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

Daily Target Flow for			7/20/2021	to	7/26/2021	832	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	7/16/2021	7.49	<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 Forecasted	Variable 7-day Average Daily Flow 7-day Average Daily Flow	From	7/10/2021	to	7/16/2021	0 83 0 0 686 0	cfs cfs cfs cfs cfs cfs cfs cfs cfs cfs
WCA3 7-day Quantitative Precipitation Forecast (QPF) 3AS3WX - 7-day Total Forecasted PET						1.31 0.83	in
Observed WCA-3 7-day Total Observed NEXRAD Rainfall 3AS3WX 7-day Total Observed PET	I	From	7/10/2021	to	7/16/2021	<u>Value</u> 1.23 0.83	<u>Unit</u> in
TTFF Application							
1 Previous week target flow (calculated with forecasted 7-day QPF and PET) 2 Previous week target flow (recalculated with observed rainfall and PET) 3 Adjustment for forecast (2-1) 4 This week calculated target flow 5 This week target flow with adjustment (3 + 4)					734 730 -4 837 832 832	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		Fo	recast 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.

