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

Daily Target Flow for	9/10/2024	**to**	9/16/2024	**MAX**	**cfs**

Observed Stage Data

Station	Variable				Value	Unit
		on	9/6/2024			
WCA-3A (Average for Site 63, 64 and 65)	Average Daily Stage				10.79	ft-NGVD29
NESRS2	Average Daily Stage				8.38	ft-NGVD29
Regulatory Stage WCA-3A	Average Daily Stage				10.14	ft-NGVD29

Observed Flow Data

Station	Variable					Value	Unit
		From	8/31/2024	**to**	9/6/2024		
S-12A	7-day Average Daily Flow					402	cfs
S-12B	7-day Average Daily Flow					280	cfs
S-12C	7-day Average Daily Flow					616	cfs
S-12D	7-day Average Daily Flow					893	cfs
S-333	7-day Average Daily Flow					7	cfs
S-333N	7-day Average Daily Flow					5	cfs
S-334	7-day Average Daily Flow					0	cfs
S-12s Total	7-day Average Daily Flow					2191	cfs
S333 + S333N - S334[1]	7-day Average Daily Flow					12	cfs
Total Flow to ENP	7-day Average Daily Flow					2203	cfs

Meteorological Data

Forecasted						Value	Unit
	From	9/7/2024	**to**	9/13/2024			
WCA3 7-day Quantitative Precipitation Forecast (QPF)						2.47	in
3AS3WX - 7-day Total Forecasted PET						0.96	in

Observed						Value	Unit
	From	8/31/2024	**to**	9/6/2024			
WCA-3 7-day Total Observed NEXRAD Rainfall						1.87	in
3AS3WX 7-day Total Observed PET						0.96	in

TTFF Application

1	Previous week target flow (calculated with forecasted 7-day QPF and PET)	MAX	cfs
2	Previous week target flow (recalculated with observed rainfall and PET)	MAX	cfs
3	Adjustment for forecast (2-1)	0	cfs
4	This week calculated target flow	MAX	cfs
5	This week target flow with adjustment (3 + 4)	MAX	cfs
Average Daily Target Flow[2]		**MAX**	**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 Stage (β6)**
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 constraints.

[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.