



U.S. Army
Corps of Engineers

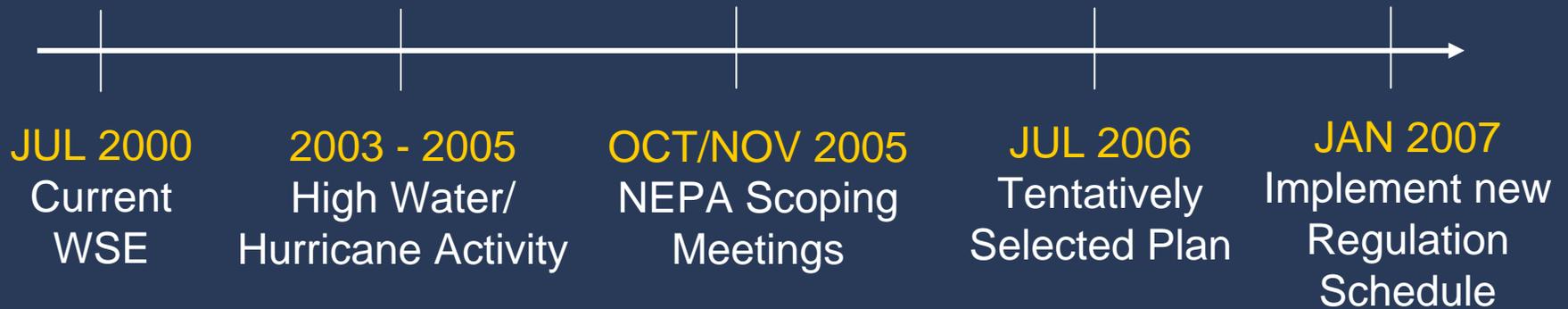


LORSS

Lake Okeechobee Regulation Schedule Study

July 2006

Background



Tentatively Selected Plan

1bS2-m

- Allows for quicker response to inflows
- Reduces high lake conditions
- Improves optimum flow to the estuaries

TSP 1bS2-m flexibility

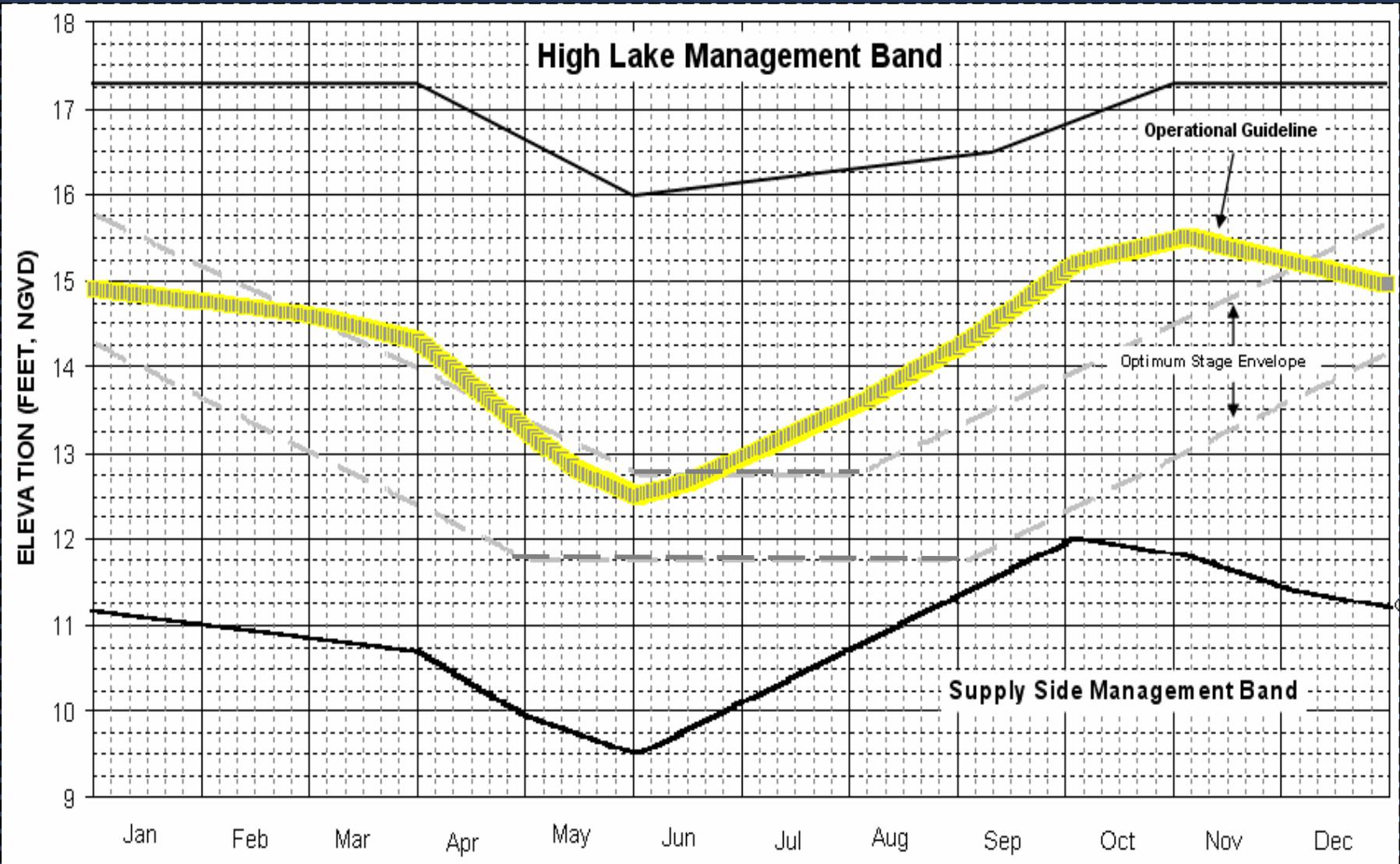
High Lake Management Band: Up to maximum capacity to tide and WCA

Operational Band:

- **High Stage (15.35 - 17.25):** Up to maximum pulse releases to steady flow up to 6,500 at S-77 (*Moore Haven*); 3,500 cfs at S-80 (*St. Lucie*); and, WCA from 0 to max
- **Intermediate Stage (14.90 - 16.60):** From environmental base flow of 450 cfs to the Caloosahatchee Estuary up to 6,500 at S-77; releases from 0 up to 3,500 cfs at S-80; and, WCA from 0 to max
- **Low Stage/ Base Flow (9.50 - 16.15):** From no releases to environmental base flow of 450 cfs to the Caloosahatchee Estuary up to 4,500 at S-77; releases from 0 up to 2,500 cfs at S-80; and, WCA from 0 to max

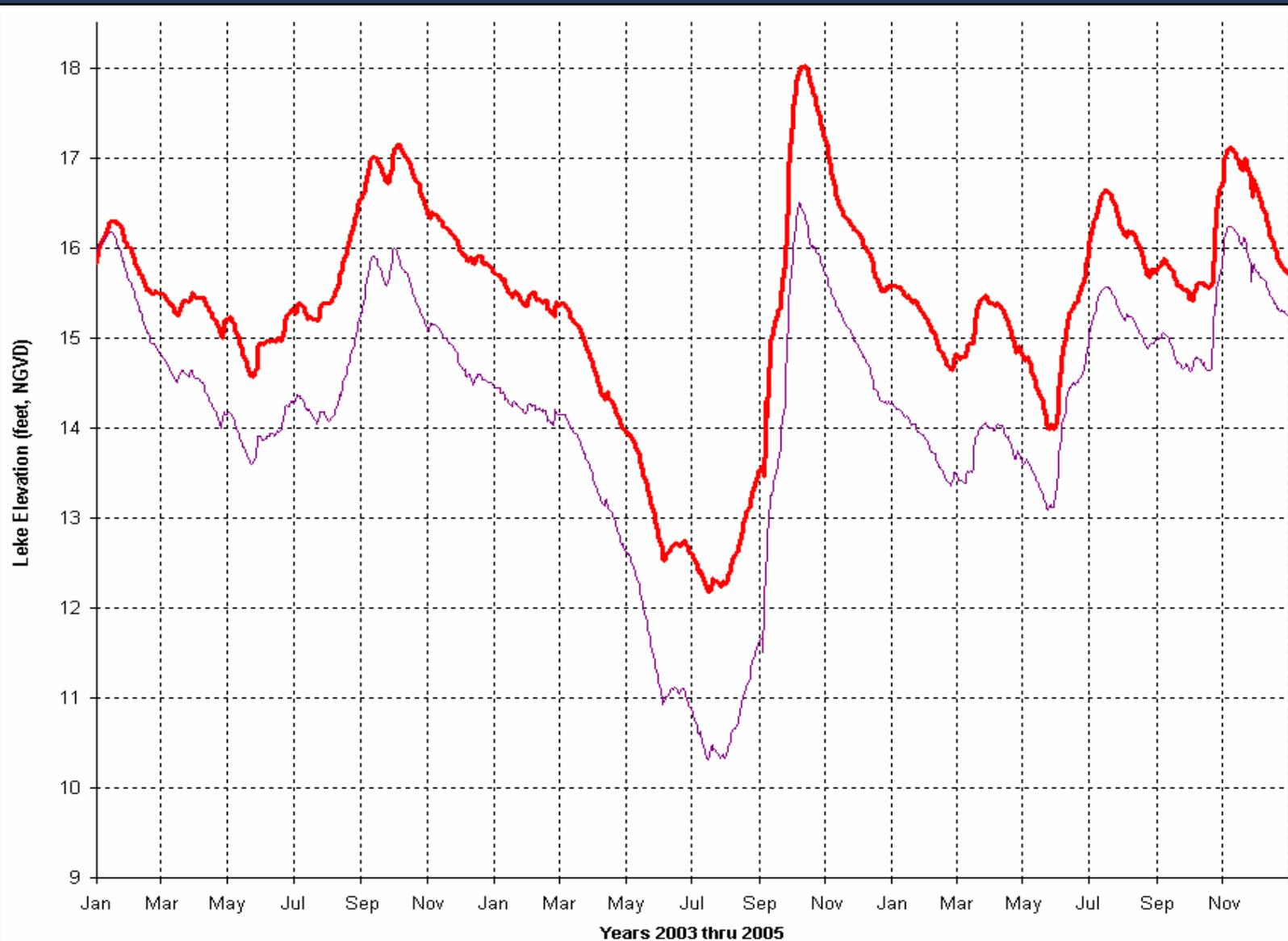
Supply Side Management Band: SFWMD water supply releases

TSP 1bS2-m Regulation Schedule

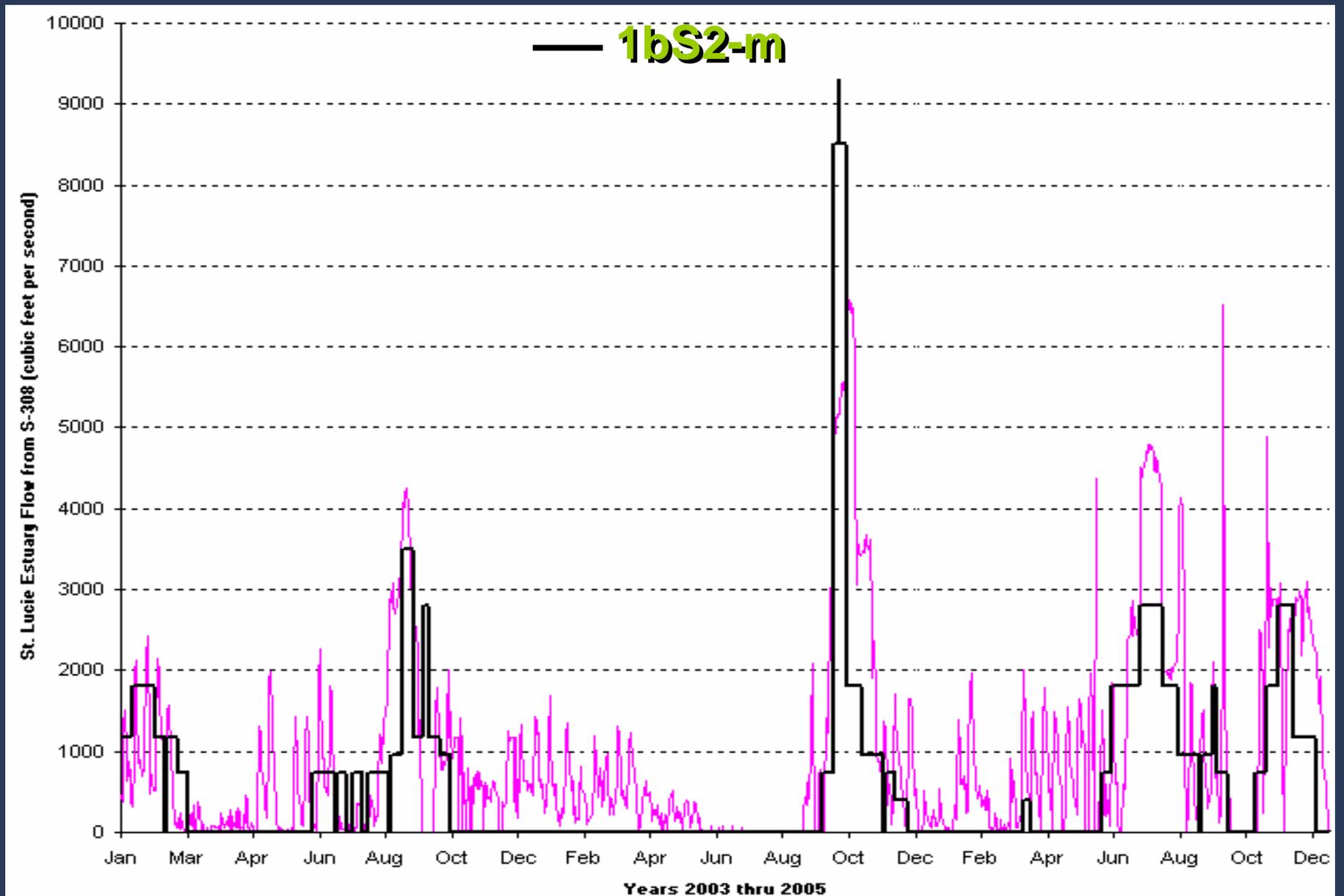


Actual 2003-2005 —

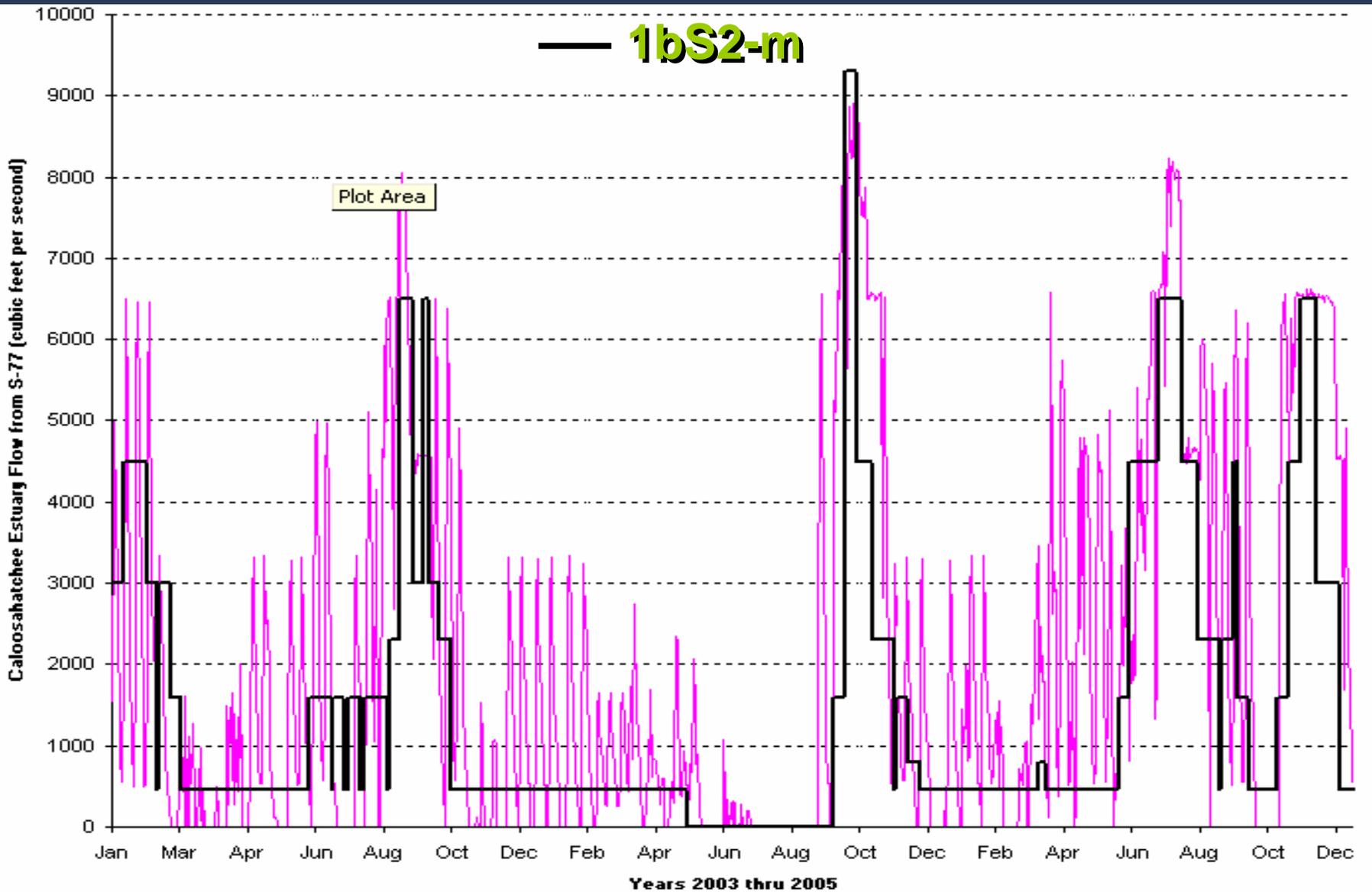
1bS2-M —



— Actual 2003-2005 to St Lucie from the lake



Actual 2003-2005 to Caloosahatchee from the lake



Study Assumptions

- Existing condition (2007)
- Operational guidelines consider period of record (1913 - current)
- Temporary forward pumps will be available by SFWMD
- SFWMD provided a surrogate for Supply Side Management line (lowered one foot)
- New schedule's anticipated period of use is 2007 - 2010
- Corps will initiate new Lake Okeechobee Regulation Study & EIS in 2007 to capture Acceler8 and other CERP Band 1 projects, and permanent forward pumps, scheduled for implementation in 2010

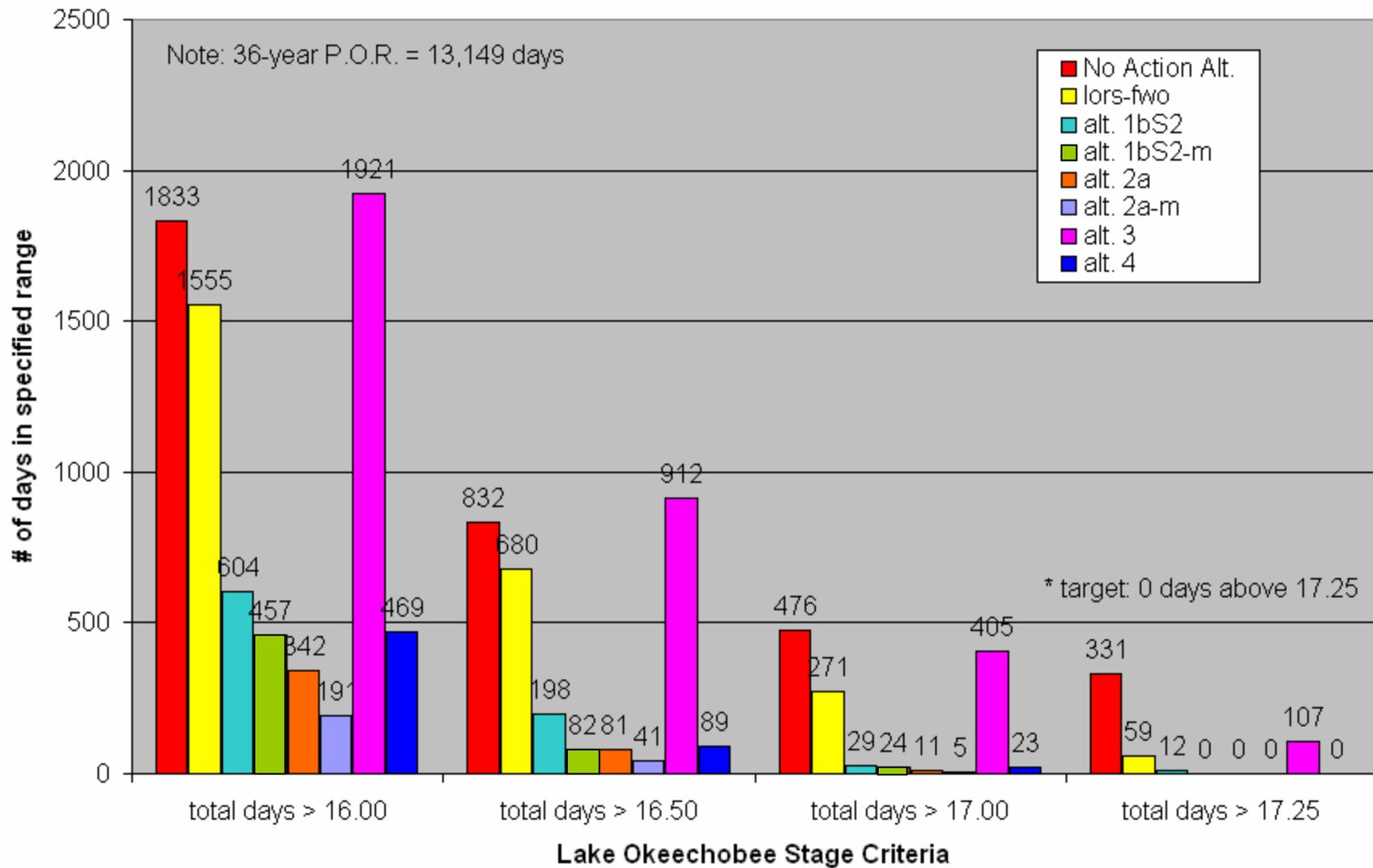
Study Constraints

- Period of record is 36 years (1965 - 2000)
- Herbert Hoover Dike integrity (Lake not to exceed 17.25)
- Existing systems' conveyance capacity
- Stormwater Treatment Areas water quality treatment capacity (64,000 acre-feet annual average)
- Existing regulation schedules for water conservation areas and Kissimmee River chain of lakes

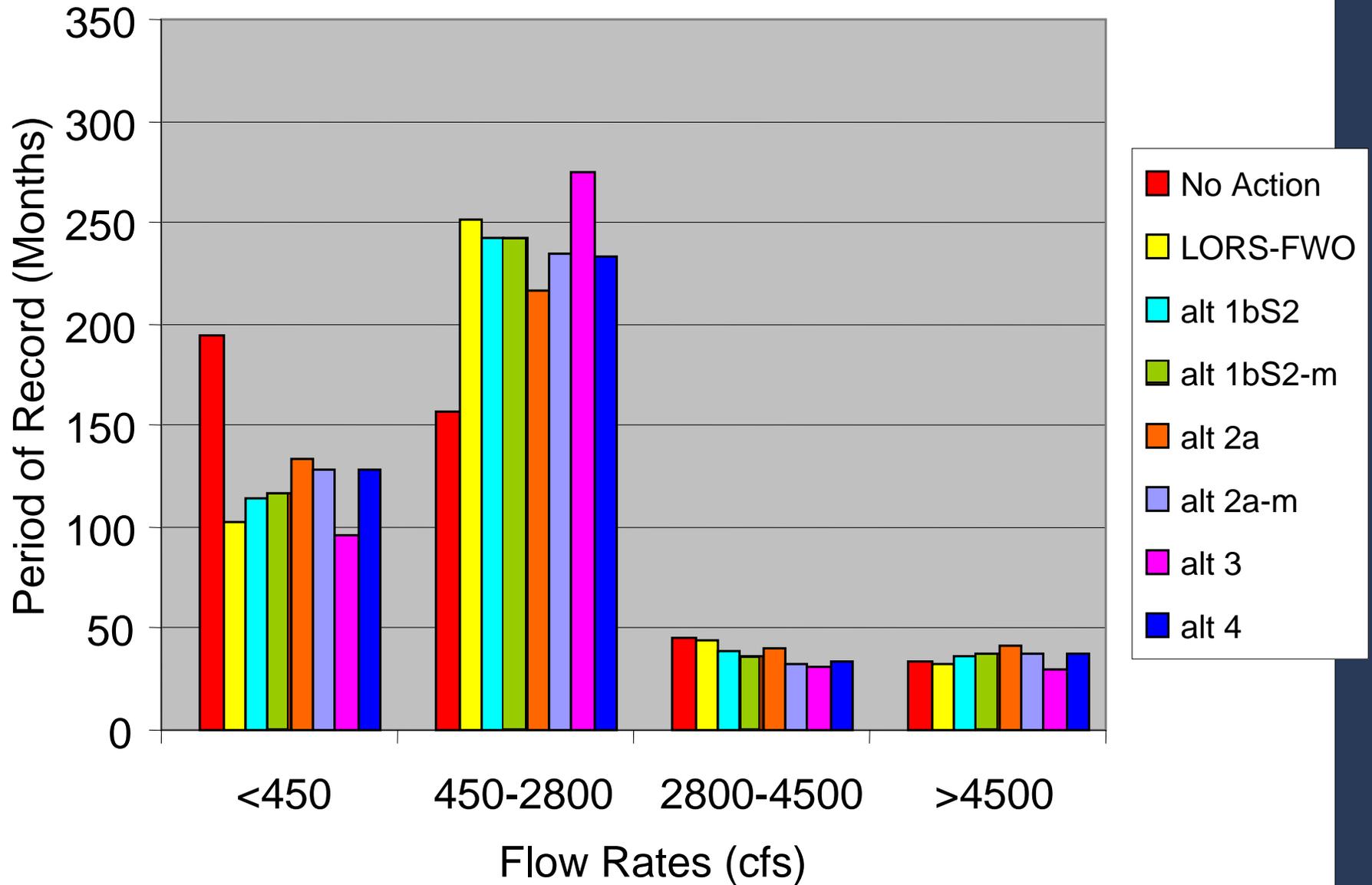
Performance of Alternatives

- Evaluated using SFWM 2 x 2 Model
 - Uses 36-year period of record (1965 - 2000)
- Evaluated against CERP-based performance measures
 - Flood Control / Public Safety
 - Caloosahatchee Estuary
 - St. Lucie Estuary
 - Lake Okeechobee
 - Water supply
 - Navigation
 - Greater Everglades

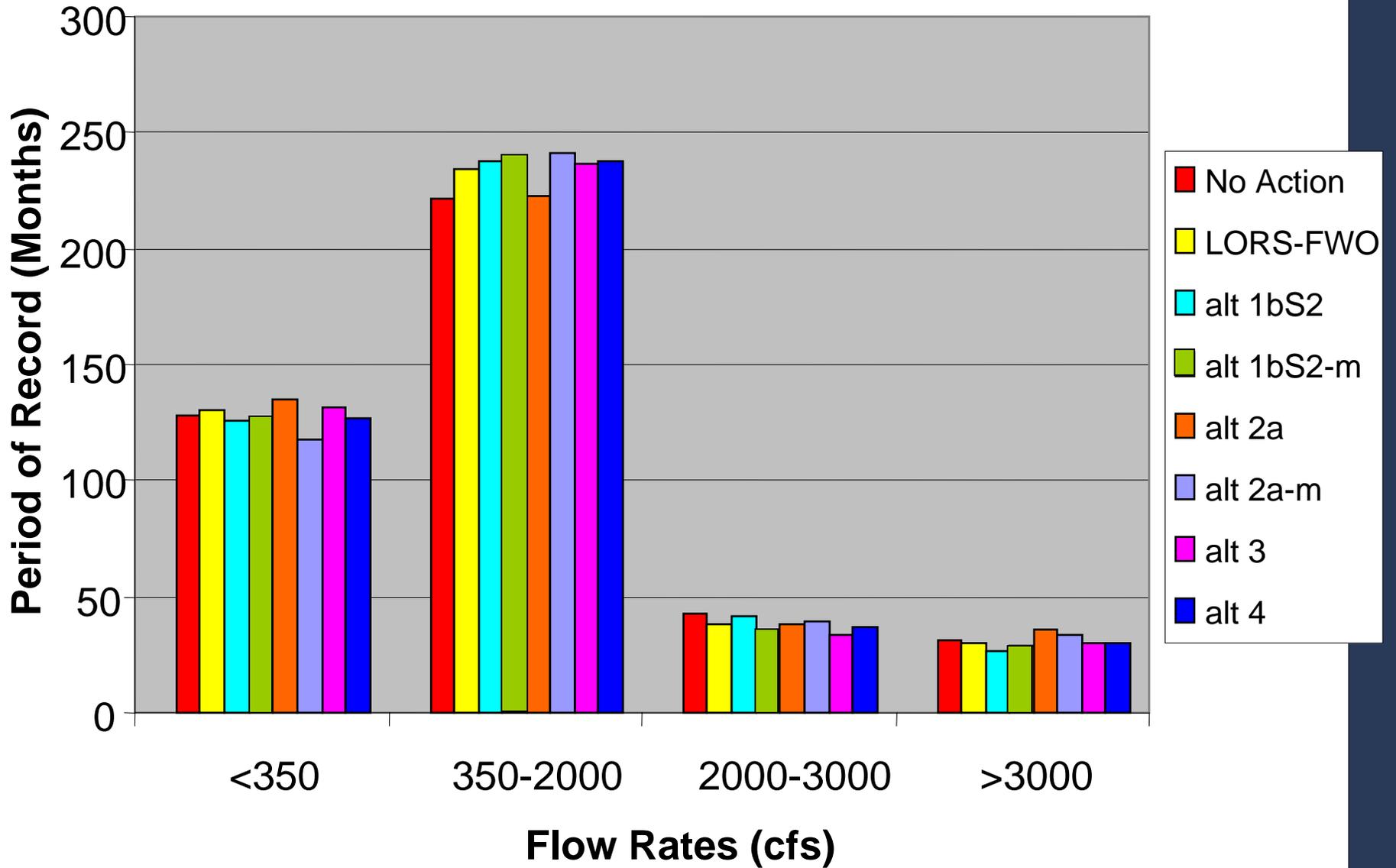
LORSS Summary of Lake Okeechobee High Stages (>16.00),
36-year simulated period-of-record



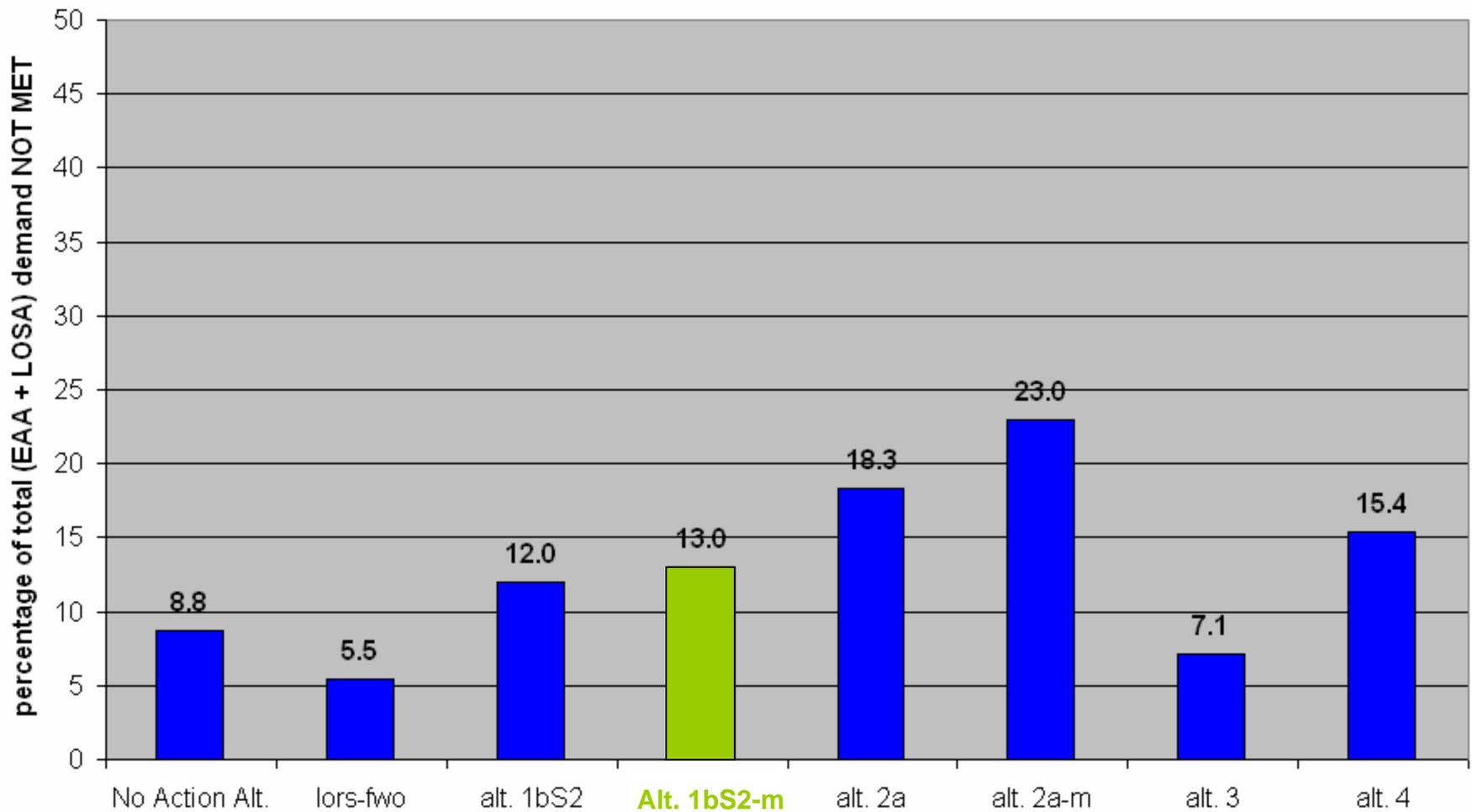
Caloosahatchee Estuary



St. Lucie Estuary



Mean Annual EAA and LOSA Supplemental Irrigation: Demands and Demand Not Met from 1965-2000 for Drought Years: 1971 1975 1981 1985 1989



Study Completion

- Workshops

- July 11 at Clewiston, John Boy Auditorium, 1200 WC Owen Avenue
- July 12 at Ft. Myers, Lee County Commission Chambers, 2120 Main Street
- July 13 at Stuart, Indian River Community College / Chastain Campus 2400 S.E. Salerno Road

- 45-day public comment period for draft SEIS and WCP begins in August

- Regional public meetings in September
- Final EIS and ROD in December 2006

Comments

Jacksonville District website
www.saj.usace.army.mil

Project Manager Pete Milam
j.p.milam@saj.usace.army.mil

U.S. Army Corps of Engineers
Jacksonville District
701 San Marco Blvd.
Jacksonville, FL 32207-8175