Overview for 2013

Consent Agreement Item	Actual Value for 2013	Limit
Annual Net Loading (Lbs P)	68.6	175
Max 3 Month Loading (Lbs P)	30.79 (April)	55
Hatchery Flow (mgd)	6.8	20
Adult Coho Passed (Individuals)	17,859	20,000
Adult Chinook Passed (Individuals)	158	1,000
Lake Median TP (mg/m^3)	7.70	8.0
% Compliance with 8 mg/m^3	62	95

Figure 1. Data summary for the 2013 Annual Report.

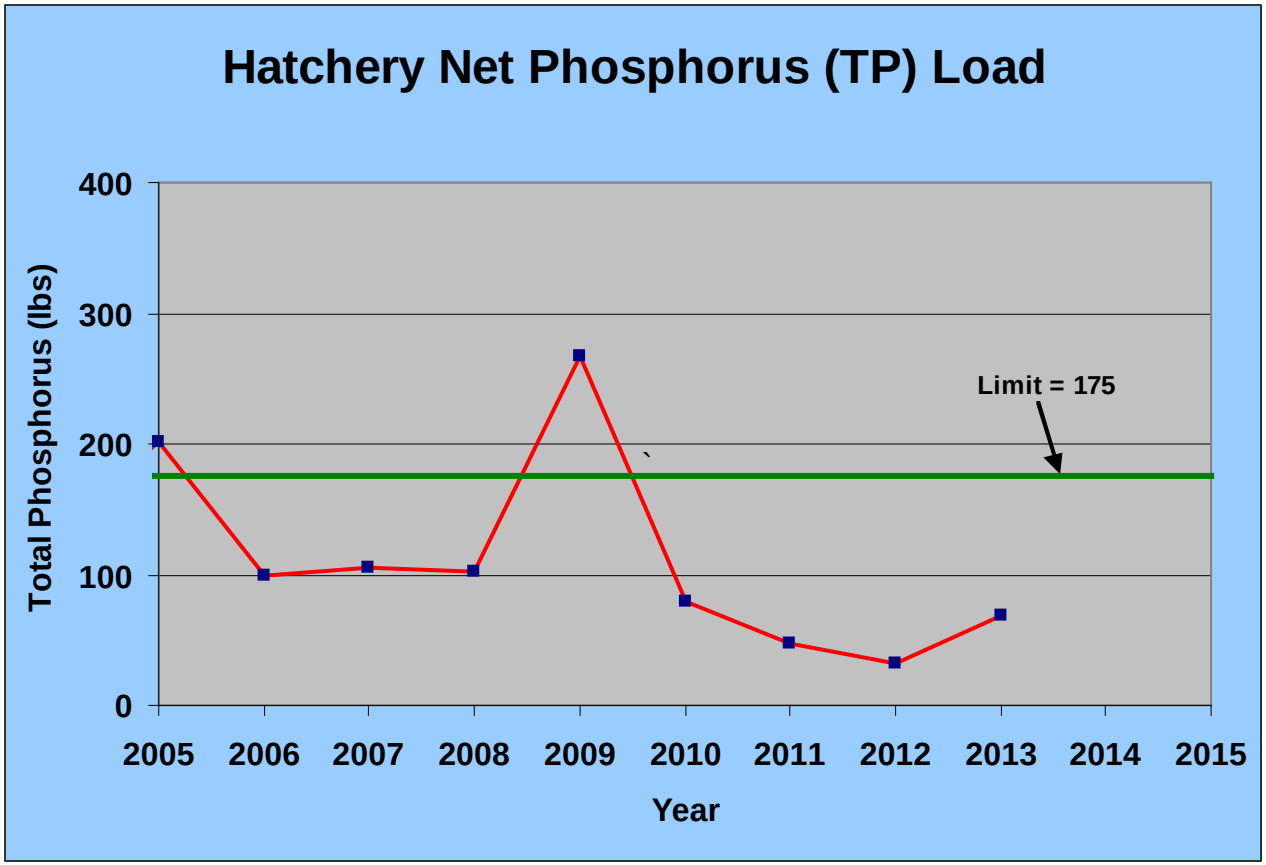


Figure 2. Annual Hatchery phosphorus loadings to the Platte River from 2005 to 2013.

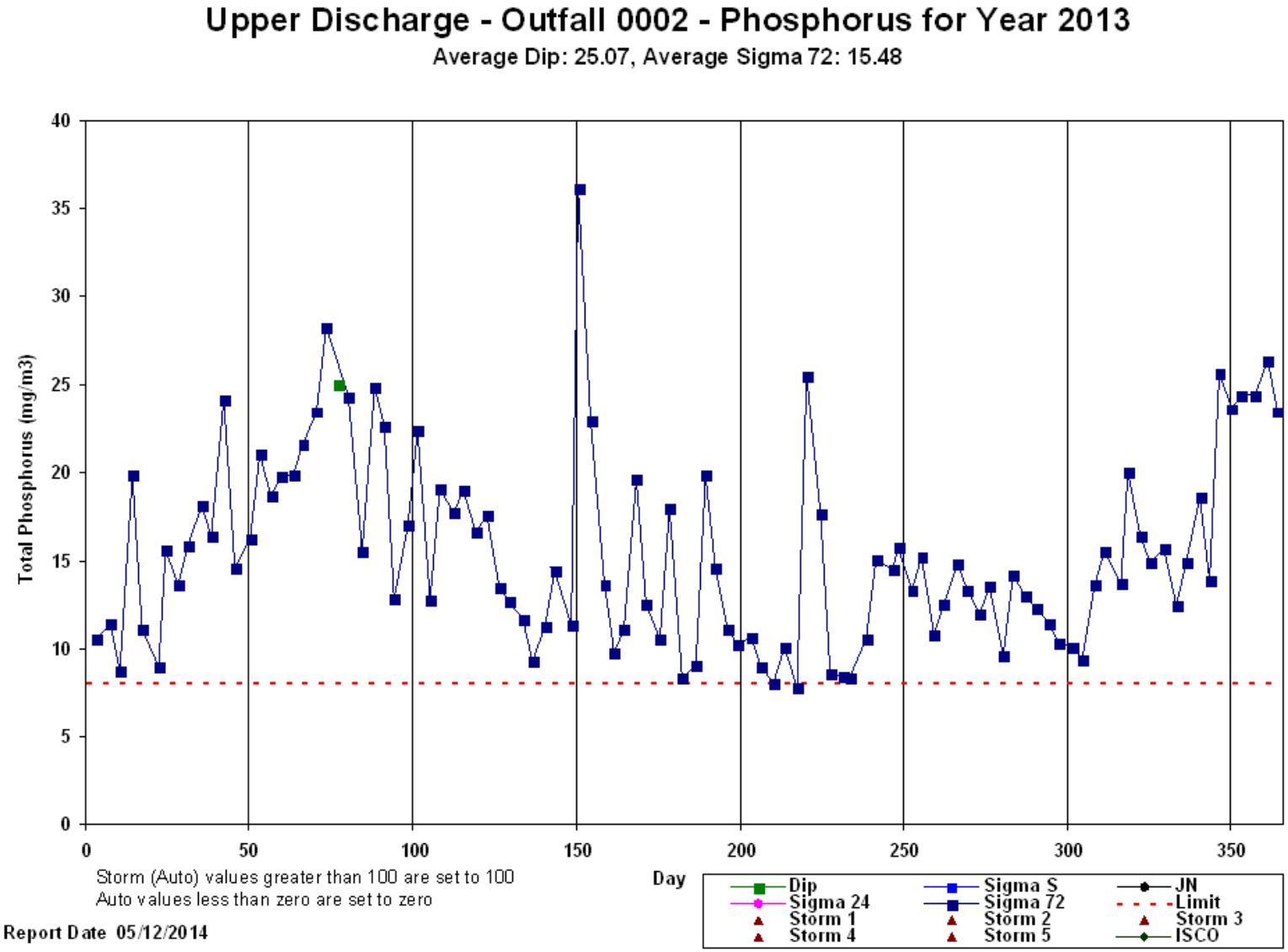
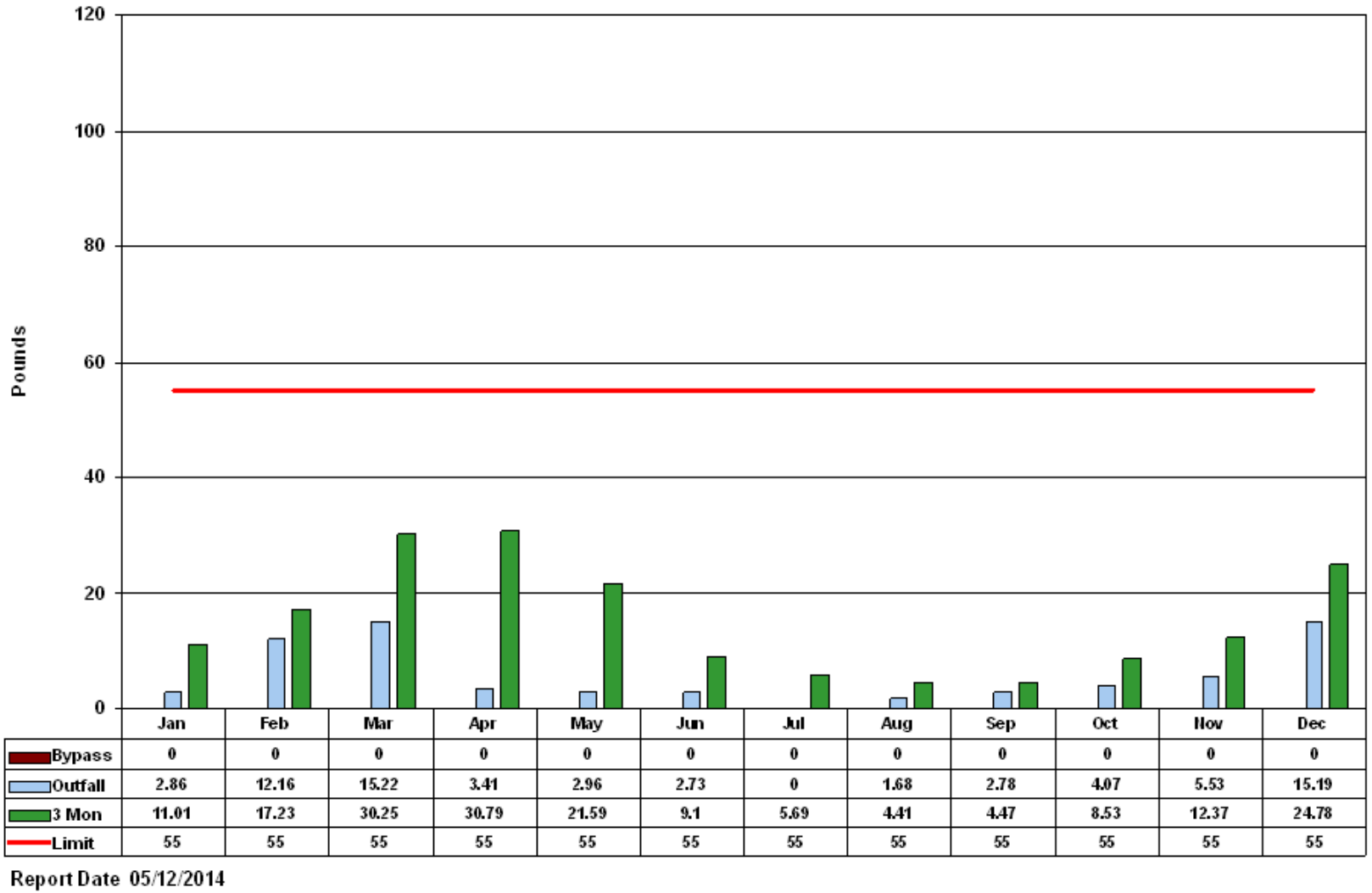


Figure 3. Measured phosphorus concentrations at the Upper Discharge in 2013.



	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Bypass	0	0	0	0	0	0	0	0	0	0	0	0
Outfall	2.86	12.16	15.22	3.41	2.96	2.73	0	1.68	2.78	4.07	5.53	15.19
3 Mon	11.01	17.23	30.25	30.79	21.59	9.1	5.69	4.41	4.47	8.53	12.37	24.78
Limit	55	55	55	55	55	55	55	55	55	55	55	55

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.

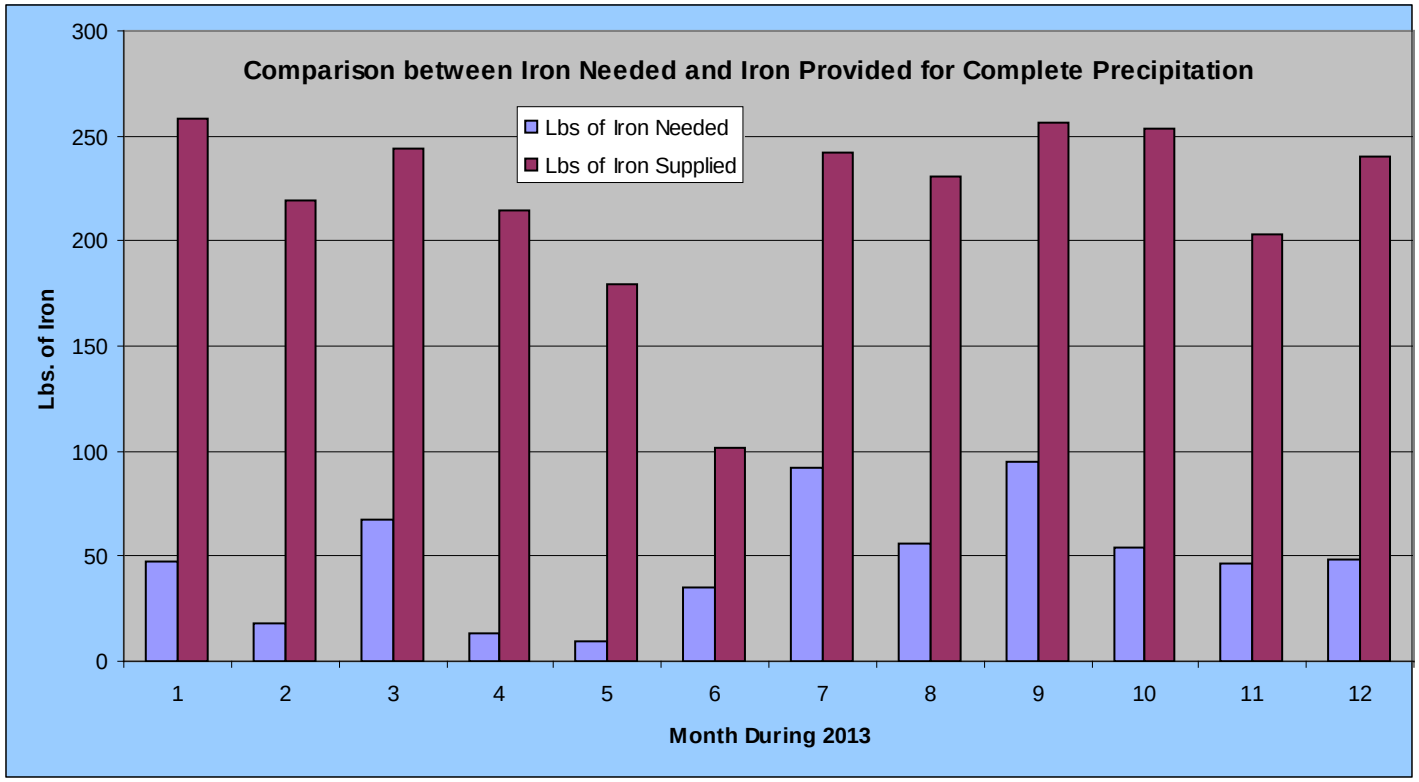


Figure 5 . Comparison between Iron Needed and Iron Provided in 2013 for Complete Phosphorus Precipitation.

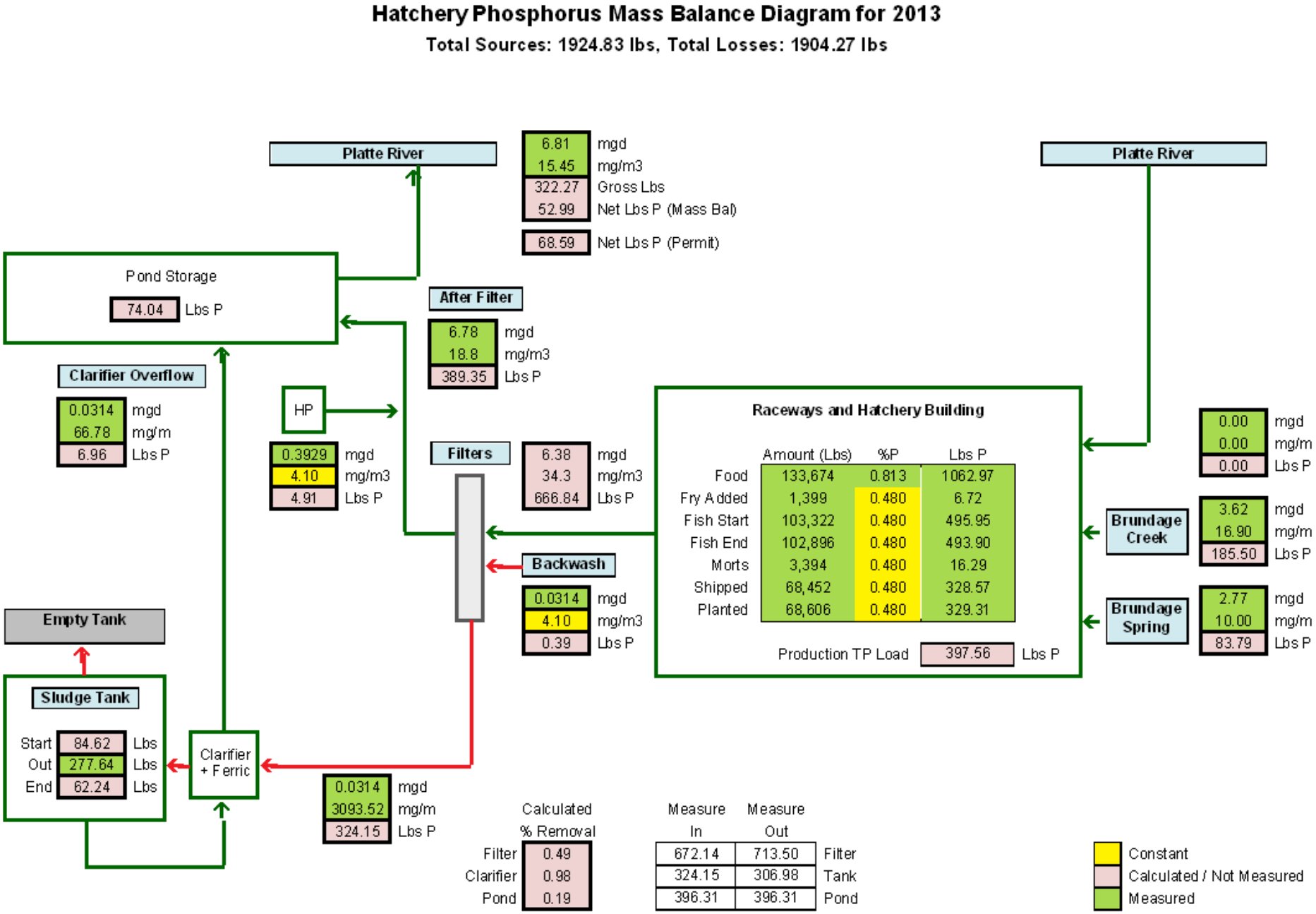


Figure 6. Annual summary of the 2013 Hatchery phosphorus mass balance model.

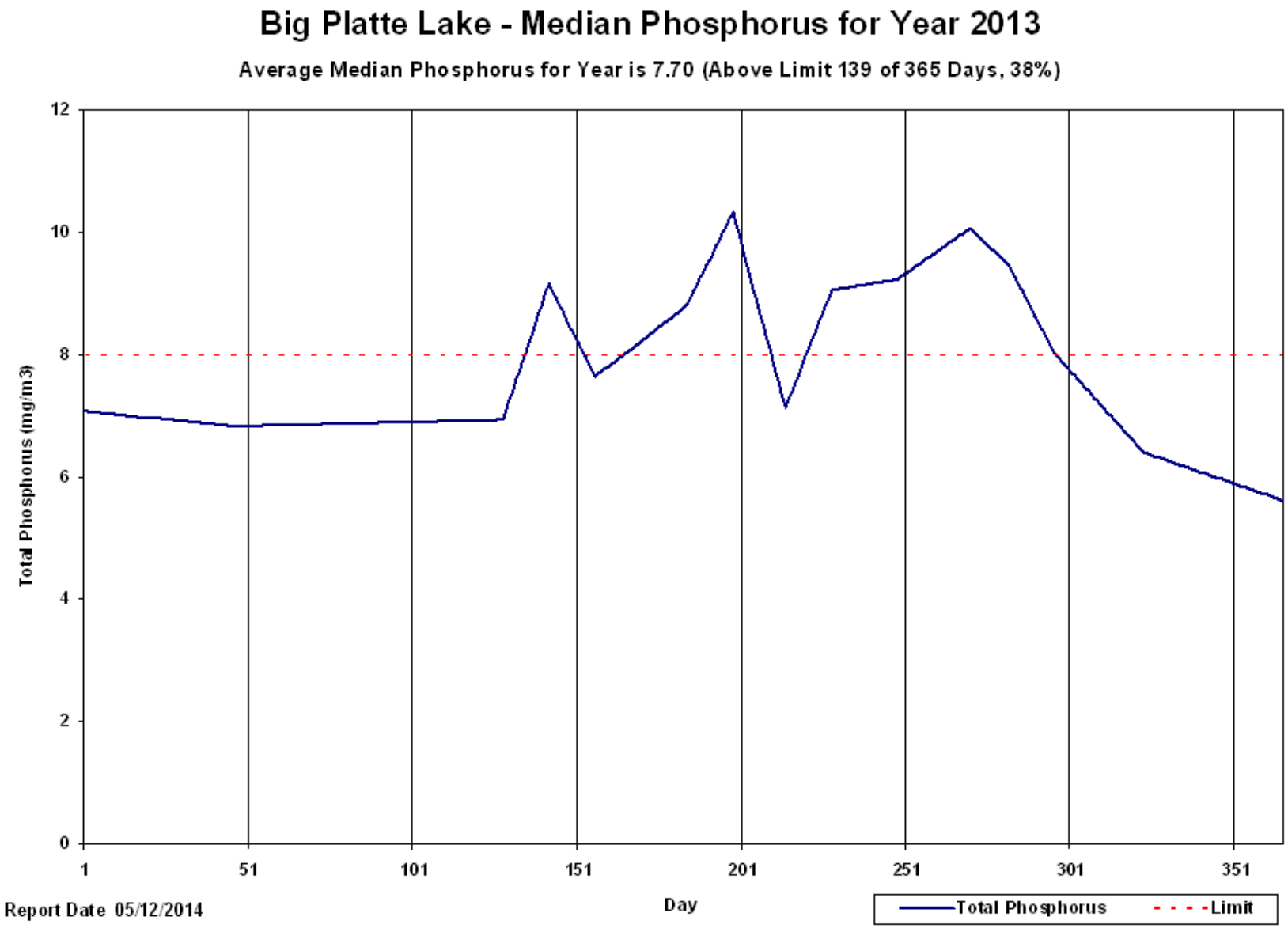


Figure 7. Volume-weighted total phosphorus concentrations in Big Platte Lake during 2013.

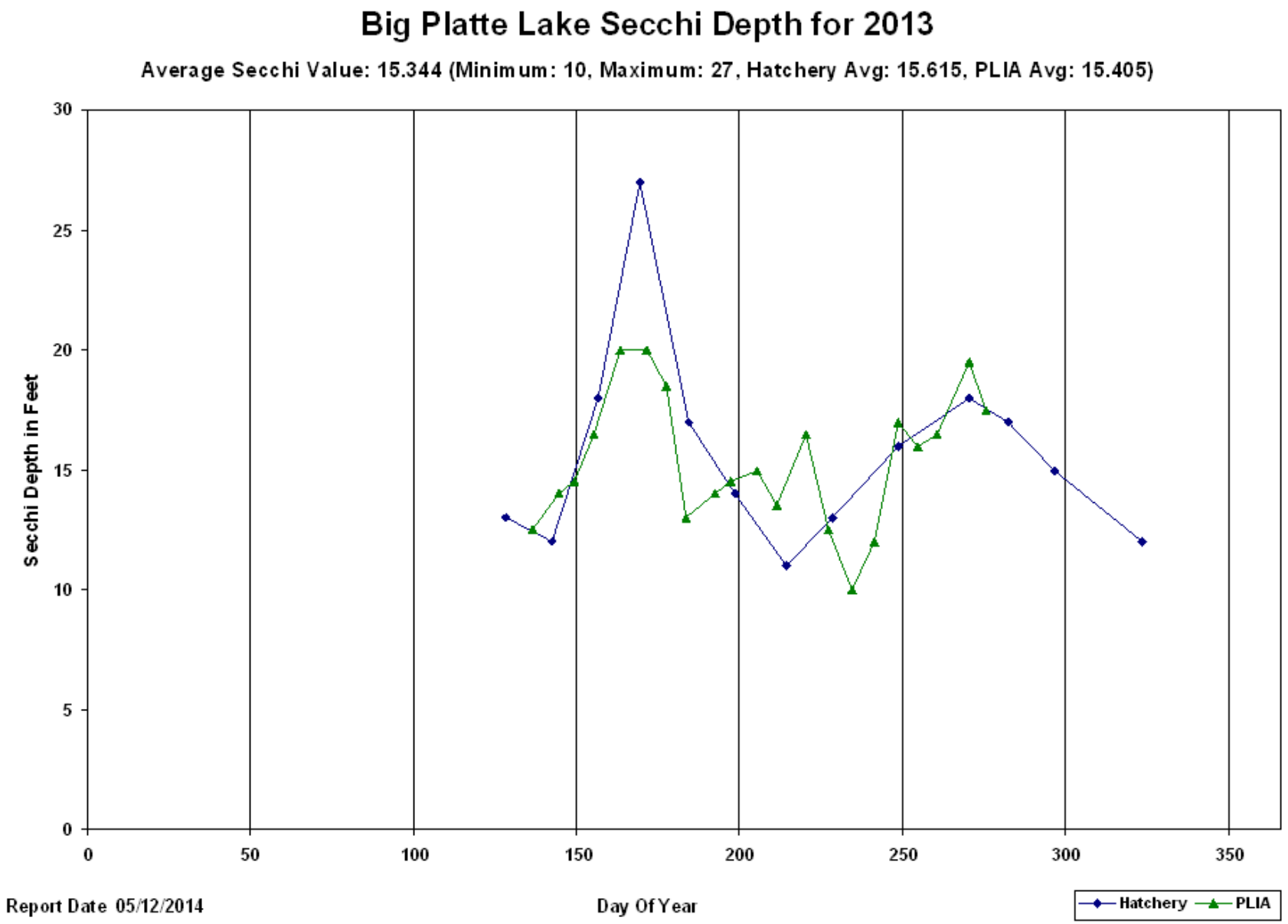


Figure 8. Big Platte Lake Secchi depth measurements for 2013.

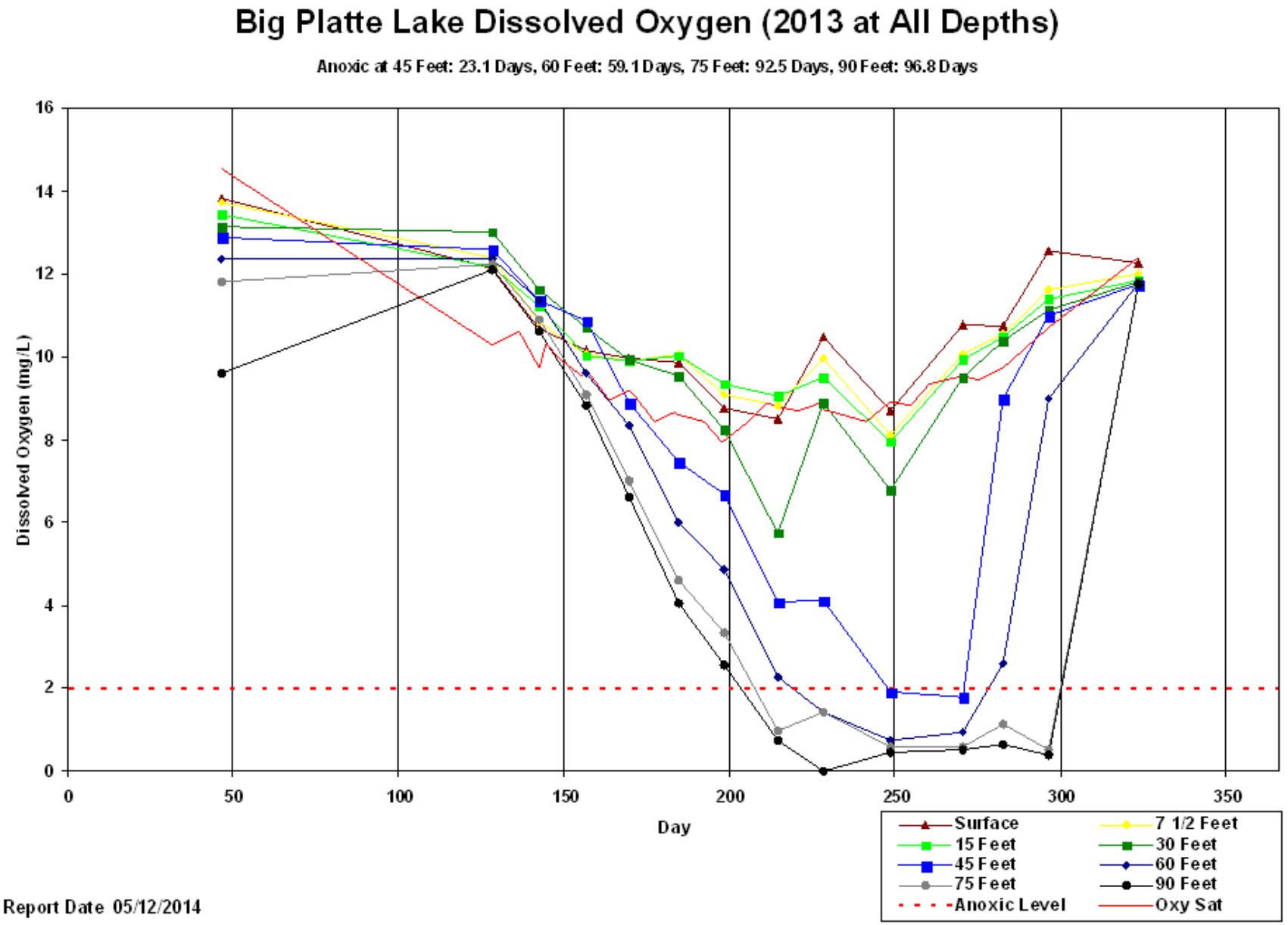


Figure 9. Dissolved oxygen measurements by depth in Big Platte Lake during 2013.

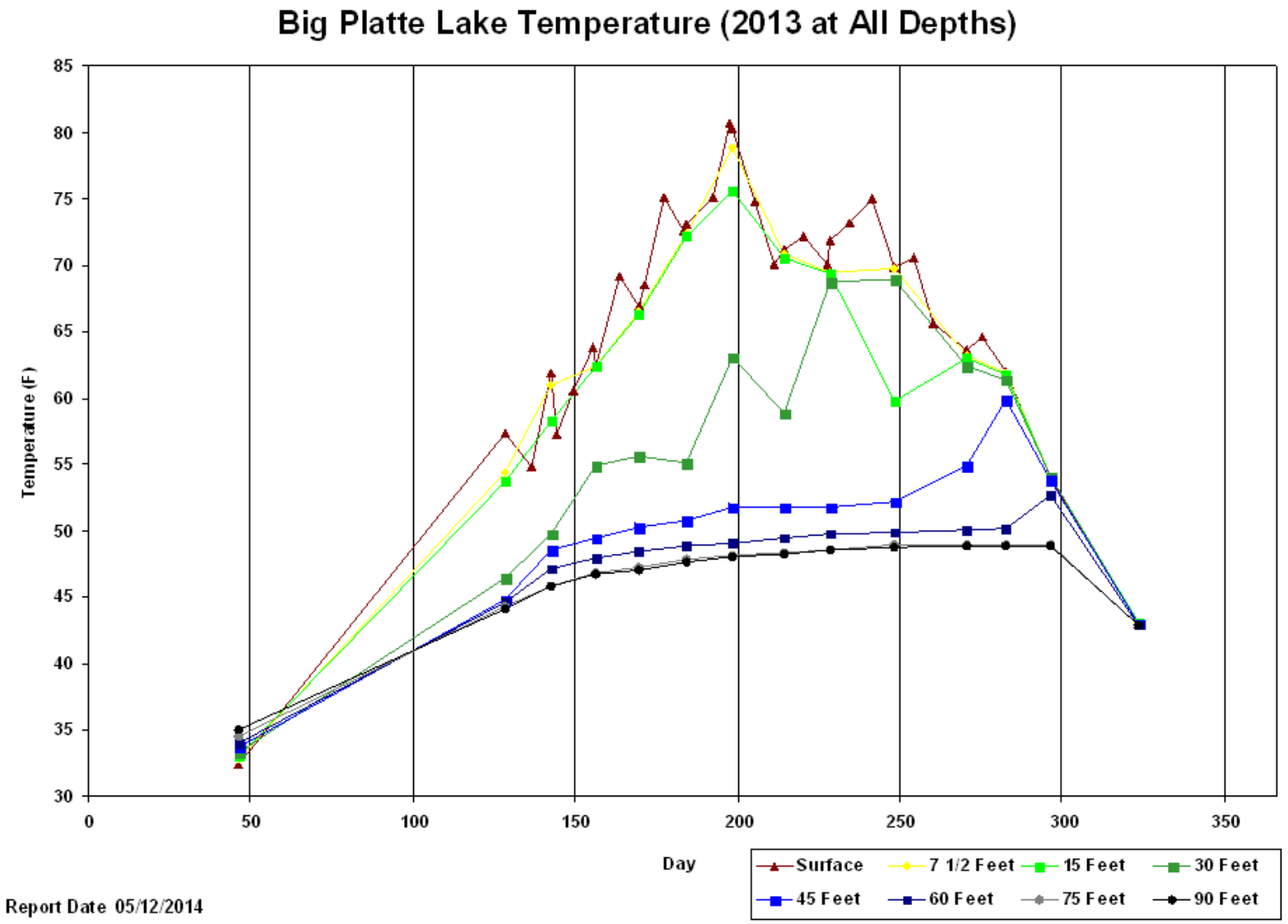


Figure 10. Temperature measurements by depth in Big Platte Lake during 2013.

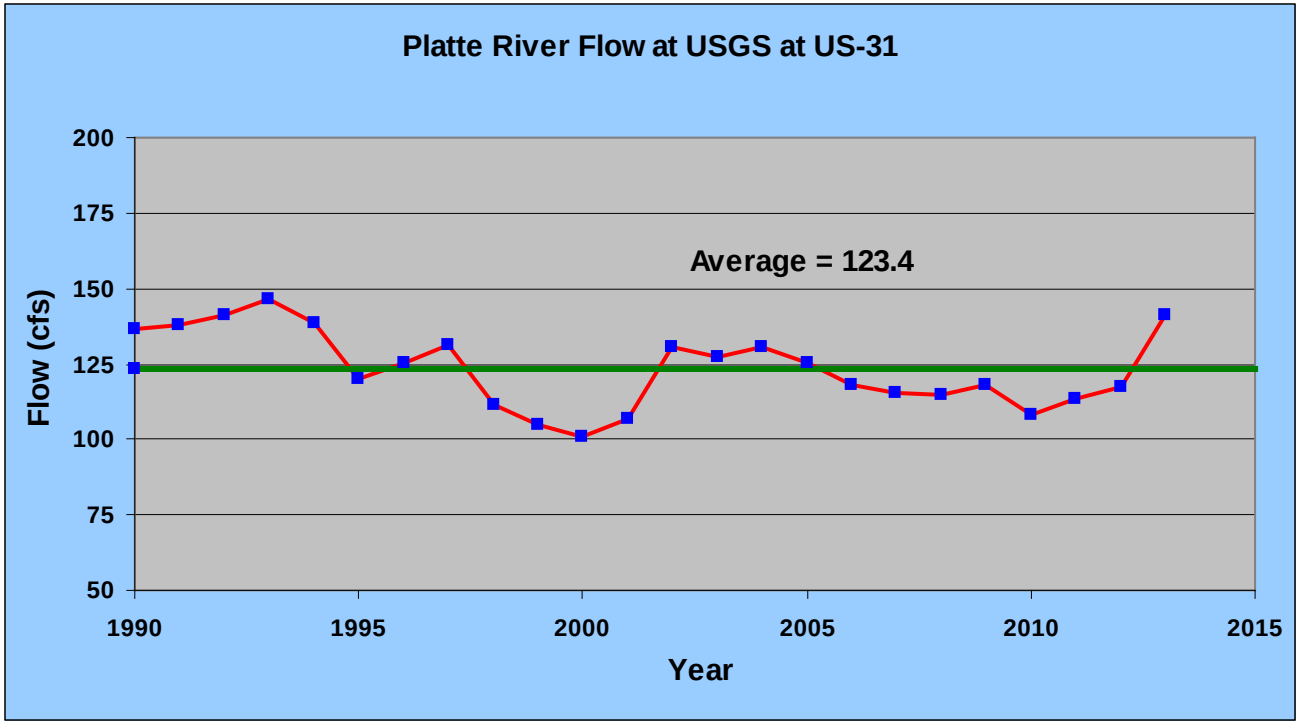


Figure 11. Average annual discharge of the Platte River at the USGS Gauging Station 04126740 at Honor, MI.

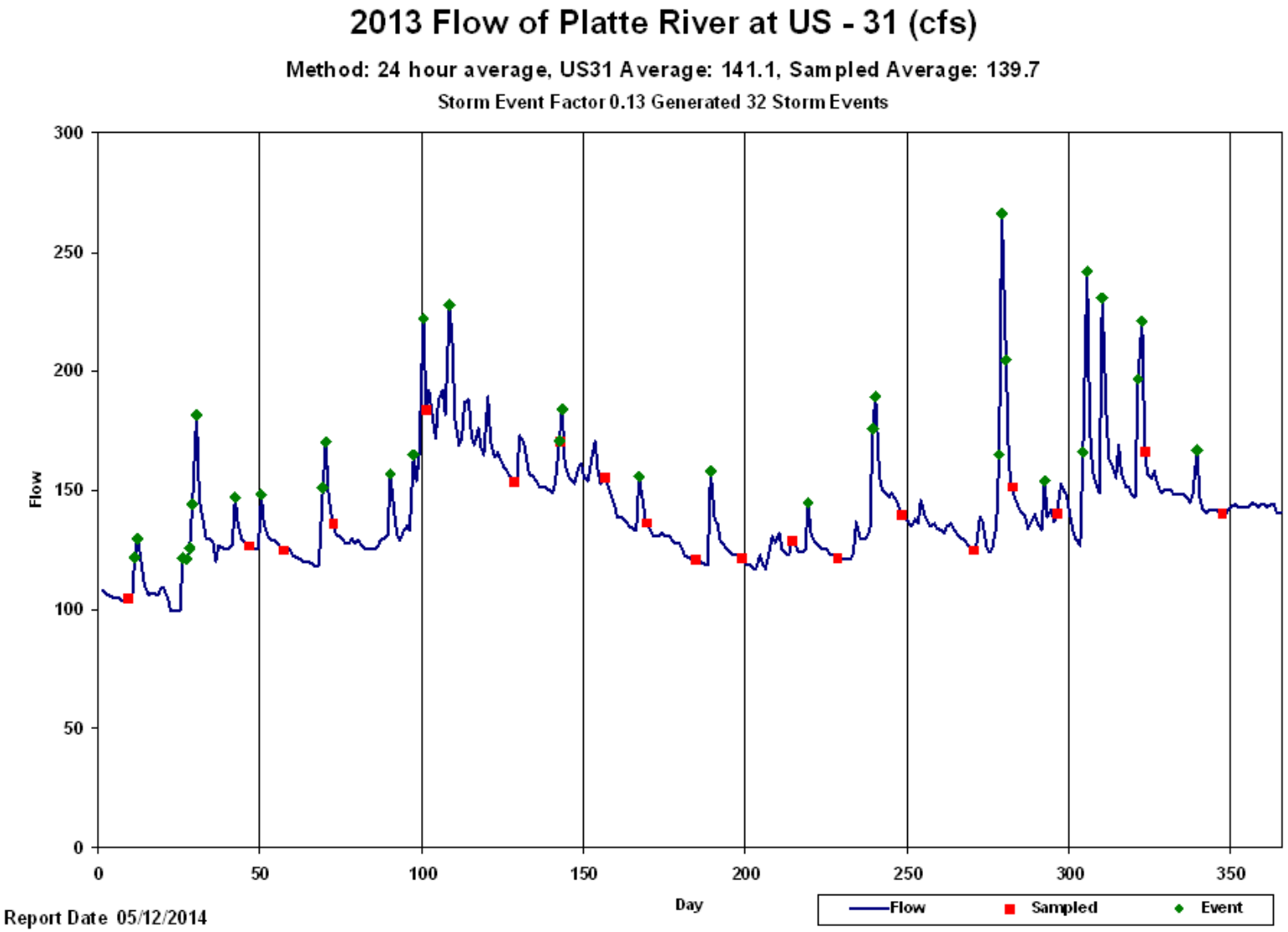


Figure 12. Daily average flows of Platte River in 2013 at the USGS Station 04126740 at Honor, MI and on dates when water quality sampling occurred at that site.

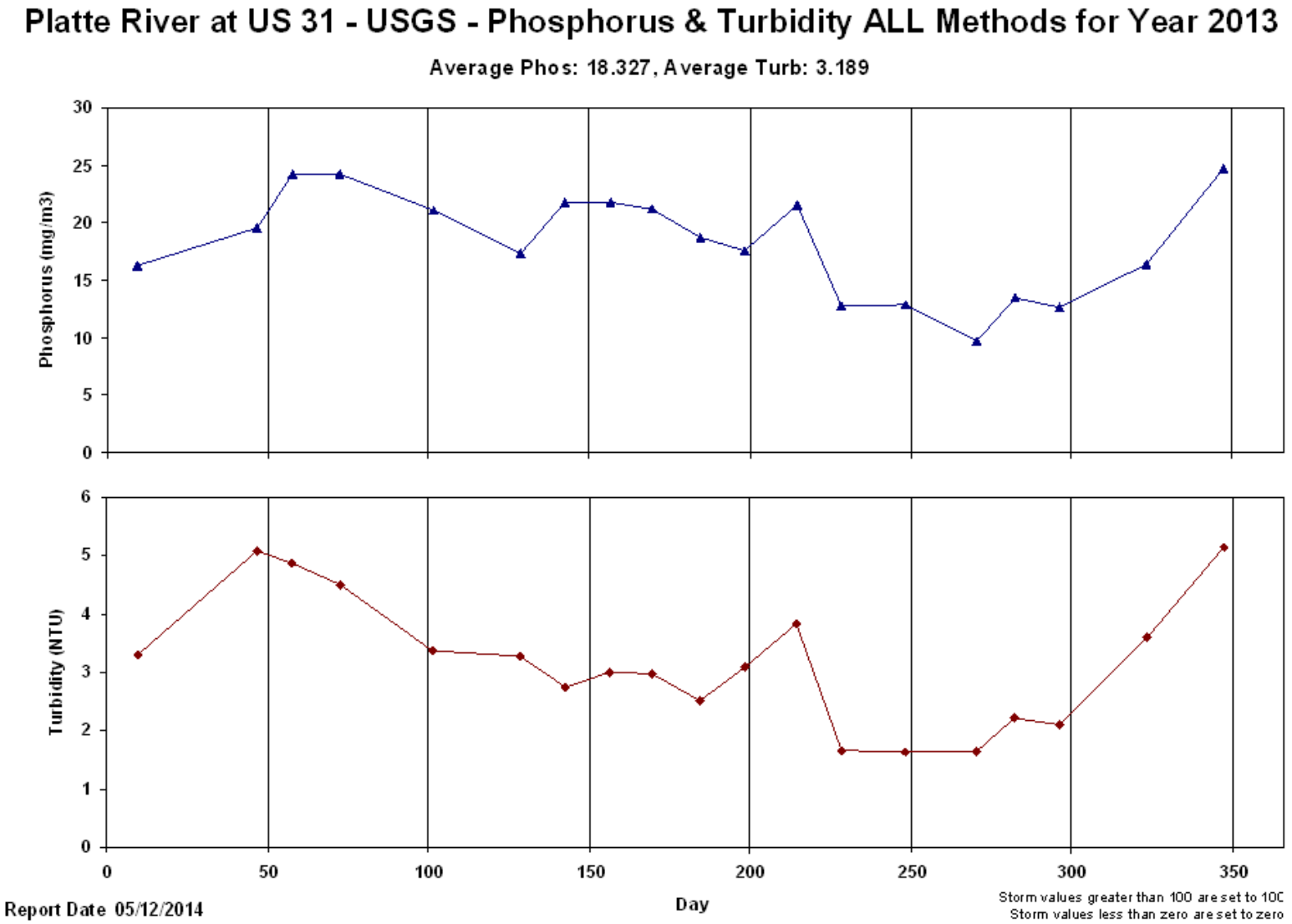


Figure 13. Total Phosphorus and Turbidity of Platte River at USGS during 2013.

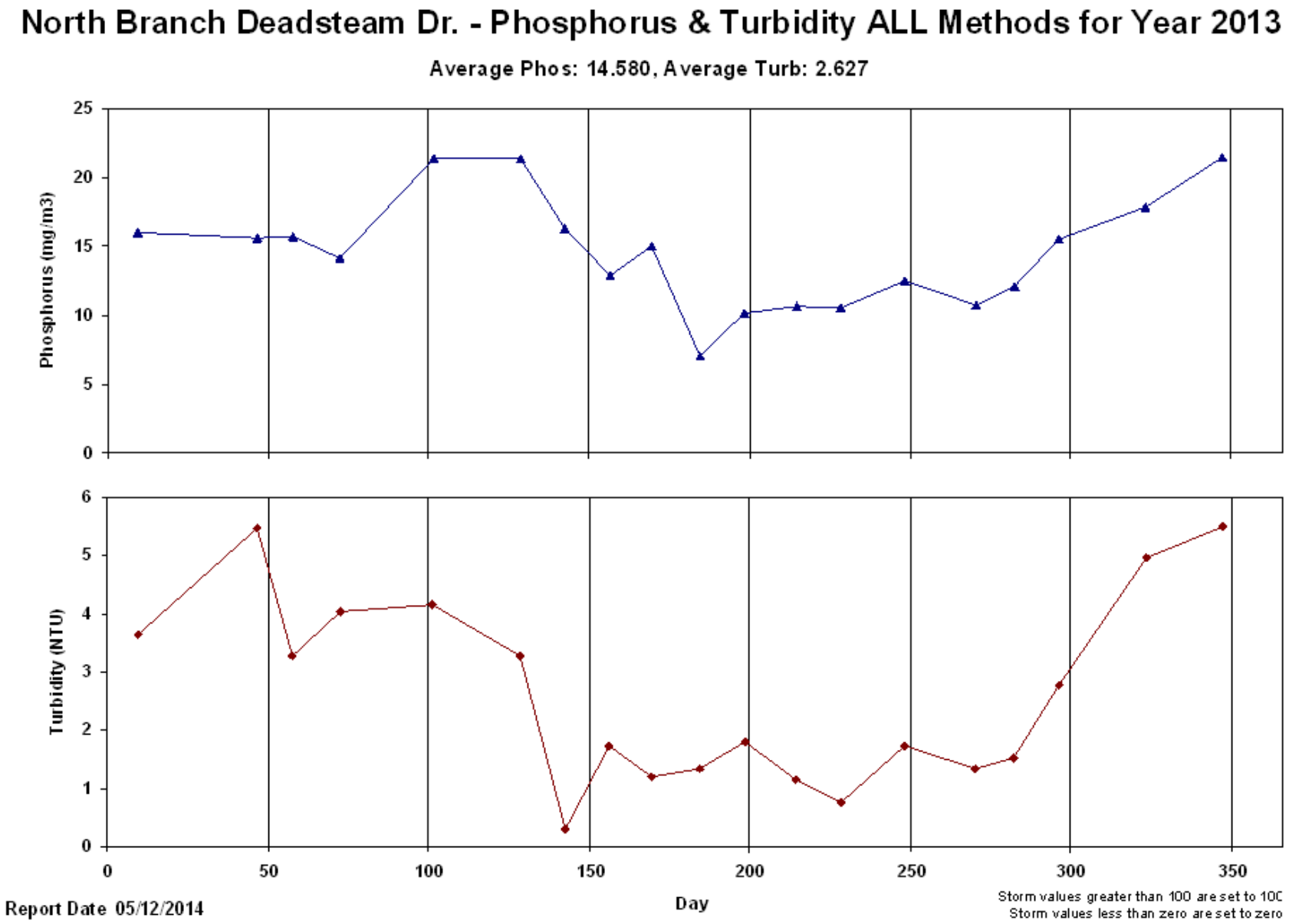


Figure 14. Total Phosphorus and Turbidity of the North Branch of the Platte River at Deadstream Rd during 2013.

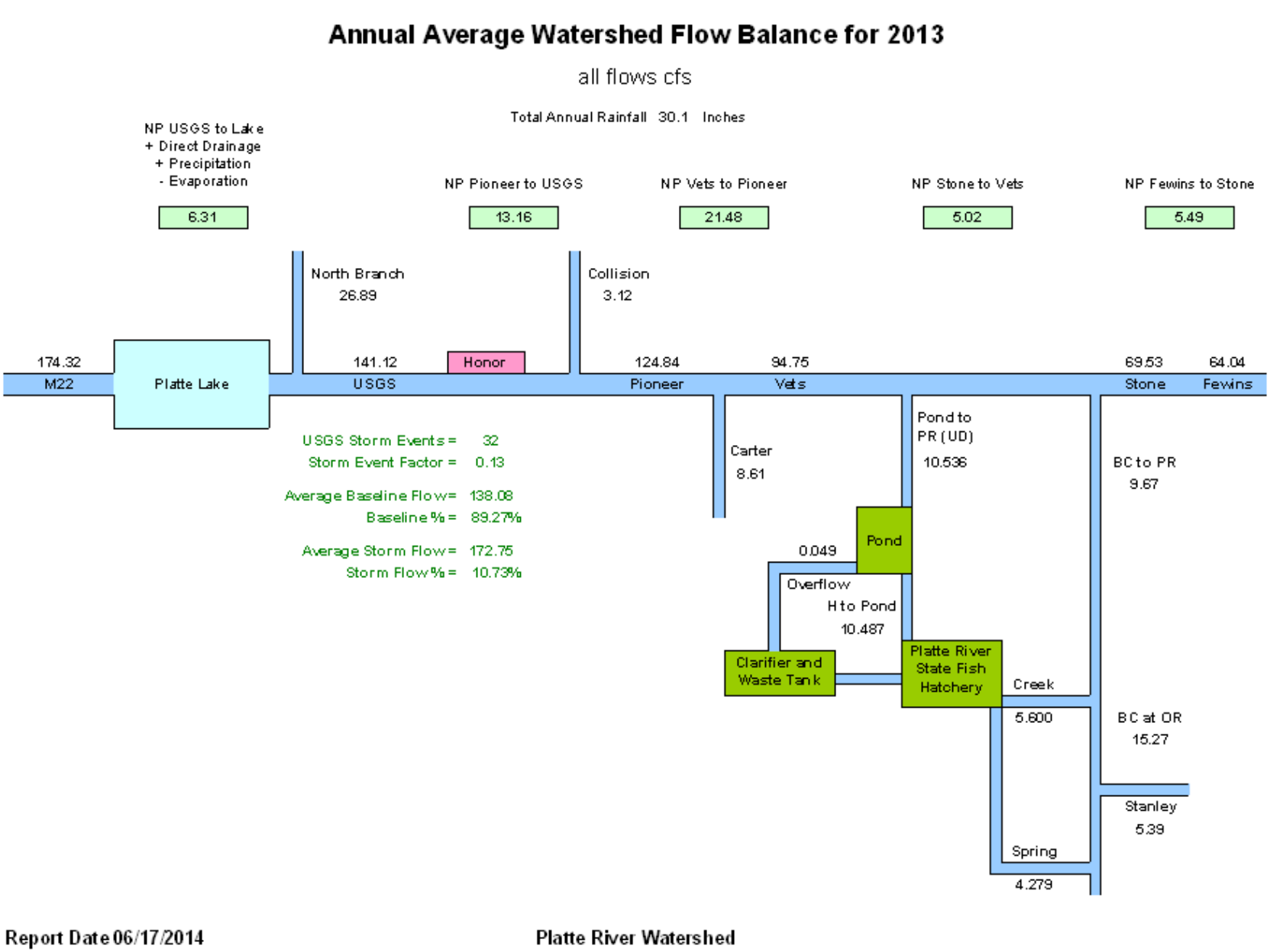
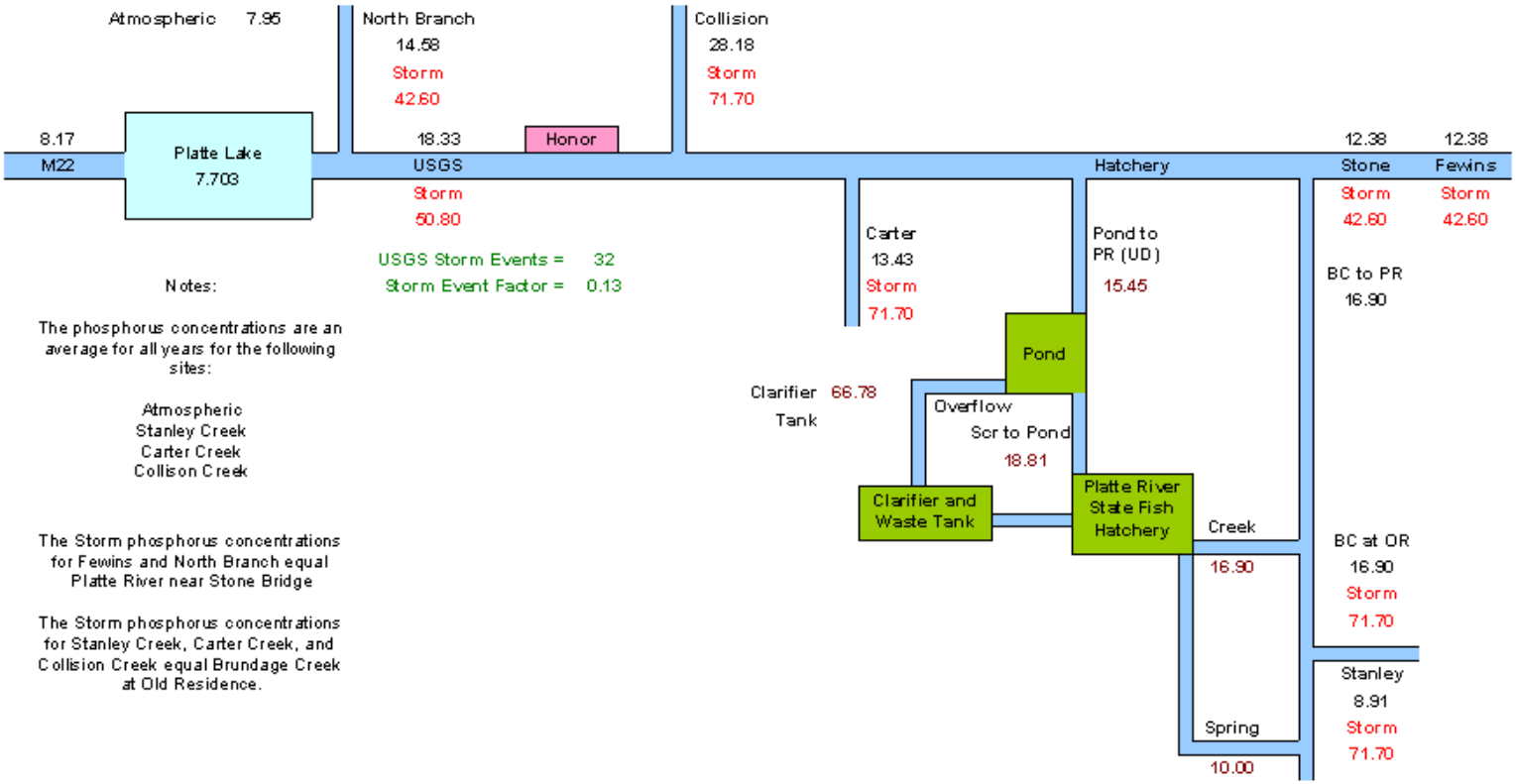


Figure 15. Watershed Flow Balance for 2013.

Annual Average Watershed TP Concentrations for 2013



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Platte River Watershed

Figure 16. Annual Average Total Phosphorus Concentrations for 2013.

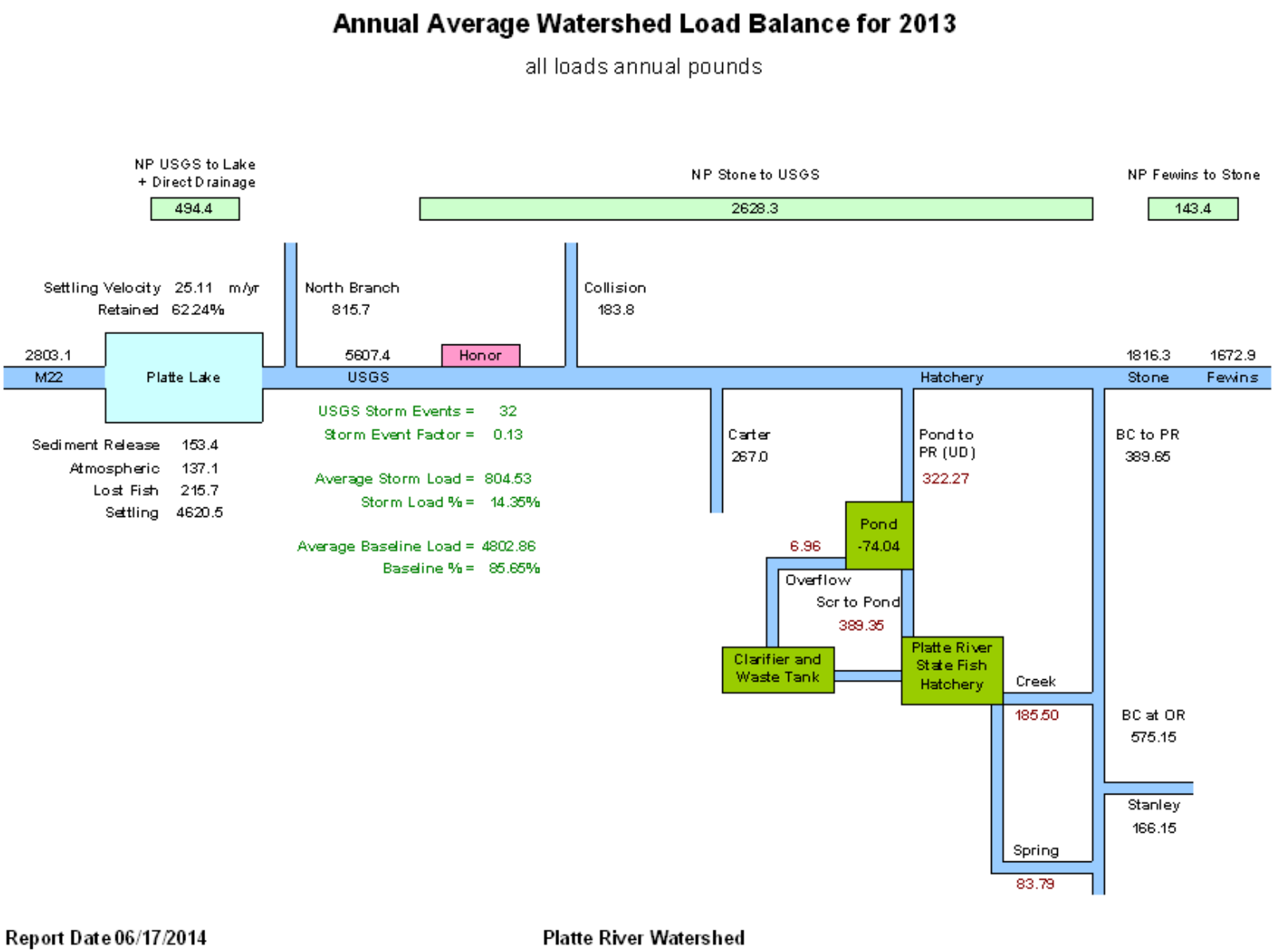

Figure 17. Watershed Phosphorus Load Balance for 2013.