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

Daily Target Flow for		12/22/2020	to	12/28/2020	MAX	cfs

Observed Stage Data

Station	Variable		on	12/18/2020		Unit
WCA-3A (Average for Site 63, 64 and 65)	Average Daily Stage				12.09	ft-NGVD29
NESRS2	Average Daily Stage				8.09[3]	ft-NGVD29
Regulatory Stage WCA-3A	Stage				10.50	ft-NGVD29

Observed Flow Data

Station	Variable	From	12/12/2020	to	12/18/2020	Value	Unit
S-12A	7-day Average Daily Flow					1171	cfs
S-12B	7-day Average Daily Flow					1100	cfs
S-12C	7-day Average Daily Flow					1639	cfs
S-12D	7-day Average Daily Flow					2238	cfs
S-333	7-day Average Daily Flow					116	cfs
S-333N	7-day Average Daily Flow					N/A	cfs
S-334	7-day Average Daily Flow					59	cfs
S-12s Total	7-day Average Daily Flow					6149	cfs
S333 + S333N - S334[1]	7-day Average Daily Flow					57	cfs
Total Flow to ENP	7-day Average Daily Flow					6206	cfs

Meteorological Data

Forecasted						Value	Unit
WCA3 7-day Quantitative Precipitation Forecast (QPF)		From	12/19/2020	to	12/25/2020	0.27	in
3AS3WX - 7-day Total Forecasted PET		From	12/19/2020	to	12/25/2020	0.73	in

Observed		From	12/12/2020	to	12/18/2020	Value	Unit
WCA-3 7-day Total Observed NEXRAD Rainfall						0.08	in
3AS3WX 7-day Total Observed PET						0.73	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**

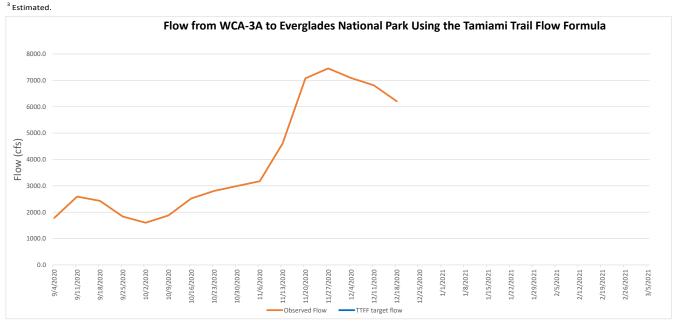| TTFF formula coefficients					
WCA-3A Average Stage (β1)	NESRS2 Stage (β2)	Previous 7-day Average Flow (β3)	Forecast Precipitation (β4)	Forecast PET (β5)	Regulation Schedule Stage (β6)
318.42	-44.62	0.644	24.32	-96.31	-221.79

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.

[3] Estimated.

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