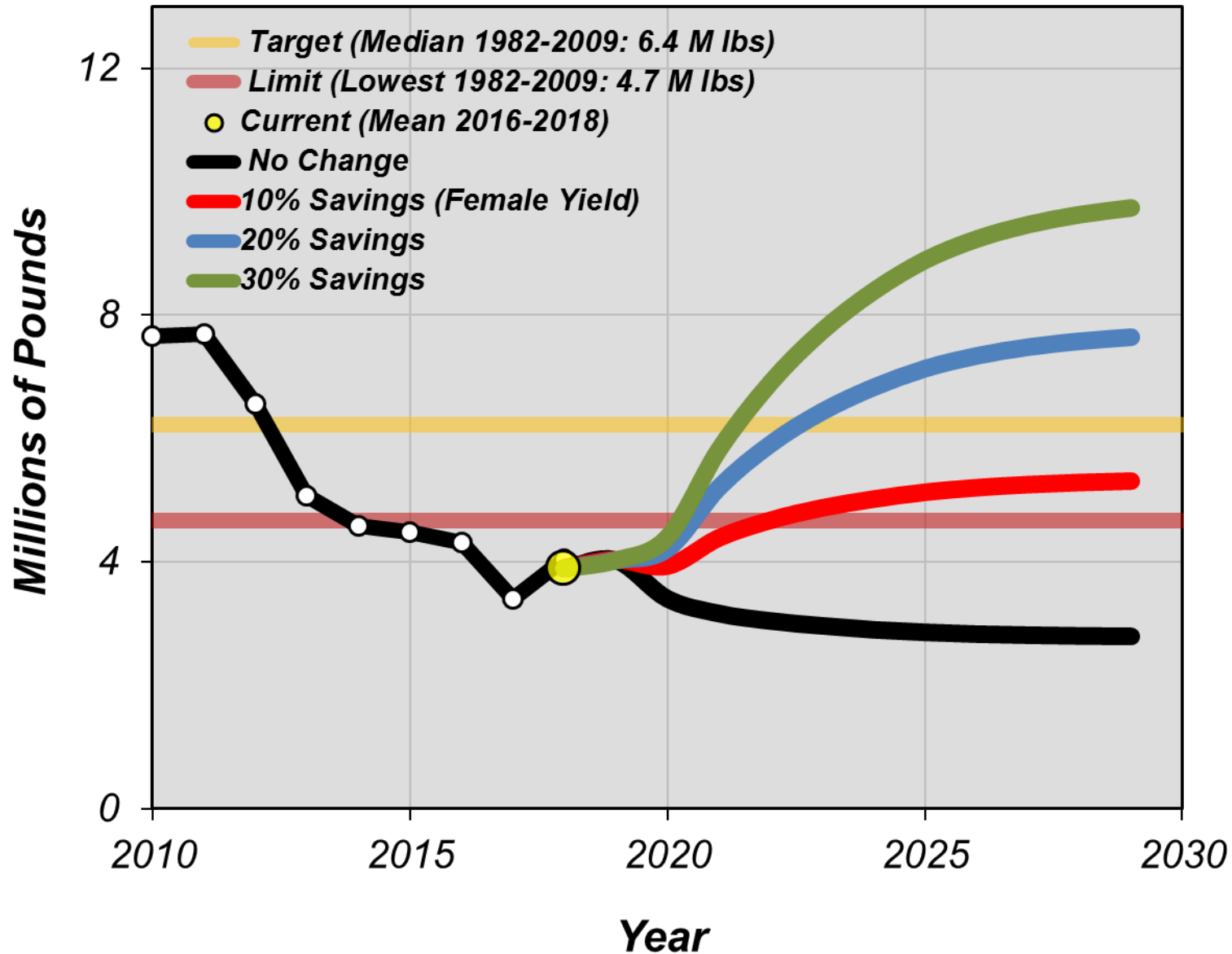
- **Ten-year stock projection (2020-2029) of base model**
- **Projected population metrics are stock status indicators only (SSB, SPR, and average F)**
- **Future recruitment levels assumed equivalent to the most recent decade (mean 2009-2018)**
- **Future winter severity impacts also assumed equal to most recent decade (mean 2009-2018)**
- **Each management scenario represents a specific percent savings of female landings in terms of weight (5, 10, 15, 20, 25, and 30%)**



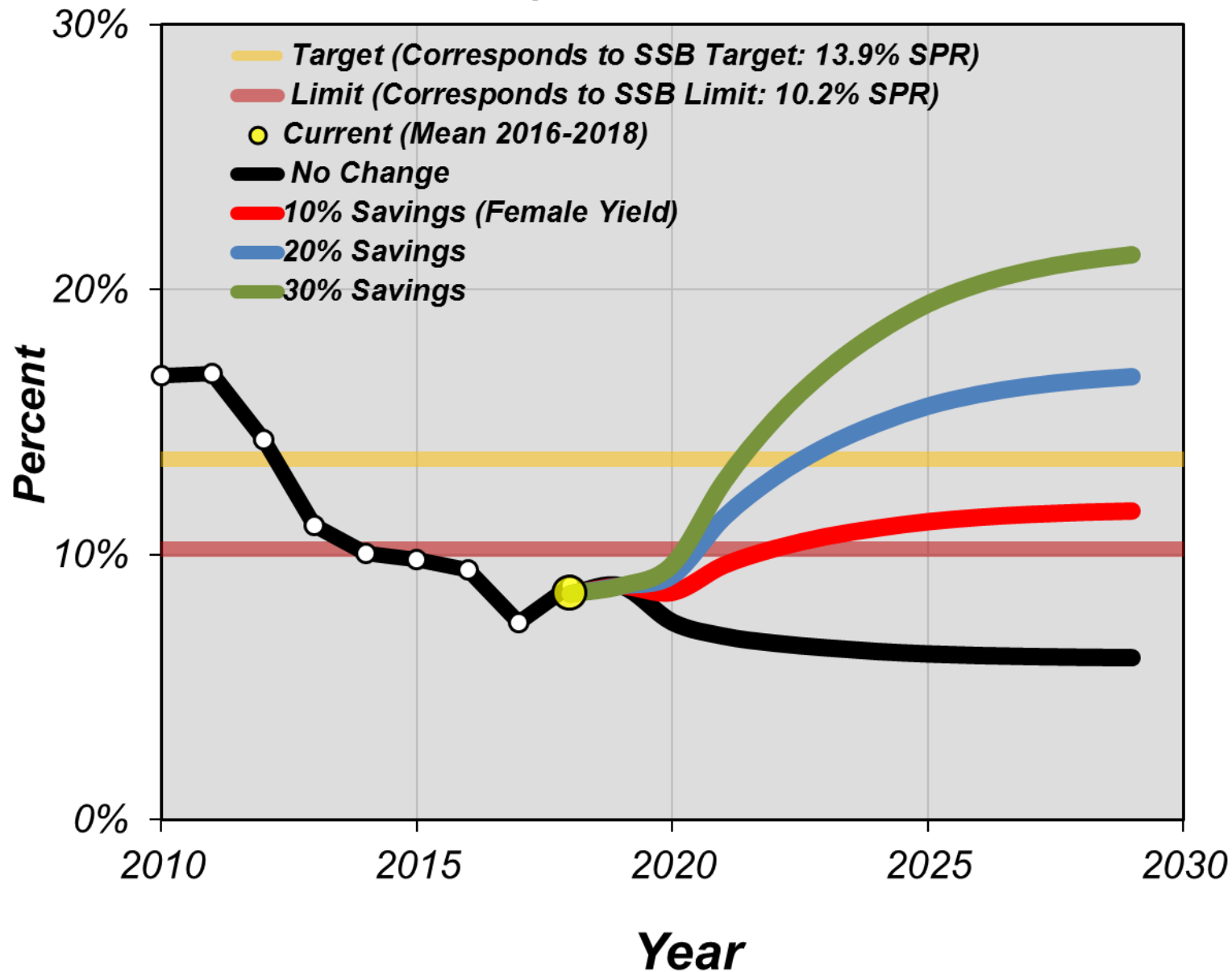
Average Fishing Mortality



Female Spawning Stock Biomass



Spawning Potential Ratio



Fishery Savings

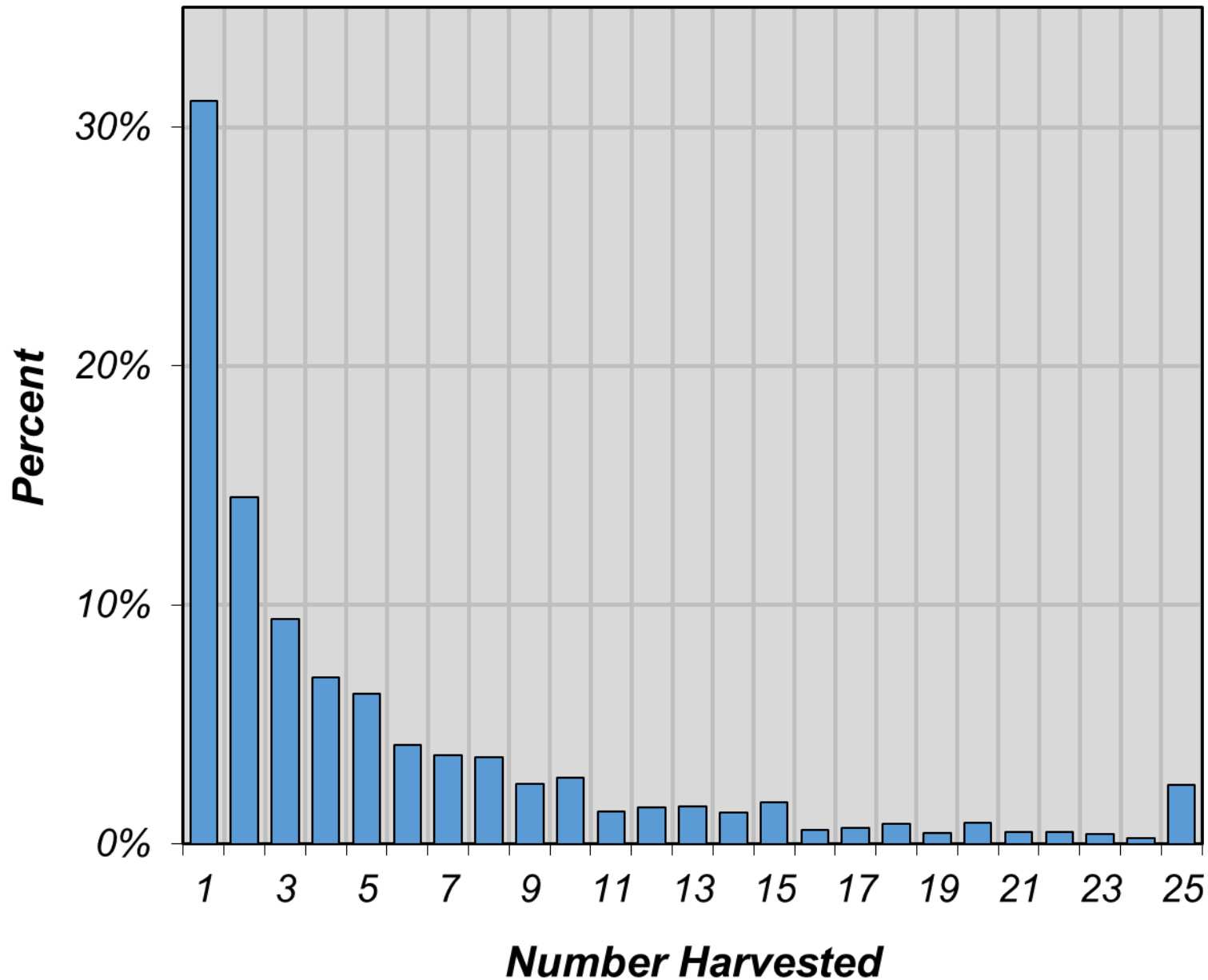


Fishery Savings Summary

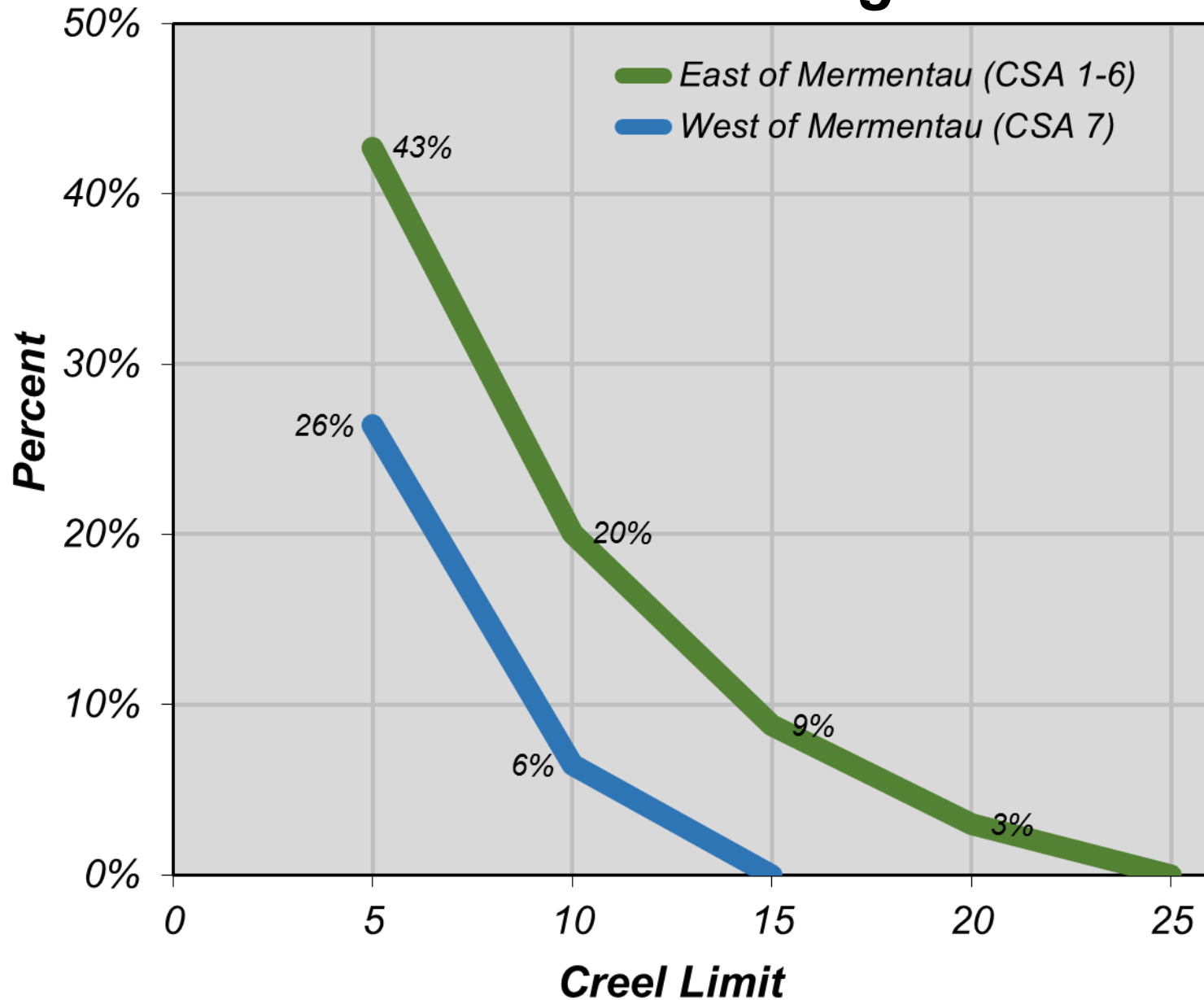
- **Fishery savings calculated from the LDWF Recreational Creel and Biological Sampling Programs (2016-2018)**
- **Savings in terms of female landings in weight reductions**
- **Savings from creel and size limit changes only**
- **Creel limit savings based on future directed effort remaining comparable to current**
- **Size limit savings based on two discard mortality assumptions: 10% base case and 25% worse case**



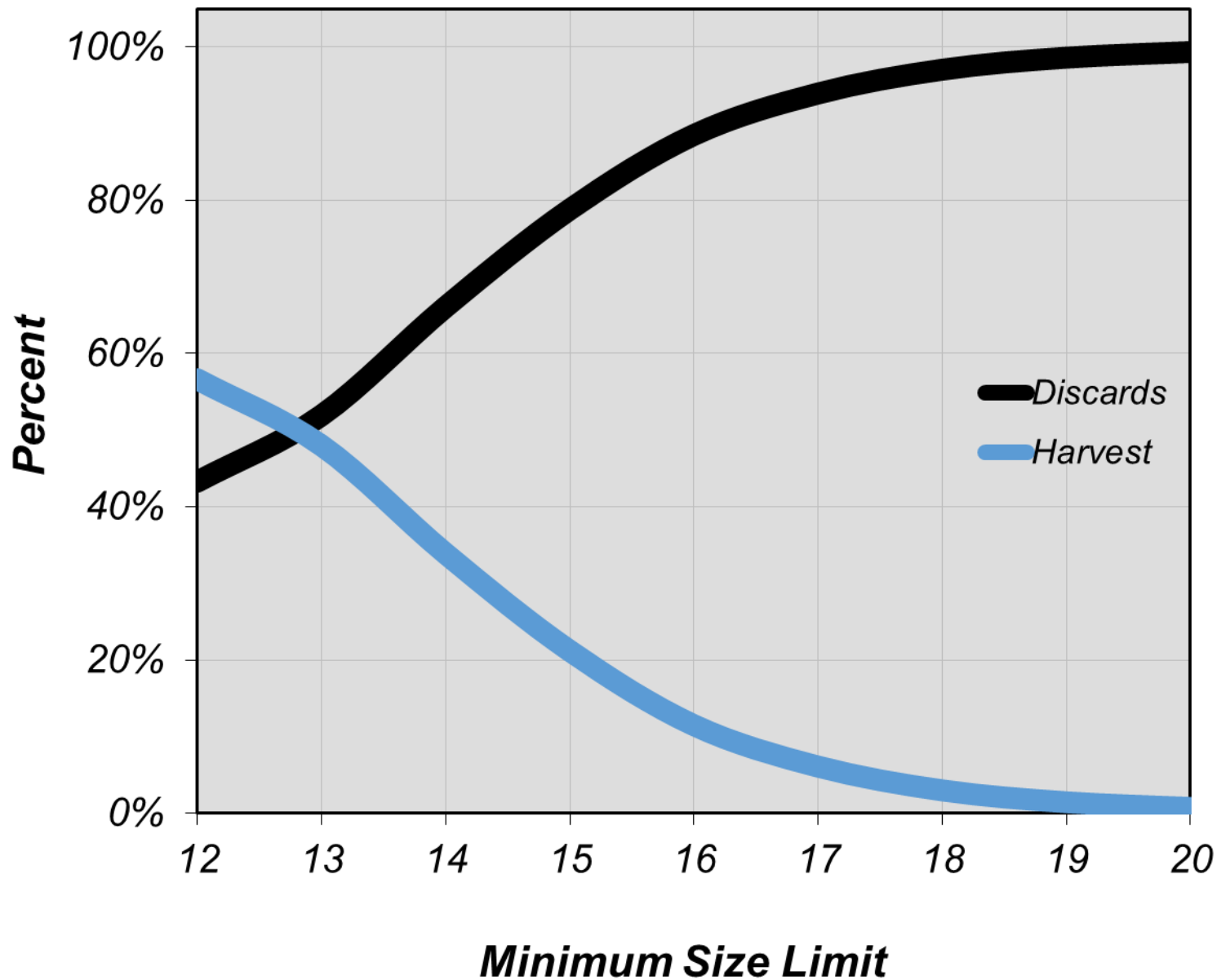
Angler Trip Harvest Frequency



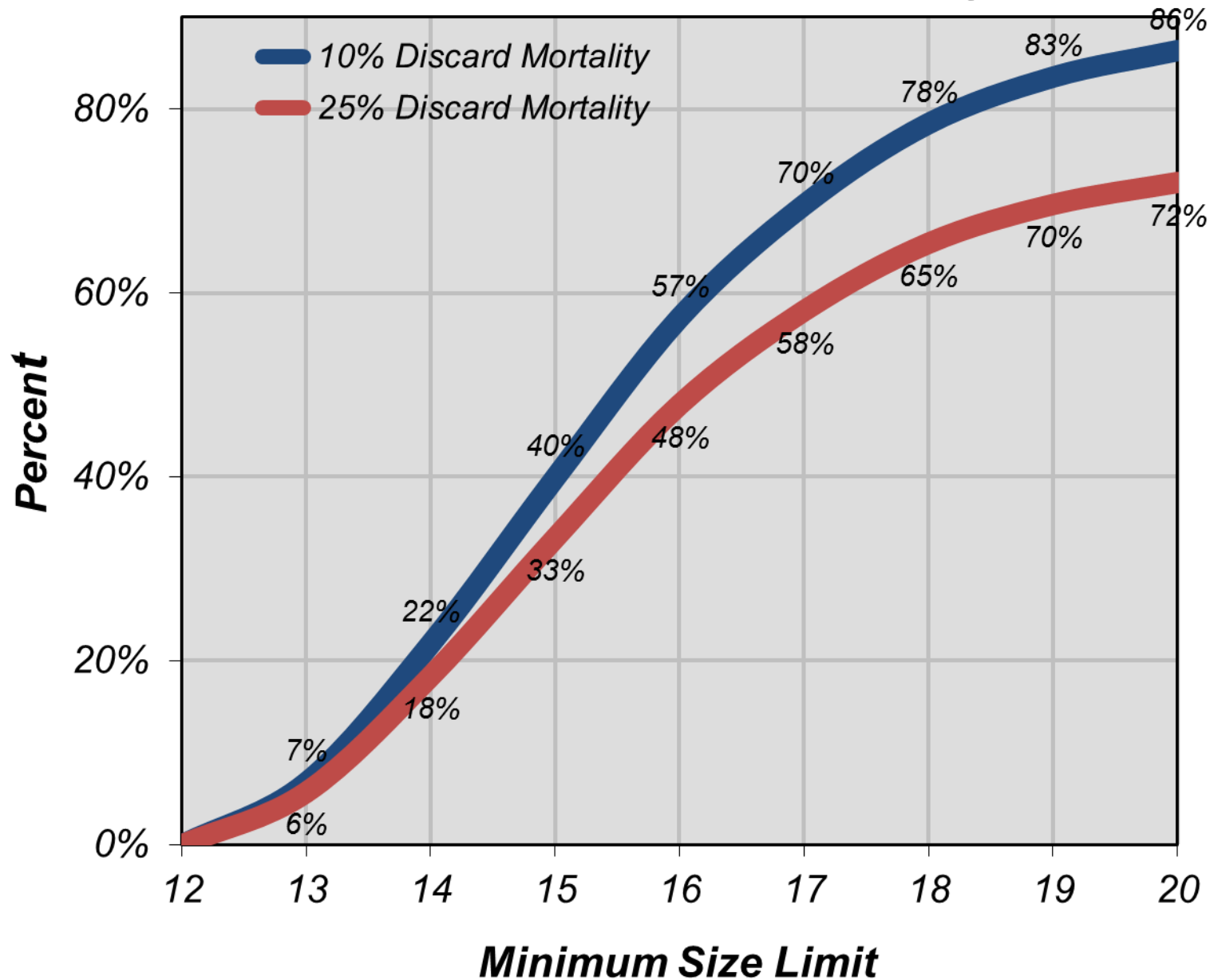
Creel Limit Savings



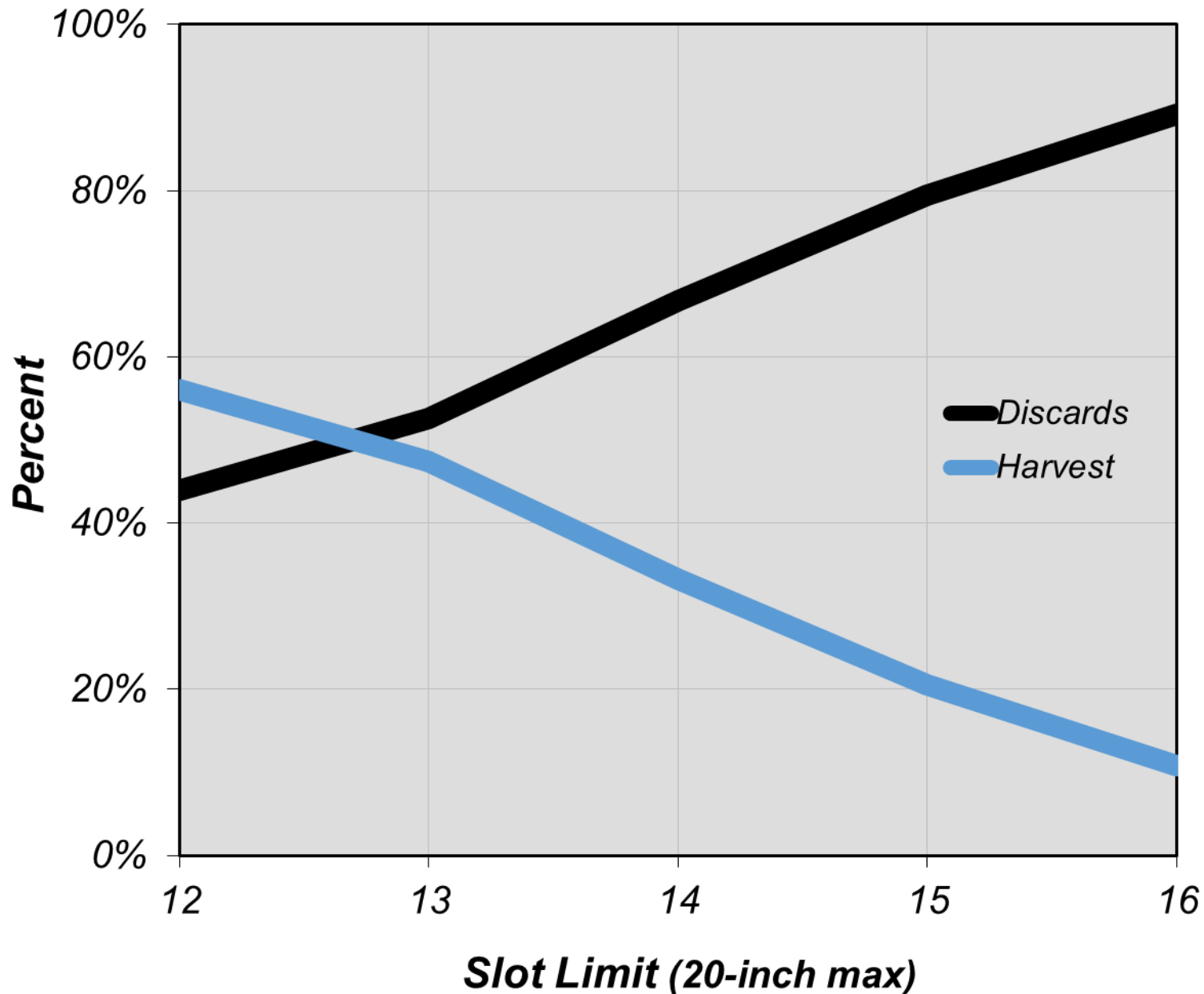
Size Limit Tradeoff (Harvest vs. Discards)



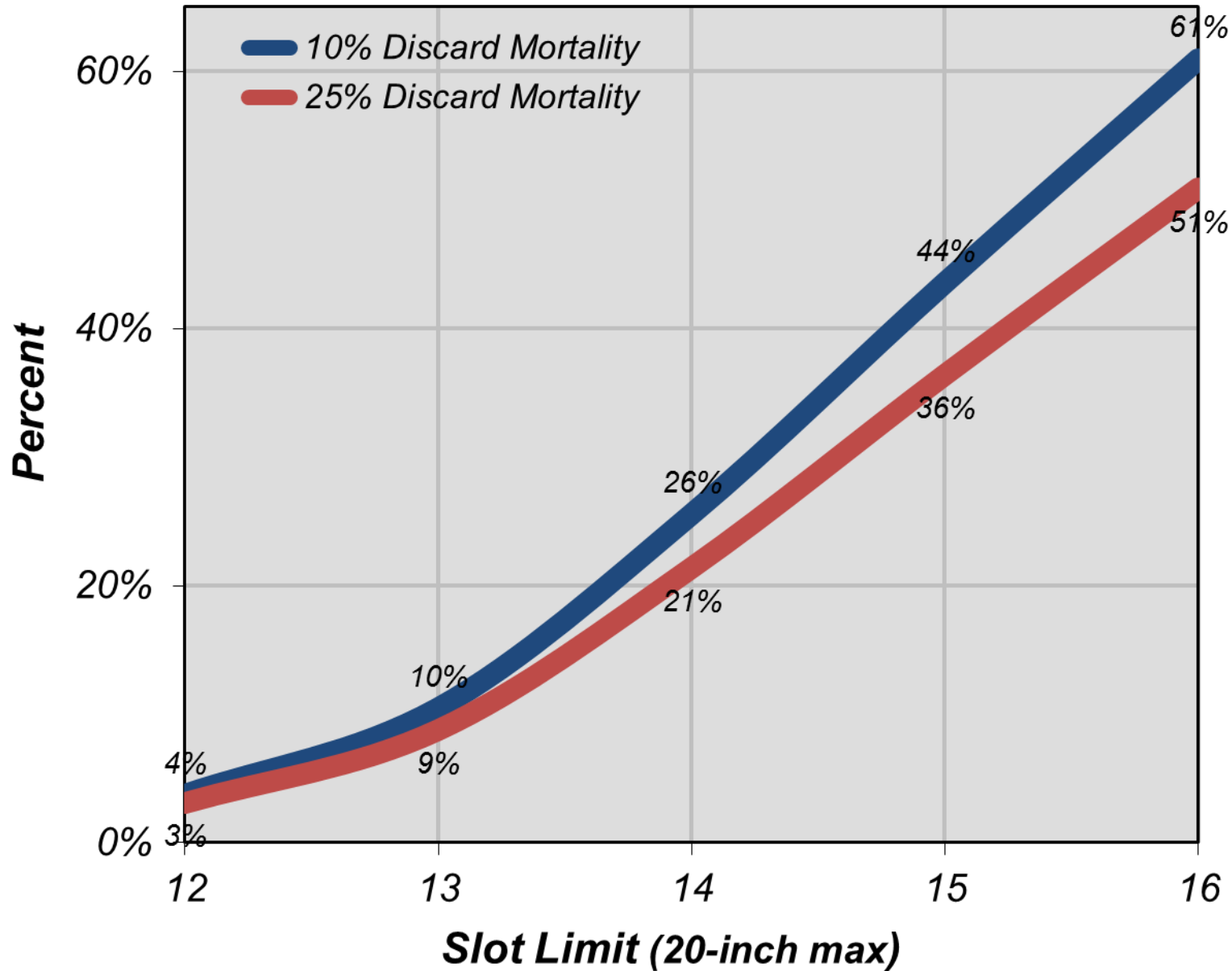
Minimum Size Limit Savings



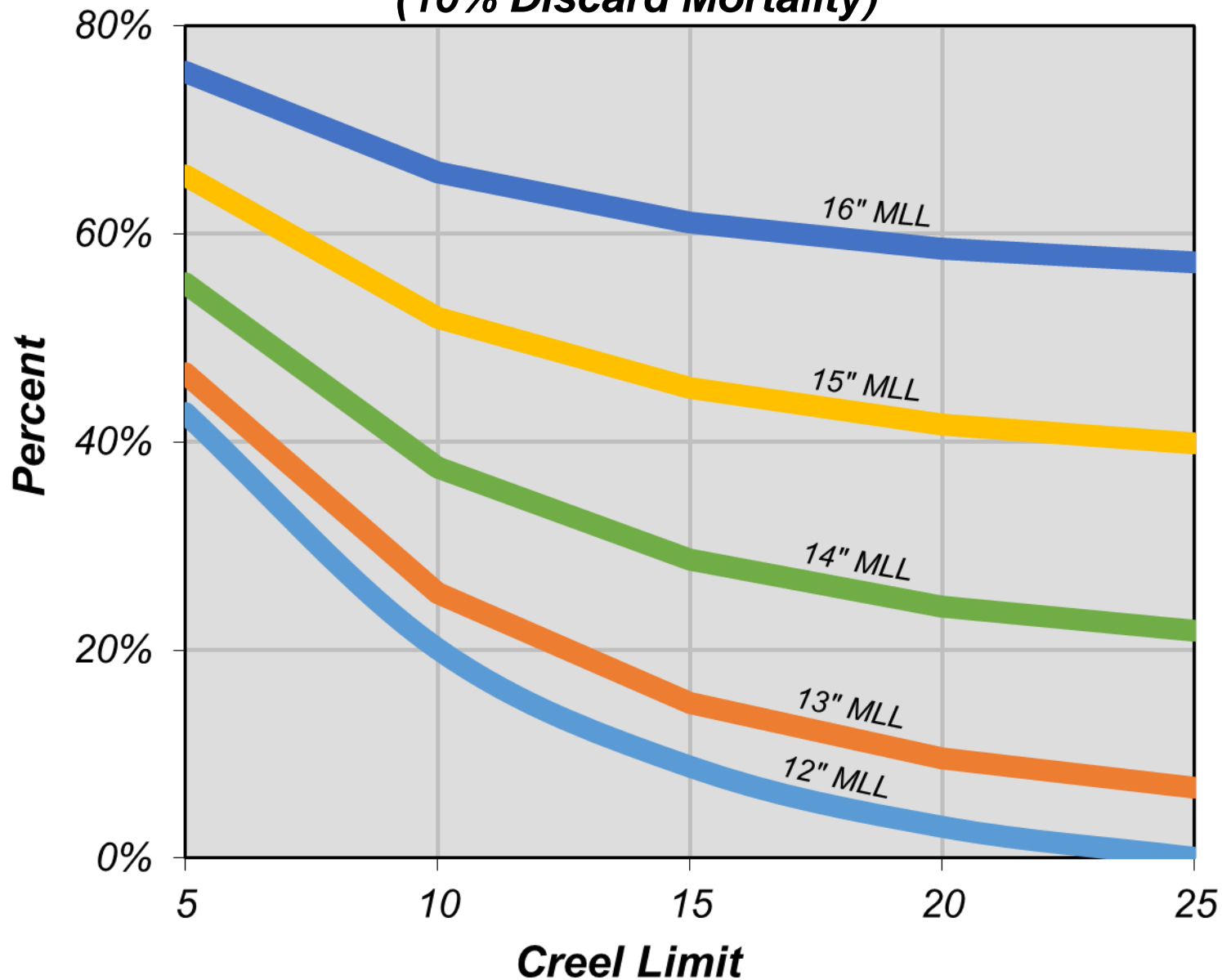
Size Limit Tradeoff (Harvest vs. Discards)



Harvest Slot Limit Savings

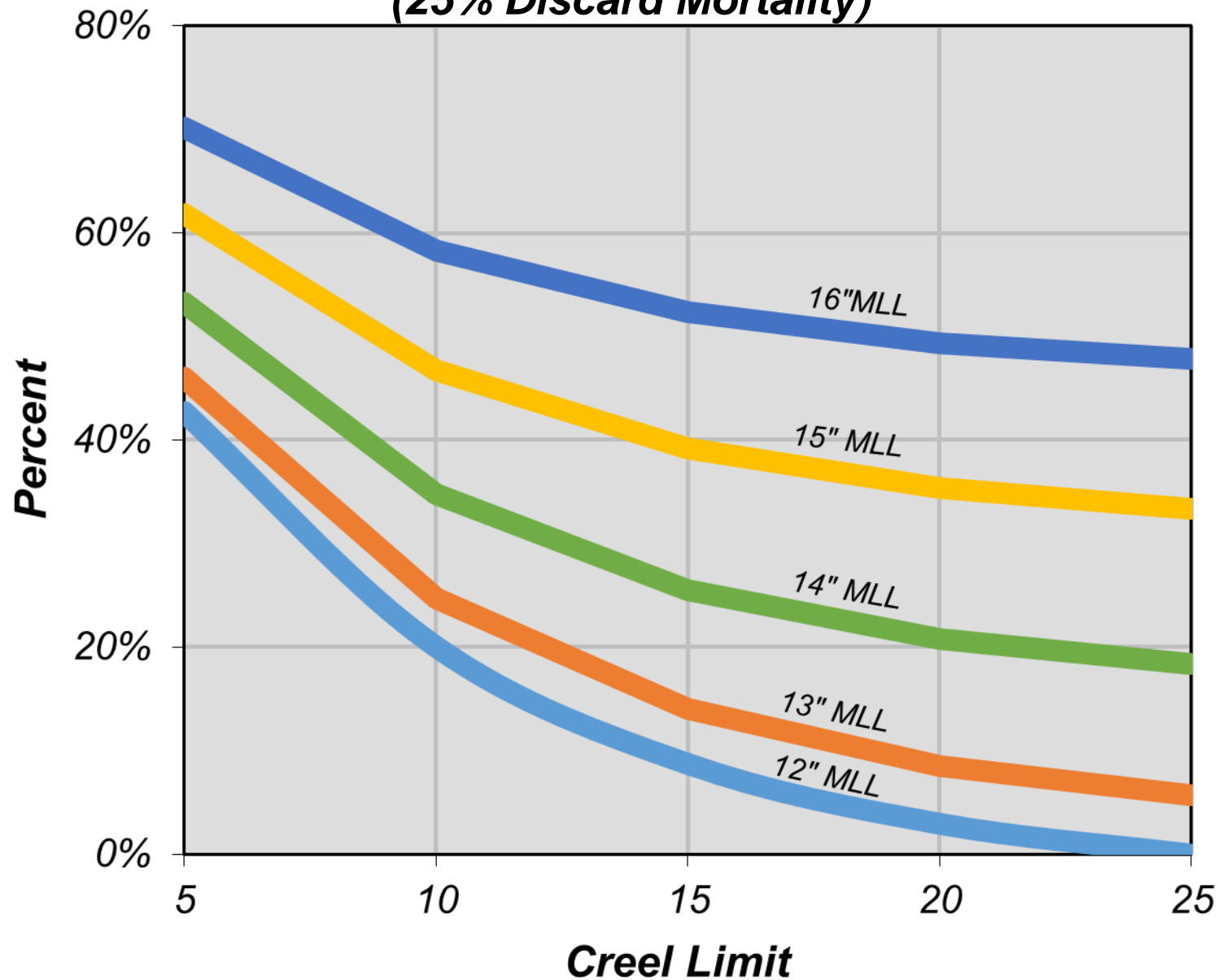


Creel and Minimum Size Limit Savings ***(10% Discard Mortality)***

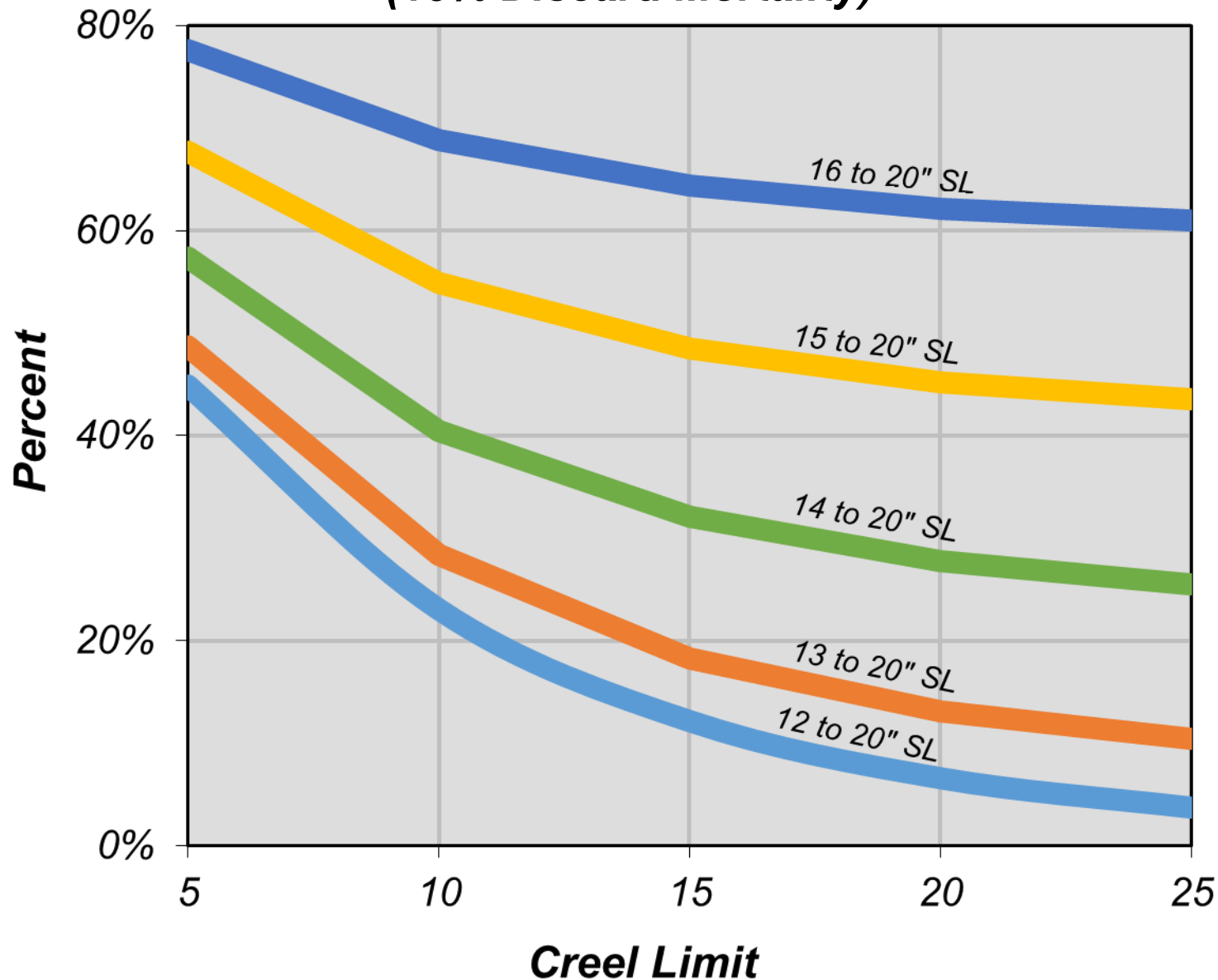


Creel and Minimum Size Limit Savings

(25% Discard Mortality)

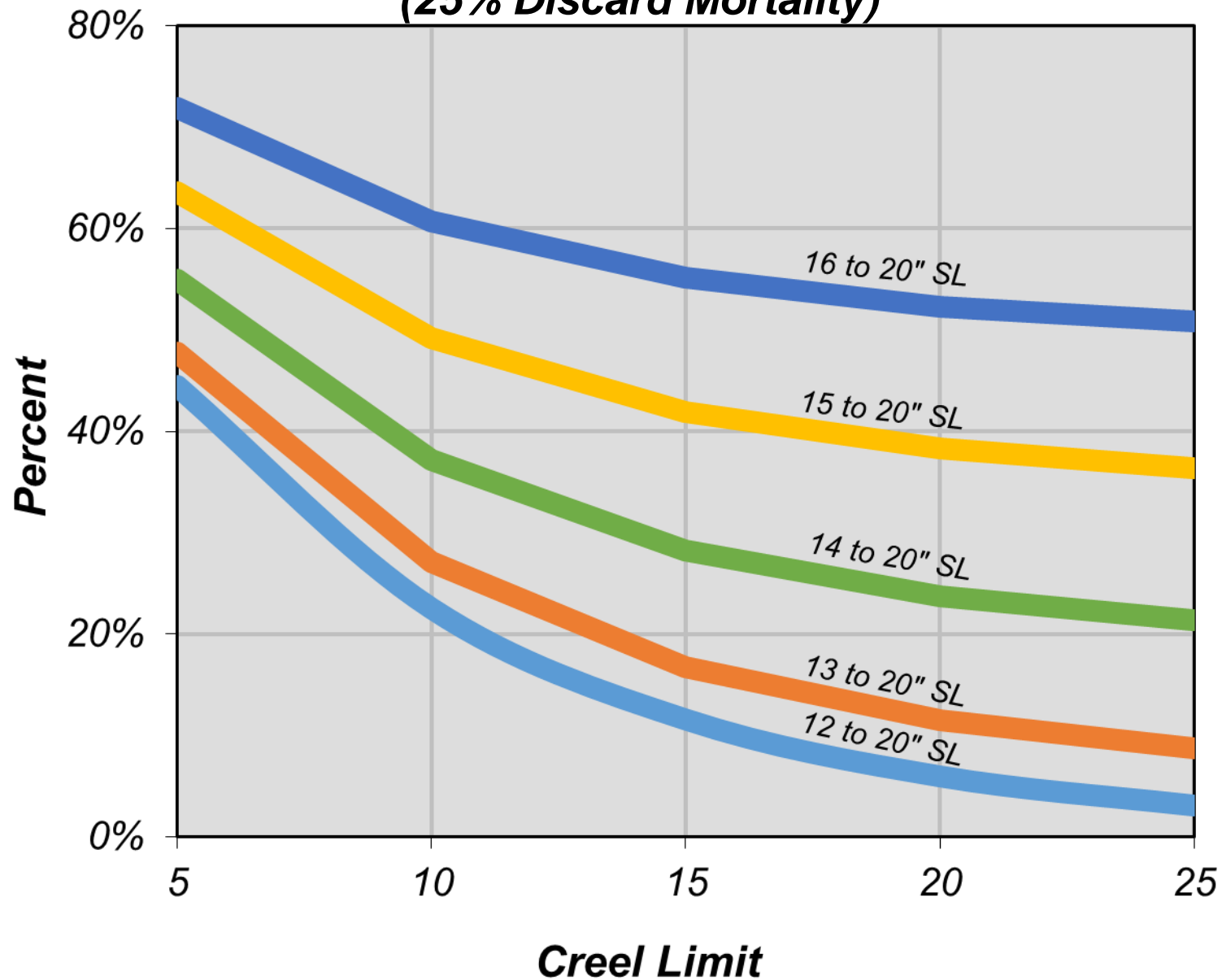


Creel and Harvest Slot Limit Savings (10% Discard Mortality)



Creel and Harvest Slot Limit Savings

(25% Discard Mortality)



Next Steps

- Recover stock (SSB, SPR) to target or above by 2025
- Recovery assumptions:
 - Future recruitment = recent recruitment (mean of most recent decade)
 - Future winter severity = recent winter severity (mean of most recent decade)
 - Future directed effort will remain comparable to current
 - Discard mortality rate: 10% base case, 25% as worst case



Recovery Options

- Recover stock (SSB, SPR) to target or above by 2025
 - Creel limit changes only
 - Size limit changes only (including slot limits)
 - Any combination of creel and size limit changes
 - Alternative: Fishery closures
 - Supplemental: Special regulations following significant freeze events (will require further development of options)



Questions ?

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