

Lake Okeechobee Watershed Restoration Project

Sanibel-Captiva Conservation Foundation

Conservancy of Southwest Florida

DRAFT - March 07, 2022

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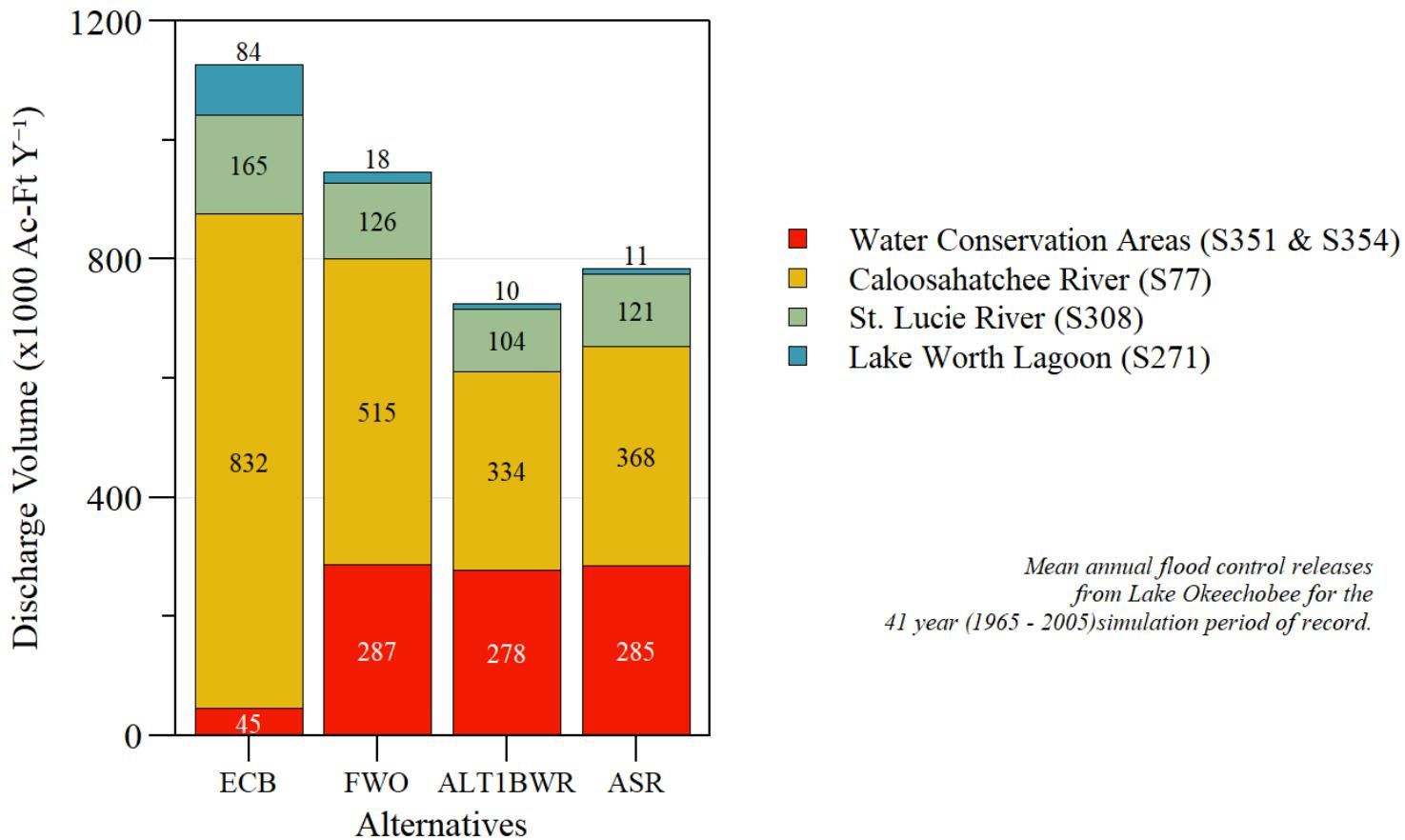
CONSERVANCY
of Southwest Florida
OUR WATER, LAND, WILDLIFE, FUTURE.

General Description

Alternative	Description
ECB	KRR partial complete; HHD under construction; C44 & C43 under construction; LORS08 schedule (cira 2012)
FWO	KRR & HHD complete; C44, C43 and C23/24 complete; CEPP features operational; LORS08 schedule (cira 2025)
1BWR	Wetland Attenuation Feature - 43000 acres; 80 ASR wells; wetland restoration; LORS08 (cira 2025)
ASR	WAF removed; 55 ASR wells; wetland restoration; LORS08 (cira 2025)

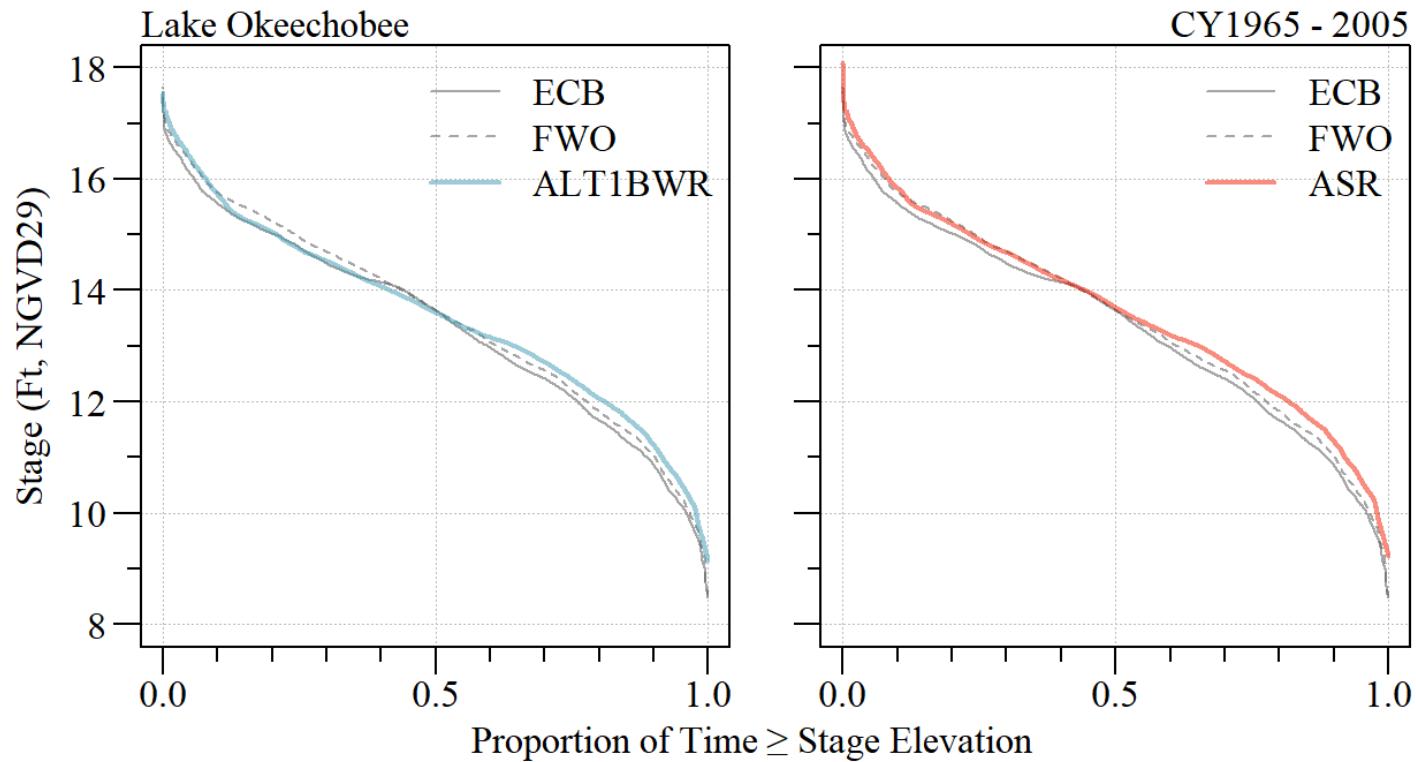
- RSMBN modeling Period of Simulation - Jan 1, 1965 to Dec 31, 2005
- Performance Measures
 - Both 2007 and 2020 Lake Okeechobee Stage and Northern Estuaries Salinity Envelopes were used to evaluate LOWRP alternatives.

Regulatory Discharge



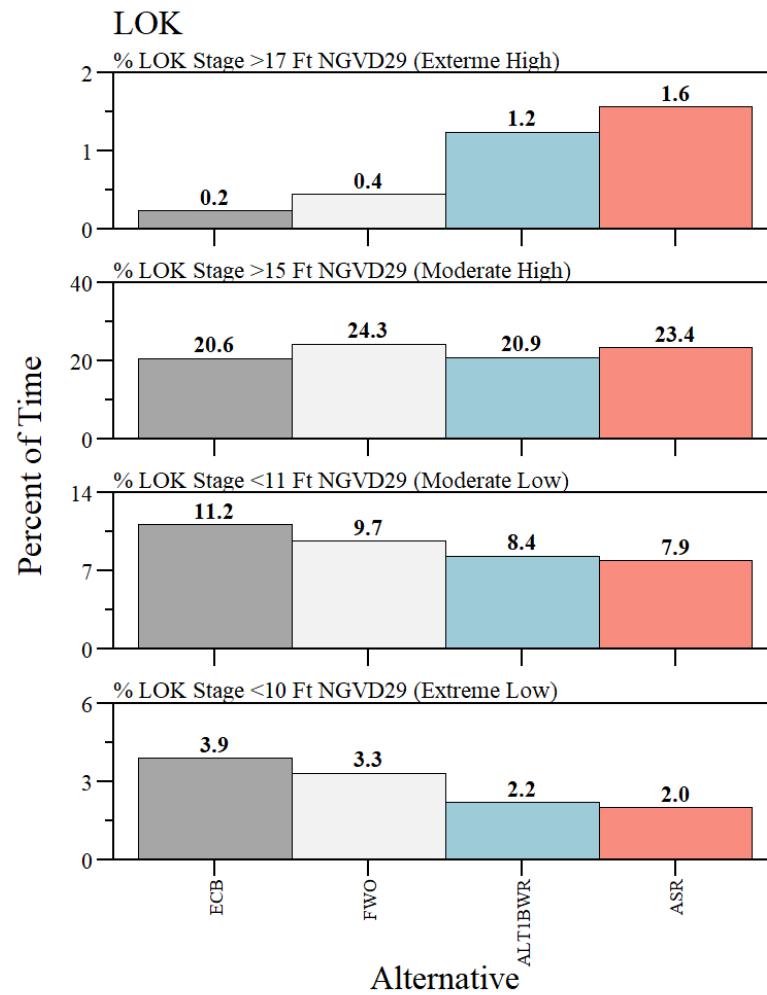
Regulatory discharge from Lake Okeechobee

LOK Stage Duration Curves

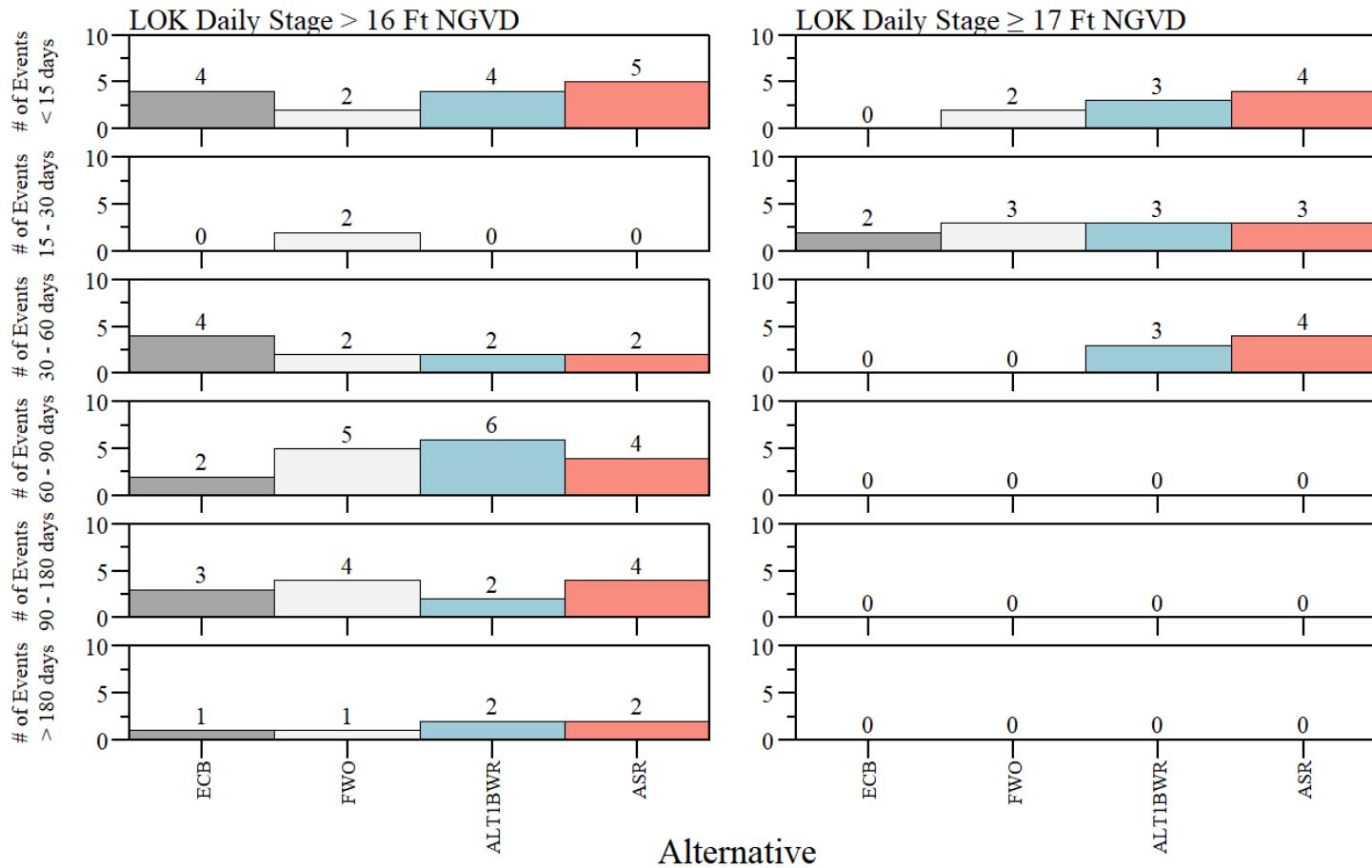


Stage duration curves for 1BWR and ASR alternatives relative to ECB and FWO baseline conditions.

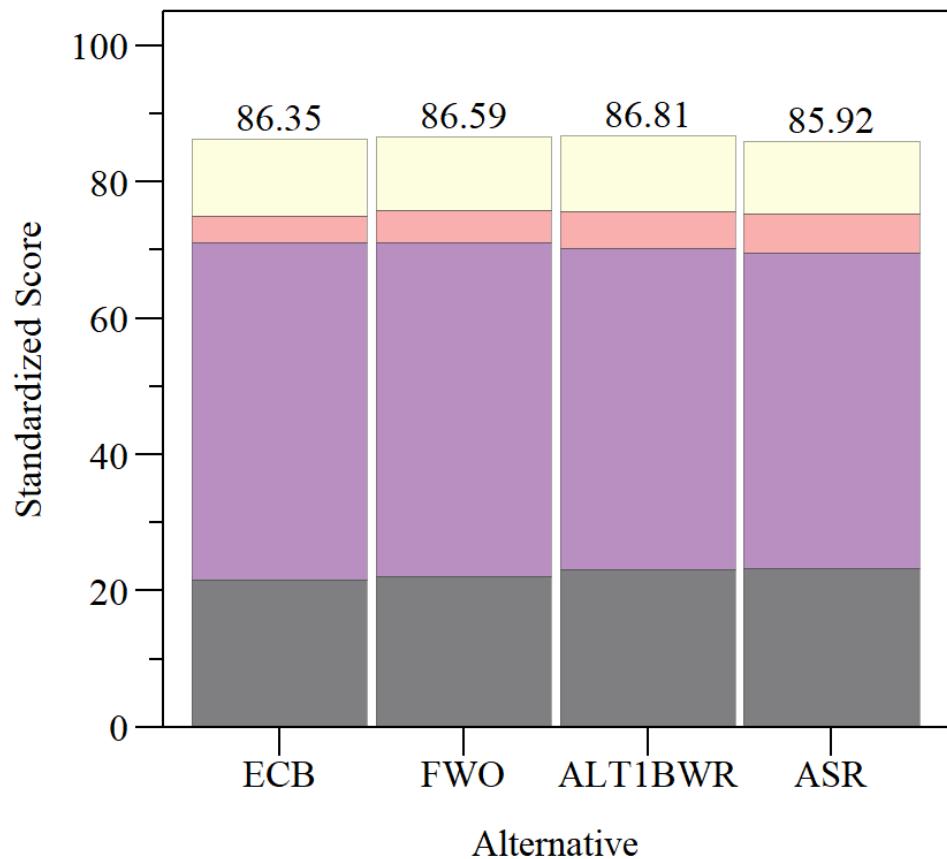
LOK Stage Conditions



LOK - High Stage Event and Duration



2007 RECOVER PM



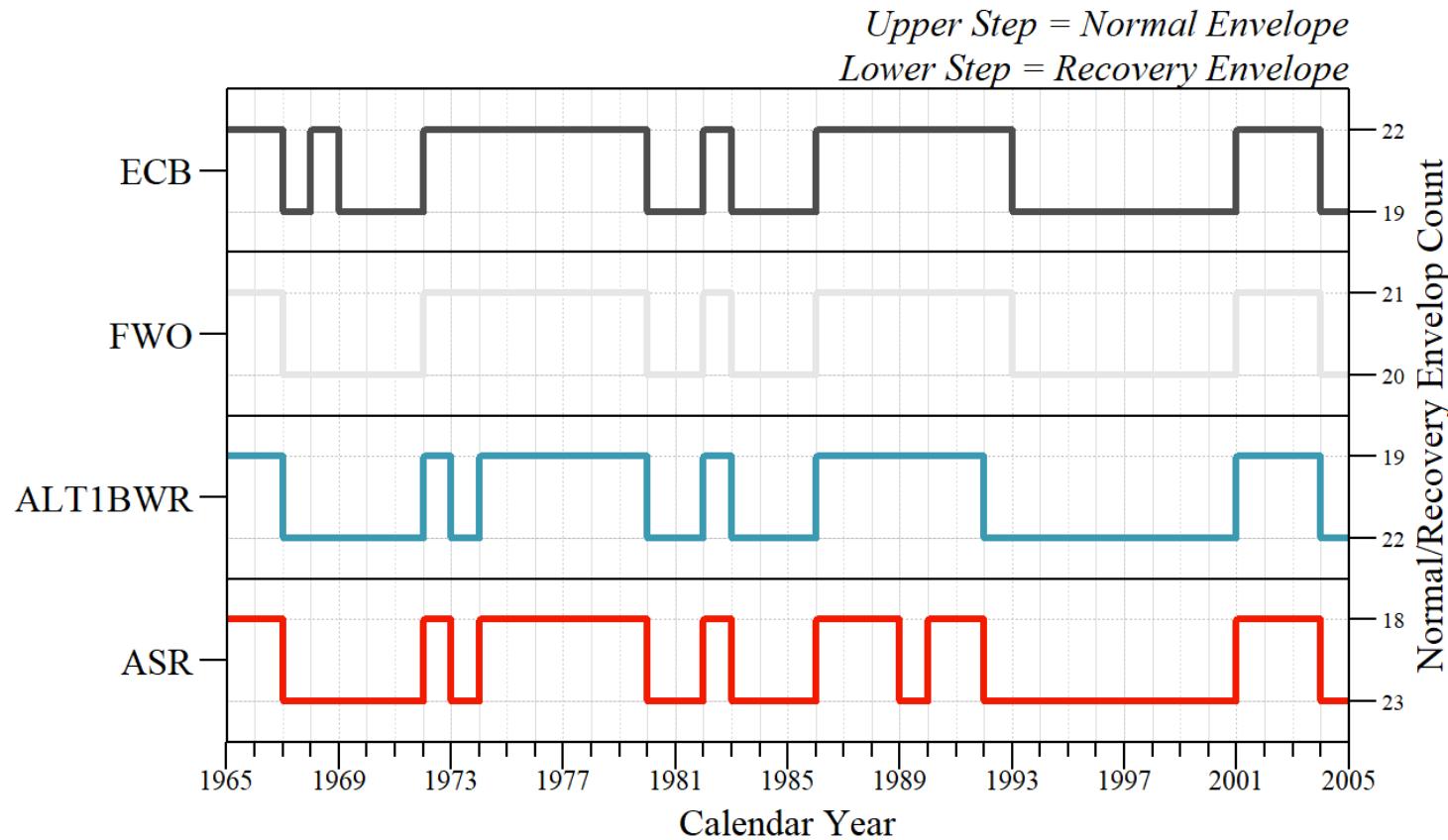
Lake Okeechobee
Envelope Penalty Score
All Years

Performance Measure

- Above Envelope
- Below Envelope
- Extreme High
- Extreme Low

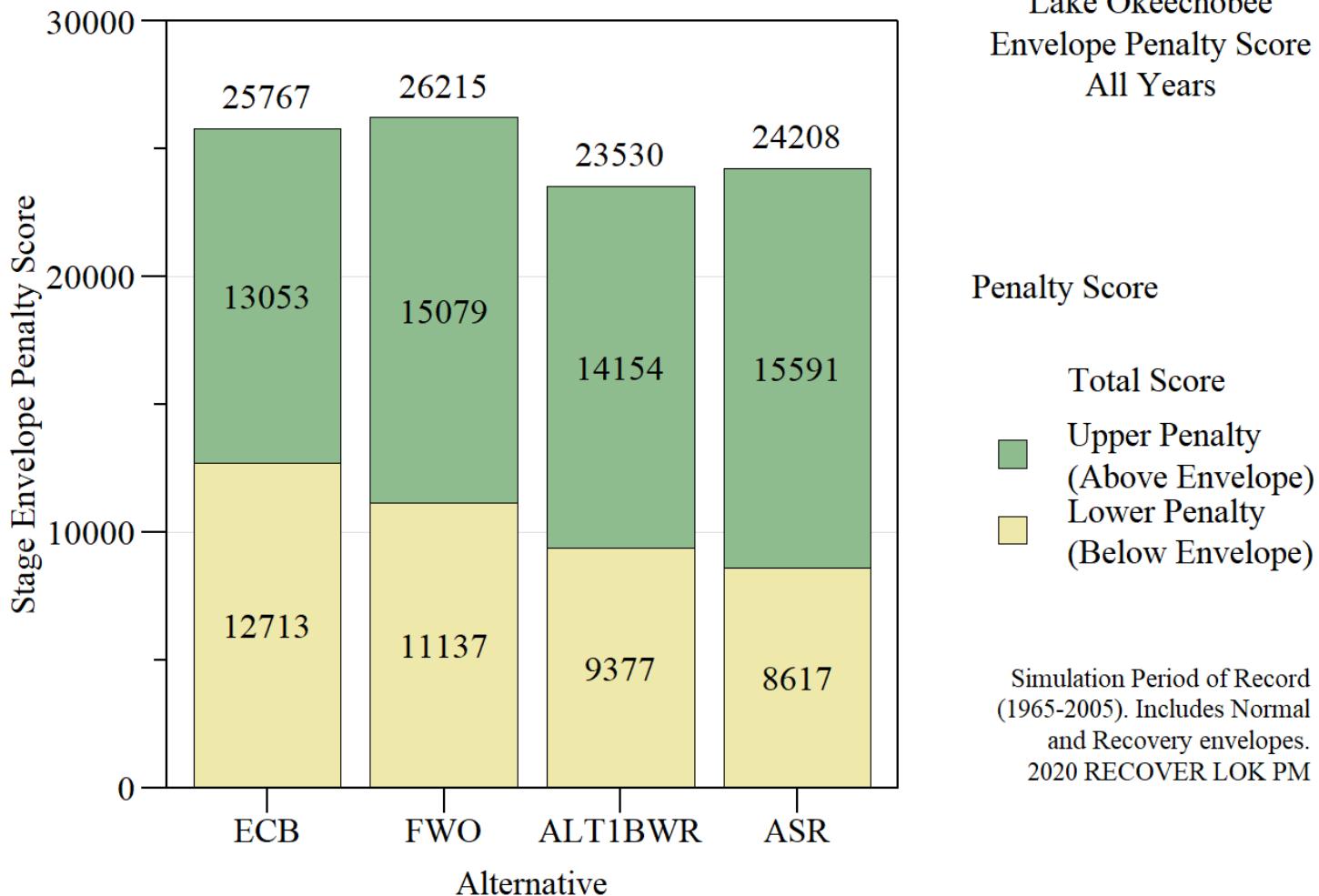
Simulation Period of
Record (1965-2005).
2007 RECOVER LOK PM

2020 RECOVER PM

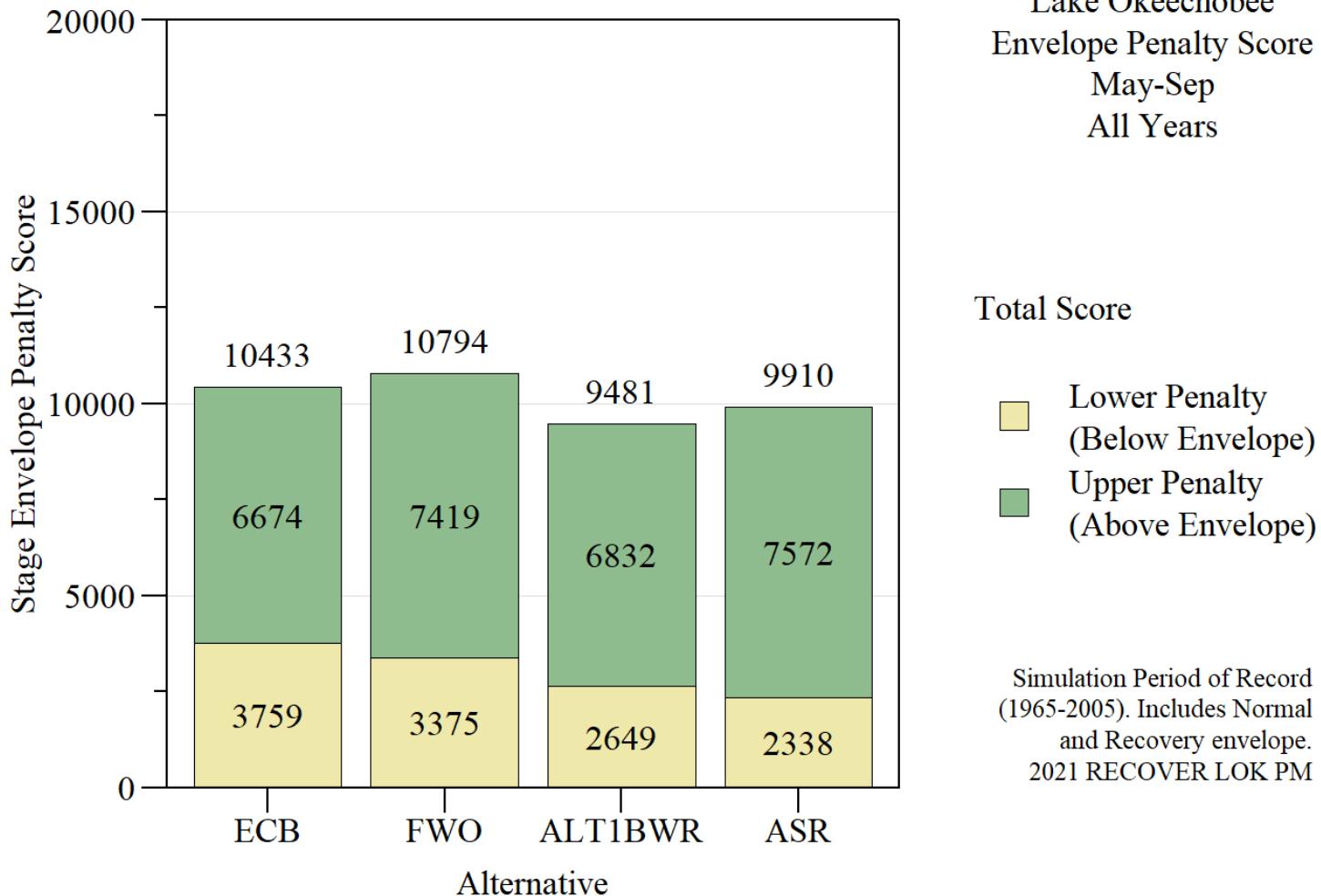


Normal and recovery stage envelope timeline for each alternative.

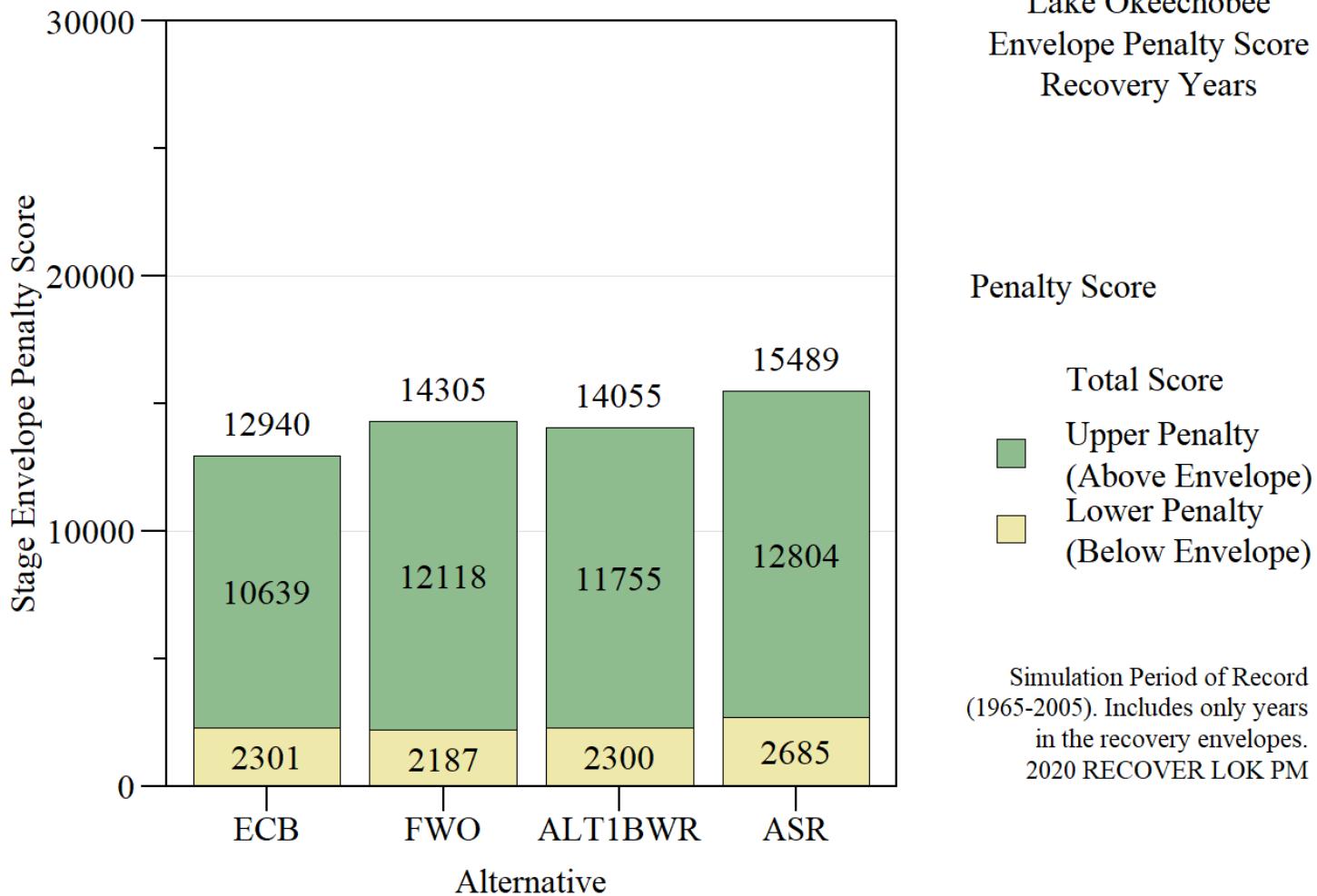
2020 RECOVER PM



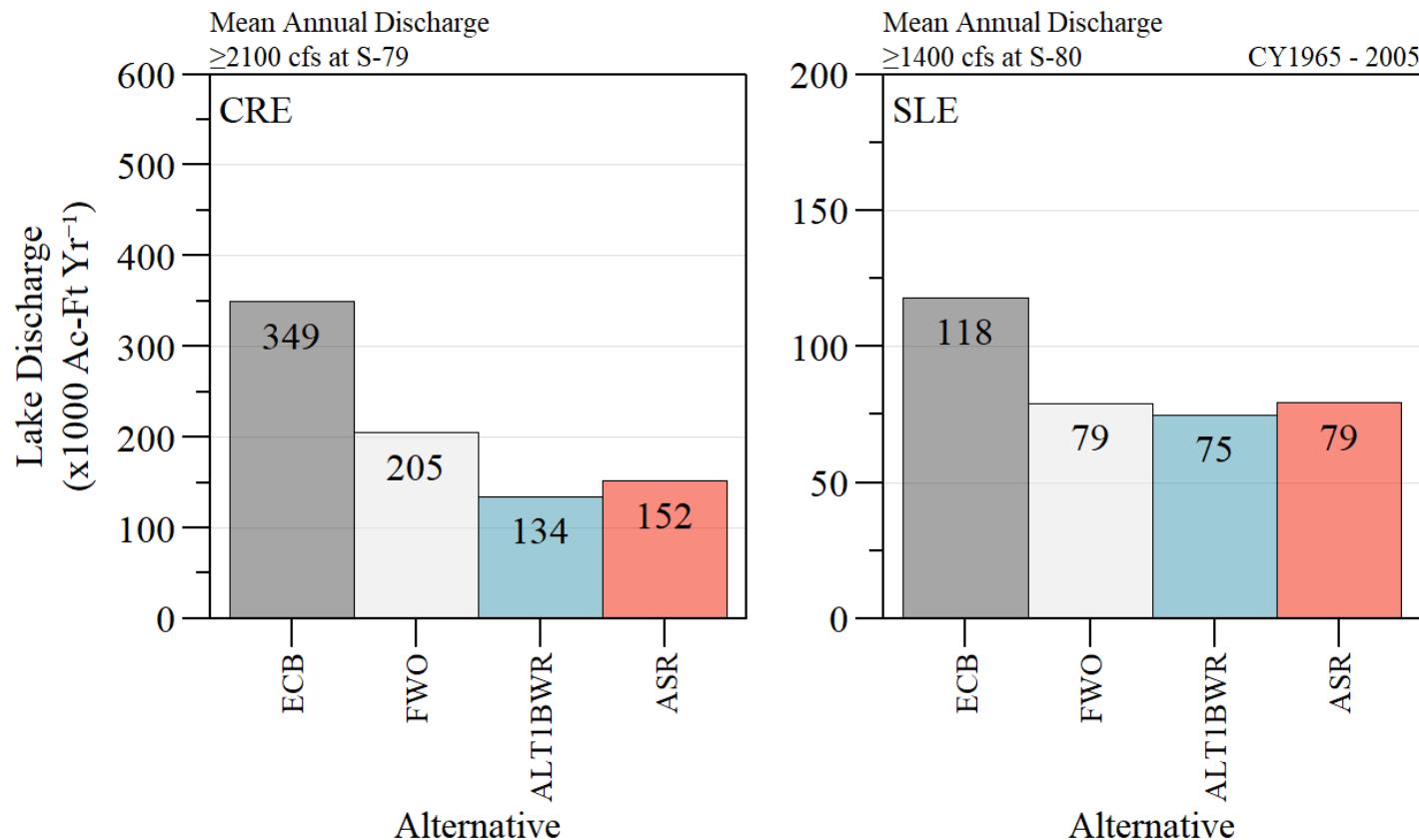
2020 RECOVER PM



2020 RECOVER PM

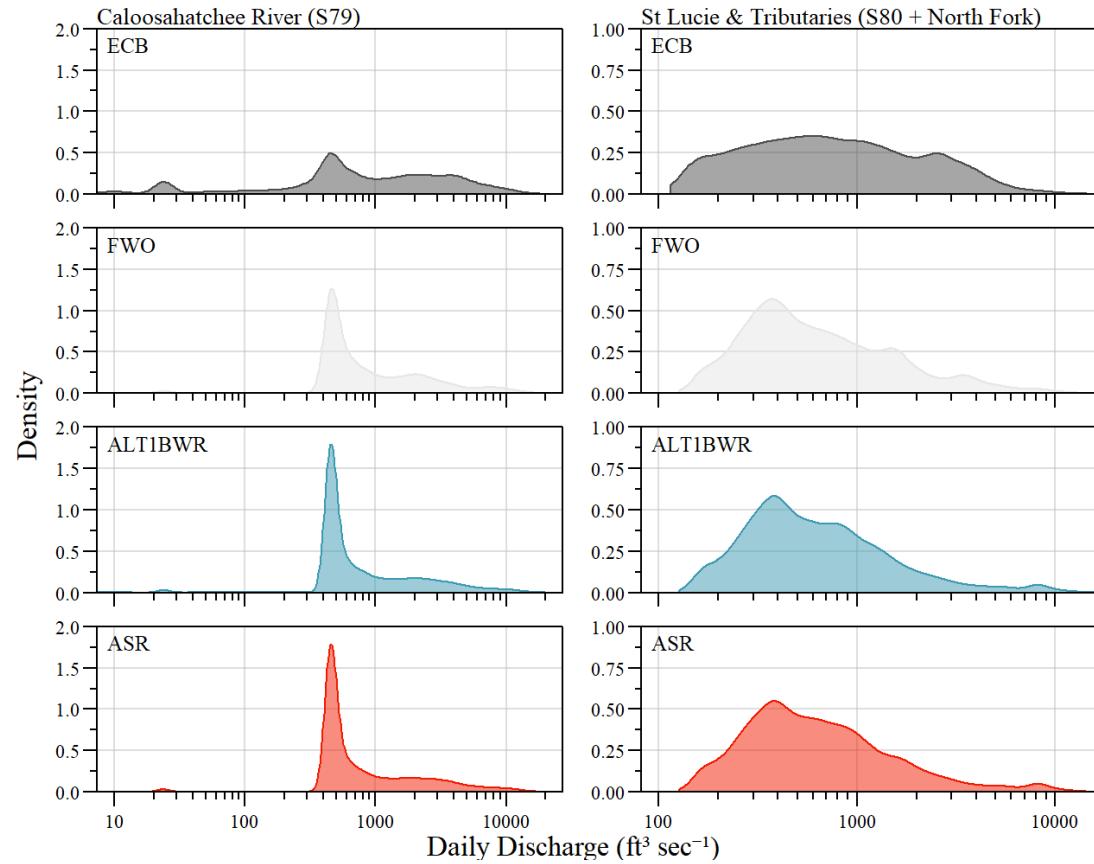


Regulatory Discharge



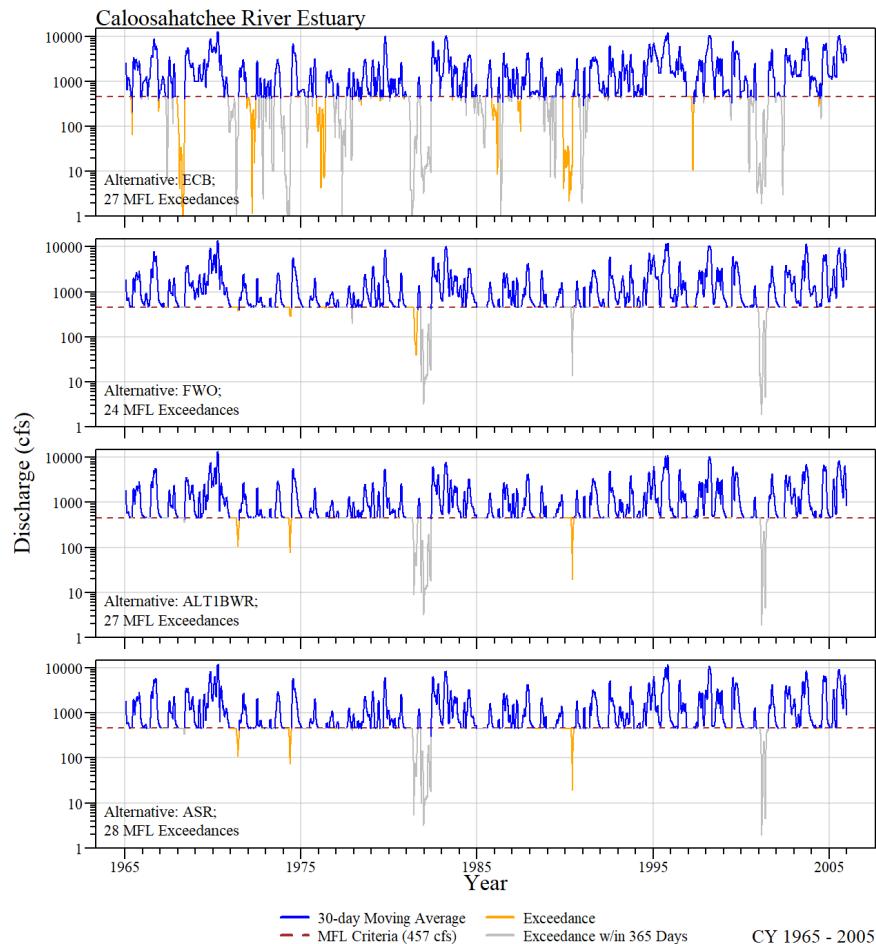
Stressful and damaging Lake discharges to CRE and SLE.

Daily Discharge



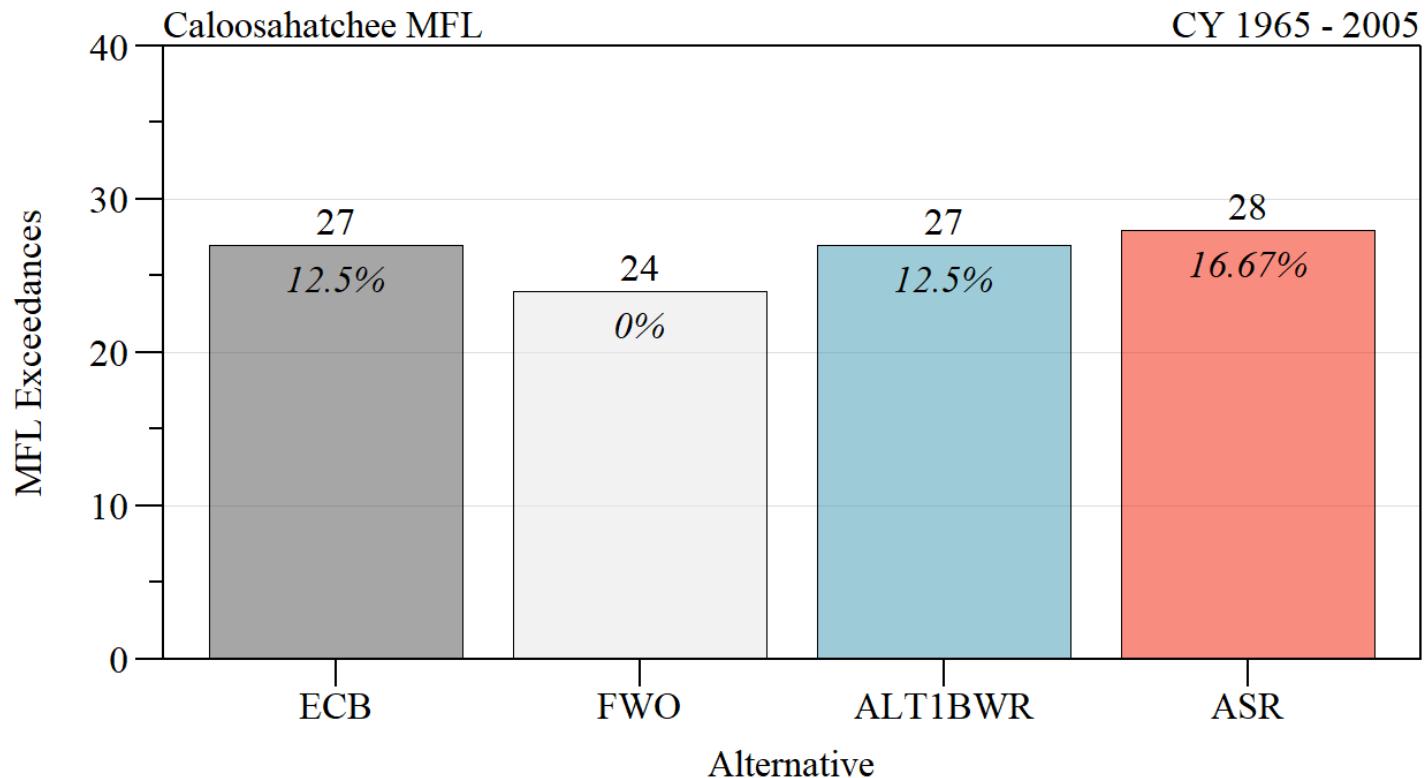
Daily discharge distribution during POS for each alternative and Estuary.

Caloosahatchee MFL



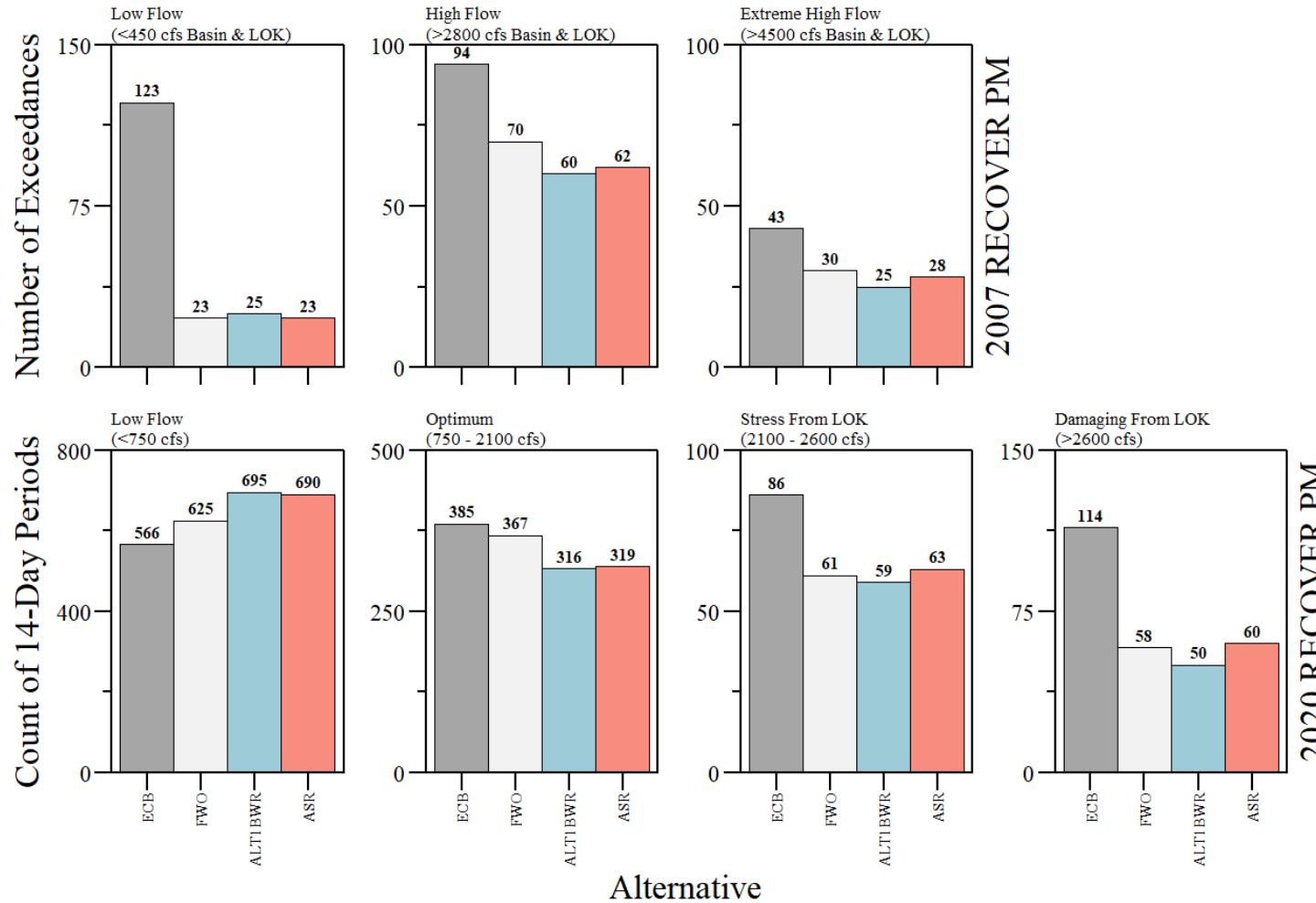
Caloosahatchee MFL Evaluation for each alternative.

Caloosahatchee MFL

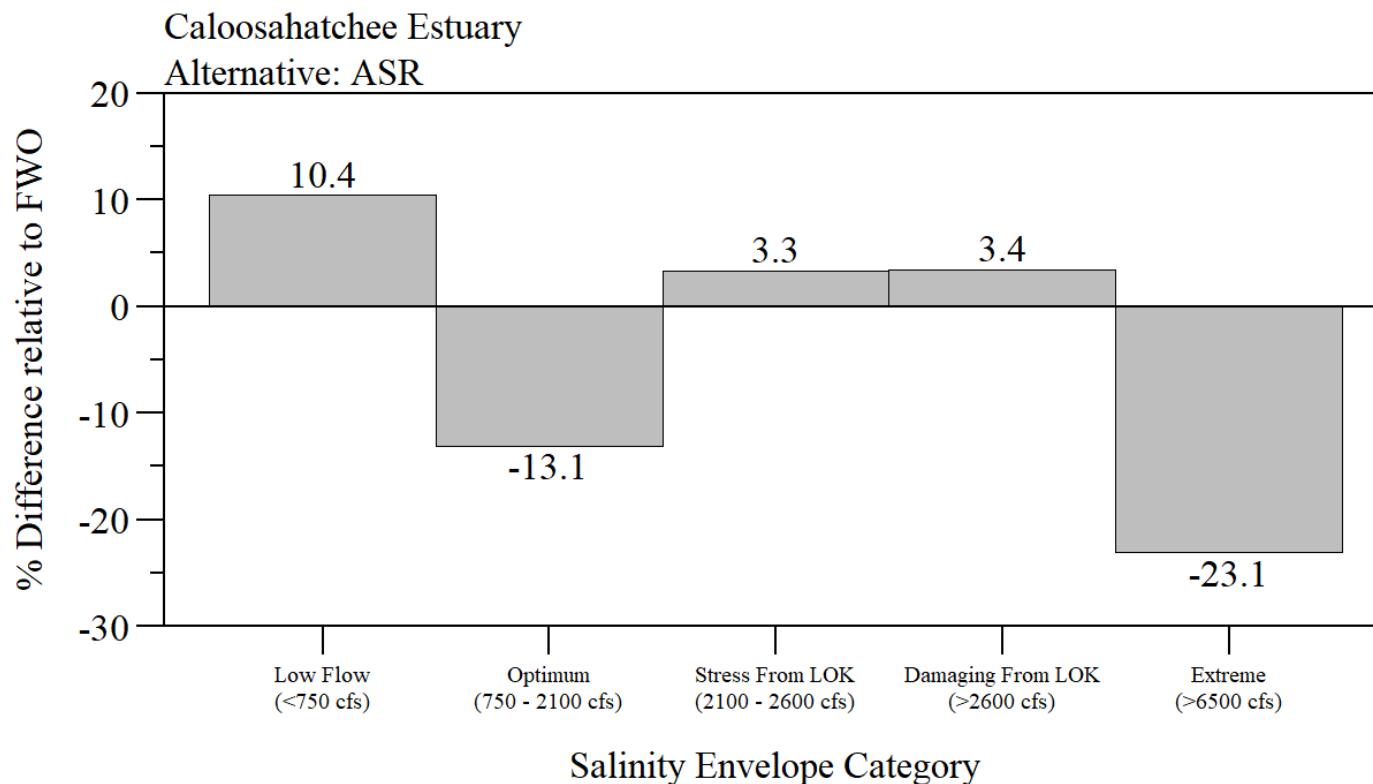


Caloosahatchee MFL percent difference relative to FWO.

Salinity Envelope

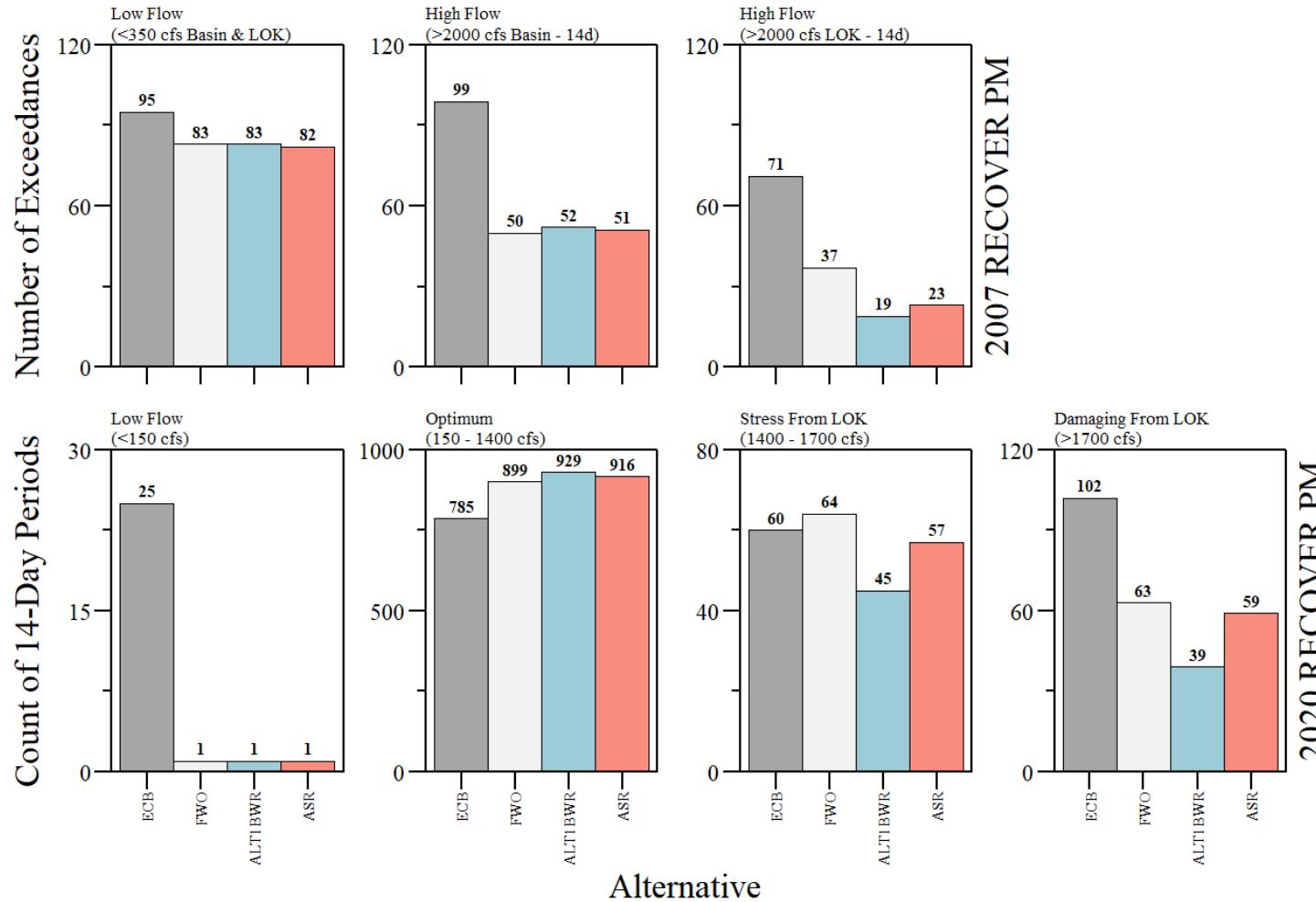


Salinity Envelope

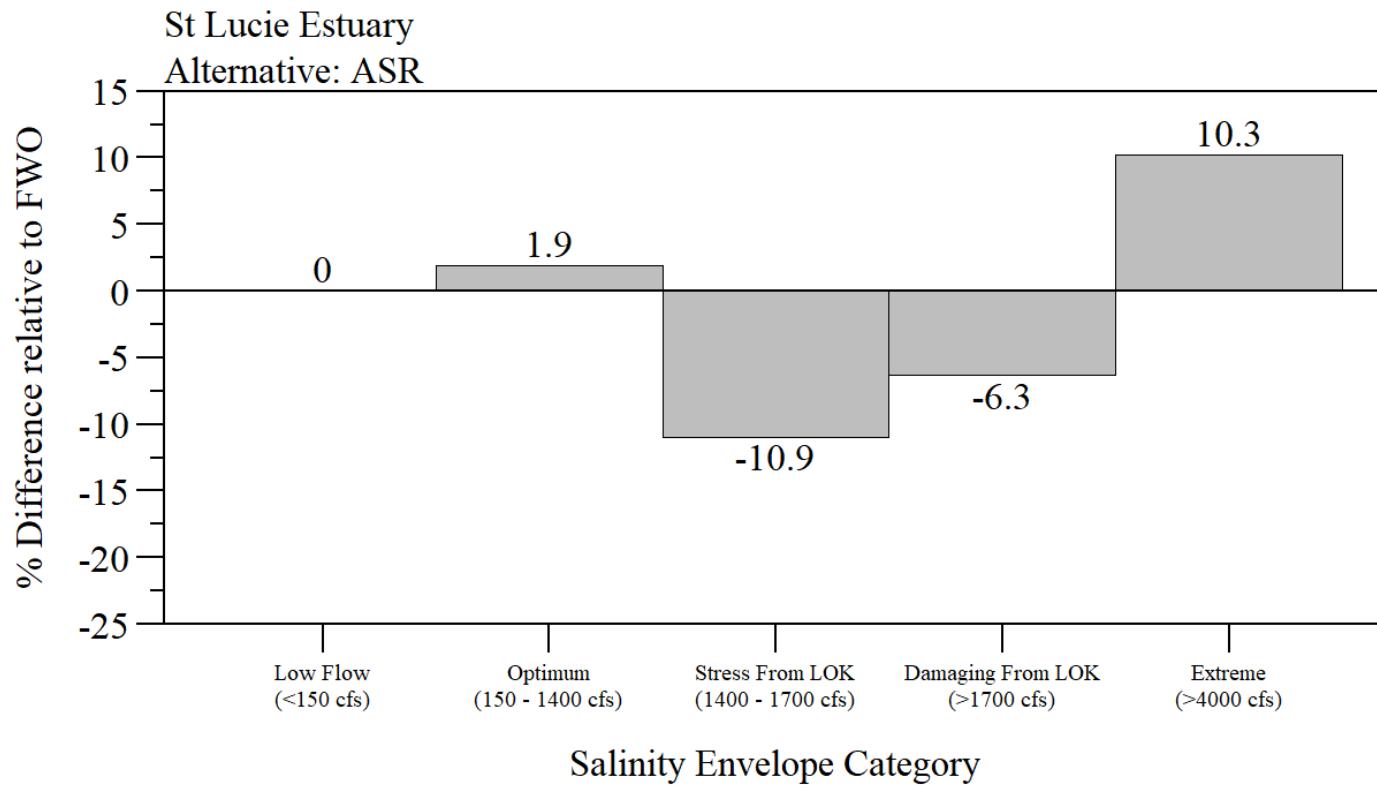


Caloosahatchee salinity envelope evaluation relative to FWO.

Salinity Envelope



Salinity Envelope



St Lucie salinity envelope evaluation relative to FWO.