Outcome: Blue Crab Abundance and Management

**Goal**: Sustainable Fisheries-Protect, restore and enhance finfish, shellfish and other living resources, their habitats and ecological relationships to sustain all fisheries and provide for a balanced ecosystem in the watershed and Bay.

**Outcome**: Manage for a stable and productive crab fishery including working with the industry, recreational crabbers and other stakeholders to improve commercial and recreational harvest accountability. By 2018, evaluate the establishment of a Bay-wide, allocation-based management framework with annual levels set by the jurisdictions for the purpose of accounting for and adjusting harvest by each jurisdiction. Maintain a sustainable blue crab population based on the current 2012 target of 215 million adult females. Refine population targets through 2025 based on the best available science.

**Long term Target**: Maintain a sustainable blue crab population according to targets determined by the best available science and evaluate an jurisdictional allocation framework.

**2 year Target**: Provide support for the annual winter dredge survey and the 2017 comprehensive stock assessment. Analyze the data from the dredge survey and stock assessment to determine the new target for blue crab abundance.

## **Draft Date 3/17/16**

Note: Project cost and funding will not be published on the CBP website.

Key Action**  Description of work/project.  Define each major action step on its own row. Identify specific	Performance Target(s) Identify incremental steps to achieve Key Action.	Participating Entity Identify responsible partner for each step.	Geographic Location	Timeline Identify completion date (month & year) for each step)	Estimated Project Cost  Best estimate of total  project cost (needed)	Available funding by Partner	Factors Influencing and/or Gap Identify related factor or gap in Management Strategy
	Finalize the terms of reference and scope of the assessment. Determine the timeline for each component of the assessment.	Fishery Managers (MD DNR, PRFC, VMRC), UMCES, VIMS, CBSAC	n/a	early 2016	Staff time	MD DNR, PRFC, VMRC, UMCES, VIMS, CBSAC staff time	
Finalize plans for the next stock assessment.	Identify possible funding mechanisms to support the assessment.	MD DNR, PRFC, VMRC, NCBO	n/a	early-mid 2016	Staff time	GAP - stock assessment funding	Terms of reference have been finalized. Stock assessment timeline will be influenced by funding availability.
	Review proposal and scope of work for the assessment and distribute funding to Principal Investigators.	MD DNR, PRFC, VMRC, NCBO	n/a	mid 2016	Staff time	MD DNR, PRFC, VMRC, NCBO staff time	. availability.
Totals Totals							

	Complete necessary research, modelling and analyses for the stock assessment.	UMCES, VIMS, MD DNR	Maryland, Virginia, Potomac River	mid 2016 through 2017	Cost TBD (estimate ~\$400,000) + MD DNR, VMRC, PRFC staff time	GAP - stock assessment funding	
Conduct the next stock	Conduct regular check-ins with the Principal Investigators. Update the Fisheries GIT Executive Committee quarterly on progress.	NCBO and CBSAC	n/a	2016 and 2017	Staff time	NCBO and CBSAC staff time	Stock assessment
stock assessment report.	Coordinate a review of the assessment results by CBSAC, interested scientists and Fisheries GIT members. Compile a summary of comments for discussion.	NCBO (lead), CBSAC	n/a	2017	Staff time	NCBO and CBSAC staff time	timeline will be determined by funding availability.
	Present and discuss the stock assessment results with stakeholders.	VMRC, PRFC, MD DNR, CBSAC	n/a	2017	Staff time	MD, VA, PRFC, CBSAC staff time	
			<u> </u>		Totals		
	Analyze the results of the Winter Dredge Survey and complete the 2016 and 2017 Blue Crab Advisory Reports.	CBSAC, NCBO	In/a	April-June 2016; April-June 2017	Staff time	CBSAC and NCBO staff time	
CBSAC analyzing the annual Winter Dredge Survey results and providing management advice.	After the stock assessment is complete, discuss if the annual process of data analysis and CBSAC report process should change based on the assessment results.	CBSAC, MD DNR, PRFC, VMRC	In/a	late 2017 and early 2018	Staff time	CBSAC, MDDNR, PRFC, VMRC staff time	

Totals
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Key Action**	Performance Target(s)	Participating Entity	Geographic Location	Timeline	Estimated Project Cost	Available funding	Factors Influencing
Work to improve harvest accountability within each management jurisdiction.	Maryland will continue to expand the pilot commercial electronic reporting project.		Maryland waters	Ongoing	Staff time	MD DNR staff time	
	PRFC will explore options to implement commercial electronic reporting in 2016.	PRFC	Potomac River	2016	TBD	TBD	- High-quality harvest an effort data are essentia for informing management decision: and reducing
	VMRC will continue promoting their commercial online reporting system.	VMRC	Virginia waters	Ongoing	Staff time	VMRC staff time	
	Continue the discussion on recreational harvest and its impact on the fishery. Utilize ongoing scientific studies and existing reports.	MD DNR PREC VMRC CRSAC	Maryland, Virginia, Potomac River	Ongoing	Staff time	MD DNR, PRFC, VMRC, CBSAC staff time	

I							uncertainty.
	Develop standards of harvest accountability to improve the accuracy of harvest data.  Evaluate the need for developing standards for harvest accountability to improve the accuracy of any future allocation framework.	MD DNR, PRFC, VMRC, CBSAC	Maryland, Virginia, Potomac River	Ongoing	Staff time	MD DNR, PRFC, VMRC, CBSAC staff time	
					Total		
Develop a framework to assess the feasibility of using and calculating a Baywide Total	Engage stakeholders and the public to identify concerns and/or support for exploring a potential Baywide TAC. Use their comments to help guide the evaluation of a TAC and allocation moving forward.	MD DNR, PRFC, VMRC	Maryland, Virginia, Potomac River	mid 2016 by Sept 2016: Jurisdiction Advisory Committeeswill develop an initial list of questions, ideas and concerns to help guide the evaluation.	Staff time	MD DNR, PRFC, VMRC staff time	
Allowable Catch (TAC) of blue crabs.	Compile the available, necessary harvest data from the three jurisdictions.	MD DNR, PRFC, VMRC	Maryland, Virginia, Potomac River	mid 2016	Staff time	MD DNR, PRFC, VMRC staff time	
	Work with the scientists on CBSAC to determine how to calculate a TAC based on the current reference points, harvest data and abundance data.	CBSAC, MD DNR, PRFC, VMRC	Maryland, Virginia, Potomac River	late 2016	Staff time	MD DNR, PRFC, VMRC, CBSAC staff time	
			1	1	Total		
	Compile a list of potential allocation methods.	MD DNR, PRFC, VMRC	Maryland, Virginia, Potomac River	early 2017	Staff time	MD DNR, PRFC, VMRC staff time	
	Determine which, if any, of the potential allocation methods have sufficient data to support them. Consult CBSAC scientists if needed.	CBSAC, MD DNR, PRFC, VMRC	Maryland, Virginia, Potomac River	early 2017	Staff time	CBSAC, MD DNR, PRFC, VMRC staff time	

evaluation may result in a recommendation NOT to pursue an allocation-based jurisdictional management approach.	Engage stakeholders, including jurisdictional advisory committees, to obtain public feedback on potential allocation methods, including the	MD DNR, PRFC, VMRC	Maryland, Virginia, Potomac River	early and mid 2017 Feb/March 2017: meet with advisory committees to discuss/review the potential allocation methods developed for consideration; - by June 2017: advisory committees will provide written feedback on those methods.	Staff time	MD DNR, PRFC, VMRC	Reliable, accurate data is critical for success of the evaluation of an allocation management framework.
	collection to petter understand the	Economists, MD DNR, PRFC, VMRC	Maryland, Virginia, Potomac River	2016 and 2017	Staff time + Cost TBD	TBD	
					Totals		

## CBSAC Members (as of April 2016)

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## <u>Acronyms</u>

CBSAC Chesapeake Bay Stock Assessment Committee
Fisheries GIT Sustainable Fisheries Goal Implementation Team
MD DNR Maryland Department of Natural Resources

NCBO NOAA Chesapeake Bay Office

NOAA National Oceanic and Atmospheric Administration

PRFC Potomac River Fisheries Commission

UMCES-CBL University of Maryland Center for Environmental Science-Chesapeake Biological Lab

VIMS Virginia Institute of Marine Science
VMRC Virginia Marine Resources Commission