



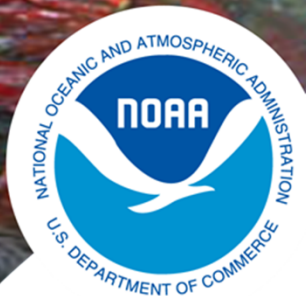
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Agenda Item D.1.a  
Supplemental NMFS Presentation 2  
November 2018

# Three Year Review of the Lower Columbia River tule fall Chinook Abundance-based Harvest Matrix

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## Abundance Based Management (ABM) framework

Lower River Hatchery Abundance	Total Exploitation Rate Limit
0 – 30,000	0.30
30,000 – 40,000	0.35
40,000 – 85,000	0.38
>85,000	0.41



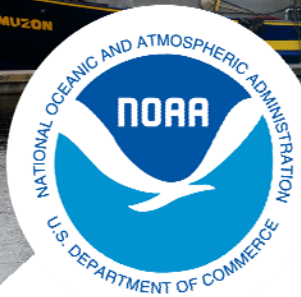
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Still using  
LRH stock  
management  
unit

## Results

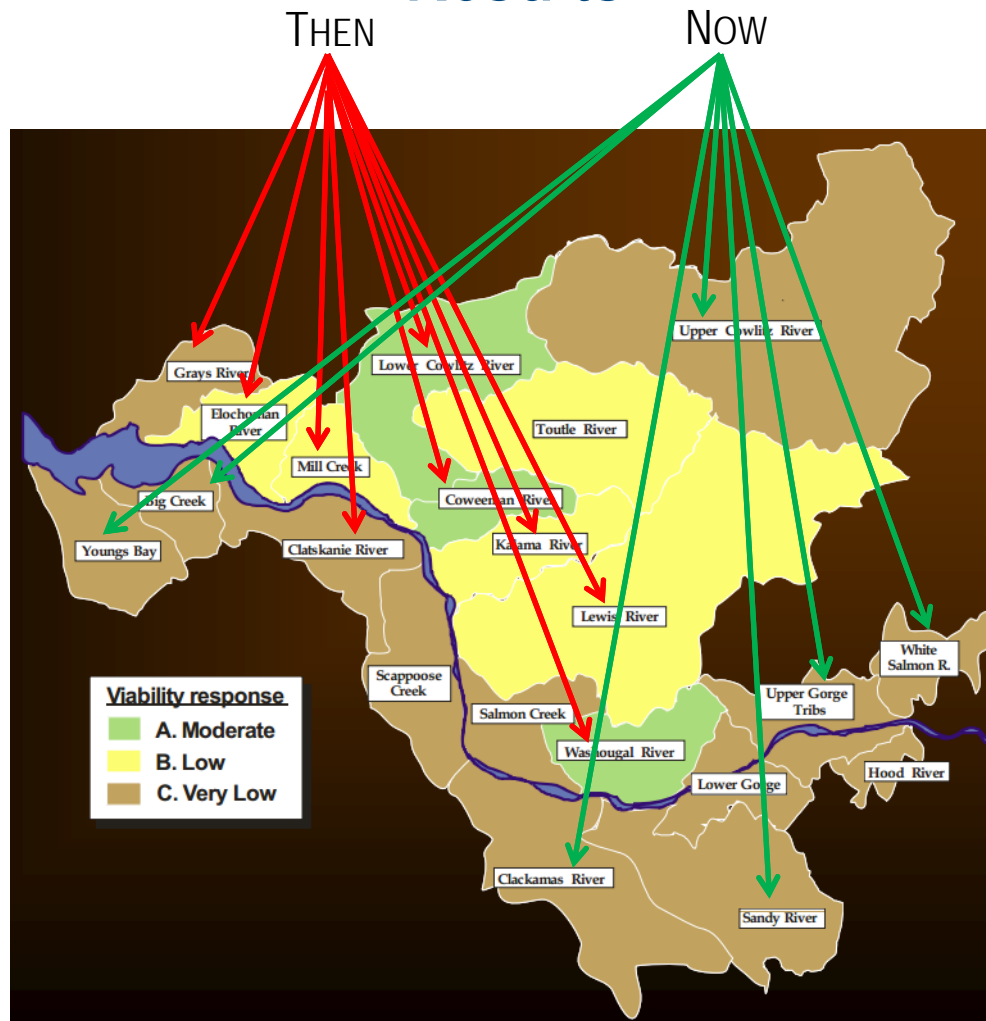
Year	LRH Abundance Forecast	Allowable ER pre- season	LRH Actual Return	Exploitation Rate Achieved
2012	127,000	0.41	85,000	0.43
2013	88,000	0.41	104,800	0.33
2014	110,000	0.41	101,900	0.46
2015	94,900	0.41	128,700	0.34
2016	133,700	0.41	81,500	0.36
2017	92,400	0.41	64,600	0.36
2018	62,400	0.38	n/a	n/a



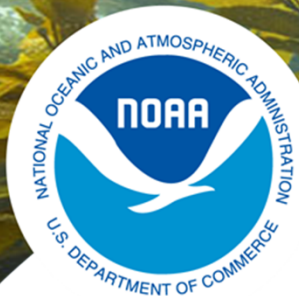
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## Results



LCR tule Chinook salmon populations

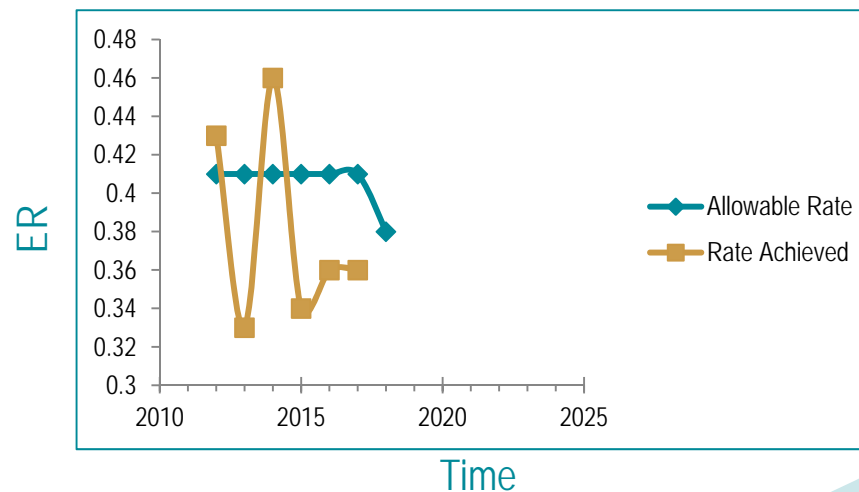


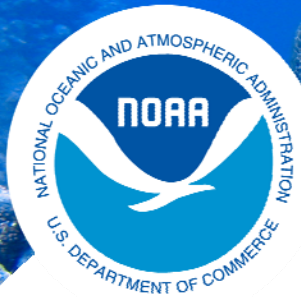
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## Results

- Most years allowable preseason ER = 41%
- ERs have stayed under limit 66% of the time



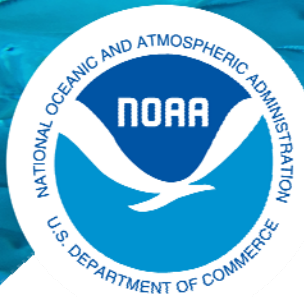


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## ABM framework adjusted for expected LRH future release strategies

LRH Abundance	Total Exploitation Rate Limit
0 – 24,000	0.30
24,000 – 31,000	0.35
31,000 – 67,000	0.38
>67,000	0.41



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# Questions?

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