

Alaska Department of Transportation & Public Facilities

Alaska Marine Highway System Overview

Katherine Keith, Deputy Commissioner Captain Tony Karvelas, Acting AMHS General Manager Matt McLaren, Business Development Manager

February 2, 2023

Our mission is to *Keep Alaska Moving* through service and infrastructure.

ALASKA MARINE HIGHWAY OPERATIONS BOARD (AMHOB)

Members:

Captain Ed Page Captain Keith Hillard **Deputy Commissioner Katherine Keith** Alan Austerman LAWS OF ALASKA Wanetta Ayers **Cynthia Berns** Norm Carson Source SCS CSHB 63(TRA) Paul Johnsen

Shirley Marquardt

AN ACT

2021

Relating to the duties of the Department of Transportation and Public Facilities; renaming the Alaska Marine Transportation Advisory Board the Alaska Marine Highway Operations Board; relating to the membership and duties of the Alaska Marine Highway Operations Board; and relating to the comprehensive, intermodal, long-range transportation plan for the state.

BE IT ENACTED BY THE LEGISLATURE OF THE STATE OF ALASKA:

THE ACT FOLLOWS ON PAGE 1



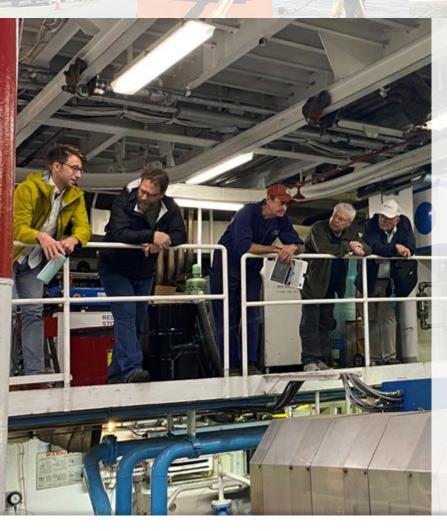
Chapter No.



AMHOB TOPICS OF PURVIEW

- Operation and management of AMHS
- Business to enhance revenue and reduce costs
- Personnel management
- Commercial service options
- Ship maintenance, construction, and repair
- Fleet strategy
- Reliability
- Regulatory compliance
- Other service objectives

AMHS COMPREHENSIVE EVALUATION



Task 1: Preliminary Survey and Project Work Plan

Task 2: Operational Resiliency and Efficiency Analysis

Task 3: Information Technology Analysis

Task 4: Fleet Maintenance Evaluation

Task 5: Financial Vitality and Resiliency Analysis









Formerly McDowell Group



50+ INTERVIEWS, 100+ DOCUMENTS REVIEWED



WHERE WE GO



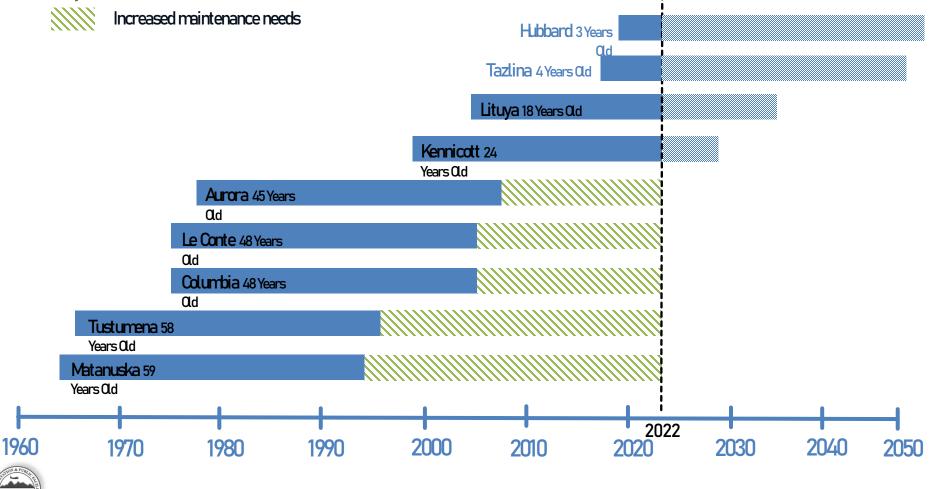
The mission of the Alaska Marine Highway System is to provide safe, reliable, and efficient transportation of people, goods, and vehicles.



Cross-Gulf

AGING FLEET

Assumes 30 years to be end of "prime" vessel lifespan and thus more likely to require additional maintenance. The average vessel age is 34.1 years old.



FLEET STATUS

Fleet Status - Last Update 1-28-2023



MV Lituya | Awaiting Repairs Click here to learn more about this vessel (+)



MV LeConte | Currently in Overhaul Click here to learn more about this vessel (+)











MV Matanuska | Currently in Layup Click here to learn more about this vessel (+)









MV Aurora | Currently in Service Click here to learn more about this vessel (+)

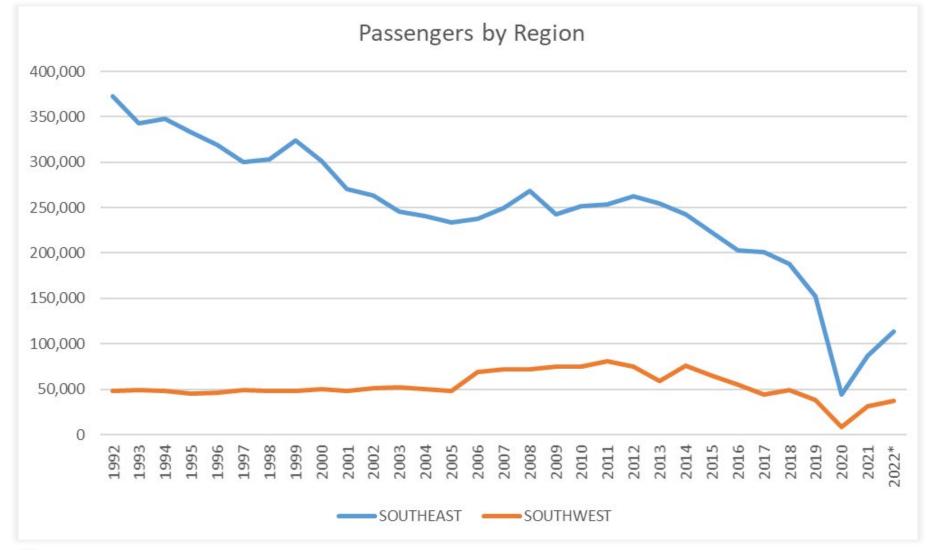
MV Tazlina | Currently in Service Click here to learn more about this vessel (+)

MV Hubbard | Currently in Overhaul Click here to learn more about this vessel (+)

MV Columbia | Currently in Overhaul Click here to learn more about this vessel (+)



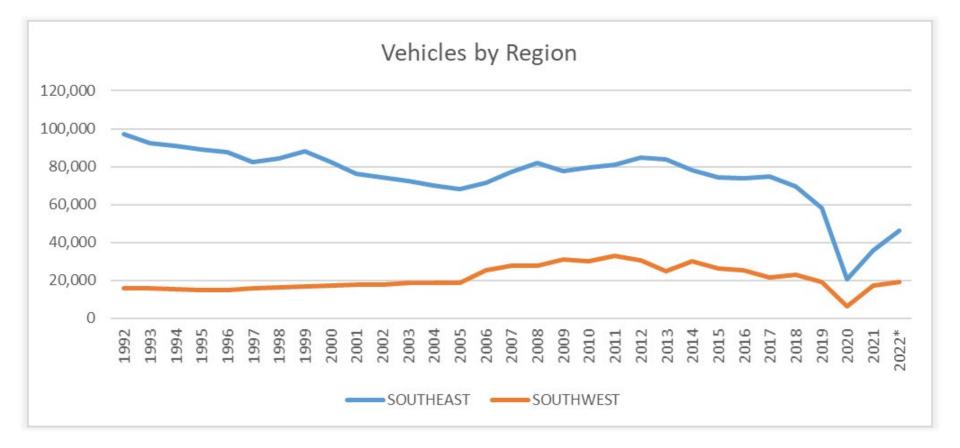
STATISTICAL INFORMATION: PASSENGERS





*2022 data is estimated since the final data is not yet completed.

STATISTICAL INFORMATION: VEHICLES





*2022 data is estimated since the final data is not yet completed.



CHARTING THE COURSE TOWARDS THRIVING COMMUNITIES Reimagining AMHS

STABILIZATION | All Hands On Deck! GOAL: provide stable service with increased reliability.

RECOVERY | Batten Down the Hatches! GOAL: Add service while monitoring reliability.

PHASE 3 PHASE 2

and Reporting

Engagement,

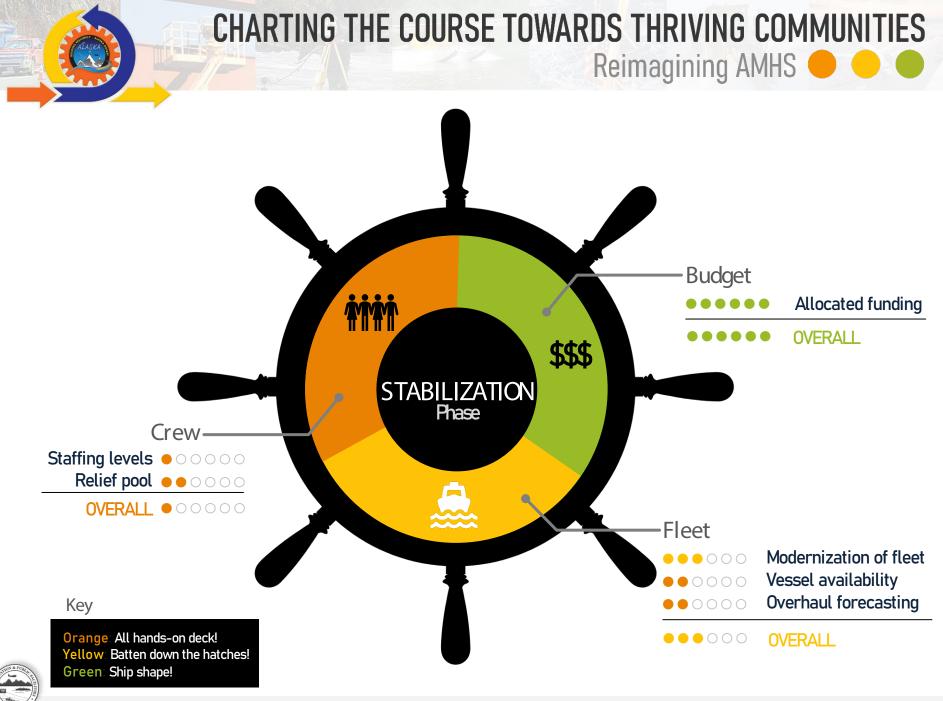
Accountability

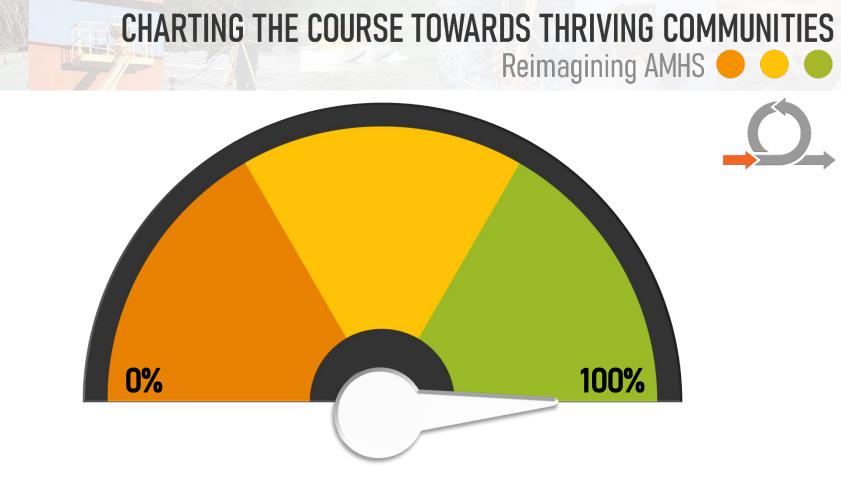
PHASE '

FULL STEAM AHEAD | Ship Shape!

GOAL: Restored access, consistent service, and high employee morale.







Budget Health Check •••••

••••• Allocated Funding: The state has allocated sufficient funds to provide current service levels and to meet the 2022–2023 Winter Operating Plan. Providing service to meet budgeted levels is currently not possible due to crew and vessels



CY24 GOVERNOR'S PROPOSED OPERATING BUDGET

		2020 Final Ithorized		2021 Final uthorized	•	CY2022 ludes 6 Month dge Authority)		CY2023	_	CY2024 overnor's Proposed	Δ	Δ%
Total Planned Weeks of Service		254.3		286.7		221.9		362.7		336.0	(27)	-7%
Planned Port Calls		4,399		4,959		3,794		6,238		5,813	(425)	-7%
Projected Revenue	\$	48,070.2	\$	51,779.1	\$	53,365.1	\$	53,314.8	\$	51,859.1	(1,456)	-3%
Actual Revenue	\$	28,257.0	\$	27,862.0	\$	39,623.0						
Planned Fare Box Recovery		44%		47%		33%		38%		34%		
Actual Fare Box Recovery		29%		29%		33%						
Fund Source												
Unrestricted General Funds (UGF)	\$	46,002.2	\$	54,011.0	\$	62,738.6	\$	60,063.0	\$	60,417.5	\$ 354.5	1%
Designated General Funds (DGF)	\$	55,492.6	\$	53,151.4	\$	5,425.7	\$	-	\$	13,564.6	\$ 13,564.6	0%
Other	\$	8,071.3	\$	2,150.0	\$	1,308.3	\$	868.7	\$	885.6	\$ 16.9	2%
Federal- Relief Funding	\$	-	\$	1,122.4	\$	112,673.1	\$	-	\$	-	\$ -	0%
Federal Funds (Including IIJA/BIL)	\$	-	\$	-	\$	-	\$	82,899.5	\$	83,240.1	\$ 340.6	0%

Operating Total \$ 109,566.1 \$ 110,434.8 \$ 182,145.6 \$ 143,831.2 \$ 158,107.8 \$ 14,276.6

AMHS less Forward Funding \$ 118,667.5

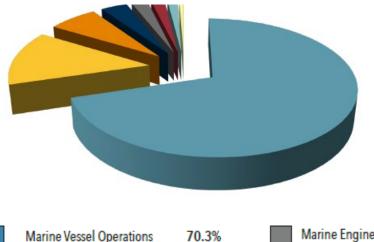


10%

FY2022 OPERATING EXPENDITURES

OPERATING EXPENDITURES

For the fiscal year ended June 30, 2022 \$106.4 MILLION

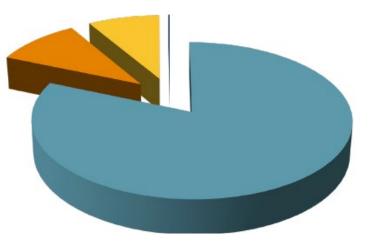


Marine vesser operations	10.5%
Marine Fuel	13.4%
Shore Operations	6.7%
Operations Management	3.6%

	Marine Engineering
	Support Services
	Reservations and Marketing
	Overhaul

UNRESTRICTED OPERATING REVENUES

For the fiscal year ended June 30, 2022 \$31.3 MILLION



Ticket Sales	81.4%
Stateroom Sales	10.1%
Passenger Services Sales	8.4%

Other Unrestricted Revenue



2.2%

1.8%

1.4%

0.6%

0.1%

FEDERAL TRANSIT AUTHORITY (FTA) AWARDS DISCRETIONARY GRANTS

Title	Total Project	Federal Request	Match					
Infrastructure Upgrades/Repairs: 49% of Capital Request (39% docks/31% vessels)								
Critical Upgrades to Ferry Dock Infrastructure in Five Rural Alaska Communities	\$56,848,018	\$45,478,414	\$17,122,096					
Modernization of Four Critical AMHS Vessels Necessary for Service and Environmental Benefits	\$90,081,932	\$72,065,546	\$18,016,386					
New Builds: 51% of Capital Request								
Replacement of the M/V Tustumena Vessel Serving Rural Southwest Alaska	\$85,610,480	\$68,488,384	\$17,122,096					
Cultivating a Systems Approach to Sustainable Transportation by Implementing Climate Responsive Ferry Vessel Options	\$57,767,509	\$46,214,008	\$11,553,502					
Anticipating Future Service & Replacement Needs: Designing a New Alaska Mainliner	\$10,739,520	\$8,591,616	\$2,147,904					
Operational Support								
Restoring the Health of the AMHS for Sustainable Operations to Rural Communities	\$89,647,600	\$44,823,800	\$44,823,800					
Total All Awards	\$390,695,059	\$285,661,768	\$110,785,784					
Total Capital	\$301,047,459	\$240,837,968	\$65,961,984					
Total Operating	\$89,647,600	\$44,823,800	\$44,823,800					
2023			16					

FTA AWARDS: VESSELS

Vessel Modernization—\$72 million award

- Columbia modernization
- Matanuska—modernization
- Tazlina—increased route options
- Kennicott—improved environmental considerations
- Vessel Replacement Tustumena Replacement Vessel — \$68.5 million award
 - Includes design updates of propulsion system, for safer, more efficient, public transportation

Design of a New Alaska Mainliner--\$8.5 million award

Supports the early steps for capital replacement of a mainliner for continued service to SE Alaska

Climate Responsive Ferry Vessel Options—\$46 million award

Increase service, efficiency, and sustainability of Alaska Ferry System for rural port communities.





FTA AWARDS: DOCKS

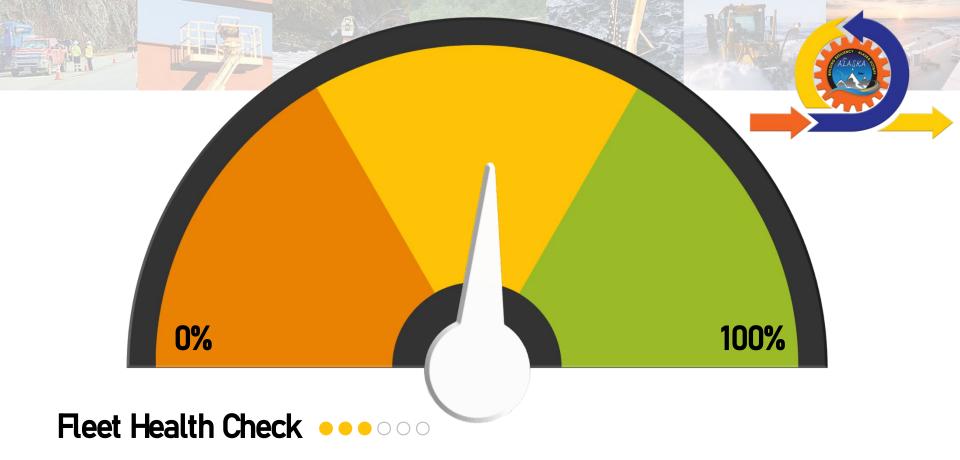
Ferry Dock Infrastructure in Five Rural Alaska Communities— \$45.5 million award

Increase the sustainability of five current rural AMHS port operations, project will upgrade dock infrastructure in Juneau and Cordova, and replace current docks in Pelican, Tatitlek, and Chenega.

- Prince William Sound Dock Modifications—\$29.3 million award
- Prince William Sound Economic Development District is primary, DOT&PF assisted in partnerships
- Tatitlek \$10.5m
- Chenega \$12.6m
- Cordova \$6.2 million

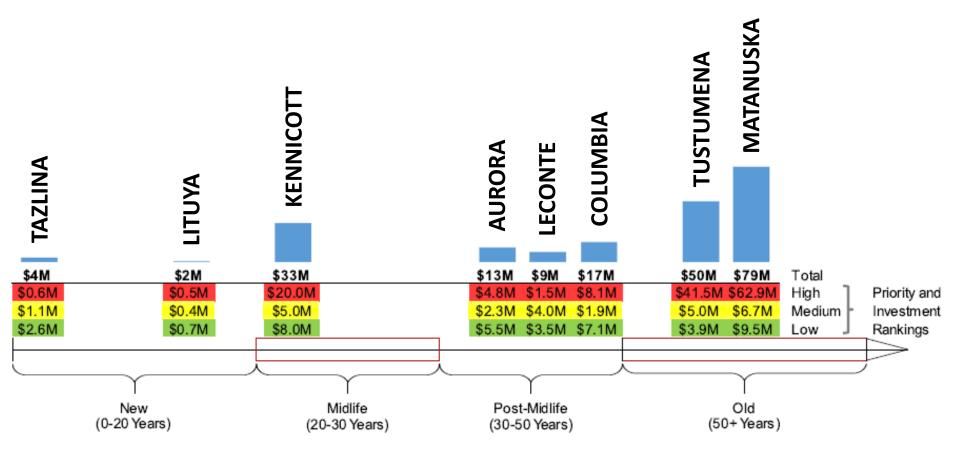






- •••••• Modernization of Fleet: As a vessel ages, reliability risks increase. The average age of a vessel in the current fleet ins 34.1 years old, which means that the fleet's overall reliability risk is medium.
- ••••• Vessel Availability: Some of the vessels in the fleet will be unavailable at times for routine overhauls. This is to be expected as we invest in maintaining our fleet. periods of unavailability are planned with the intent of minimizing overall impact on the system. However, if overhaul periods extend beyond plan or unplanned and urgent maintenance needs manifest, the ability to maintain schedule may be impacted.







AHY

AMHS RELIABILITY: NEXT STEPS





Solutions: Capital investment; IIJA; Discretionary Grants

- Charting the Course Initiative
- Operational Audit
- Review of maintenance and overhaul practices
- Leverage younger ships in the fleet
- Pursue capital program for vessel replacement via IIJA funding, discretionary grants



PROPOSED ENGINEERING PROCESS (IN MONTHS)

Discovery Work

In Shipyard

6

Vessel On-Site Assessment

9

Fleet Condition Survey

Scope of Work Overhaul/CIP prepared



- Staffing Levels: Each vessel crew is made up of multiple types of positions, \bullet and a certain number of crew are needed for each position to provide service. To meet current systemwide staffing needs, about 14 additional crew are needed to ensure sufficient staff for all types of crew positions.
- Relief Pool: Relief crew fill in when a regularly-scheduled crew member calls in sick or takes vacation. Having enough relief crew is vital to preventing service disruptions. Currently, relief crew is only available for 1 of the 5 types of crew positions.

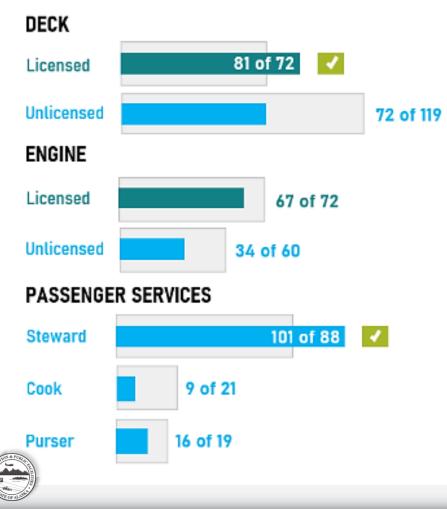


CREW METRICS

Fleetwide Staffing Levels

2023 Winter Operating Schedule

The bars represent available crew of minimum crew required for service. Please note, required crew accounts for 2 full crews per vessel plus relief

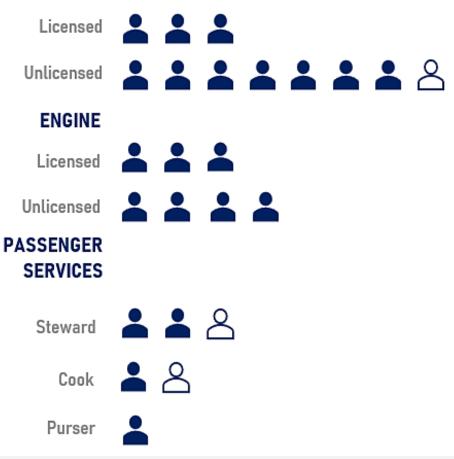




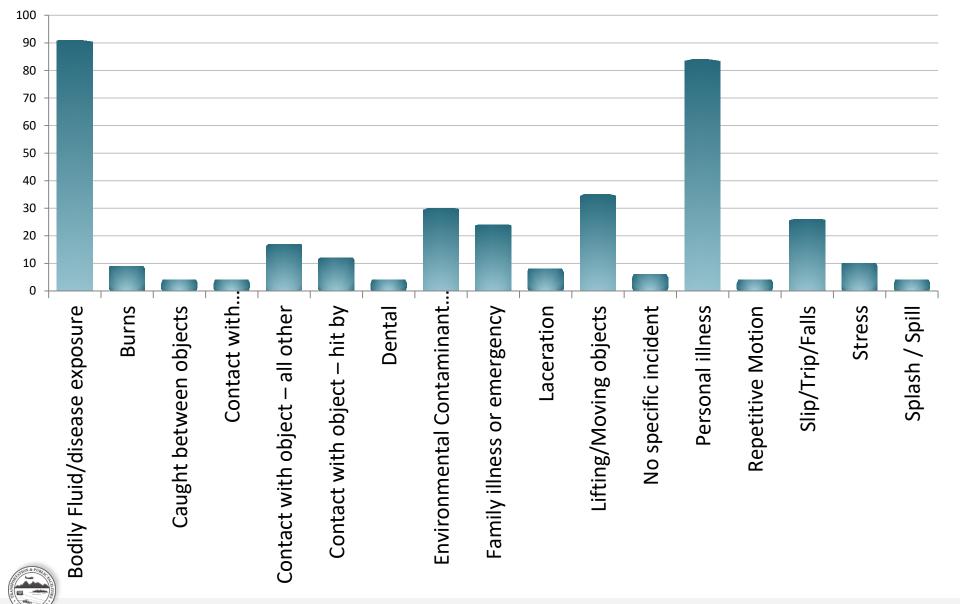
Operating

2023 Summer Operating Staffing Levels *Accounts for one full crew per vessel

DECK



AMHS OCCUPATIONAL INJURY & ILLNESS STATISTICS FOR 2020



THE LAST "FUNtier"











THANK YOU.

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KENNICOTT