Review of the Chinook Salmon Research Initiative (CSRI)

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Oral Report:
White Tab 6

Written Report:
Color Tab 6

DEVELOPMENT OF RESEARCH PLAN

Declines in King Salmon Productivity

- Widespread coherent declines

Knowledge Gaps

- Basic abundance and rate information during key periods
- When and where productivity has been changing
- What is changing productivity
- Adapting Chinook life history into escapement based management strategies

Research Team

Symposium

- Public and professional input

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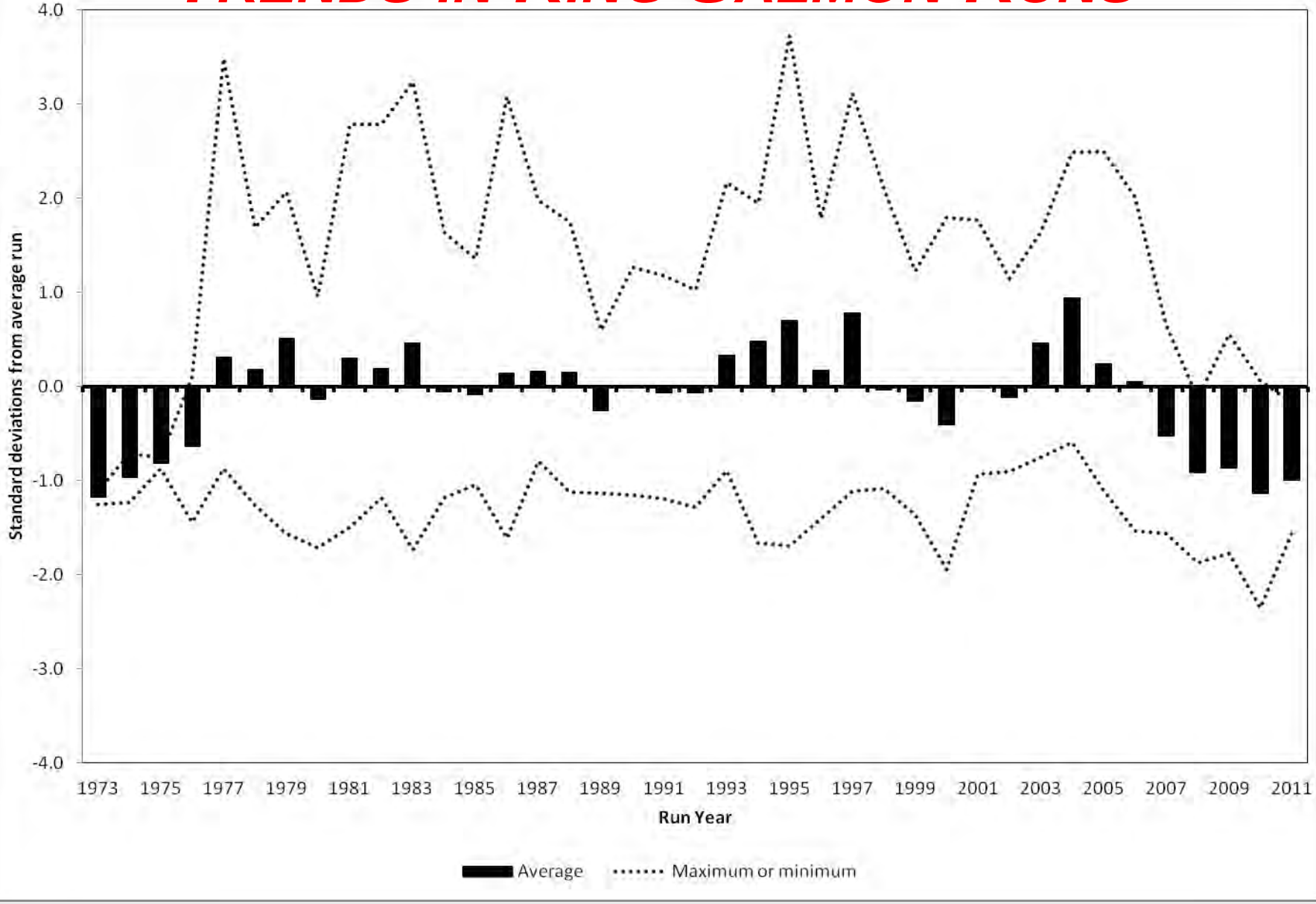
TRENDS IN KING SALMON RUNS



RESEARCH PLAN

Goals

- Review of Chinook life history in Alaska
- Evidence for abundance and productivity declines
- Knowledge gaps
- Suggested methods and studies
- Specific research recommendations
- Guidance on funding

RESEARCH PLAN

Indicator Stocks by Region

Southeast:	*Unuk, Stikine, Taku, Chilkat*
PWS:	*Copper*
UCI:	*Kenai, Susitna*
Kodiak/AK Pen:	*Karluk, Chignik*
Bristol Bay:	*Nushagak*
AYK:	*Kuskokwim, Yukon*

Costs

Research Plan Estimates FY14 Request for $10.0M

Allocated $7.5M CIP

- $6.75M to ADF&G
- $0.75M to UAF

In addition to $7.5M CIP, $2.5M specifically for Susitna and $2.0M specifically for Mat-Su Enhancement

FY15 Request for $10.0M

IMPLEMENTATION

Operational Plans

- 35 detailed plans received for FY14 funding

Website Development

- www.adfg.alaska.gov

FY14 Projects

Adult Spawning Abundance

- 9 indicator stocks, $1.79M

Juvenile Abundance

- 8 indicator stocks, $0.67M

Stock-Specific Harvests

- 3 main harvest areas, $0.35M

Local and Traditional Knowledge

- 8 indicator stocks, $0.62M

Other Projects

- Genetic baseline and marker development ($1.0M)
- Process studies UAF ($0.75M)

FY14 Kenai River Projects

CSRI

• Subsistence and other fishers local and traditional knowledge of king salmon (FY14, $38K)

Legislative CIP

• Sonar enumeration at river mile 13.7 (started in FY13, multi-year, $1.8M)

FY14 Cook Inlet Projects

CSRI

•Cook Inlet marine commercial and sport fishery sampling of king salmon harvest, genetics, and coded wire tags (FY14, $105K)

Alaska Sustainable Salmon Fund (PCSRF)

• Upper Cook Inlet marine commercial and subsistence fishery sampling of king salmon harvest, genetics, and coded wire tags (multi-year, $682K)

Legislative CIP

• Deception Creek and Eklutna River tailrace king salmon enhancement (multi-year, $2.0M)

SUSITNA RIVER PROJECTS IN 2014

Legislative CIP

- Specific to Susitna salmon adult abundance (multi-year, $2.5M)

AEA CIP

- King salmon adult abundance and telemetric distribution (multi-year, $1.75M)

Legislative Increment

- Enumeration of king salmon in Alexander Creek via floating weir (FY14, $300K)

COOK INLET MULTI-YEAR FUNDING

		Multi-Year Funding				
Project	Component	CSRI	PCSRF	Legis CIP	AEA CIP	Total
Susitna	King salmon adult	1,600.0			1,750.0	3,350.0
	King salmon juvenile	1,000.0				1,000.0
	King salmon enhancement			2,000.0		2,000.0
	Salmon adult			2,500.0		2,500.0
	Total	2,600.0			1,750.0	4,350.0
Kenai	King salmon adult	250.0		1,800.0		2,050.0
	King salmon juvenile	800.0				800.0
	Total	1,050.0		1,800.0		2,850.0
Cook Inlet	King salmon harvest	1,295.4	682.0			1,977.4
	Grand total	3,895.4	682.0	1,800.0	1,750.0	9,177.4

KEY POINTS

- The primary objective of this work is to increase confidence in estimates of adult spawning abundance especially in the face of poor production
- Marine genetic stock identification and coded wire tag sampling projects improve run reconstruction and enhance our understanding of stock-specific harvest rates and improve abundance-based management
- Juvenile abundance and coded wire tag projects allow marine survival, stock-specific harvest, and production estimates by indicator stock
- Outreach and collaborative research with locals, federal and state agencies, and non-government organizations is a priority.

QUESTIONS?