Tamiami Trail Flow Formula (TTFF) - Target Flow from WCA-3A to ENP

Daily Target Flow for			7/19/2022	to	7/25/2022	MAX	cfs
Observed Stage Data							
Station WCA-3A (Average for Site 63, 64 and 65) NESRS2 Regulatory Stage WCA-3A	<u>Variable</u> Average Daily Stage Average Daily Stage Average Daily Stage			on	7/15/2022	8.03	<u>Unit</u> ft-NGVD29 ft-NGVD29 ft-NGVD29
Observed Flow Data							
Station S-12A S-12B S-12C S-12D S-333 S-333N S-334 S-12s Total S333 + S333N - S334 ¹ Total Flow to ENP Meteorological Data	Variable 7-day Average Daily Flow 7-day Average Daily Flow	From	7/9/2022	to	7/15/2022	Value 0 372 532 620 666 0 905 1286 2191	cfs cfs cfs cfs cfs cfs cfs cfs cfs cfs
Forecasted WCA3 7-day Quantitative Precipitation Foreca 3AS3WX - 7-day Total Forecasted PET	st (QPF)	From	7/16/2022	to	7/22/2022	<u>Value</u> 1.82 1.29	in
Observed WCA-3 7-day Total Observed NEXRAD Rainfall 3AS3WX 7-day Total Observed PET	I	From	7/9/2022	to	7/15/2022	<u>Value</u> 1.69 1.29	in
TTFF Application							
 Previous week target flow (calculated with forecasted 7-day QPF and PET) Previous week target flow (recalculated with observed rainfall and PET) Adjustment for forecast (2-1) This week calculated target flow This week target flow with adjustment (3 + 4) Average Daily Target Flow ²					MAX MAX 0 MAX MAX MAX	cfs cfs cfs cfs	
TTFF formula coefficients							
WCA-3A Average Stage (β1) NESRS2 Stage (β2) 318.42 -44.62	Previous 7-day Average Flow (β3) 0.644	Forecast Precipitation (β4) 24.32		Forecast PET (β5) -96.31		Regulation Schedule Stage (β6) -221.79	

Target flow is distributed from east to west (S-333, S-12D, S-12E, and S-12A) to prioritize water deliveries to NESRS first and WSRS second, subject to downstream constraints.

¹S-333 + S-333N - S-334 becomes zero if the sum of S-333 and S-333N is less than S-334 flow. Calculation is done daily.

²Actual discharges may vary from target discharges because of changing hydrologic conditions.

