

Effluent Flow & Rainfall Insights

Analysis period: 2025-06-01 to 2026-05-31 (365 daily records across 12 months)

Metric	Value	Context	Why it matters
Highest-flow month	May 2026: 2.78 MGD avg / 86.1 MG total	Daily peak: 2025-06-13 at 10.16 MGD with 2.05 in. rain	May 2026 now carries the strongest sustained wet-weather flow signal.
Rain-driven flow lift	67% higher flow on wet days	Wet-day avg 2.44 MGD vs dry-day avg 1.46 MGD; same-day rain/flow $r=0.48$	Rain remains materially associated with higher effluent flow. Correcting these
Data quality checks	13 flags found	13 summary mismatches; 0 duplicate date(s)	will improve confidence in monthly statistics.

Top 3 takeaways

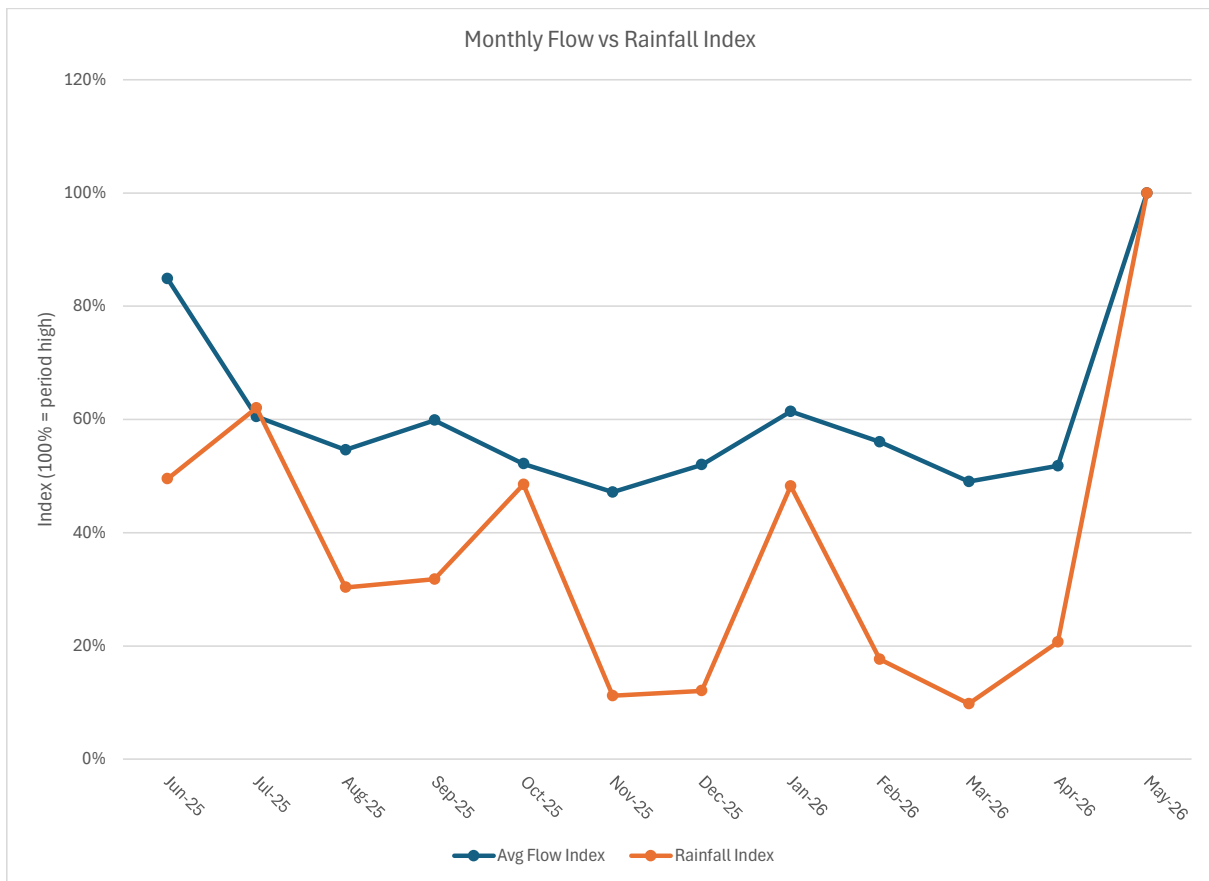
1) May 2026 is the clear high-flow month. It averaged 2.78 MGD, 112% above the lowest month (Nov 2025, 1.31 MGD).

2) The largest daily event remains 2025-06-13: 10.16 MGD with 2.05 inches of rain. Wet days averaged 2.44 MGD vs 1.46 MGD on dry days.

Monthly summary

Month	Days	Avg Flow (MGD)	Total Flow (MG)
Jun-25	30	2.36	70.68
Jul-25	31	1.68	52.06
Aug-25	31	1.52	47.00
Sep-25	30	1.66	49.84
Oct-25	31	1.45	44.89
Nov-25	30	1.31	39.27
Dec-25	31	1.44	44.74
Jan-26	31	1.71	52.86
Feb-26	28	1.56	43.57
Mar-26	31	1.36	42.19
Apr-26	30	1.44	43.13
May-26	31	2.78	86.06

Total Rain (in)	Rain Days	Max Flow (MGD)	Max Flow Date
5.53	13	10.16	2025-06-13
6.93	9	4.13	2025-07-27
3.39	11	3.20	2025-08-23
3.55	11	4.27	2025-09-12
5.42	7	3.58	2025-10-24
1.25	3	1.58	2025-11-25
1.35	7	2.08	2025-12-18
5.39	6	5.71	2026-01-25
1.97	4	3.73	2026-02-15
1.09	3	2.10	2026-03-09
2.31	5	2.95	2026-04-22
11.17	6	9.72	2026-05-28



Top daily flow events

Rank	Date	Month	Flow (MGD)	Rain (in)	Source
1	2025-06-13	Jun-25	10.16	2.05	June 2025!A14:C14
2	2026-05-28	May-26	9.72	0.60	May 2026!A29:C29
3	2026-05-21	May-26	9.17	0.17	May 2026!A22:C22
4	2025-06-15	Jun-25	7.53	0.33	June 2025!A16:C16
5	2026-05-24	May-26	7.30	1.90	May 2026!A25:C25
6	2026-01-25	Jan-26	5.71	2.12	Jan 2026!A26:C26
7	2026-05-08	May-26	4.48	0.00	May 2026!A9:C9
8	2025-09-12	Sep-25	4.27	0.09	Sept 2025!A13:C13

Month	Avg Flow Index	Rainfall Index
Jun-25	85%	50%
Jul-25	60%	62%
Aug-25	55%	30%
Sep-25	60%	32%
Oct-25	52%	49%
Nov-25	47%	11%
Dec-25	52%	12%
Jan-26	61%	48%
Feb-26	56%	18%
Mar-26	49%	10%
Apr-26	52%	21%
May-26	100%	100%