

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

Daily Target Flow for	5/3/2022	to	5/9/2022	340 cfs
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Observed Stage Data

Station	Variable	on	4/29/2022	Value	Unit
WCA-3A (Average for Site 63, 64 and 65)	Average Daily Stage			8.57	ft-NGVD29
NESRS2	Average Daily Stage			7.04	ft-NGVD29
Regulatory Stage WCA-3A	Average Daily Stage			9.71	ft-NGVD29

Observed Flow Data

Station	Variable	From	4/23/2022	to	4/29/2022	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					0	cfs
S-12D	7-day Average Daily Flow					11	cfs
S-333	7-day Average Daily Flow					225	cfs
S-333N	7-day Average Daily Flow					0	cfs
S-334	7-day Average Daily Flow					0	cfs
S-12s Total	7-day Average Daily Flow					11	cfs
S333 + S333N - S334 ¹	7-day Average Daily Flow					225	cfs
Total Flow to ENP	7-day Average Daily Flow					236	cfs

Meteorological Data

Forecasted	From	4/30/2022	to	5/6/2022	Value	Unit
WCA3 7-day Quantitative Precipitation Forecast (QPF)					1.06	in
3AS3WX - 7-day Total Forecasted PET					1.25	in
Observed	From	4/23/2022	to	4/29/2022	Value	Unit
WCA-3 7-day Total Observed NEXRAD Rainfall					0.76	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)	328	cfs
2	Previous week target flow (recalculated with observed rainfall and PET)	349	cfs
3	Adjustment for forecast (2-1)	21	cfs
4	This week calculated target flow	319	cfs
5	This week target flow with adjustment (3 + 4)	340	cfs

Average Daily Target Flow ²	340 cfs
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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.

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

