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

Daily Target Flow for				5/24/2022	to	5/30/2022	212	cfs
Observed Stage Data								
<u>Station</u> 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	5/20/2022	<u>Value</u> 8.51 6.80 9.57	
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	5/14/2022	to	5/20/2022	Value 0 9 20 0 0 29 0 29	cfs cfs cfs cfs cfs cfs cfs cfs cfs cfs
<u>Forecasted</u> WCA3 7-day Quantitative Precipitation Forecast (QPF) 3AS3WX - 7-day Total Forecasted PET			From	5/21/2022	to	5/27/2022	<u>Value</u> 0.44 1.37	in
Observed WCA-3 7-day Total Observed NEXRAD Rainfall 3AS3WX 7-day Total Observed PET			From	5/14/2022	to	5/20/2022	<u>Value</u> 2.05 1.37	<u>Unit</u> 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						163 194 31 181 212 212	cfs cfs cfs cfs	
TTFF formula coefficients WCA-3A Average Stage (β1) NESRS2 Stage (β2) Previous 7-day Average Flow (β3) Forecast Precipitation (β4) Forecast PET (β5) Regulation Schedule Stag							Schedule Stage (B6)	
318.42	-44.62	0.644		24.32		-96.31	-	-221.79

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

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.

Flow from WCA-3A to Everglades National Park Using the Tamiami Trail Flow Formula

