

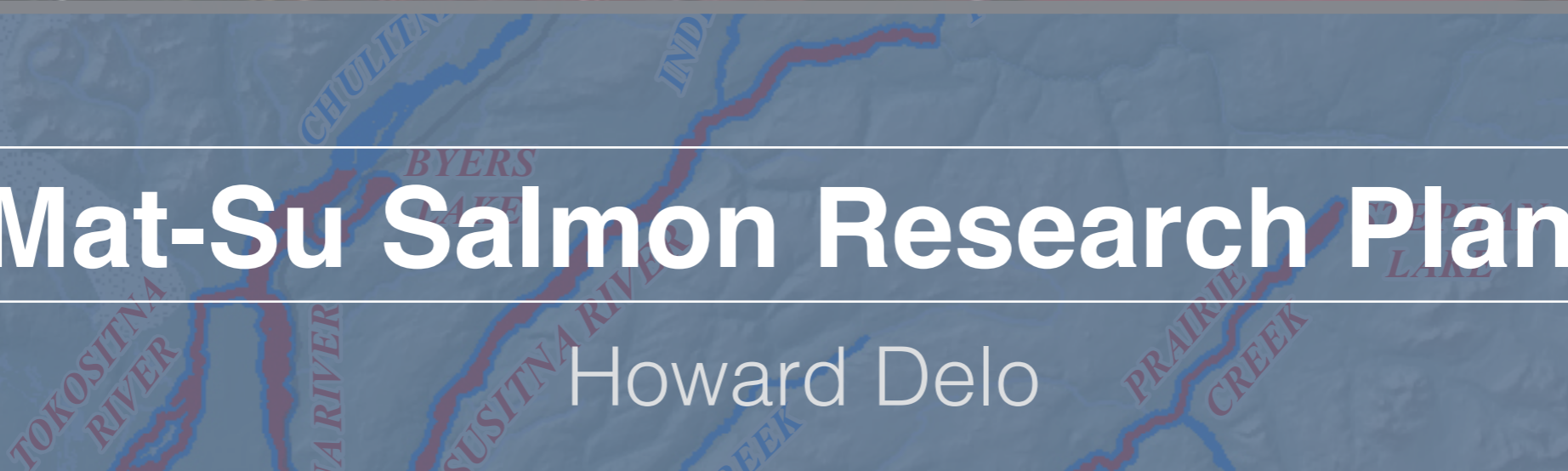


MAT-SU BOROUGH FISH AND WILDLIFE COMMISSION PRESENTS



Mat-Su Salmon Research Plan

Howard Delo



MAT-SU SALMON RESEARCH, MONITORING & AND EVALUATION



PROJECT NEED



- Declining salmon stocks in Upper Cook Inlet
- Stocks at lowest levels since statehood
- 8 of 14 stocks of concern in Alaska are in UCI and Susitna River system
- Insufficient information and management goals impeding effective management of both sport and commercial fisheries of UCI
- Information is lacking about the movement of northern bound salmon



MAT-SU SALMON RESEARCH, MONITORING & EVALUATION



PROJECT GOAL



- Hire a fisheries research consultant to work with the Mat-Su Borough Fish and Wildlife Commission, ADF&G and other stakeholders to develop a **plan** for salmon research in UCI

The **plan**

- ➔ Address all freshwater watersheds inhabited by salmon originating within the Mat-Su Borough
- ➔ inventory past and ongoing salmon research studies
- ➔ Determine data gaps
- ➔ Identify areas where more research is needed
- ➔ Create a prioritized strategic plan for UCI
- ➔ Develop a process for soliciting and selecting research projects
- ➔ Select projects to be funded with current and future grant funds

MAT-SU SALMON RESEARCH, MONITORING & EVALUATION



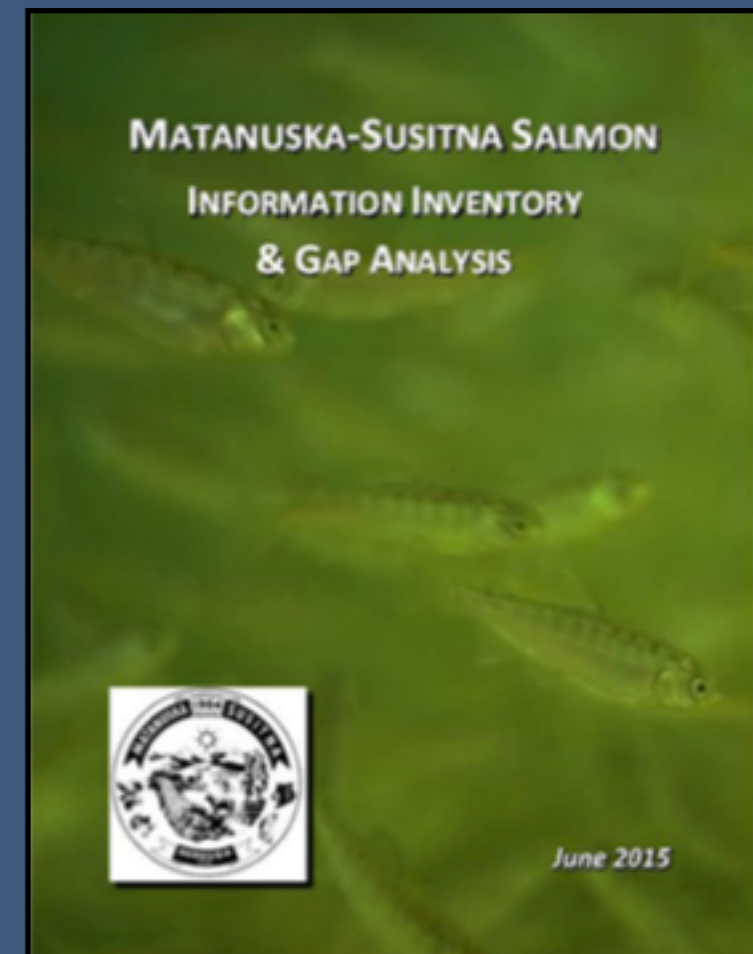
PROJECT TIMELINE /COST



Data gap analysis and strategic plan development
— July, 2014 to June, 2015 (approx. \$194,000)

Research Projects
— May, 2015 to June, 2018 (approx. \$1,456,000)

Total funds available for complete project
\$1.6 million

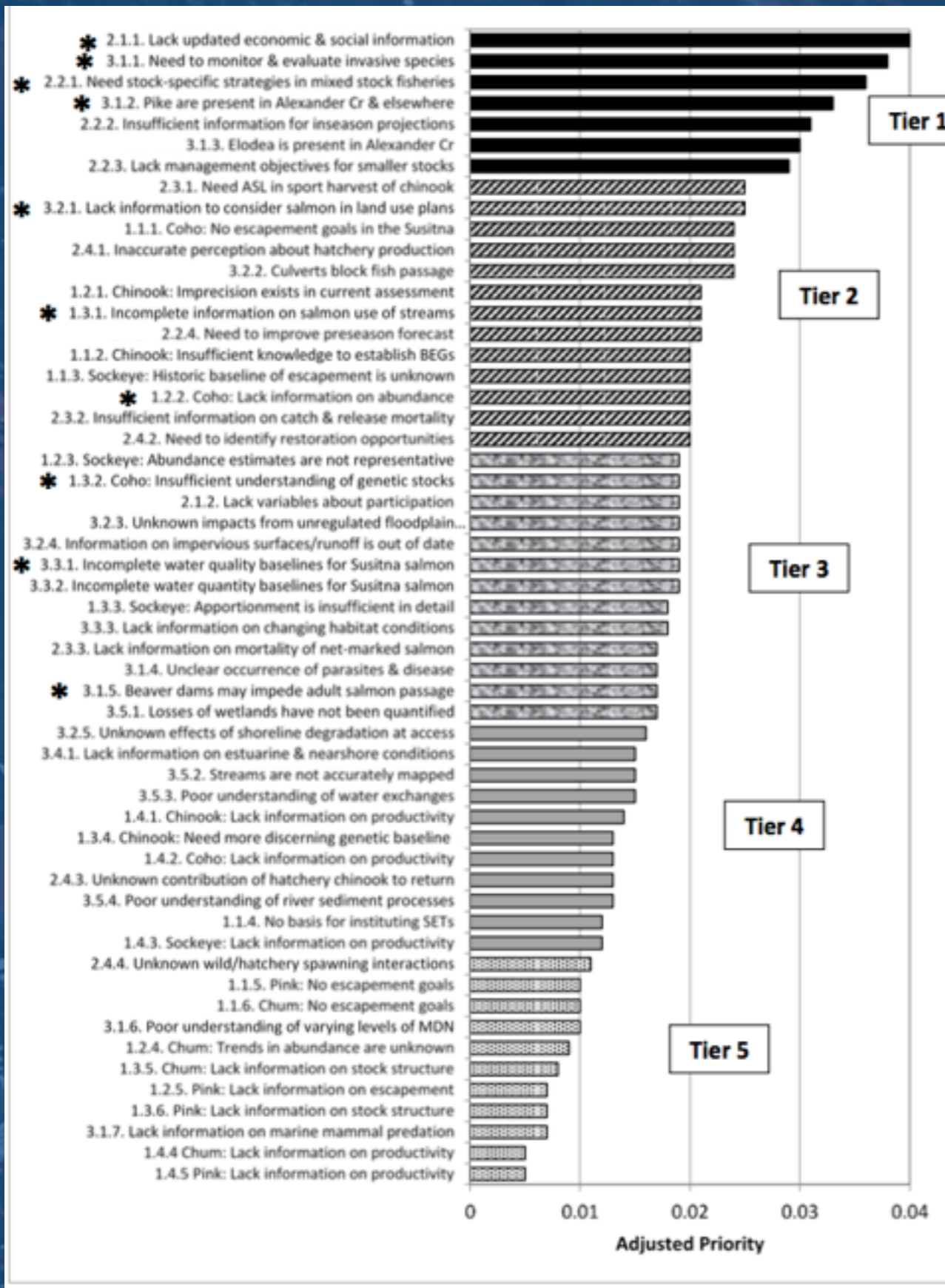




15 STAKEHOLDERS PARTICIPATED IN PLAN DEVELOPMENT



PRIORITY INFORMATION NEEDS



55

Different research needs for five salmon species

PROJECTS FUNDED

Project	Entity	Cost
Fisheries Research Program Planning	R2 Resource Consultants	\$194,131
Genetics for Coho on the Yentna River	Alaska Department of Fish & Game	\$249,554
Coho Genetic Stock Identification	Alaska Department of Fish & Game	\$242,059
Alexander Creek Pike Suppression	Alaska Department of Fish & Game	\$223,600
Jim Creek Weir	Alaska Department of Fish & Game	\$96,600
Pike Eradication in Cottonwood Creek	Alaska Department of Fish & Game	\$63,430
Economic Contributions of Sportfishing	Alaska Department of Fish & Game	\$50,000
Juvenile Salmon Monitoring	Aquatic Restoration & Research Institute	\$60,000
Beaver Dams, Fish Passage & Stream Ecology	Aquatic Restoration & Research Institute	\$20,000
Shell Lake Sockeye Salmon Monitoring	Cook Inlet Aquaculture Association	\$84,707
Conditions of Temperature Sensitive Streams	R2 Resource Consultants	\$101,723
Fishing Depths of ESSN Setnets	Kintama Research Services	\$70,000
	Total	\$1,455,804*

 Projects completed to date

2015 ALASKA AMERICAN PLANNING ASSOCIATION ENVIRONMENTAL AWARD



Terry Nininger and Frankie Barker



MAT-SU BOROUGH FISH AND WILDLIFE COMMISSION PRESENTS



Mat-Su Salmon Stocks of Concern

Andy Couch

8 of 14

stocks of concern in entire state

located in Northern Cook Inlet



Three Levels of Stock of Concern

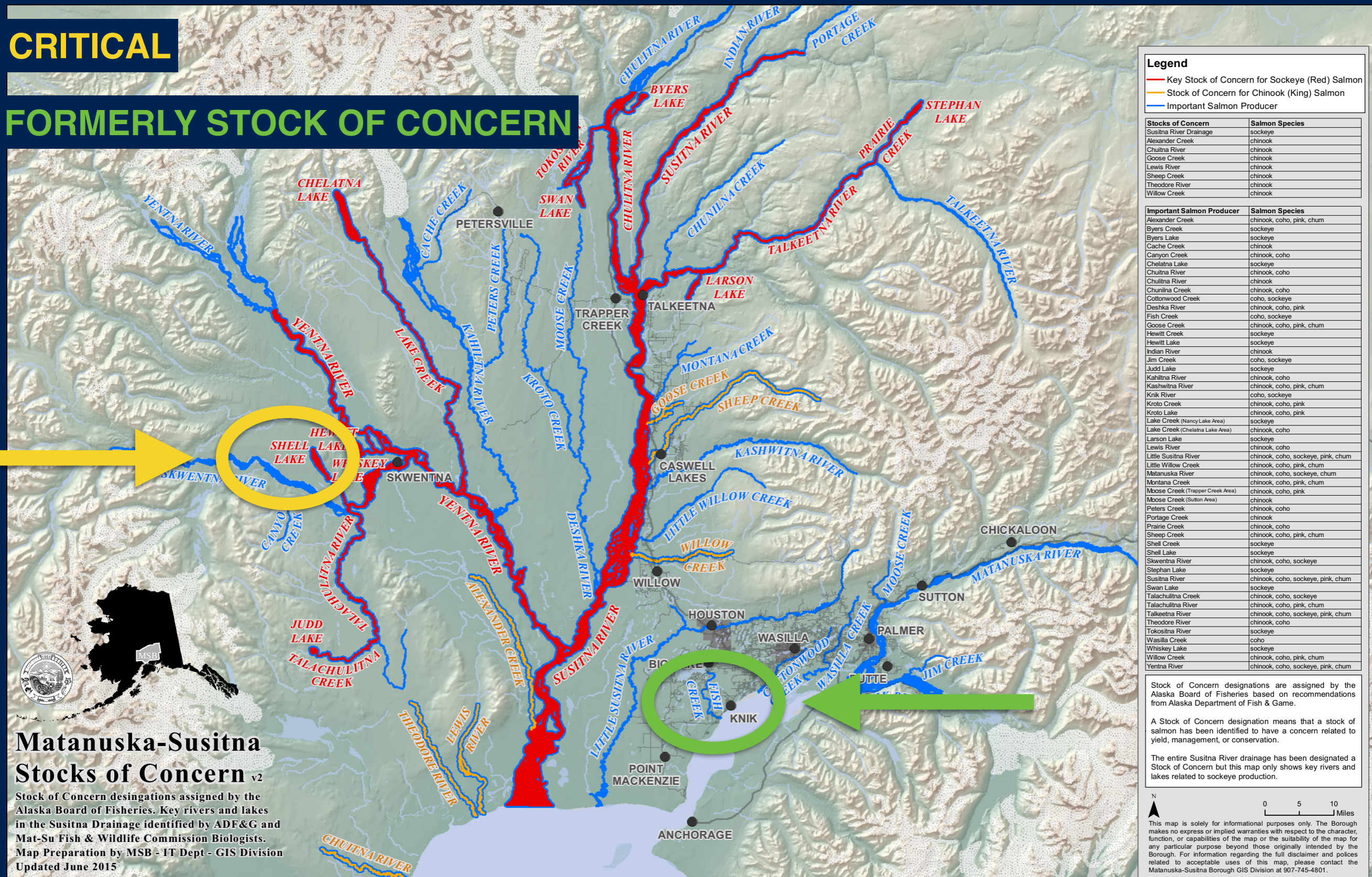


Sockeye Stocks of Concern

ALERT

CRITICAL

FORMERLY STOCK OF CONCERN



Matanuska-Susitna Stocks of Concern v2

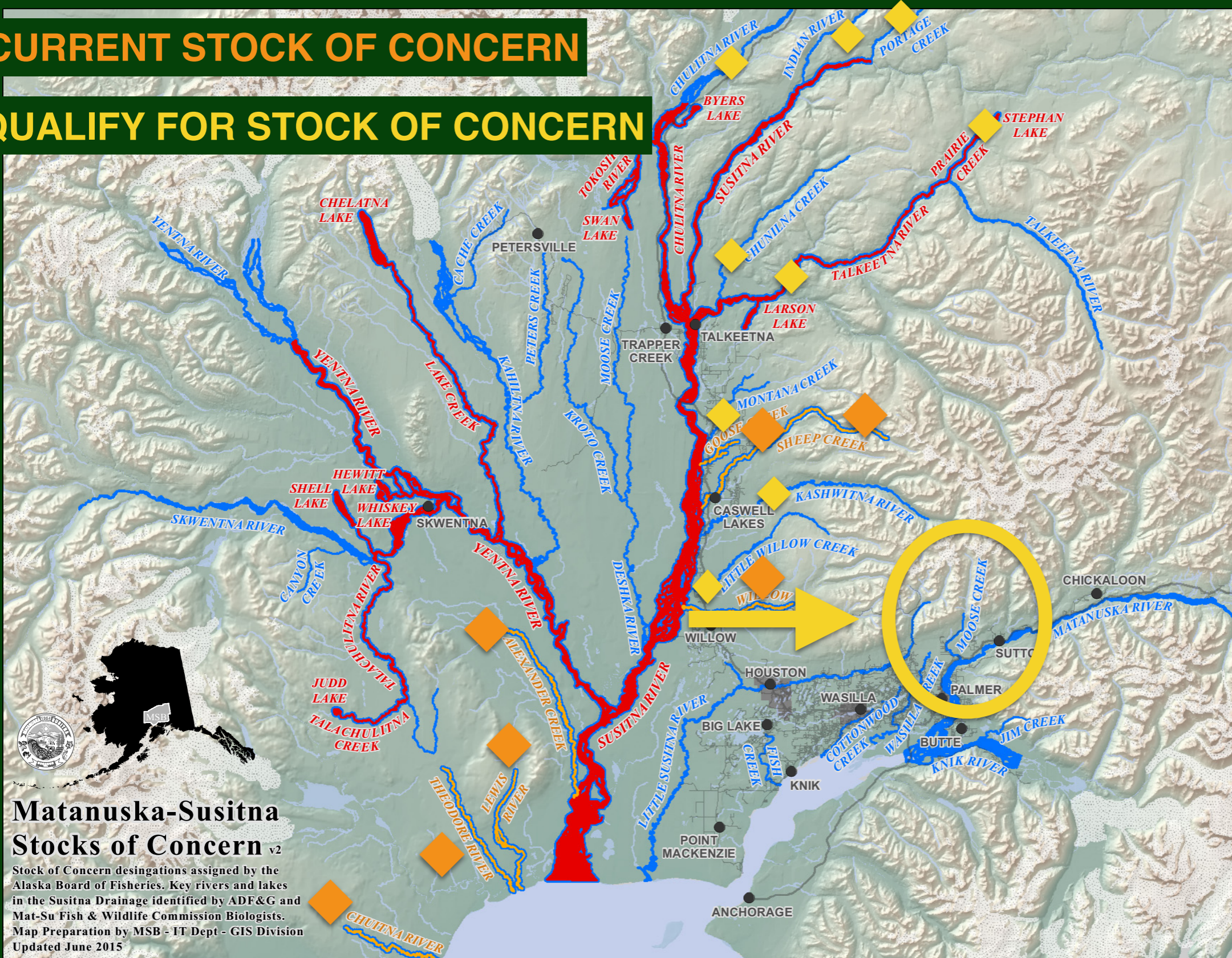
Stock of Concern designations assigned by the Alaska Board of Fisheries. Key rivers and lakes in the Susitna Drainage identified by ADF&G and Mat-Su Fish & Wildlife Commission Biologists. Map Preparation by MSB - IT Dept - GIS Division Updated June 2015

Kings Stocks of Concern

ALERT

CURRENT STOCK OF CONCERN

QUALIFY FOR STOCK OF CONCERN



Legend

- Key Stock of Concern for Sockeye (Red) Salmon
- Stock of Concern for Chinook (King) Salmon
- Important Salmon Producer

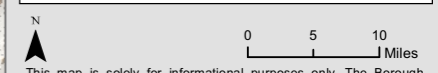
Stocks of Concern	Salmon Species
Susitna River Drainage	sockeye
Alexander Creek	chinook
Chulitna River	chinook
Goose Creek	chinook
Lewis River	chinook
Sheep Creek	chinook
Theodore River	chinook
Willow Creek	chinook

Important Salmon Producer	Salmon Species
Alexander Creek	chinook, coho, pink, chum
Byers Creek	sockeye
Byers Lake	sockeye
Cache Creek	chinook
Canyon Creek	chinook, coho
Chelatna Lake	sockeye
Chulitna River	chinook, coho
Chulitna River	chinook
Chunilna Creek	chinook, coho
Cottonwood Creek	coho, sockeye
Deshka River	chinook, coho, pink
Fish Creek	coho, sockeye
Goose Creek	chinook, coho, pink, chum
Hewitt Creek	sockeye
Hewitt Lake	sockeye
Indian River	chinook
Jim Creek	coho, sockeye
Judd Lake	sockeye
Kahilna River	chinook, coho
Kashwitna River	chinook, coho, pink, chum
Knik River	coho, sockeye
Kroto Creek	chinook, coho, pink
Kroto Lake	chinook, coho, pink
Lake Creek (Nancy Lake Area)	sockeye
Lake Creek (Chelatna Lake Area)	chinook, coho
Larson Lake	sockeye
Lewis River	chinook, coho
Little Susitna River	chinook, coho, sockeye, pink, chum
Little Willow Creek	chinook, coho, pink, chum
Matanuska River	chinook, coho, sockeye, chum
Montana Creek	chinook, coho, pink, chum
Moose Creek (Trapper Creek Area)	chinook, coho, pink
Moose Creek (Sutton Area)	chinook
Peters Creek	chinook, coho
Portage Creek	chinook
Prairie Creek	chinook, coho
Sheep Creek	chinook, coho, pink, chum
Shell Creek	sockeye
Shell Lake	sockeye
Skwentna River	chinook, coho, sockeye
Stephan Lake	sockeye
Susitna River	chinook, coho, sockeye, pink, chum
Swan Lake	sockeye
Talachulitna Creek	chinook, coho, sockeye
Talachulitna River	chinook, coho, pink, chum
Talkeetna River	chinook, coho, sockeye, pink, chum
Theodore River	chinook, coho
Tokostna River	sockeye
Wasilla Creek	coho
Whiskey Lake	sockeye
Willow Creek	chinook, coho, pink, chum
Yentna River	chinook, coho, sockeye, pink, chum

Stock of Concern designations are assigned by the Alaska Board of Fisheries based on recommendations from Alaska Department of Fish & Game.

A Stock of Concern designation means that a stock of salmon has been identified to have a concern related to yield, management, or conservation.

The entire Susitna River drainage has been designated a Stock of Concern but this map only shows key rivers and lakes related to sockeye production.



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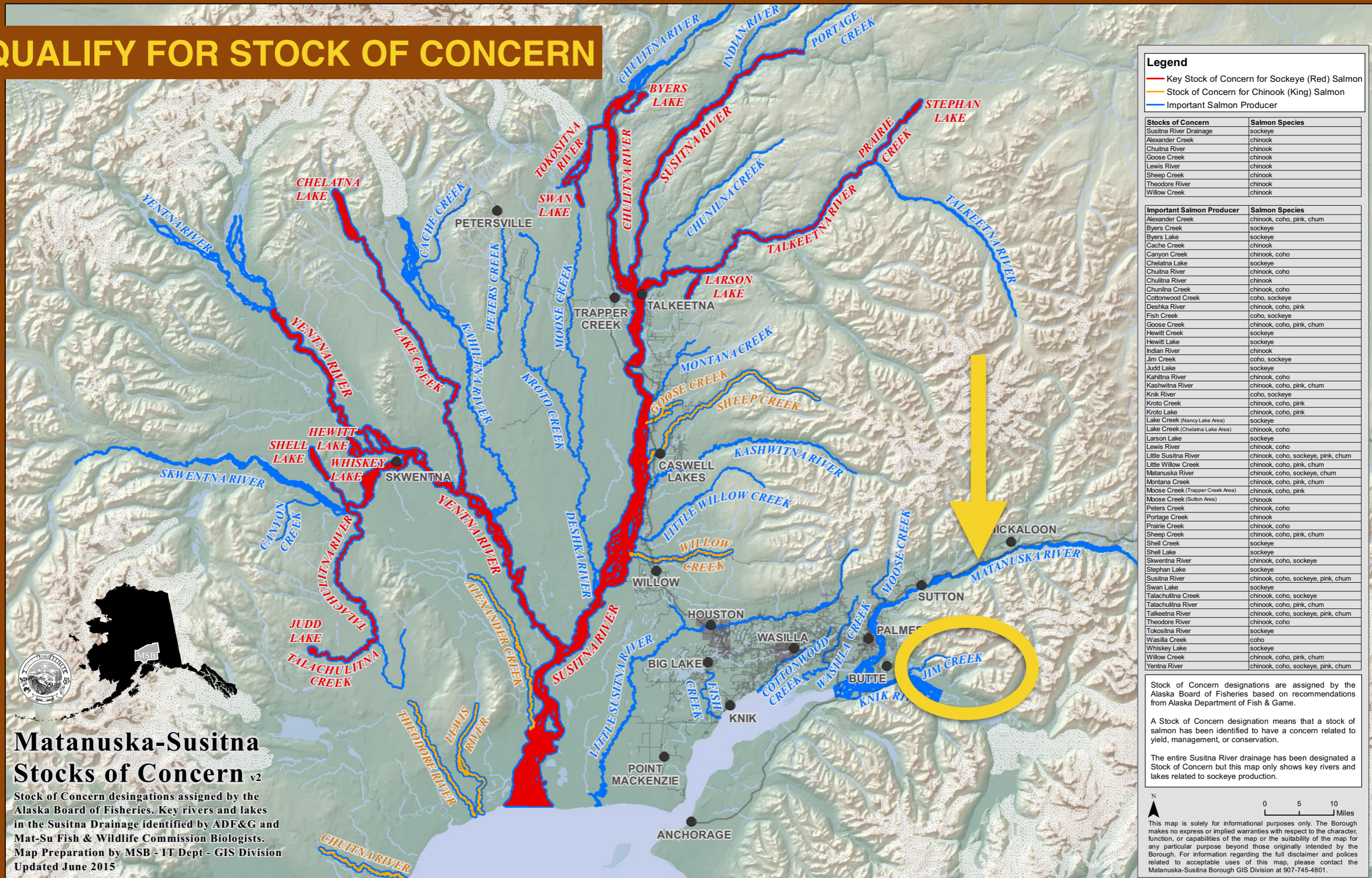
Matanuska-Susitna Stocks of Concern v2

Stock of Concern designations assigned by the Alaska Board of Fisheries. Key rivers and lakes in the Susitna Drainage identified by ADF&G and Mat-Su Fish & Wildlife Commission Biologists. Map Preparation by MSB - IT Dept - GIS Division Updated June 2015

Coho Near Stock of Concern

ALERT

QUALIFY FOR STOCK OF CONCERN



Legend

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- Stock of Concern for Chinook (King) Salmon
- Important Salmon Producer

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Shell Creek	sockeye
Shell Lake	sockeye
Skwentna River	chinook, coho, sockeye
Stephan Lake	sockeye
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Matanuska-Susitna Stocks of Concern v2

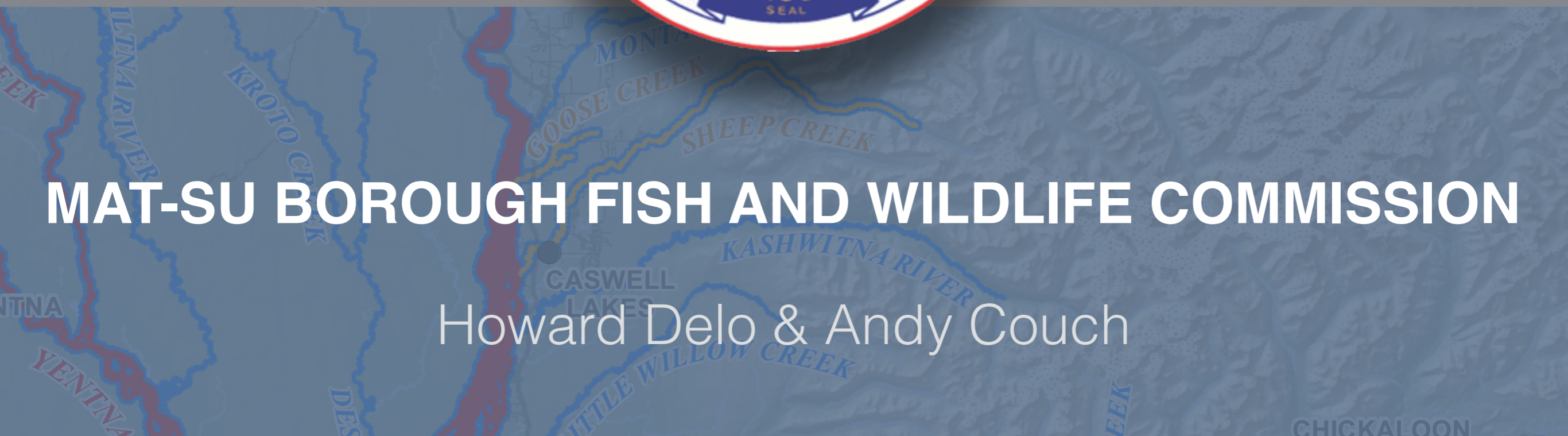
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Howard Delo & Andy Couch