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# SEDAR 57 Spiny Lobster

CFMC SSC Meeting  
September 16-17, 2020

# CONSTANT CATCH ABC FOR SPINY LOBSTER

1. **STT & STX**, Landings through 2019 were available and utilized. *SEDAR 57 time varying projections were updated to show the effect of updated 2019 and 2020 inputs*
2. **PR, STT, & STX**, *SEDAR 57 projections were updated to show the effect of implementing constant ABCs for 2021-2023 (based on a 3-year mean of the time varying projections)*

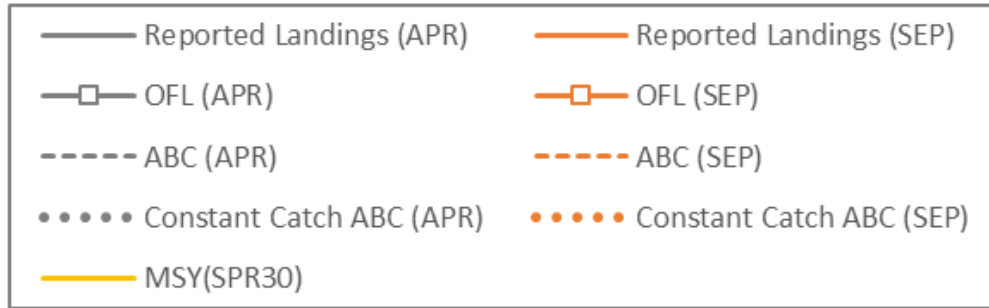


## Step 1: Obtain avg. values over which to run the constant catch ABC

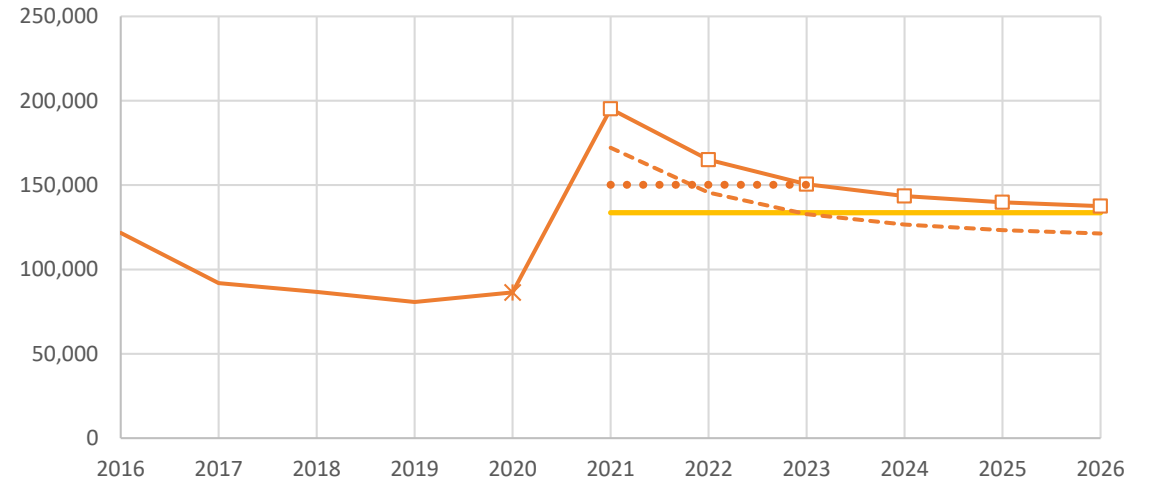
Year	PR		STT				STX			
	April 2020 OFL	April 2020 ABC	April 2020 OFL	April 2020 ABC	September 2020 OFL	September 2020 ABC	April 2020 OFL	April 2020 ABC	September 2020 OFL	September 2020 ABC
2016	446,035		121,695		121,695		31,528		31,582	
2017	282,104		91,911		91,911		26,191		26,193	
2018	518,461		86,201		86,708		10,957		10,970	
2019*	647,476		100,773		80,689		22,906		15,325	
2020*	482,680		100,773		86,436		22,906		17,496	
2021	406,257	<b>358,283</b>	186,341	164,337	195,223	<b>172,170</b>	197,709	174,363	200,020	<b>176,400</b>
2022	425,164	<b>374,958</b>	160,714	141,736	165,021	<b>145,534</b>	158,538	139,817	159,452	<b>140,623</b>
2023	430,109	<b>379,319</b>	148,335	130,819	150,497	<b>132,725</b>	143,801	126,820	144,219	<b>127,189</b>
2024	431,140	380,229	142,313	125,508	143,505	126,559	137,668	121,411	137,896	121,612
2025	431,566	380,604	139,044	122,625	139,760	123,257	134,529	118,643	134,672	118,769
2026	431,905	380,903	137,056	120,872	137,507	121,269	132,599	116,941	132,697	117,028
Constant ABC		<b>370,853</b>			<b>150,143</b>				<b>148,071</b>	

- In PR, landings are complete through 2018 and nearly complete for 2019. In 2017 and 2019, the correction factors from the immediately previous years were used. The 2020 values were set equal to the average landings by gear from 2017-2019.
- In STT & STX, landings are complete through 2019. The 2020 values were set equal to the average landings by gear from 2017-2019.

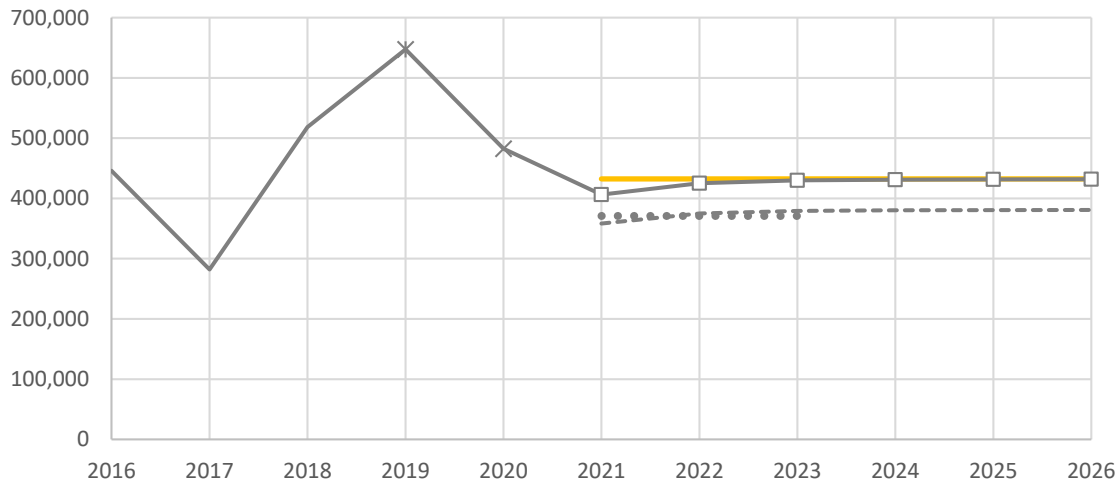
# Step 1: Obtain avg. values over which to run the constant catch ABC



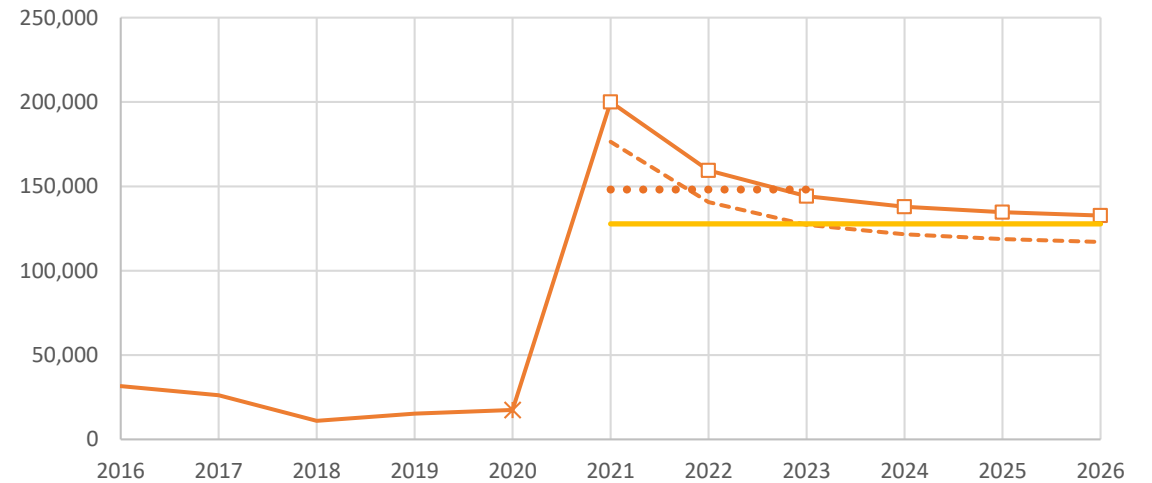
St. Thomas/St. John - Updated Projections (lbs)



Puerto Rico - Updated Projections (lbs)



St. Croix - Updated Projections (lbs)



## Step 2: Evaluate effect of implementing constant ABCs

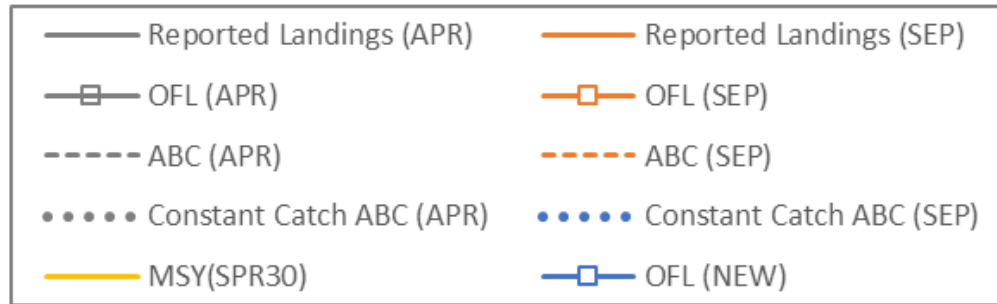
Year	PR				STT				STX			
	Time Varying OFL	ABC	Constant ABC	New OFL	Time Varying OFL	ABC	Constant ABC	New OFL	Time Varying OFL	ABC	Constant ABC	New OFL
2016	446,035				121,695				31,582			
2017	282,104				91,911				26,193			
2018	518,461				86,708				10,970			
2019*	647,476				80,689				15,325			
2020*	482,680				86,436				17,496			
2021	406,257	358,283	<b>370,853</b>	406,257	195,223	172,170	<b>150,143</b>	195,223	200,020	176,400	<b>148,071</b>	200,020
2022	425,164	374,958	<b>370,853</b>	434,322	165,021	145,534	<b>150,143</b>	182,753	159,452	140,623	<b>148,071</b>	171,319
2023	430,109	379,319	<b>370,853</b>	449,703	150,497	132,725	<b>150,143</b>	173,243	144,219	127,189	<b>148,071</b>	154,390

### ABC as a percent of OFL

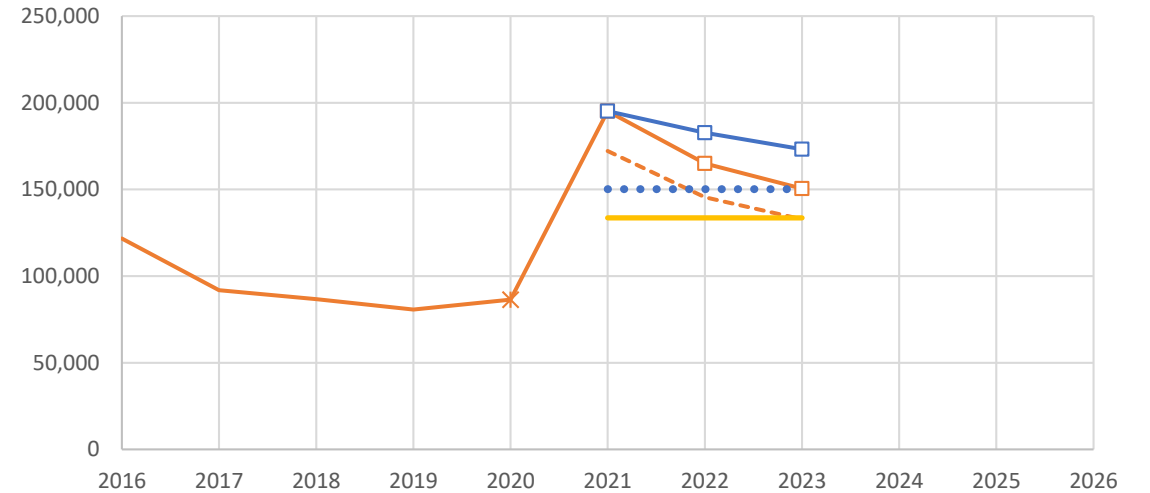
Year	Time Varying ABC/ Time Varying OFL	Constant ABC/ New OFL	Time Varying ABC/ Time Varying OFL	Constant ABC/ New OFL	Time Varying ABC/ Time Varying OFL	Constant ABC/ New OFL
2021	88.19%	<b>91.29%</b>	88.19%	<b>76.91%</b>	88.19%	<b>74.03%</b>
2022	88.19%	<b>85.39%</b>	88.19%	<b>82.16%</b>	88.19%	<b>86.43%</b>
2023	88.19%	<b>82.47%</b>	88.19%	<b>86.67%</b>	88.19%	<b>95.91%</b>
<b>Average:</b>	<b>88.19%</b>	<b>86.38%</b>	<b>88.19%</b>	<b>81.91%</b>	<b>88.19%</b>	<b>85.46%</b>



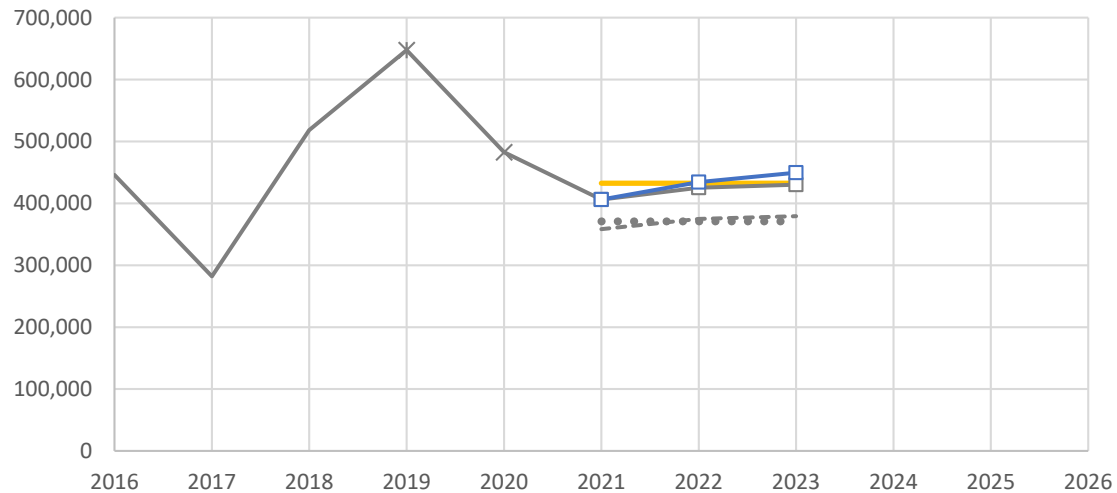
## Step 2: Evaluate effect of implementing constant ABCs



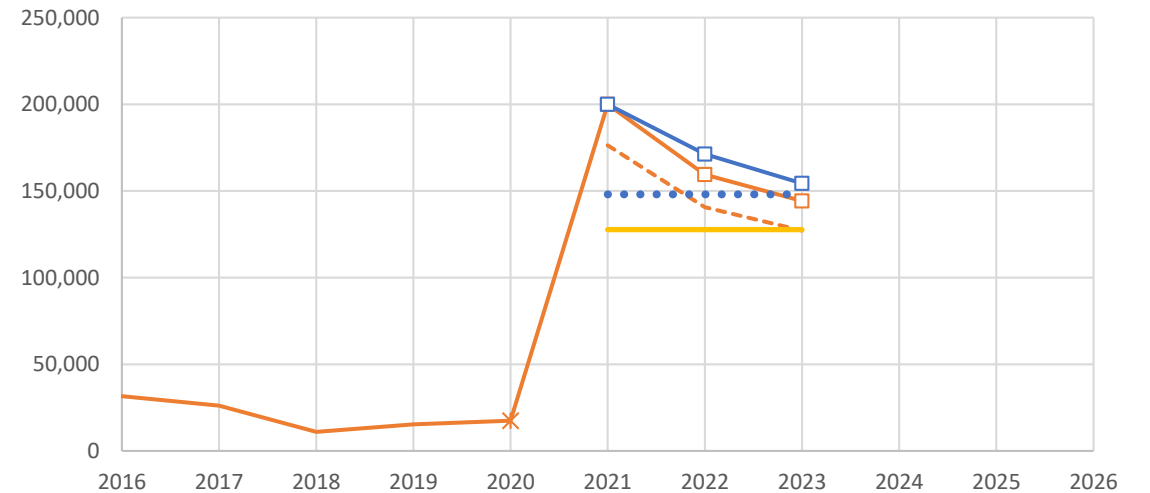
St. Thomas/St. John - Updated Projections (lbs)



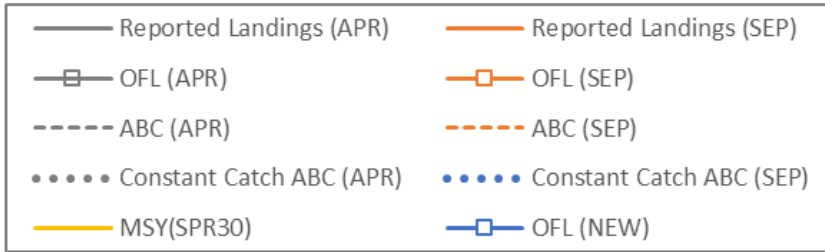
Puerto Rico - Updated Projections (lbs)



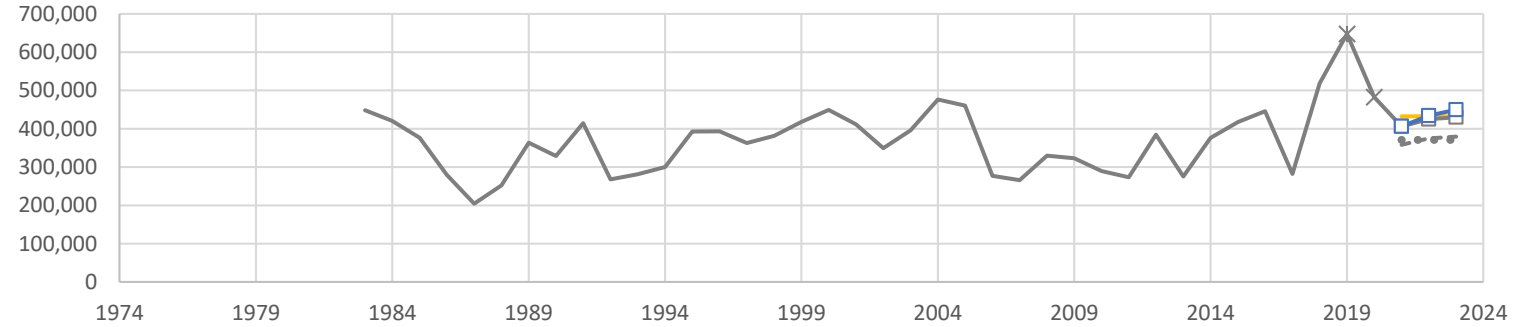
St. Croix - Updated Projections (lbs)



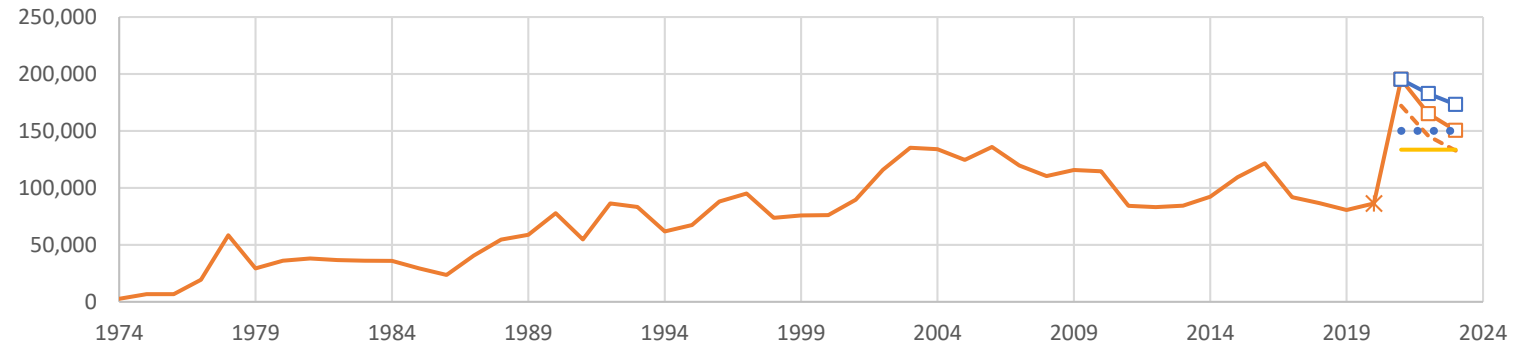
## Step 2: Evaluate effect of implementing constant ABCs



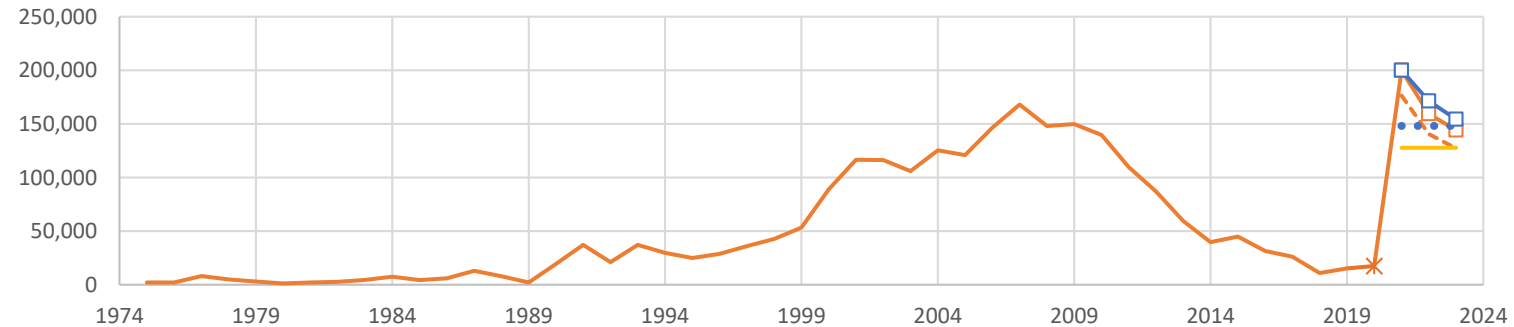
Puerto Rico - Updated Projections (lbs)



St. Thomas/St. John - Updated Projections (lbs)



St. Croix - Updated Projections (lbs)



# Questions?

