

ALT4A4: Sensitivity of L29 Weir Widths

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ALT4ENPB: ENP Base Condition

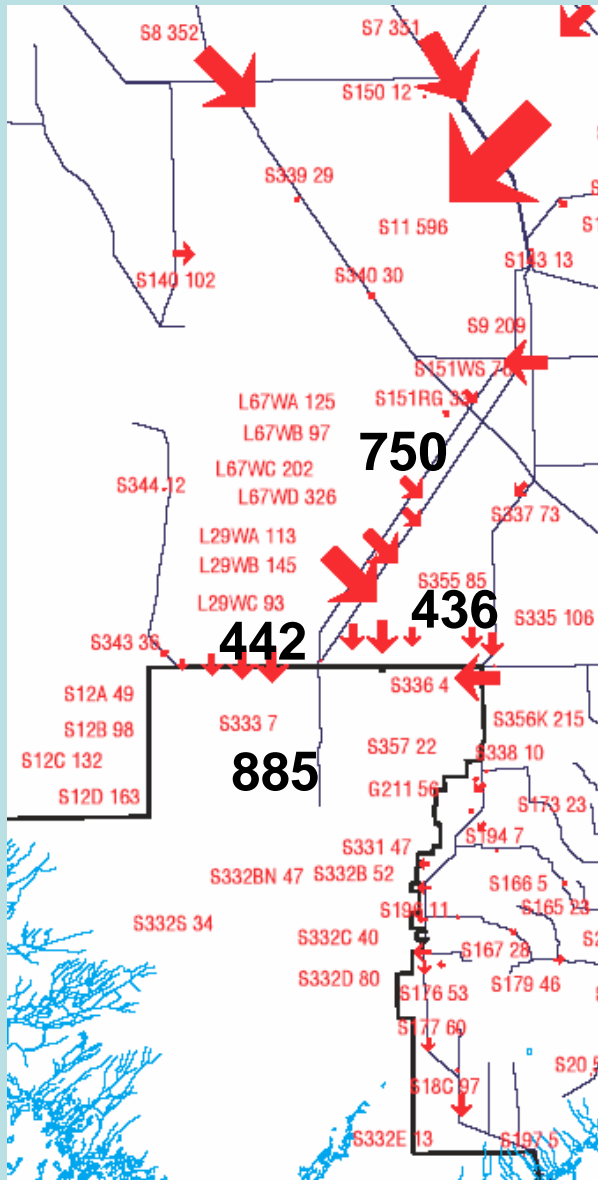
- ALT4ENPB raises L31N close criteria on S356 from 4.5 (in ALT4) to 5.5 ft
- Otherwise ALT4ENPB same as ALT4
- S356 operated by the gradient-based approach as in ALT4

ALT4A4 Sensitivity Runs

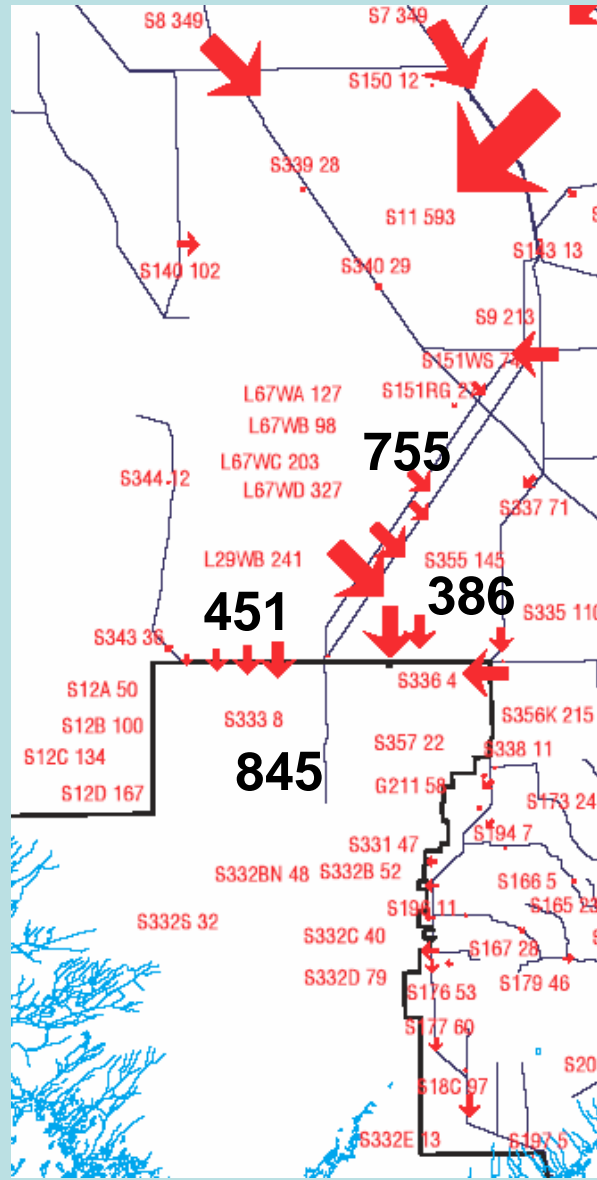
Sens.Runs	L29WA	L29WB	L29WC
ALT4ENPB	200 ft	200 ft	200 ft
ALT4A4A	None	200 ft	None
ALT4A4B	100 ft	100 ft	100ft
ALT4A4C	250 ft	250 ft	250 ft
ALT4A4D	500 ft	500 ft	100 ft

Average Annual Structure Flows (kacre-ft/yr)

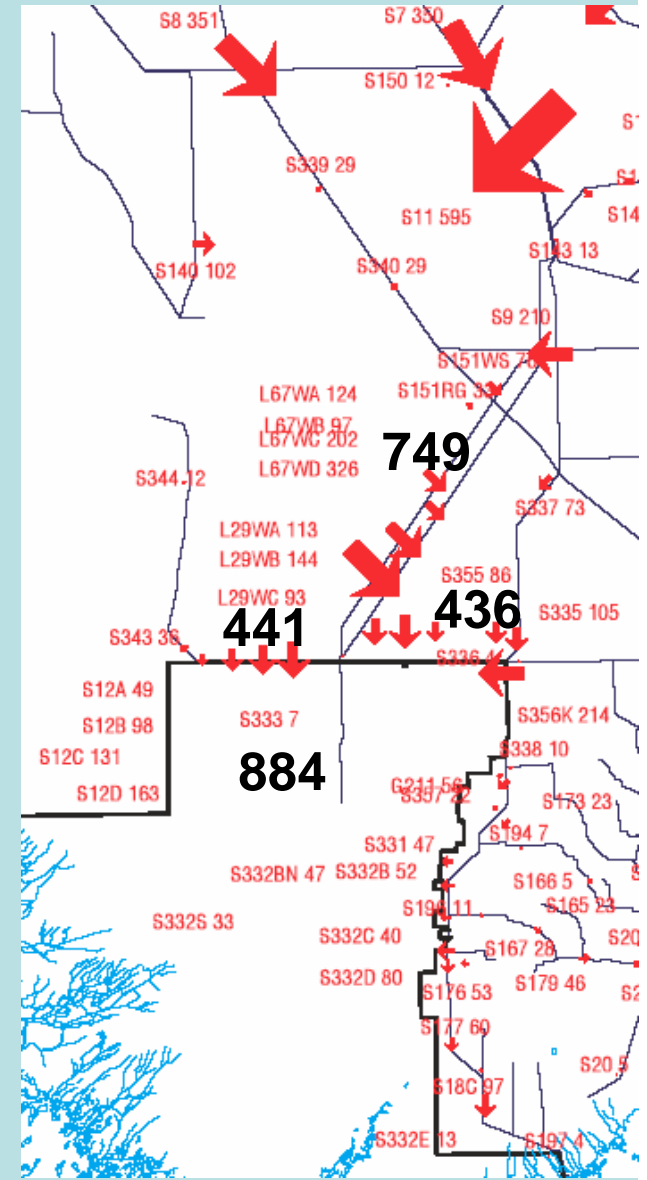
ALT4ENPB



ALT4A4A



ALT4A4B

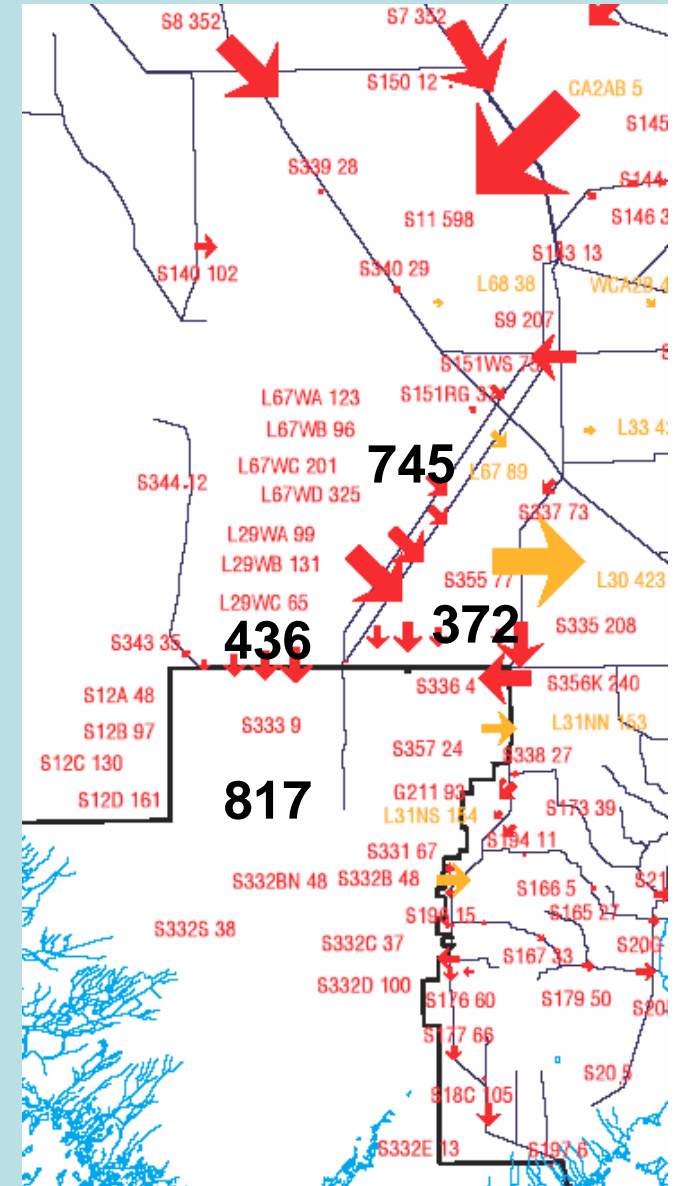
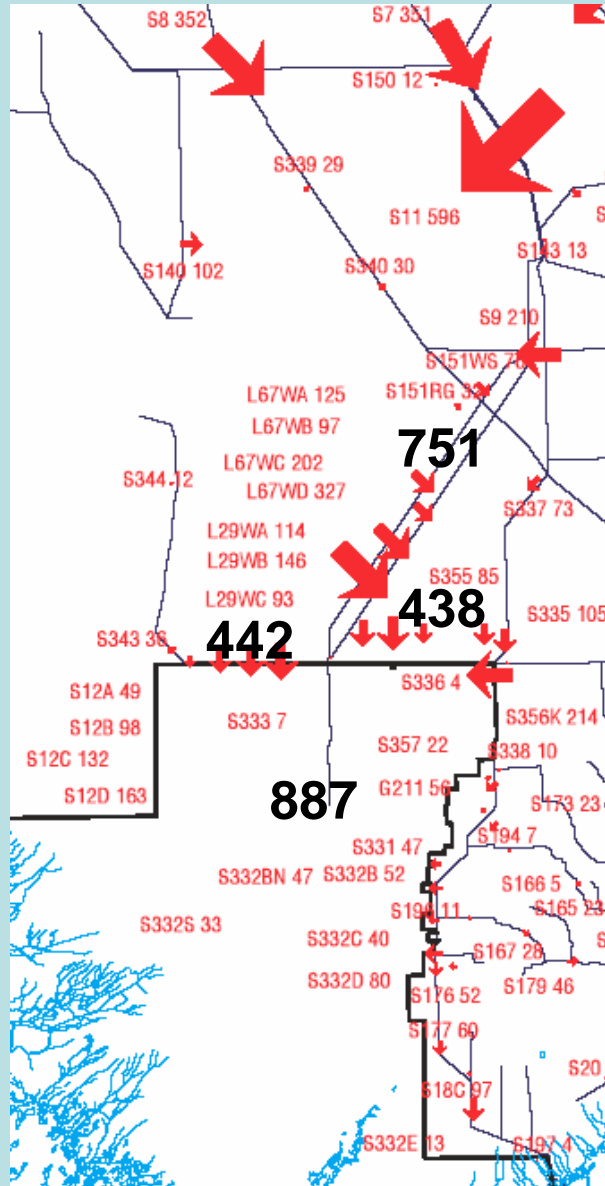
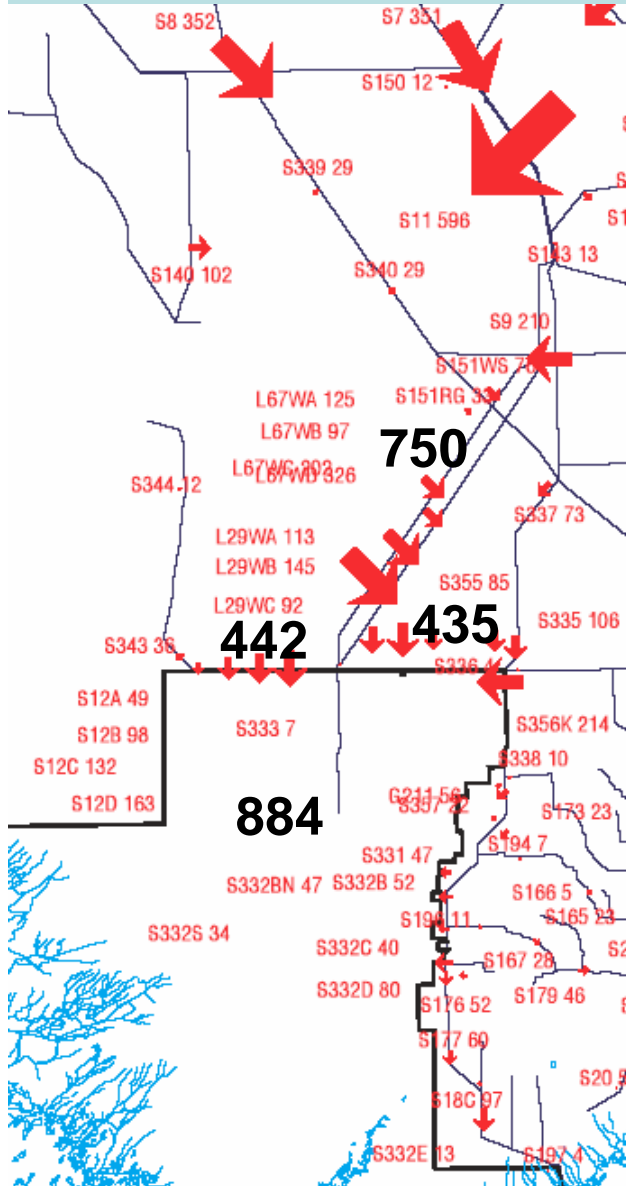


Average Annual Structure Flows (kacre-ft/yr)

ALT4A4C

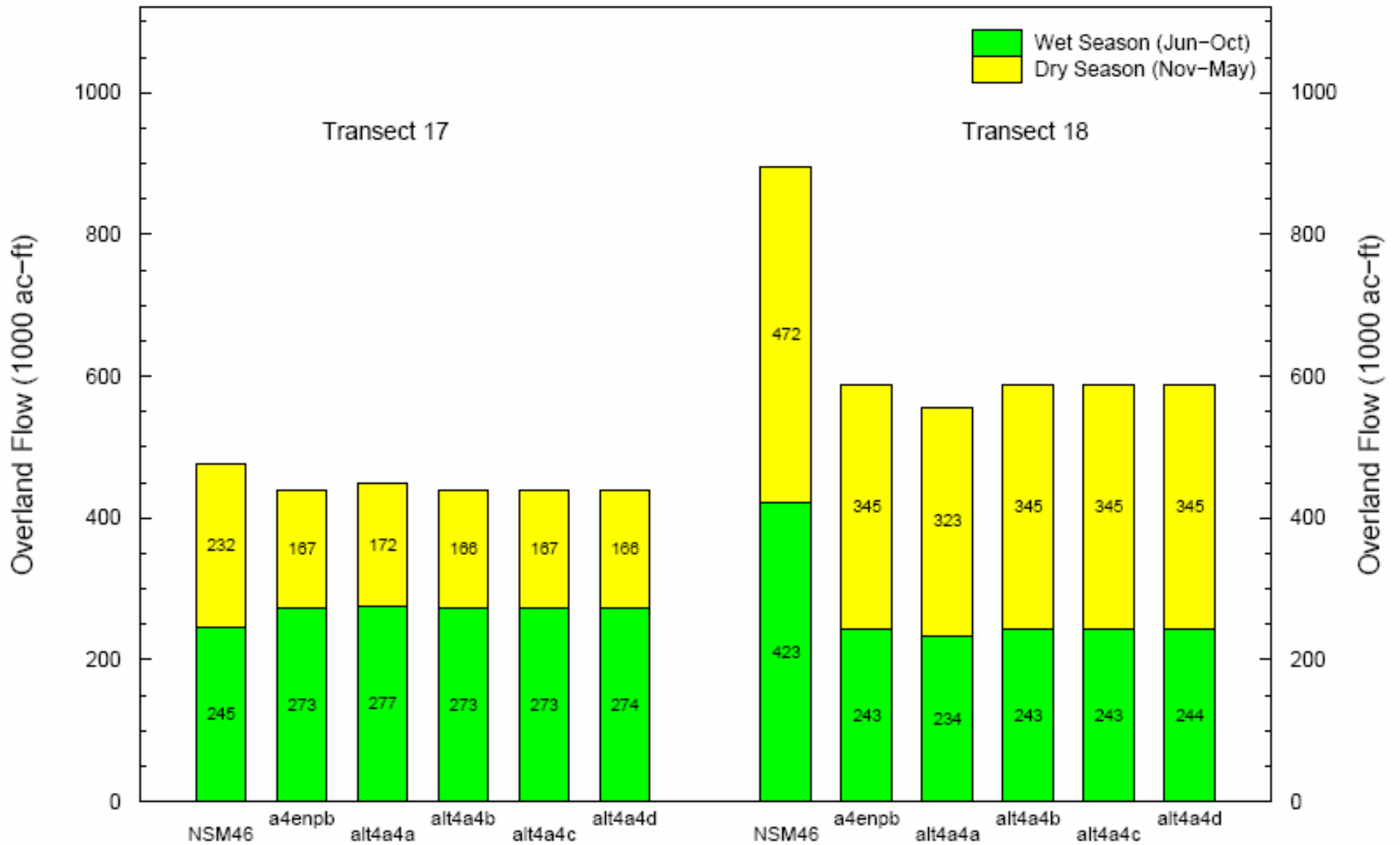
ALT4A4D

ALT4



Average Annual Overland Flow across Transects 17 & 18 (1965–2000)

Southward flows in Northern ENP (south of Tamiami Trail – west & east of L-67 extension)



Minimum Flow Level Violations

Region	Target	A4ENP BASE	A4A4A	A4A4B	A4A4C	A4A4D	ALT7R
S W3A IR124	1 in 4	None	None	None	None	None	1 in 36
SE W3B IR128	1 in 7	1 in 36	1 in 36	1 in 36	1 in 18	1 in 36	1 in 6
NESS IR129	1 in 10	1 in 12	1 in 12	1 in 12	1 in 12	1 in 12	1 in 5.1
Mid SRS IR130	1 in 10	1 in 9	1 in 9	1 in 9	1 in 9	1 in 9	1 in 7.2
SW SRS IR131	1 in 7	1 in 7.2	1 in 9.0	1 in 7.2	1 in 7.2	1 in 7.2	1 in 7.2

Summary

- ALT4A4A (only **one** 200-ft L29 weir) increased the % of POR with high stages (>2.5ft) in WCA-3B by 4 – 7% and reduced flows to NESS by 50 kacre-ft/yr relative to the runs with **three** L29 weirs
- There were no significant differences in WCA-3B stages and flows into NESS among the alternatives with **three** L29 weirs
- Among the runs with **three** L29 weirs, SFWMM simulated flows were insensitive to individual L29 weir widths above 100ft.; however wider weirs are ecologically beneficial to increase marsh connectivity and reduce high velocity zones in the marsh