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

Daily Target Flow for	4/4/2023	**to**	4/10/2023	**685**	**cfs**

Observed Stage Data

Station	Variable			**on**	3/31/2023	Value	Unit
WCA-3A (Average for Site 63, 64 and 65)	Average Daily Stage					8.96	ft-NGVD29
NESRS2	Average Daily Stage					7.42	ft-NGVD29
Regulatory Stage WCA-3A	Average Daily Stage					9.90	ft-NGVD29

Observed Flow Data

Station	Variable	**From**	3/25/2023	**to**	3/31/2023	Value	Unit
S-12A	7-day Average Daily Flow					0	cfs
S-12B	7-day Average Daily Flow					0	cfs
S-12C	7-day Average Daily Flow					3	cfs
S-12D	7-day Average Daily Flow					54	cfs
S-333	7-day Average Daily Flow					97	cfs
S-333N	7-day Average Daily Flow					559	cfs
S-334	7-day Average Daily Flow					0	cfs
S-12s Total	7-day Average Daily Flow					56	cfs
S333 + S333N - S334[1]	7-day Average Daily Flow					656	cfs
Total Flow to ENP	7-day Average Daily Flow					713	cfs

Meteorological Data

Forecasted	**From**	4/1/2023	**to**	4/7/2023	Value	Unit
WCA3 7-day Quantitative Precipitation Forecast (QPF)					0.24	in
3AS3WX - 7-day Total Forecasted PET					1.25	in

Observed	**From**	3/25/2023	**to**	3/31/2023	Value	Unit
WCA-3 7-day Total Observed NEXRAD Rainfall					0.96	in
3AS3WX 7-day Total Observed PET					1.25	in

TTFF Application

1	Previous week target flow (calculated with forecasted 7-day QPF and PET)	705	cfs
2	Previous week target flow (recalculated with observed rainfall and PET)	720	cfs
3	Adjustment for forecast (2-1)	14	cfs
4	This week calculated target flow	671	cfs
5	This week target flow with adjustment (3 + 4)	685	cfs
Average Daily Target Flow[2]		**685**	**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.