



BAY OYSTER MANAGEMENT ON THE HALF SHELL

State and Federal Efforts to Sustain the Chesapeake's Oysters

State	Oyster Fishery	Oyster Restoration	Oyster Aquaculture
Maryland Department of Natural Resources	<p>Management Framework:</p> <ul style="list-style-type: none"> Shift more commercial production to aquaculture Enhance law enforcement and penalties Developing biological reference points <p>Challenges/Needs:</p> <ul style="list-style-type: none"> Implementation of harvest targets and associated monitoring Funding needs Substrate needs 	<p>Management Framework:</p> <ul style="list-style-type: none"> Maintain sanctuaries (24% of best bars) Targeted large-scale restoration (e.g. Harris Creek) Increase hatchery production (larval production and setting) Increase citizen involvement Enhance law enforcement and penalties <p>Challenges/Needs:</p> <ul style="list-style-type: none"> Funding needs Substrate needs Maintain public support for a multi-decadal plan that will experience both 'highs and lows' due to disease outbreaks 	<p>Management Framework:</p> <ul style="list-style-type: none"> New legislation to allow easier start up of aquaculture operations (permit process) Maintain subsidized loan program Training Expand public remote setting facilities available Enhance law enforcement and penalties Increase marketing <p>Challenges/Needs:</p> <ul style="list-style-type: none"> Need to develop Vibrio policies Substrate needs
Potomac River Fisheries Commission	<p>Management Framework:</p> <ul style="list-style-type: none"> Buy in management reserve to restore reefs and allow harvest access Rotational harvest-closure and opening to specific bars 	<p>Management Framework:</p> <ul style="list-style-type: none"> Sanctuaries Triploid spat on shell to avoid predation/disease Modeled to achieve 	<p>Management Framework:</p> <ul style="list-style-type: none"> Future leasing program with MD DNR <p>Challenges/Needs:</p> <ul style="list-style-type: none"> Collaboration between

	<p>on a four year rotation</p> <p>Challenges/Needs:</p> <ul style="list-style-type: none"> • Poaching • Enforcement • Monitoring • Penalties • Cost of Seed • Freshets 	<p>OMR economic self sustainability</p> <ul style="list-style-type: none"> • MD & VA Watermen participation <p>Challenges/Needs:</p> <ul style="list-style-type: none"> • Cost of seed • Predation and disease • Freshets 	<p>the jurisdictions to develop leasing program</p> <ul style="list-style-type: none"> • Resource constraints of MD DNR • Process to identify to identify potential areas for leasing • Protection of clam bottom • USACE/MDE Permits
Virginia Marine Resources Commission	<p>Management Framework:</p> <ul style="list-style-type: none"> • Management based on quantitative stock assessment • Rotational harvest-closure and opening to harvest of specific bars on a 2 or 3 year rotation • Law Enforcement and more severe penalties <p>Challenges/Needs:</p> <ul style="list-style-type: none"> • Poaching • Funding for Stock Assessment 	<p>Management Framework:</p> <ul style="list-style-type: none"> • Shell Restoration of all oyster bars based on stock assessment <p>Challenges/Needs:</p> <ul style="list-style-type: none"> • Increasing costs of shell and restoration projects • Uncertain future shell supply • Dependable funding 	<p>Management Framework:</p> <ul style="list-style-type: none"> • Established leasing system • Aquaculture friendly • Law Enforcement <p>Challenges/Needs:</p> <ul style="list-style-type: none"> • Water Quality for Shellfish Hatcheries • Poaching

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