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

Daily Target Flow for			10/5/2021	to	10/11/2021	MAX	cfs
Observed Stage Data							
Station	<u>Variable</u>			on	10/1/2021	Value	Unit
WCA-3A (Average for Site 63, 64 and 65)	Average Daily Stage				-, , -		ft-NGVD29
NESRS2	Average Daily Stage					8.07	ft-NGVD29
Regulatory Stage WCA-3A	Average Daily Stage					10.30	ft-NGVD29
Observed Flow Data							
<u>Station</u>	<u>Variable</u>	From	9/25/2021	to	10/1/2021	<u>Value</u>	<u>Unit</u>
S-12A	7-day Average Daily Flow					0	cfs
S-12B	7-day Average Daily Flow					135	cfs
S-12C	7-day Average Daily Flow					658	cfs
S-12D	7-day Average Daily Flow					147	cfs
S-333	7-day Average Daily Flow					610	cfs
S-333N	7-day Average Daily Flow					494	cfs
S-334	7-day Average Daily Flow					0	cfs
S-12s Total	7-day Average Daily Flow					940	cfs
S333 + S333N - S334 ¹	7-day Average Daily Flow					1104	cfs
Total Flow to ENP	7-day Average Daily Flow					2044	cfs
Meteorological Data							
<u>Forecasted</u>		From	10/2/2021	to	10/8/2021	<u>Value</u>	<u>Unit</u>
WCA3 7-day Quantitative Precipitation Forecast (QPF)						0.50	in
3AS3WX - 7-day Total Forecasted PET						1.20	in
Observed		From	9/25/2021	to	10/1/2021	<u>Value</u>	Unit
WCA-3 7-day Total Observed NEXRAD Rainfall						0.47	
3AS3WX 7-day Total Observed PET						1.20	
TTFF Application							
Previous week target flow (calculated with forecasted 7-day QPF and PET)						MAX	
2 Previous week target flow (recalculated with observed rainfall and PET)						MAX	cfs
3 Adjustment for forecast (2-1)							cfs
4 This week calculated target flow						MAX	
5 This week target flow with adjustment (3 + 4)						MAX	cfs
Average Daily Target Flow ²						MAX	cfs

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 constraints.

TTFF formula coefficients

Forecast Precipitation (β4)

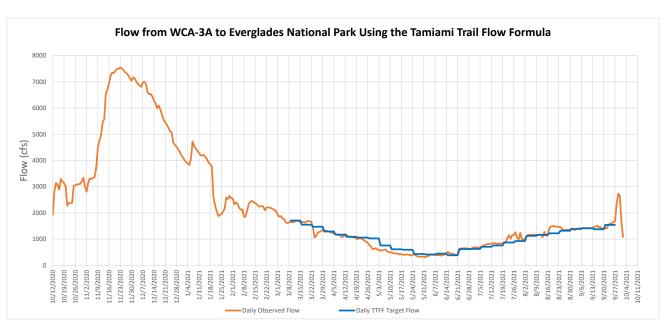
Forecast PET (β5)

-221.79

Previous 7-day Average Flow (β3)

NESRS2 Stage (β2)

WCA-3A Average Stage (β1)



 $^{^{1}}$ S-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.

 $^{^2}$ Actual discharges may vary from target discharges because of changing hydrologic conditions.