Overview for 2014

Consent Agreement Item	Actual Value for 2014	Limit
Annual Net Loading (Lbs P)	68.6	175
Max 3 Month Loading (Lbs P)	45.8 (March)	55
Hatchery Flow (mgd)	6.0	20
Adult Coho Passed (Individuals)	9,757	20,000
Adult Chinook Passed (Individuals)	175	1,000
Lake Median TP (mg/m^3)	7.18	8.0
% Compliance with 8 mg/m^3	75	95

Figure 1. 2014 Hatchery and watershed compliance data summary.

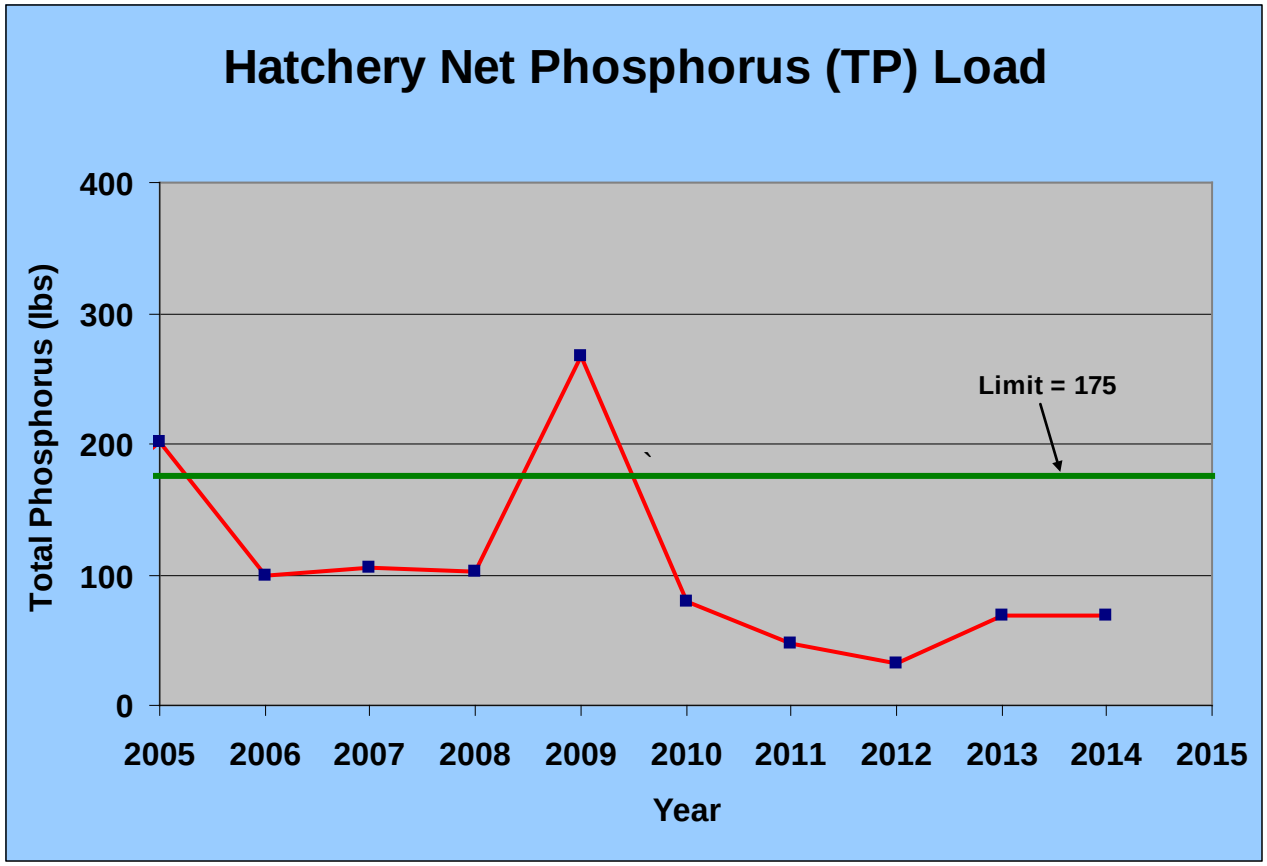

Figure 2. Annual Hatchery phosphorus loadings to the Platte River from 2005 to 2014.

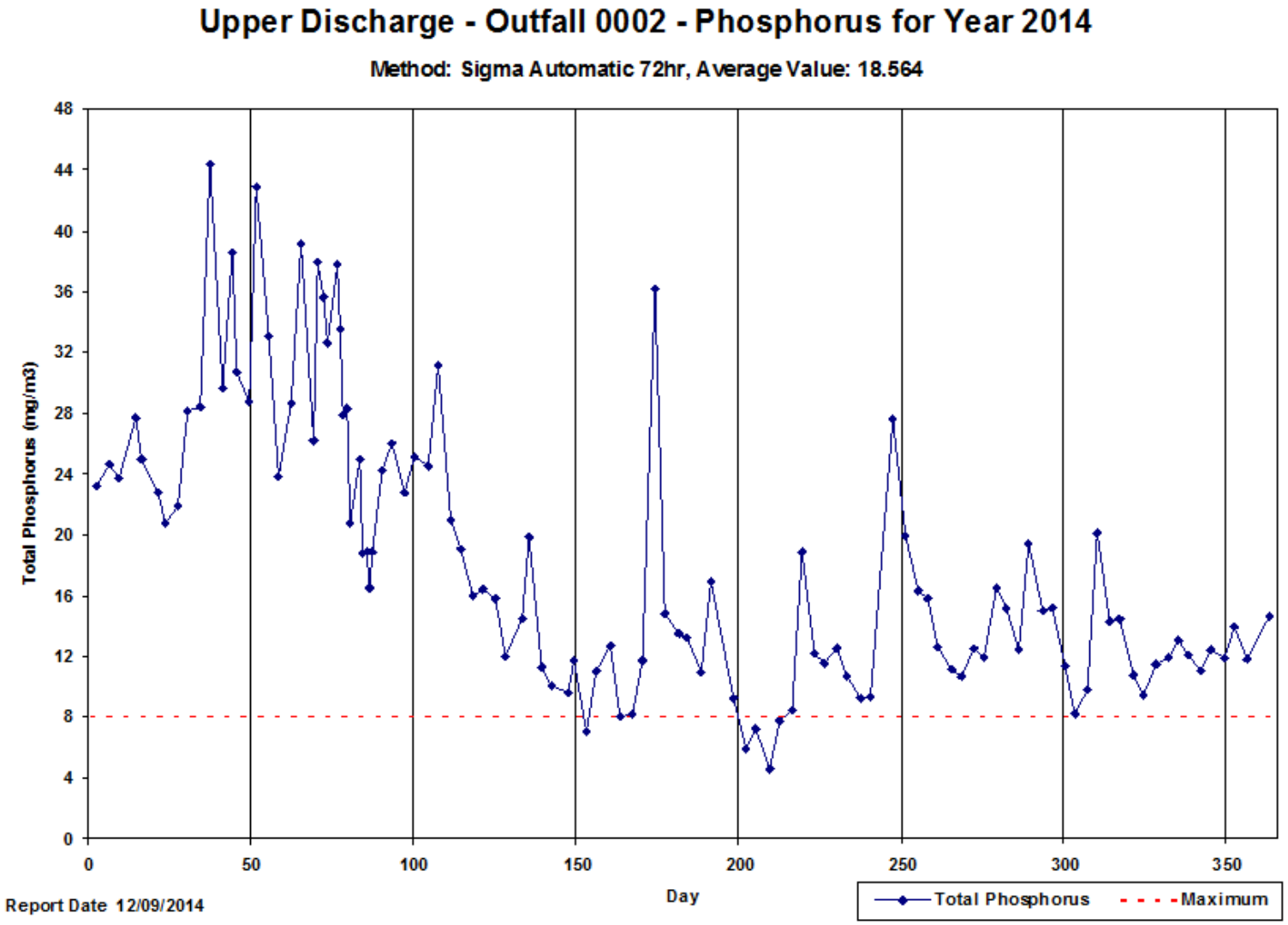

Figure 3. Measured phosphorus concentrations at the Upper Hatchery Discharge in 2014.

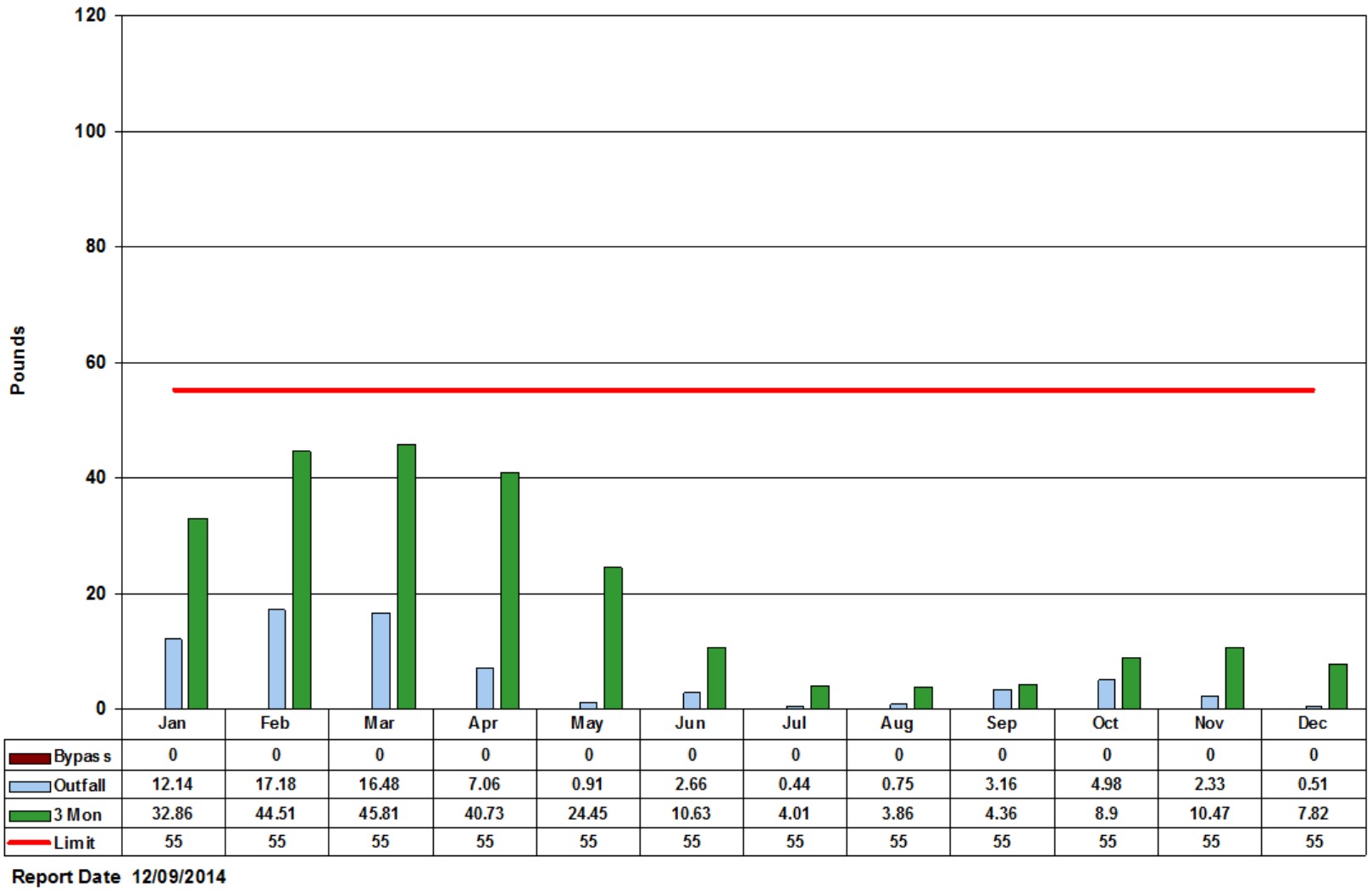

Figure 4. Hatchery monthly (blue bars) and 3-month cumulative (green bars) phosphorus loadings to the Platte River. The 3-month cumulative phosphorus discharge limit is displayed on the red line.

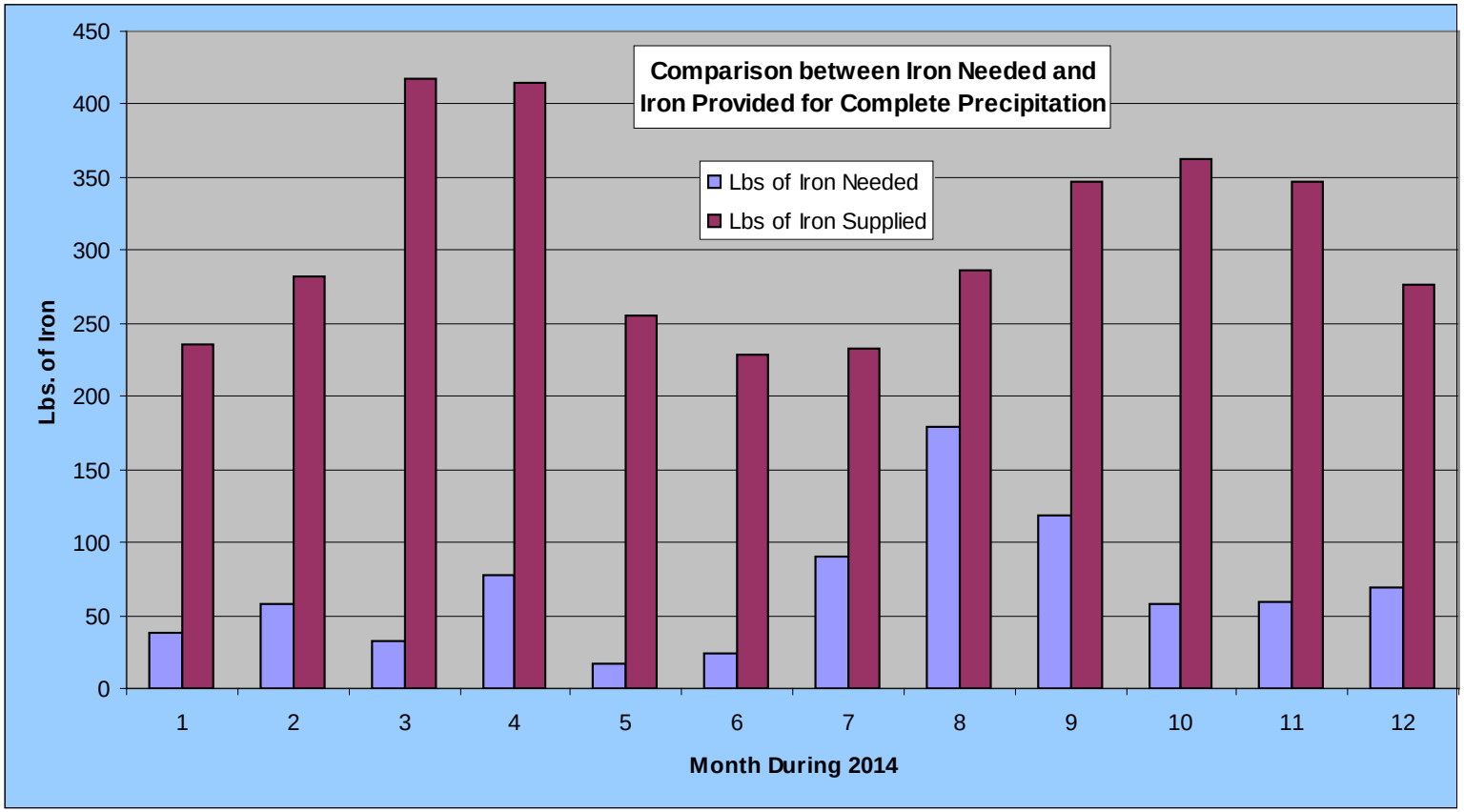

Figure 5 . Comparison between iron needed and provided in 2014 for complete phosphorus precipitation in the Hatchery treatment system.

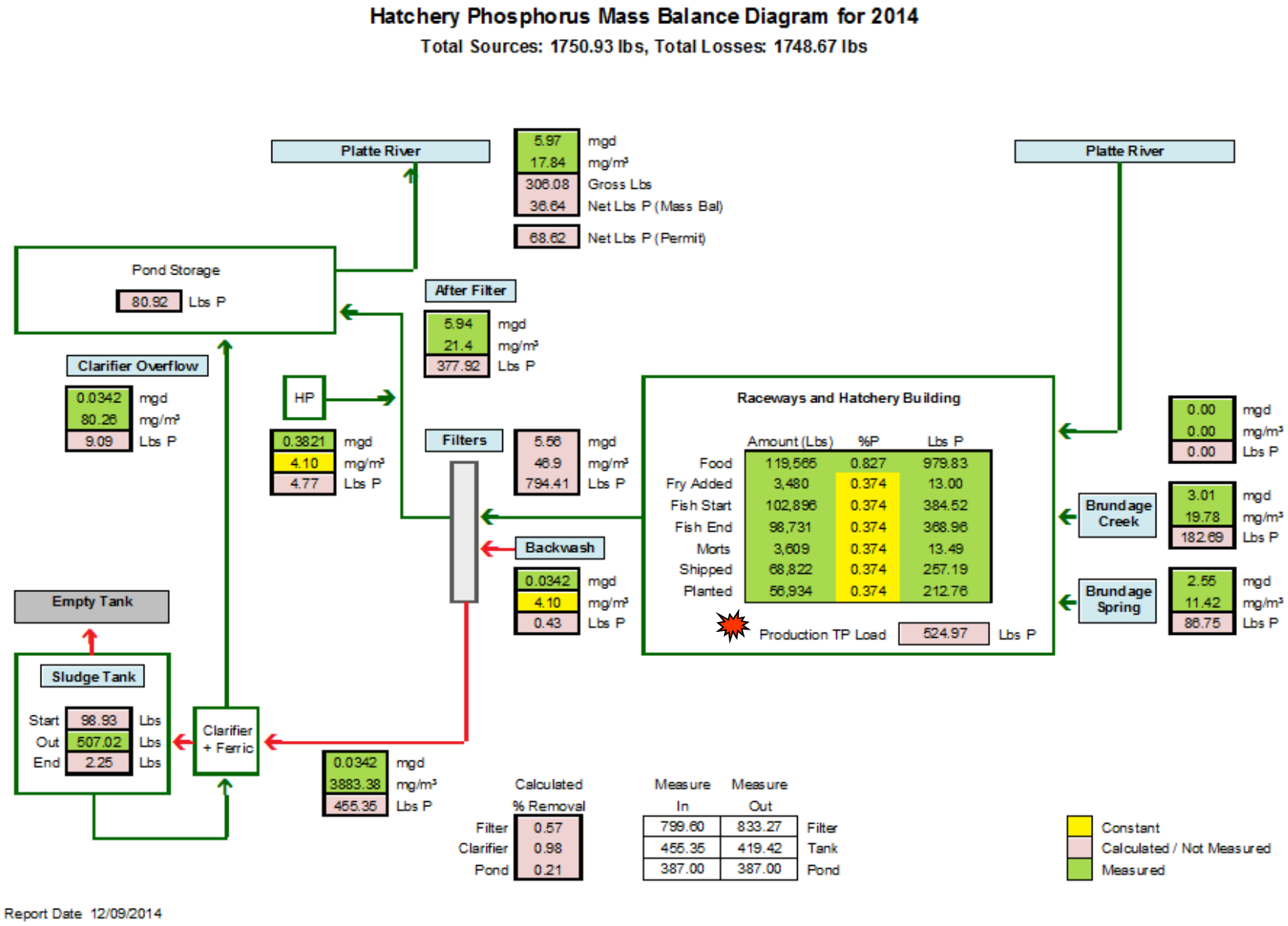

Figure 6. Annual summary of the 2014 Hatchery phosphorus mass balance model.

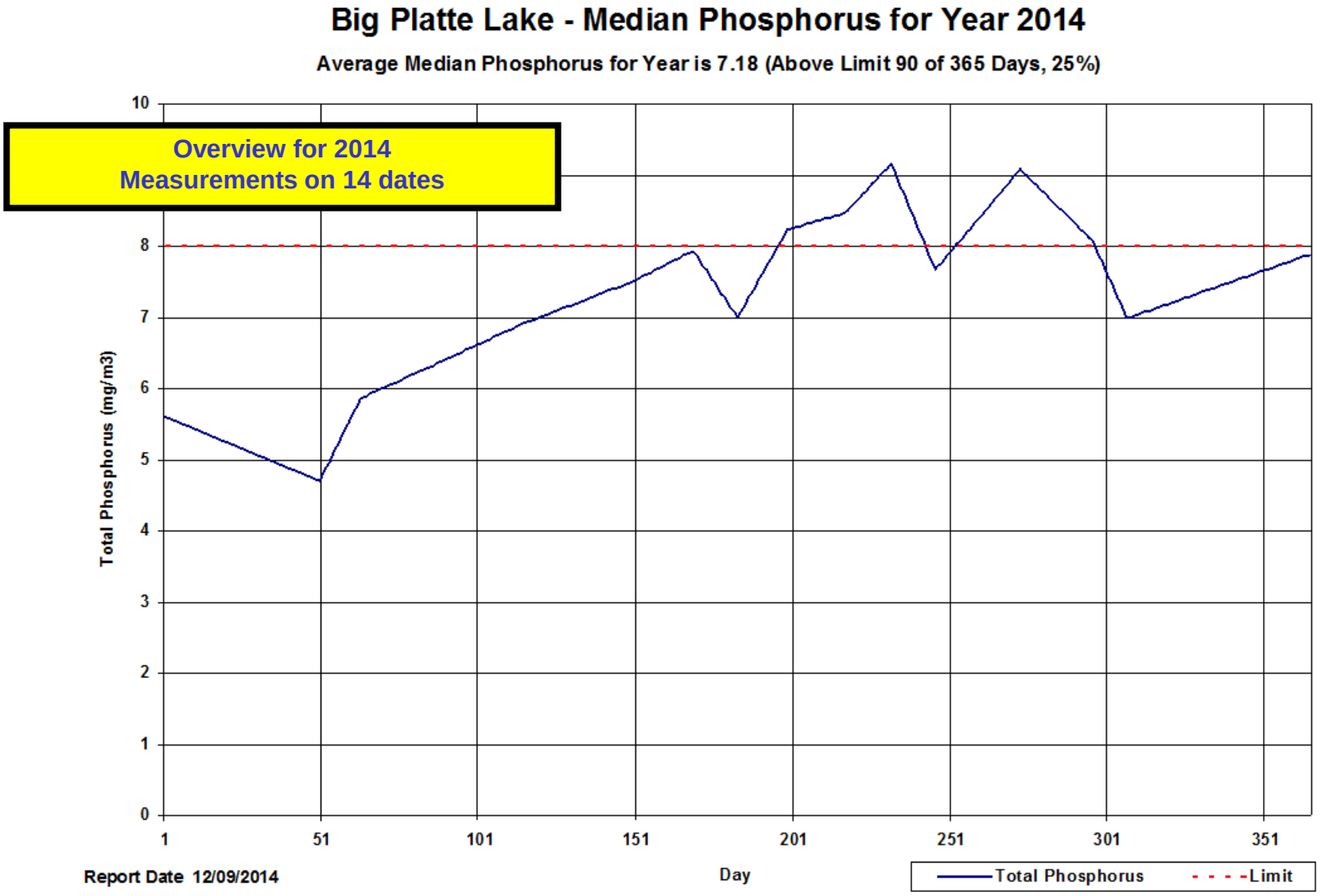

Figure 7. Volume-weighted total phosphorus concentrations in Big Platte Lake during 2014.

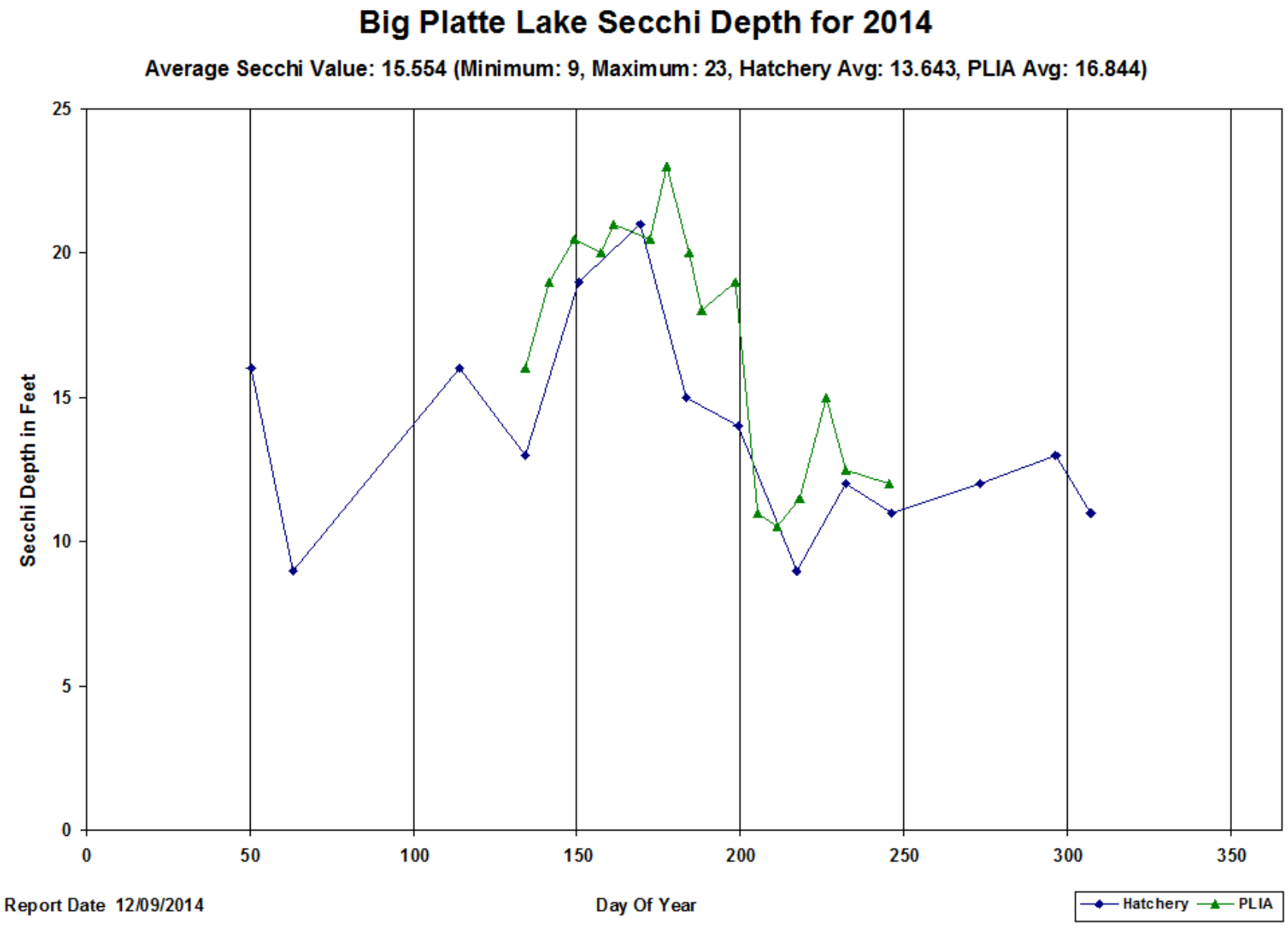

Figure 8. 2014 Big Platte Lake Secchi depth measurements.

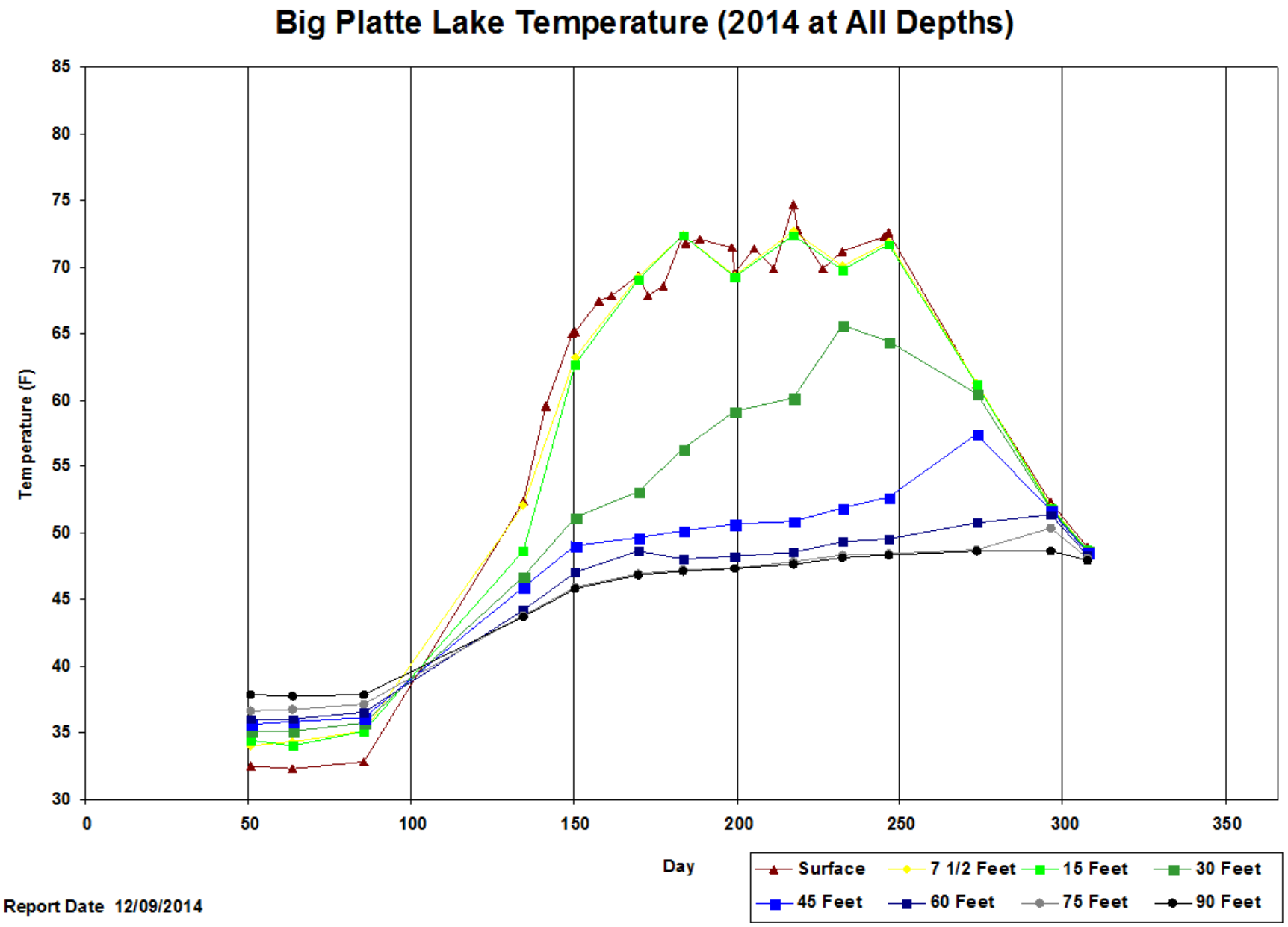

Figure 9. Temperature measurements by depth in Big Platte Lake during 2014.

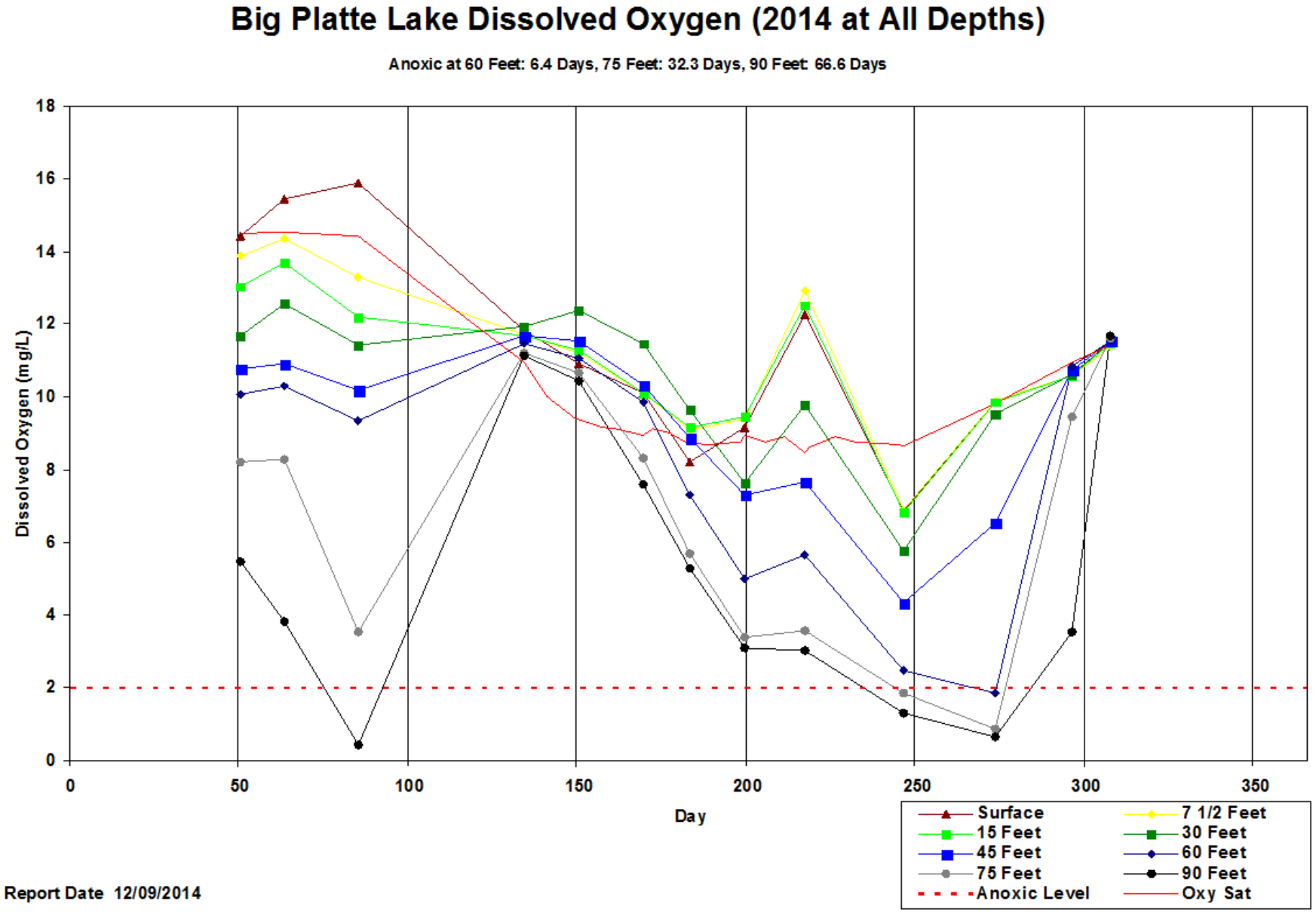

Figure 10. Dissolved oxygen measurements by depth in Big Platte Lake during 2014.

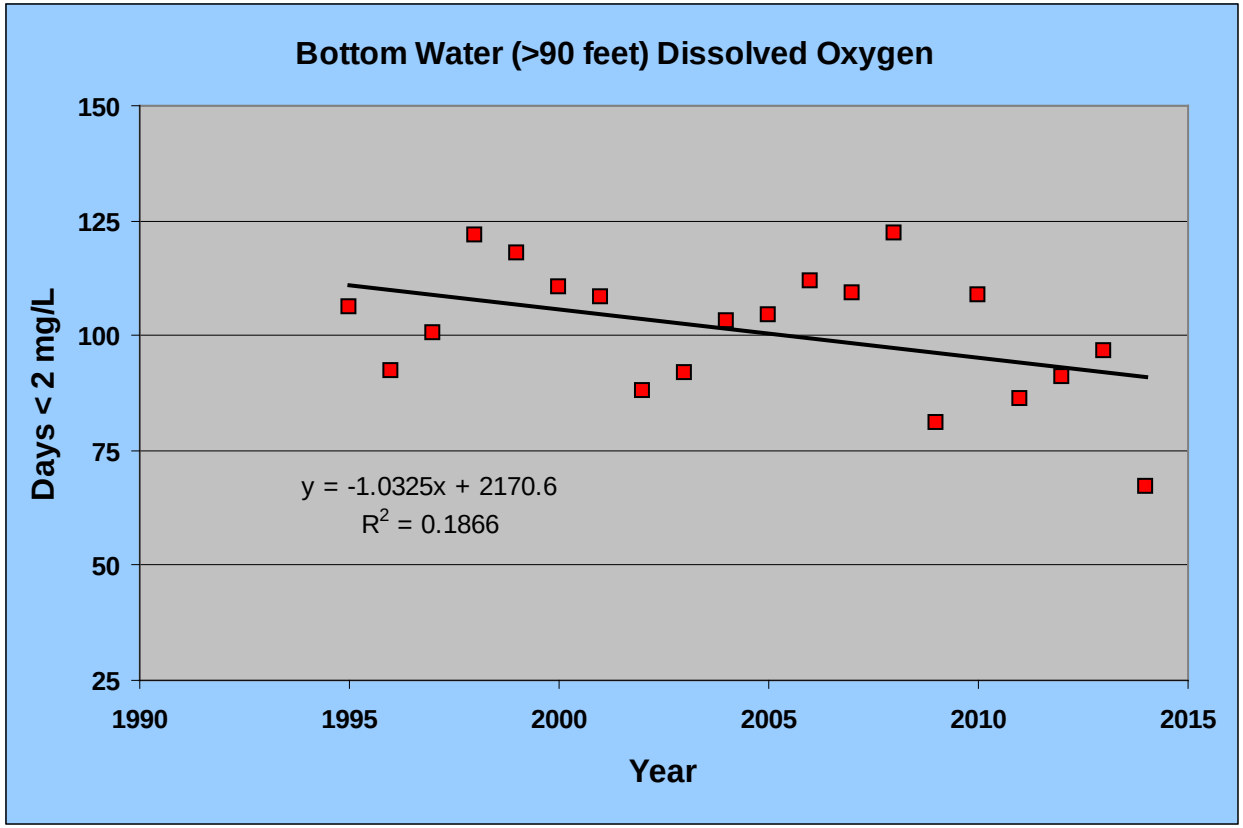

Figure 11. Number of days where dissolved oxygen concentrations were less than 2 mg/L in the bottom waters of Big Platte Lake.

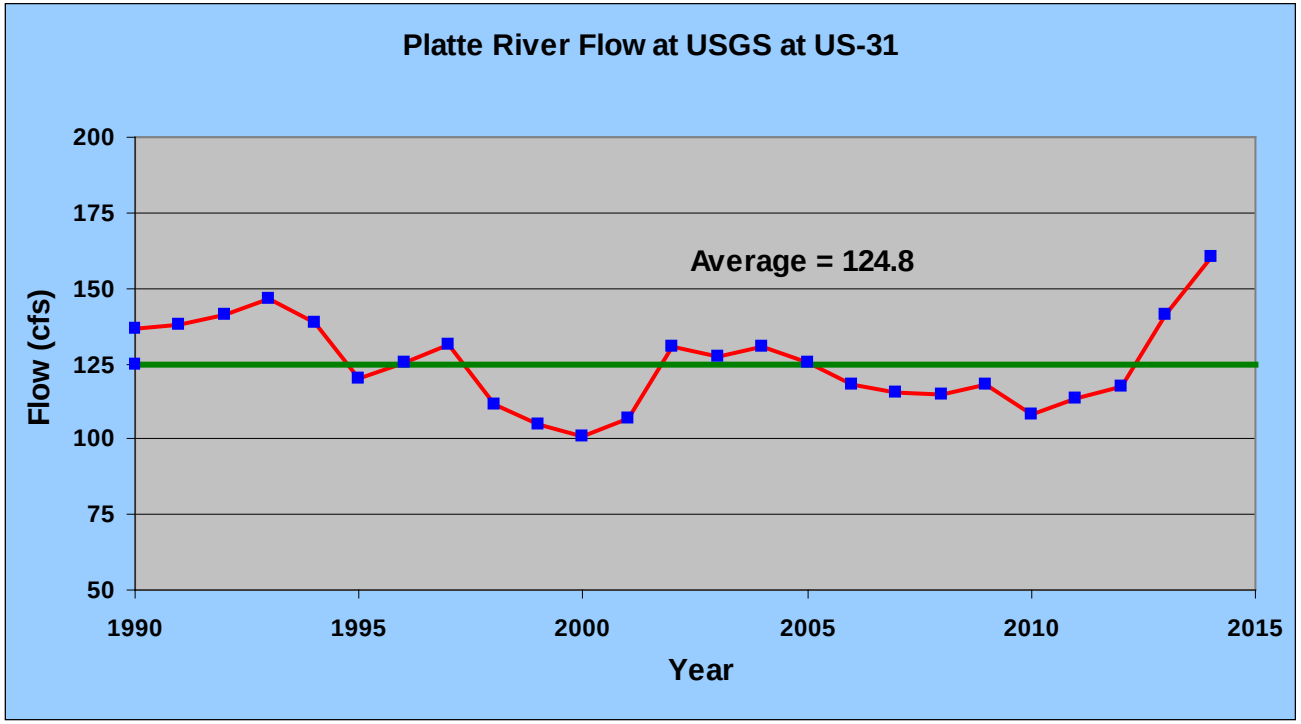

Figure 12. Average annual discharge of the Platte River at the USGS Gaging Station 04126740 at Honor, MI.

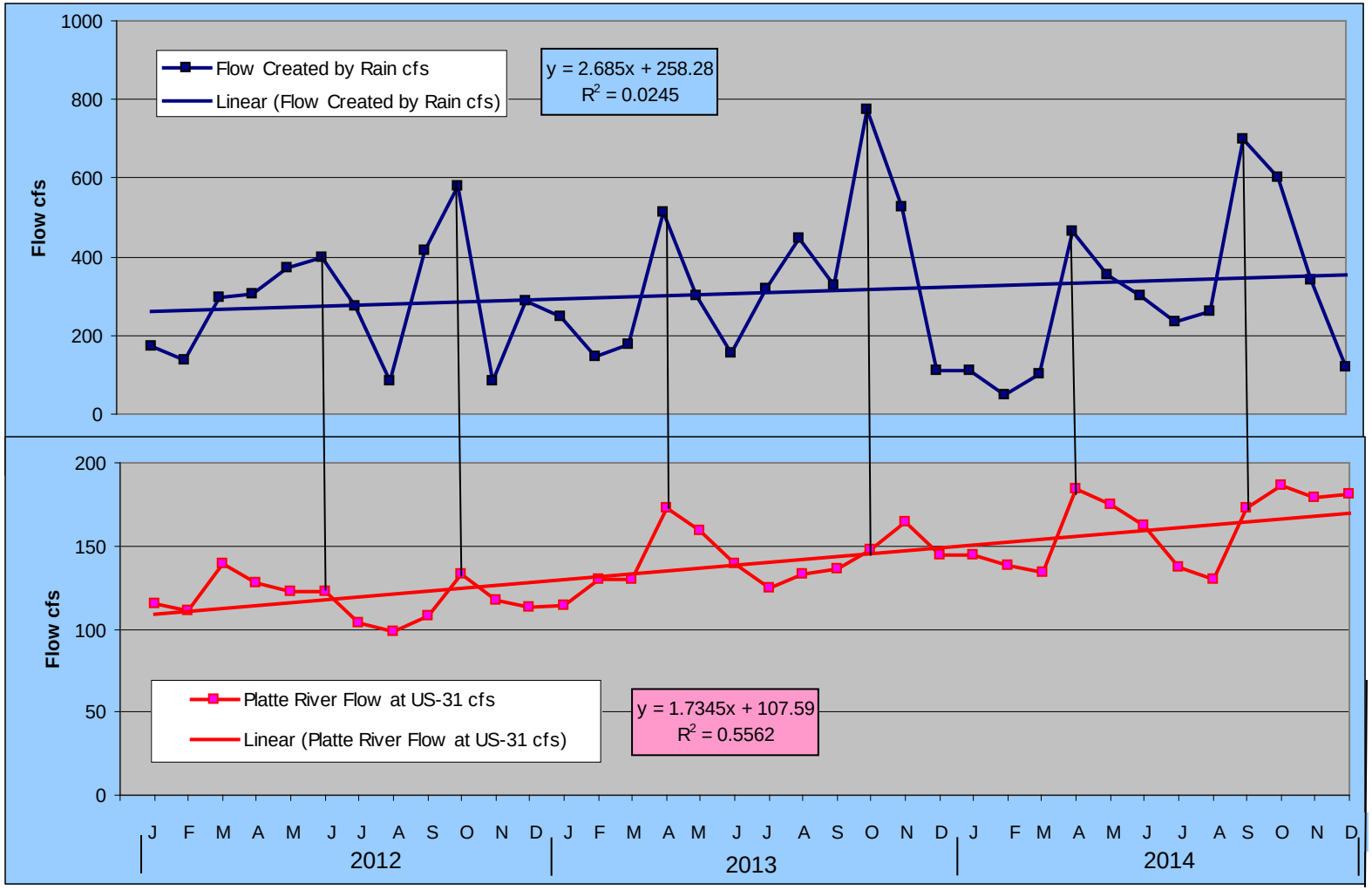

Figure 13. Comparison of potential flow created by watershed rainfall and measured flow at USGS site for 2012, 2013, and 2014.

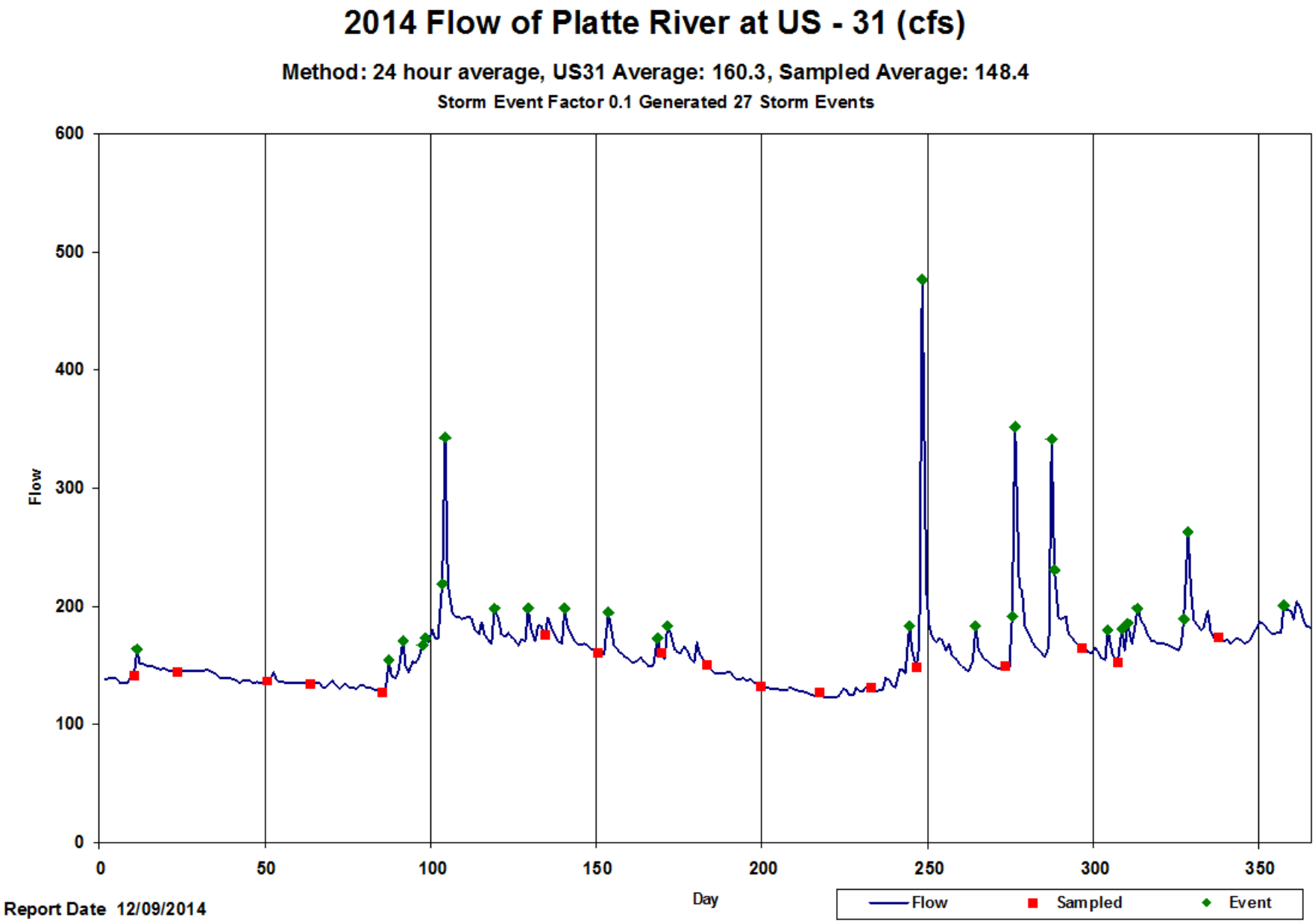

Figure 14. Daily average flows of Platte River in 2014 at the USGS Gaging Station 04126740 at Honor, MI and on dates when water quality sampling occurred at that site.

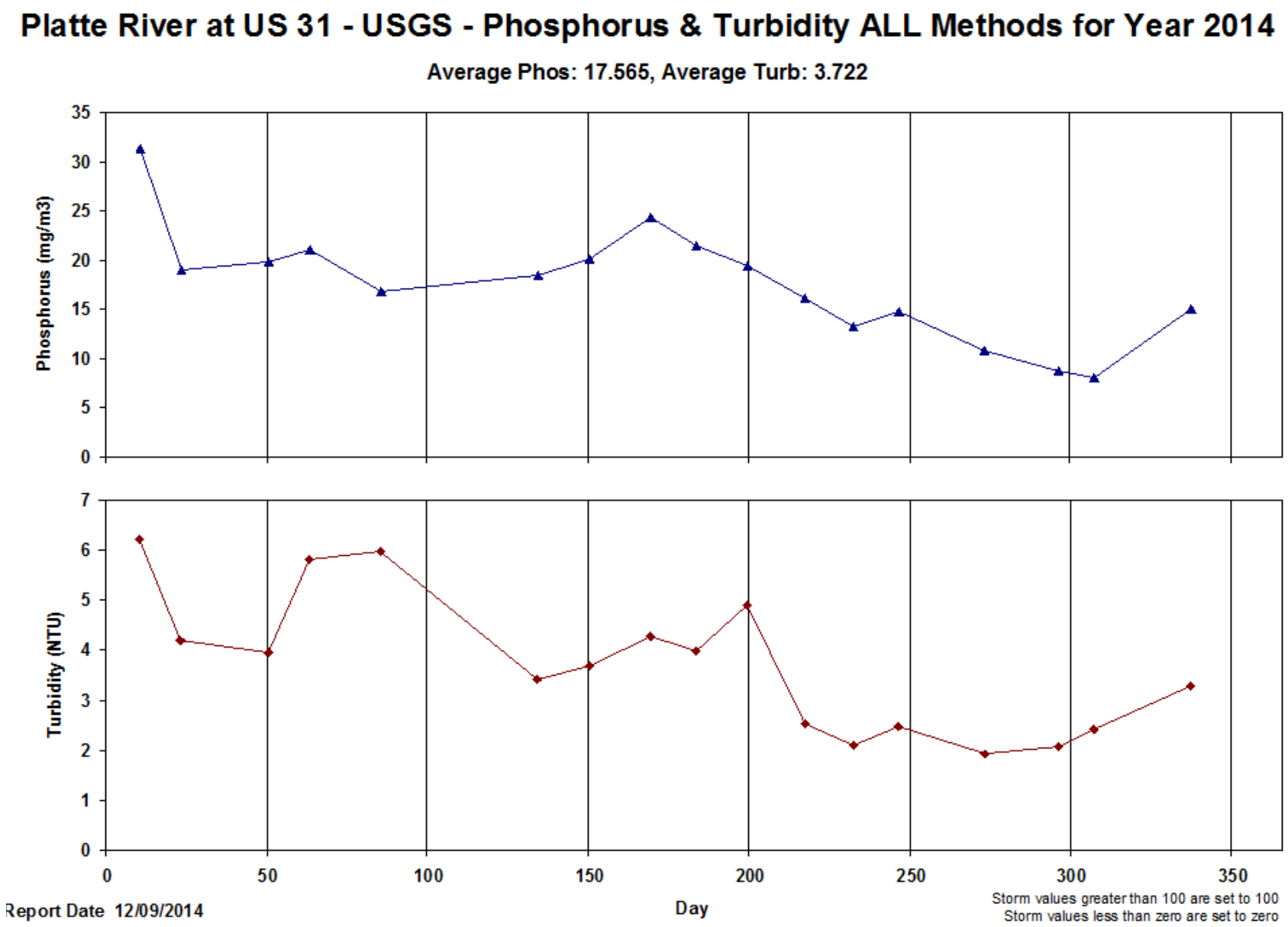

Figure 15. Total Phosphorus and Turbidity of Platte River at the USGS Gaging Station 04126740 during 2014.

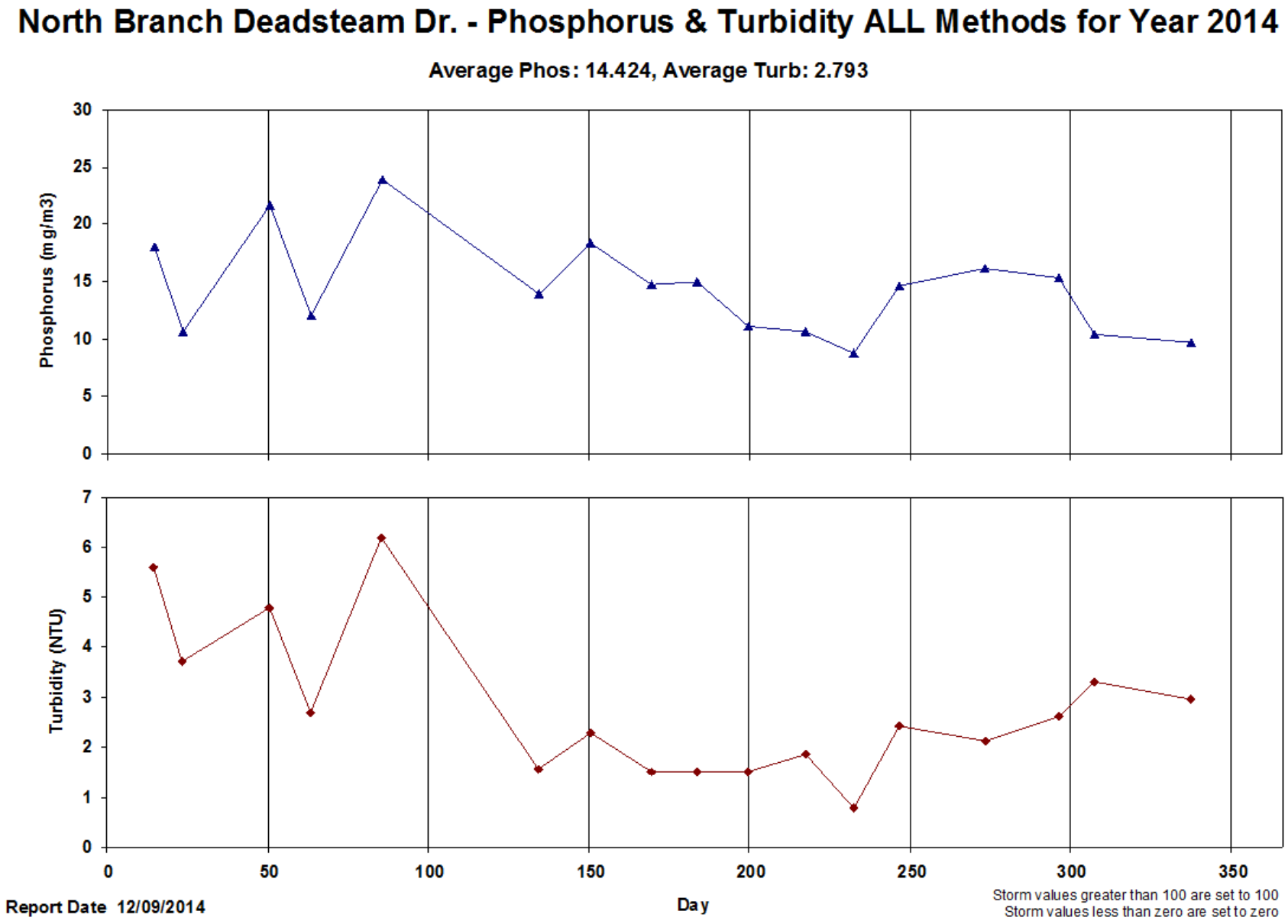

Figure 16. Total Phosphorus and Turbidity of the North Branch of the Platte River at Deadstream Road during 2014.

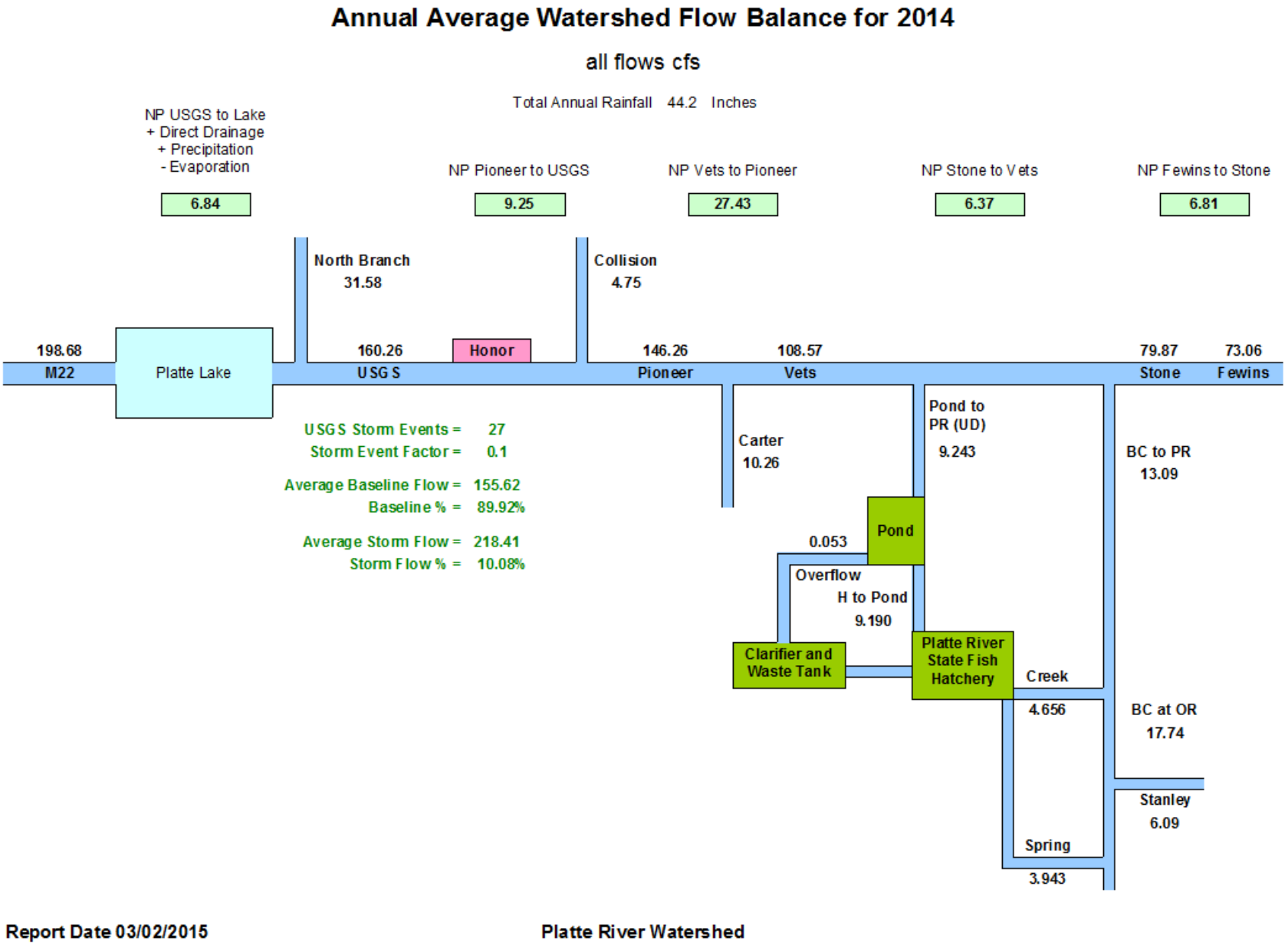

Figure 17. Watershed flow balance for 2014.

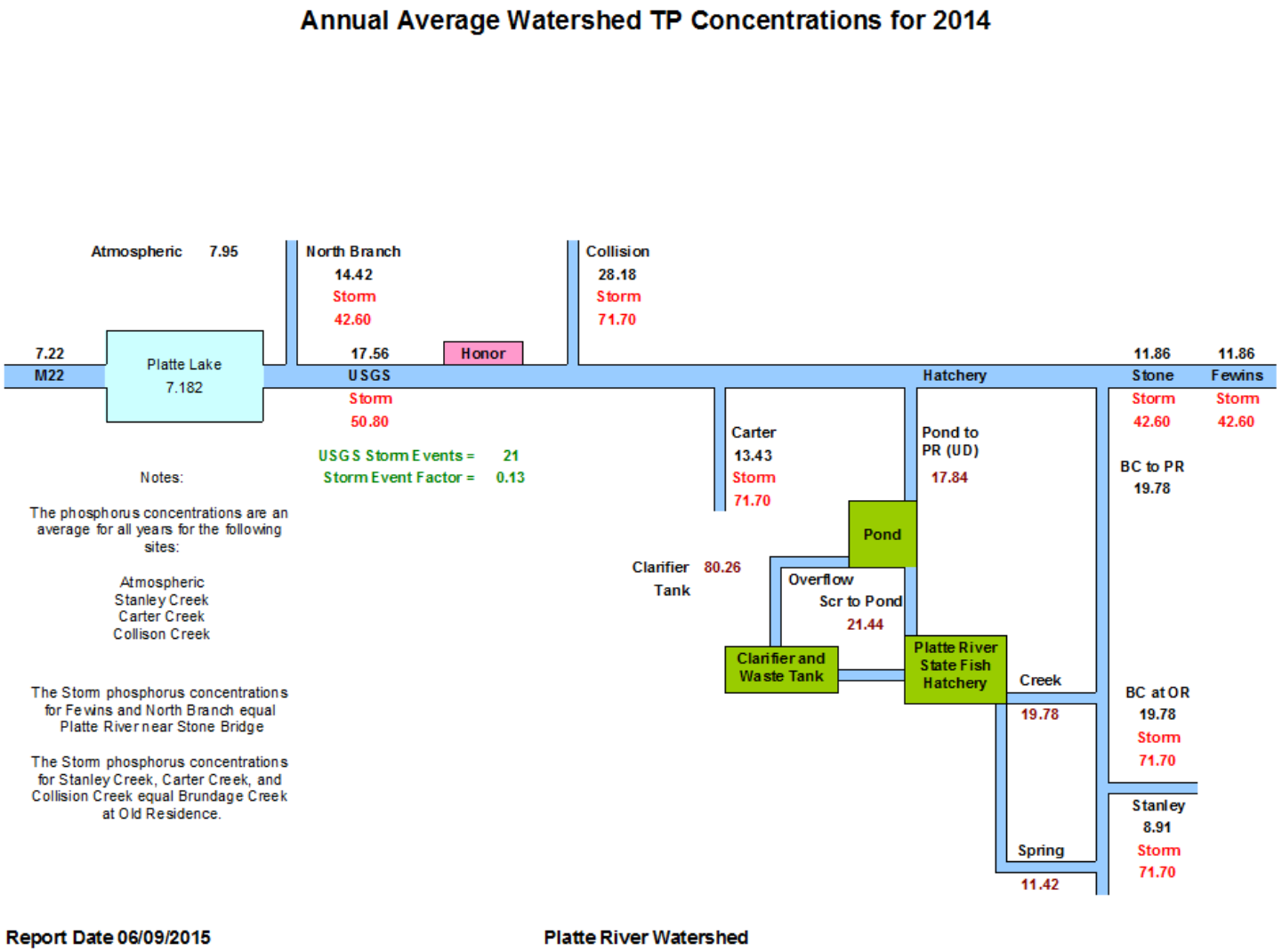

Figure 18. Average watershed total phosphorus concentrations for 2014.

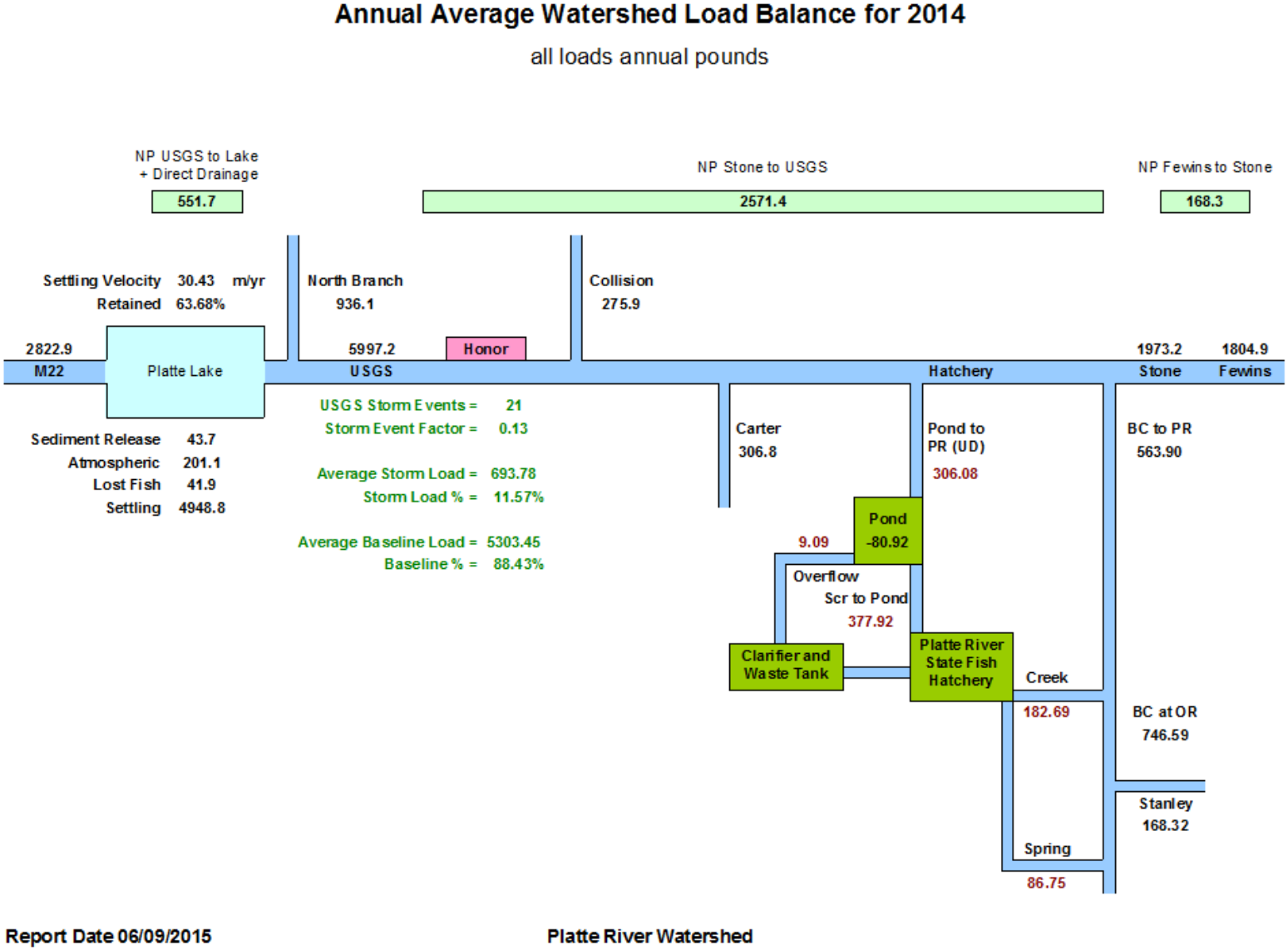

Figure 19. Watershed phosphorus load balance for 2014.