

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

Daily Target Flow for 11/1/2022 to 11/7/2022 MAX cfs

Observed Stage Data

Station	Variable	on	10/28/2022	Value	Unit
WCA-3A (Average for Site 63, 64 and 65)	Average Daily Stage			10.72	ft-NGVD29
NESRS2	Average Daily Stage			8.19	ft-NGVD29
Regulatory Stage WCA-3A	Average Daily Stage			10.48	ft-NGVD29

Observed Flow Data

Station	Variable	From	10/22/2022	to	10/28/2022	Value	Unit
S-12A	7-day Average Daily Flow					425	cfs
S-12B	7-day Average Daily Flow					215	cfs
S-12C	7-day Average Daily Flow					783	cfs
S-12D	7-day Average Daily Flow					985	cfs
S-333	7-day Average Daily Flow					391	cfs
S-333N	7-day Average Daily Flow					386	cfs
S-334	7-day Average Daily Flow					0	cfs
S-12s Total	7-day Average Daily Flow					2407	cfs
S333 + S333N - S334 ¹	7-day Average Daily Flow					778	cfs
Total Flow to ENP	7-day Average Daily Flow					3185	cfs

Meteorological Data

Forecasted	From	10/29/2022	to	11/4/2022	Value	Unit
WCA3 7-day Quantitative Precipitation Forecast (QPF)					0.04	in
3AS3WX - 7-day Total Forecasted PET					1.17	in

Observed	From	10/22/2022	to	10/28/2022	Value	Unit
WCA-3 7-day Total Observed NEXRAD Rainfall					0.00	in
3AS3WX 7-day Total Observed PET					1.17	in

TTFF Application

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|---|--|-----|-----|
| 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 Flow² 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

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.

