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

	. =							
Daily Targ	et Flow for			10/27/2020	to	11/2/2020	MAX	cfs
Observed Stage Data								
Station		<u>Variable</u>			on	10/23/2020		<u>Unit</u>
WCA-3A (Average for Site 63, 64 and 65)		Average Daily Stage						ft-NGVD29
NESRS2 Regulatory Stage WCA-3A		Average Daily Stage Stage						ft-NGVD29 ft-NGVD29
Reputery stage wer sh		Stuge					10.45	it NGVD25
Observed Flow Data								
<u>Station</u>		<u>Variable</u>	From	10/17/2020	to	10/23/2020	Value	
S-12A		7-day Average Daily Flow						cfs
S-12B		7-day Average Daily Flow						cfs
S-12C		7-day Average Daily Flow					399	
S-12D		7-day Average Daily Flow						cfs
S-333		7-day Average Daily Flow					733	
S-333N S-334		7-day Average Daily Flow					N/A 0	
S-554 S-12s Total		7-day Average Daily Flow 7-day Average Daily Flow					2072	
S333 + S333N - S334 ¹								
		7-day Average Daily Flow					733	
Total Flow to ENP 7-day Average Daily Flow							2805	CIS
Meteorological Data								
Forecasted							Value	<u>Unit</u>
WCA3 7-day Quantitative Precipitation Forecast (QPF)			From	10/24/2020	to	10/30/2020	2.39	in
3AS3WX - 7-day Total		From	10/24/2020	to	10/30/2020	0.67	in	
<u>Observed</u>			From	10/17/2020	to	10/23/2020	<u>Value</u>	<u>Unit</u>
WCA-3 7-day Total Observed NEXRAD Rainfall							2.36	in
3AS3WX 7-day Total C						0.67	in	
TTFF Application								
1 Previous week target flow (calculated with forecasted 7-day QPF and PET)							MAX	
2 Previous week target flow (recalculated with observed rainfall and PET) 1 A line is a factor of the second se						MAX		
-								cfs
4 This week calculated target flow This week target flow with adjustment (2 + 4)							MAX	
5 This week target flow with adjustment (3 + 4)							MAX	
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. 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.

