

Lake Okeechobee System Operating Manual

POST Iteration 2 Modeling Evaluation

Sanibel-Captiva Conservation Foundation

Conservancy of Southwest Florida

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Summarized Data							Percent Different from FWO				
Estuary	Alt	Regulatory Flows (kacft/yr)	Stress Events From LOK ³	Stress Events From Basin ³	Damaging Events From LOK ⁴	Damaging Events From Basin ⁴	Regulatory Flows (kacft/yr)	Stress Events From LOK ³	Stress Events From Basin ³	Damaging Events From LOK ⁴	Damaging Events From Basin ⁴
CRE ¹	NA25 ²	528	183	118	186	173					
	ECBr	515	190	153	205	225	-2.5	3.8	29.7	10.2	30.1
	CC	578	289	89	156	174	9.5	57.9	-24.6	-16.1	0.6
SLE ¹	NA25 ²	187	148	210	142	428					
	ECBr	231	162	186	160	432	23.0	9.5	-11.4	12.7	0.9
	CC	72	13	308	17	469	-61.7	-91.2	46.7	-88.0	9.6

¹ CRE: Caloosahatchee Estuary; SLE: St Lucie Estuary

² NA25 = Future without project (FWO)

³ Stressful Flows:

CRE: ≥ 2100 cfs & < 2600 cfs

SLE: ≥ 1400 cfs & < 1700 cfs

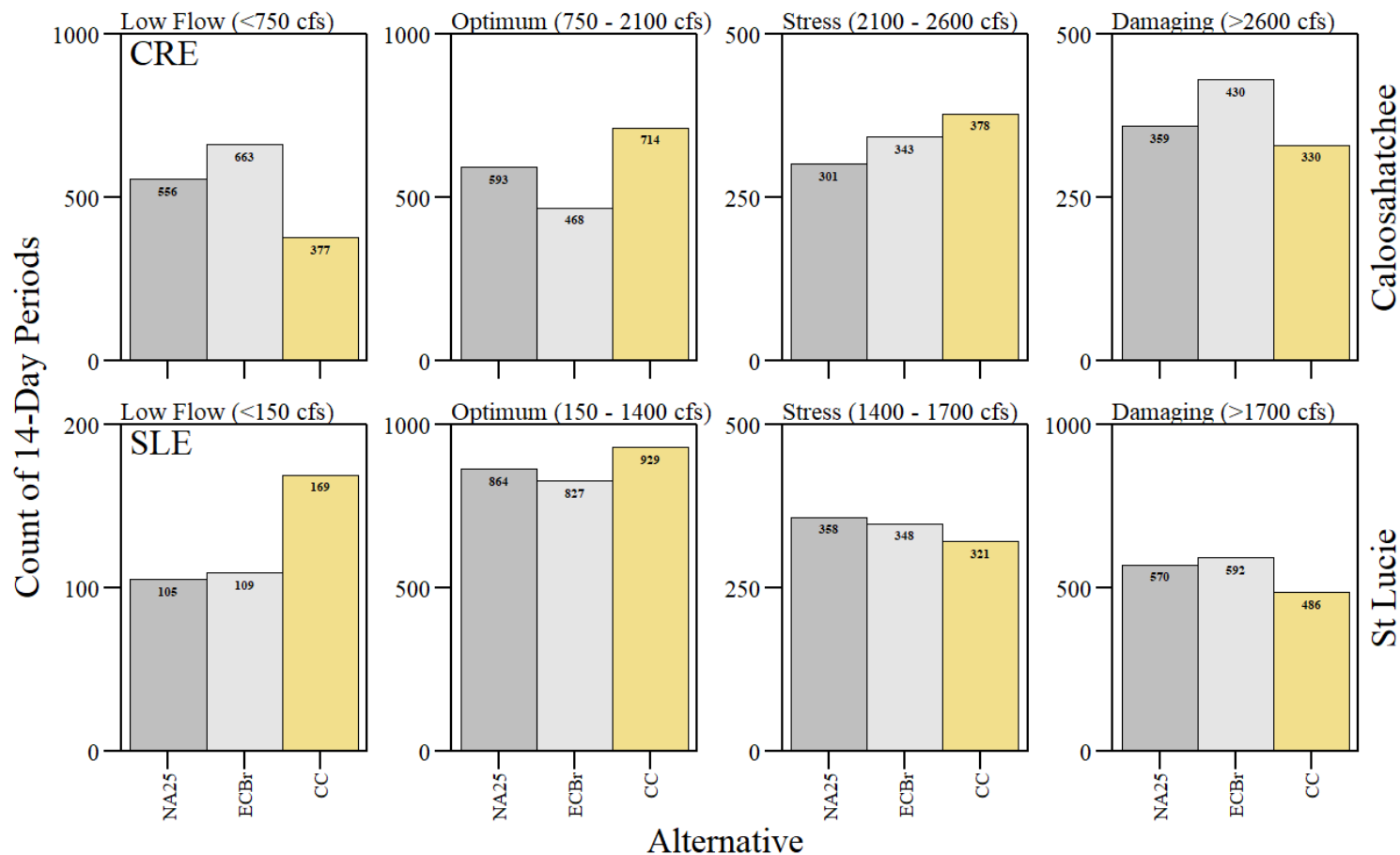
⁴ Damaging Flows:

CRE: > 2600 cfs

SLE: > 1700 cfs

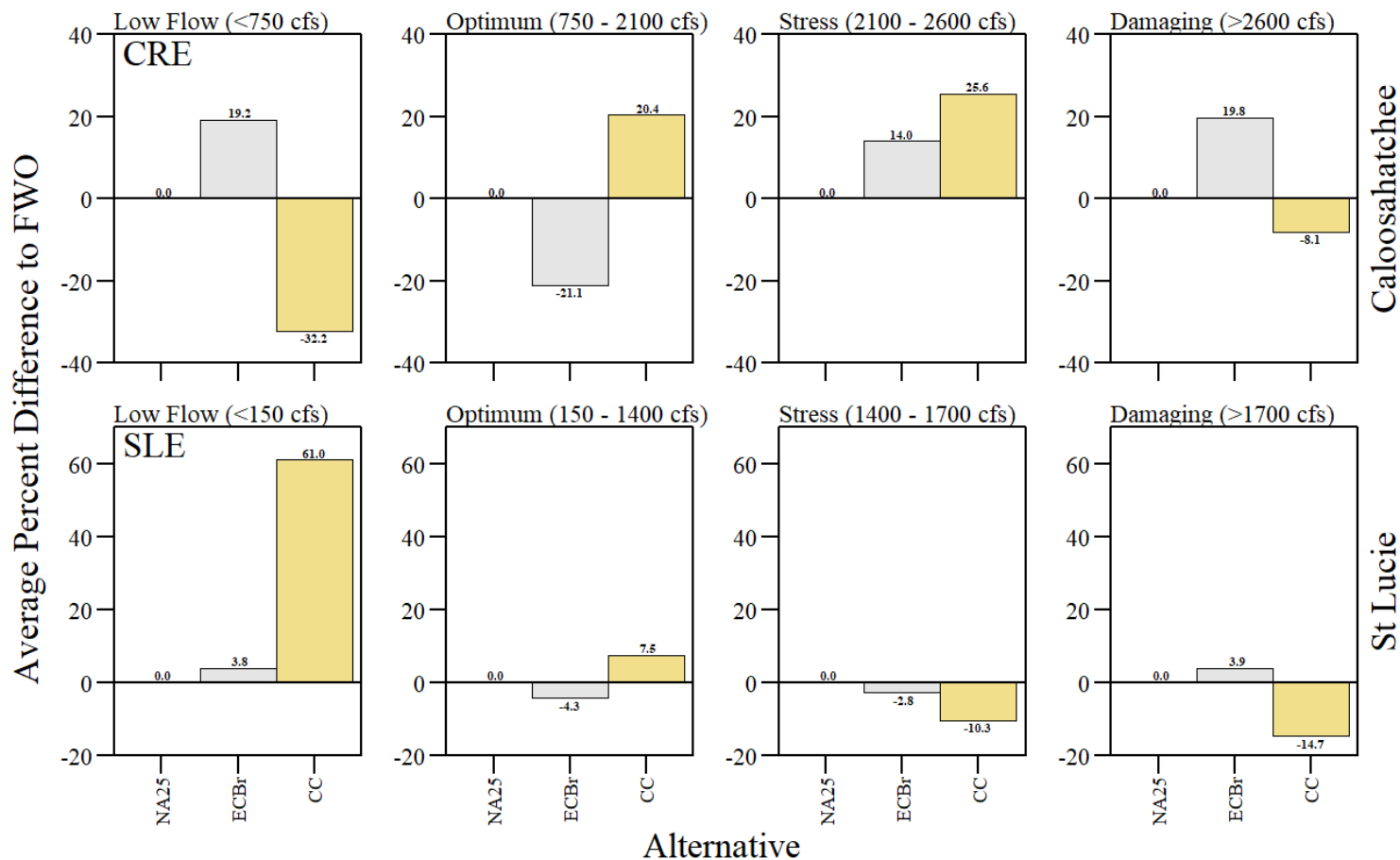
Data Source: USACE and SFWMD Interagency Modeling Center

RECOVER Metric



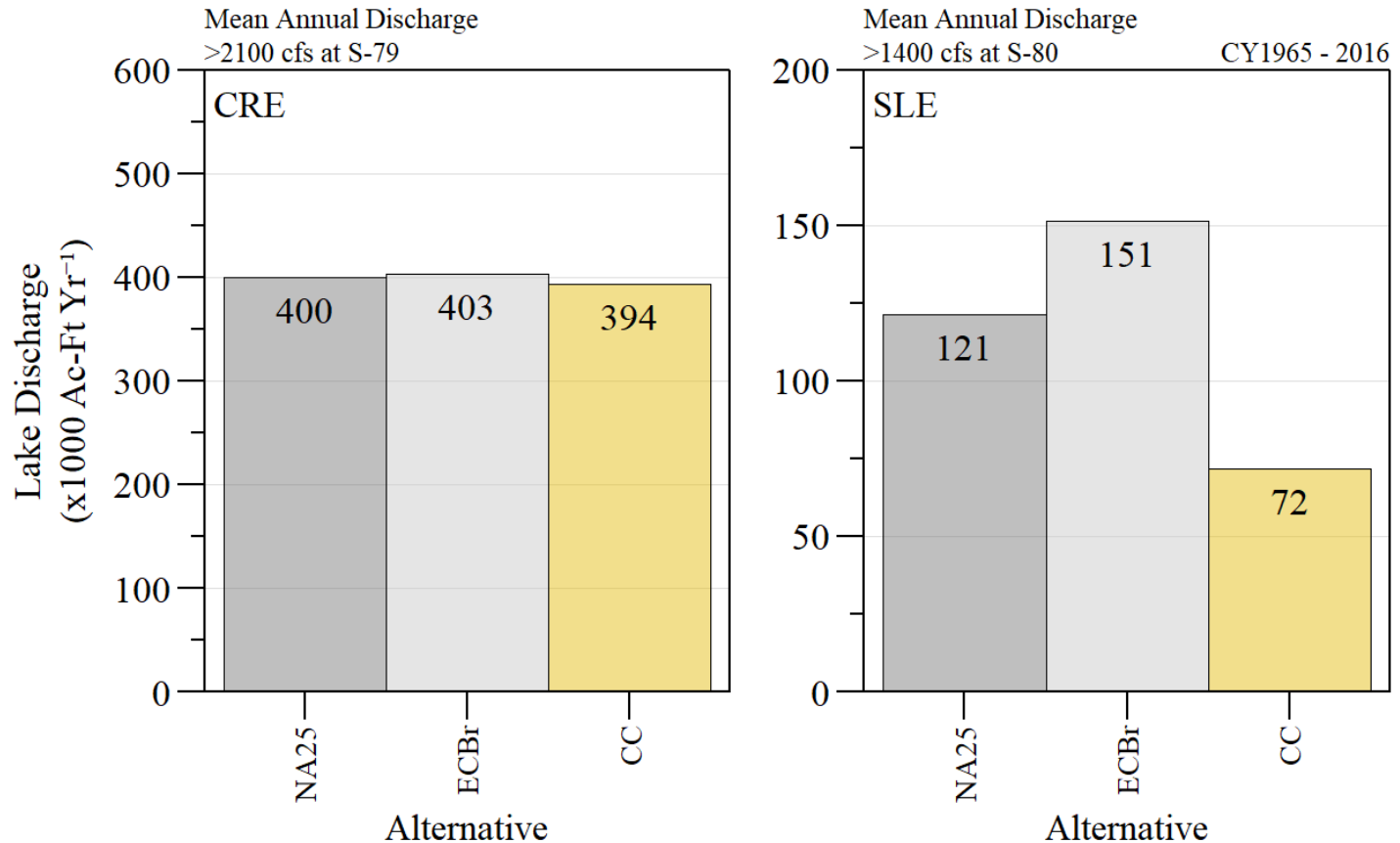
RECOVER salinity envelope evaluation during the simulation period of record for Caloosahatchee (top) and St Lucie (bottom) estuaries.

RECOVER Metric



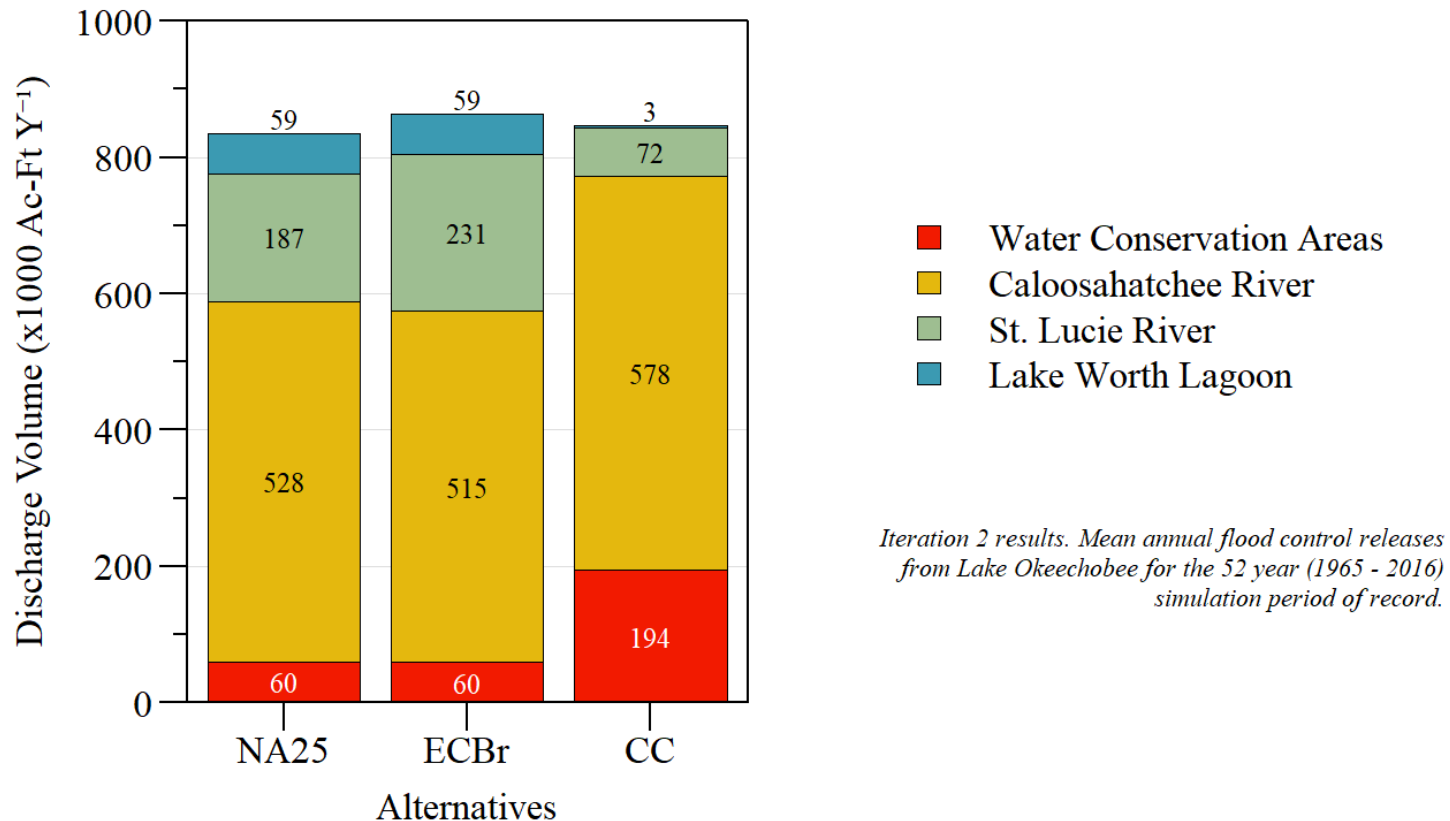
RECOVER salinity envelope evaluation relative to FWO (NA25) during the simulation period of record for Caloosahatchee (top) and St Lucie (bottom) estuaries.

Lake Discharges



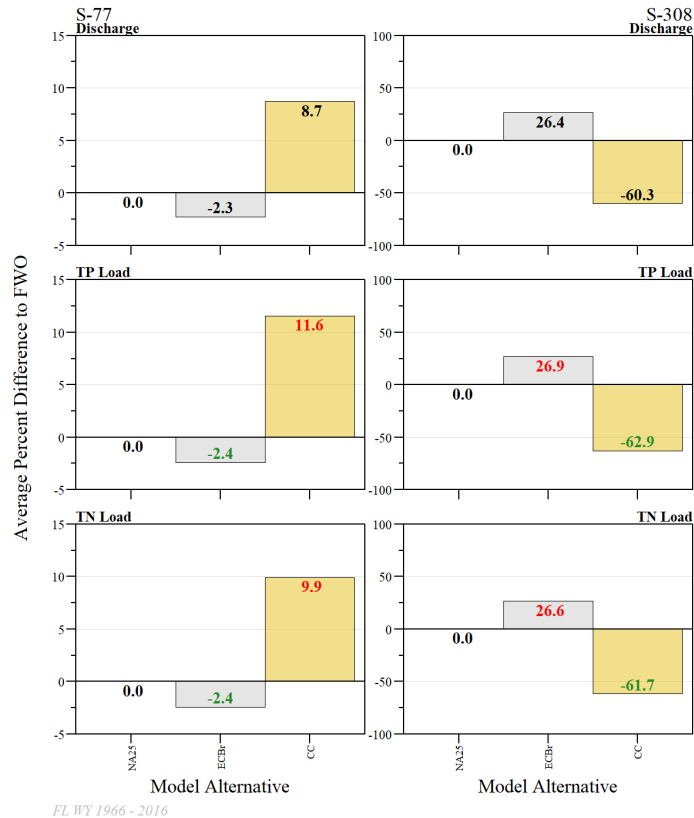
Average annual lake discharge volume over the simulation period of record when stress and damaging discharge at S79 and S80, respectively.

Flood control discharges



Average annual flood control discharges from Lake Okeechobee to Water Conservation Areas and Northern Estuaries over the simulation period of record.

Load



Average percent difference from FWO (NA25) for discharge and estimated nutrient loads over the May 1965 - April 2016 (FL WY 1966 - 2016) period of simulation.