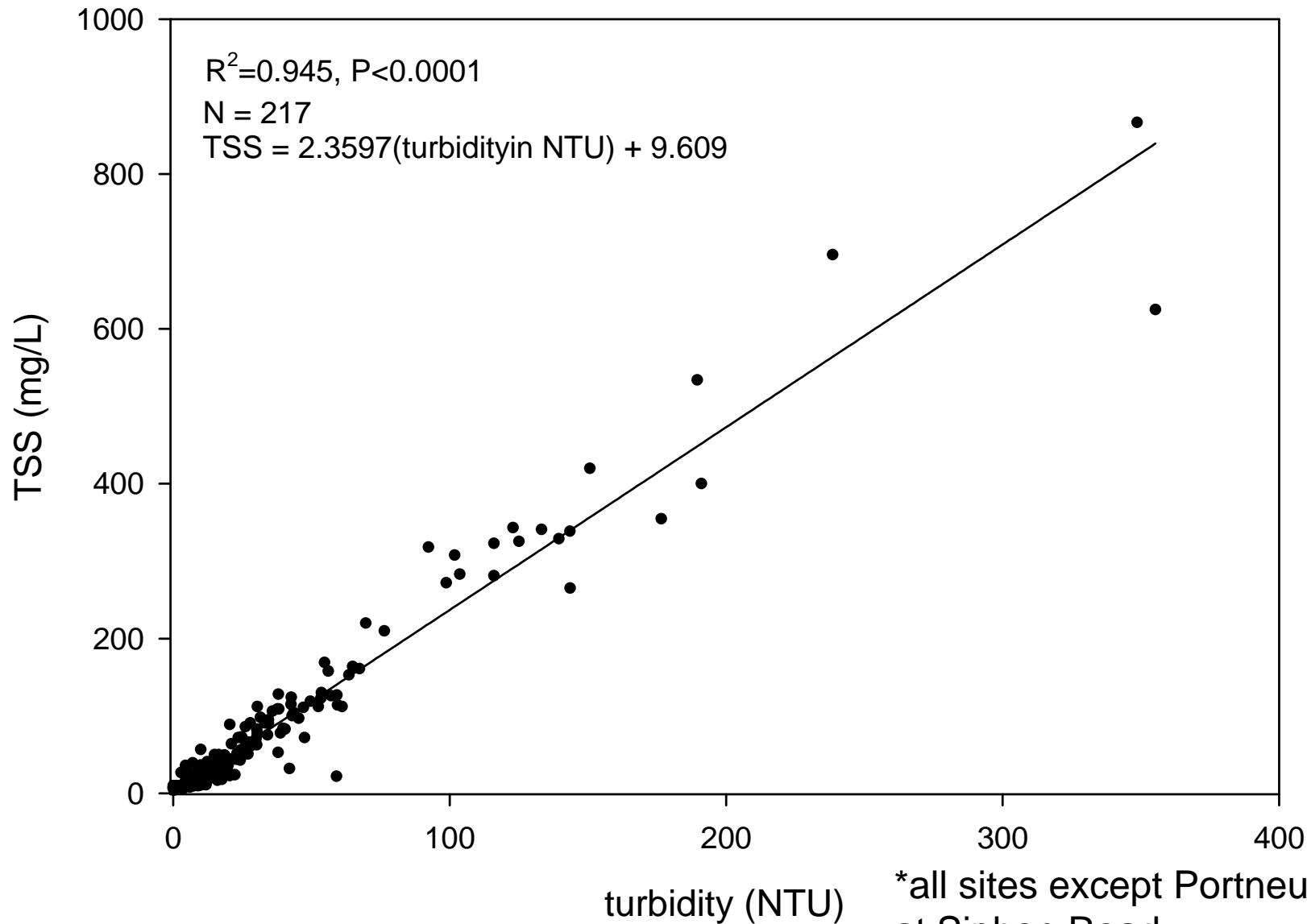


**Portneuf Watershed Advisory  
Group Meeting  
16 January 2007**

**IDEQ Snake River  
Conference Room  
Pocatello Regional Office**

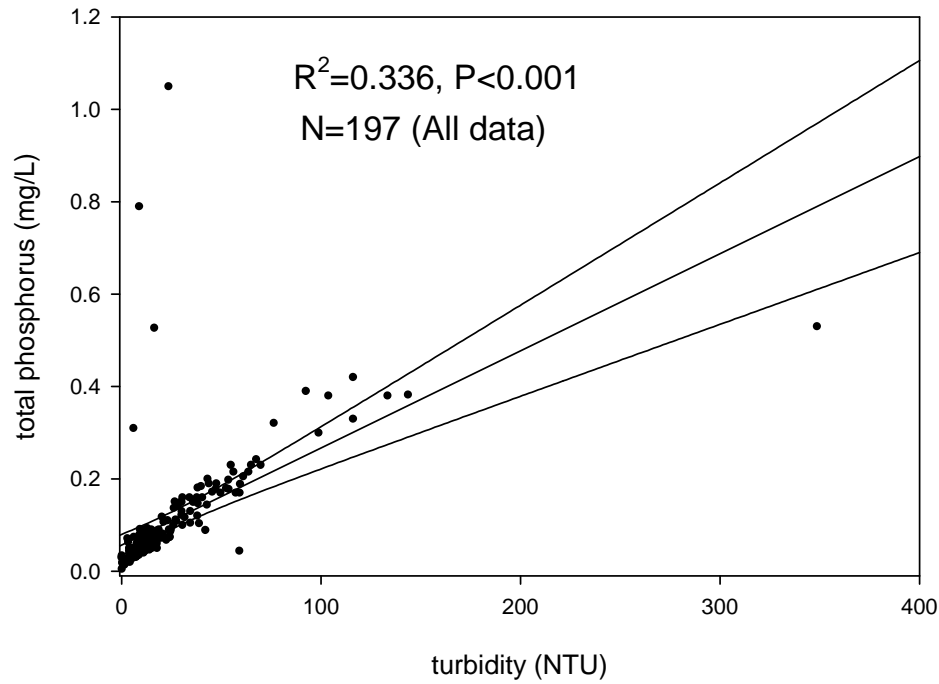
# Turbidity and total suspended solids (TSS) relationship for all mainstem Portneuf R and Marsh Cr sites\*



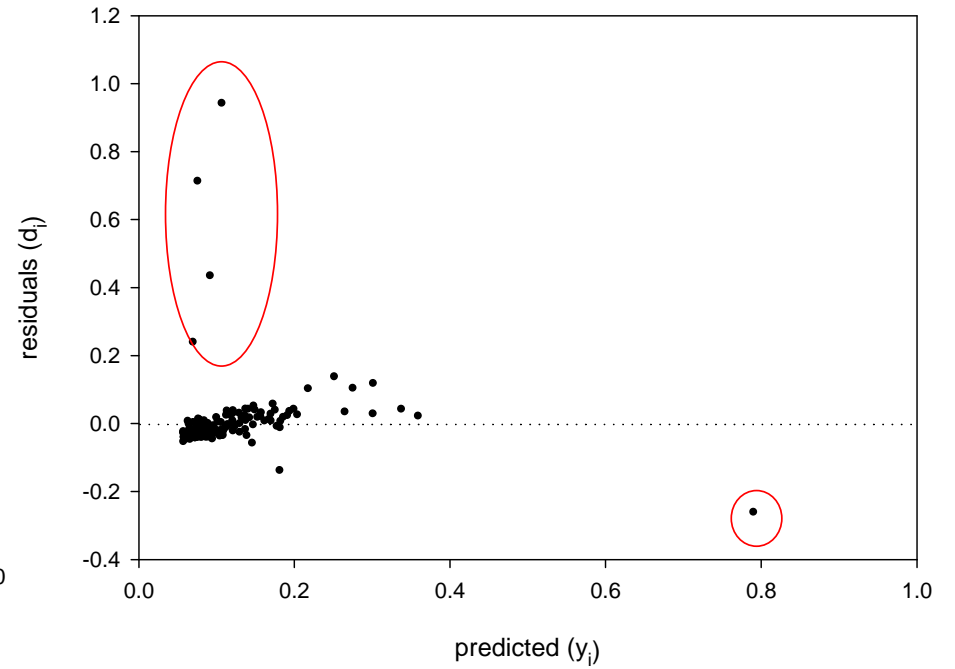
Note: for discussion purposes only

\*all sites except Portneuf River  
at Siphon Road

Turbidity and total phosphorus (TP) relationship  
for all mainstem Portneuf R and Marsh Cr sites\*



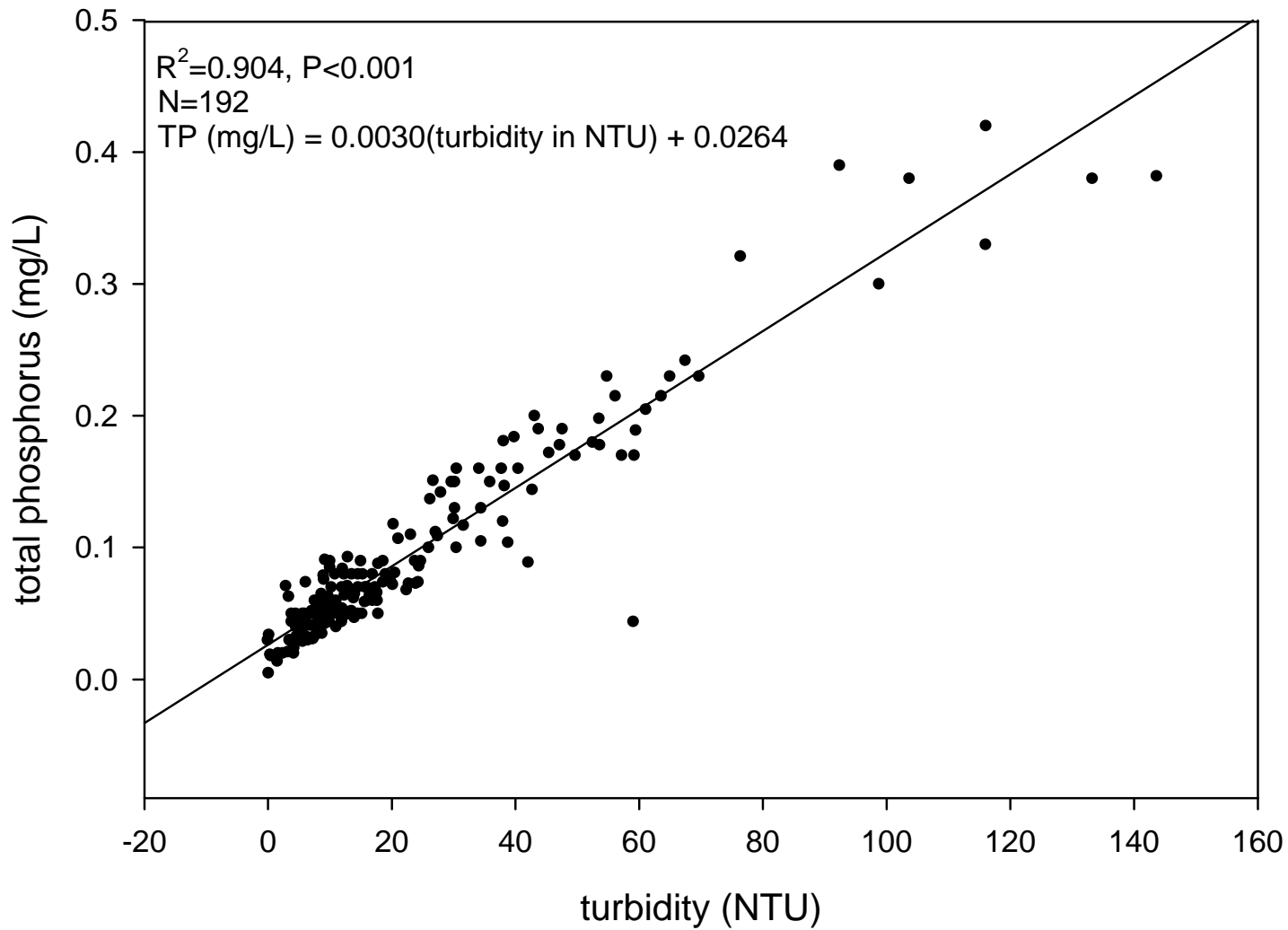
residuals plot (all data)



\*all sites except Portneuf River at Siphon Road

Note: for discussion purposes only

# Turbidity and total phosphorus relationships for all mainstem Portneuf R and Marsh Cr sites\*



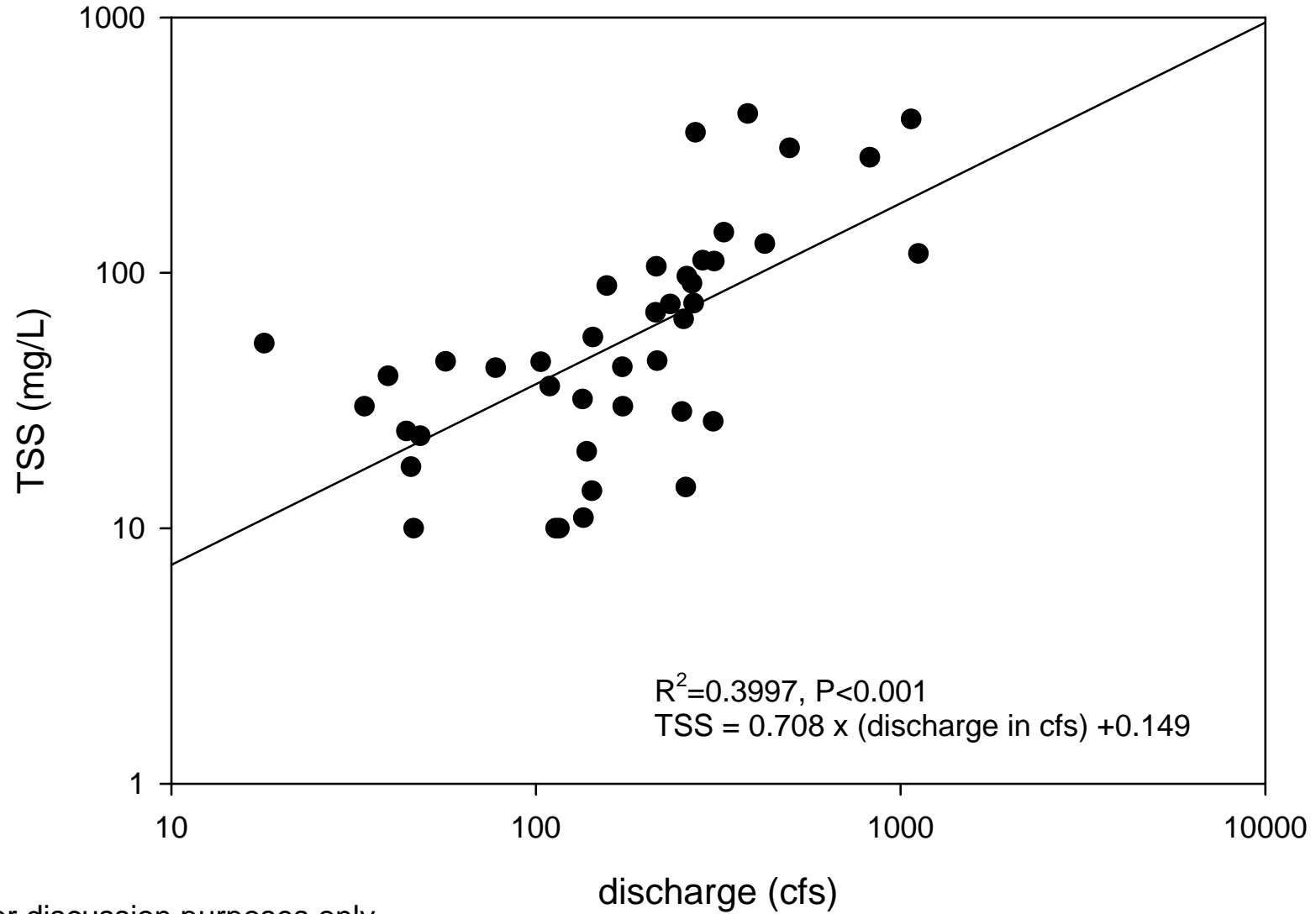
Note: for discussion purposes only

\*all sites except Portneuf  
River at Siphon Road

# Predicting Loads

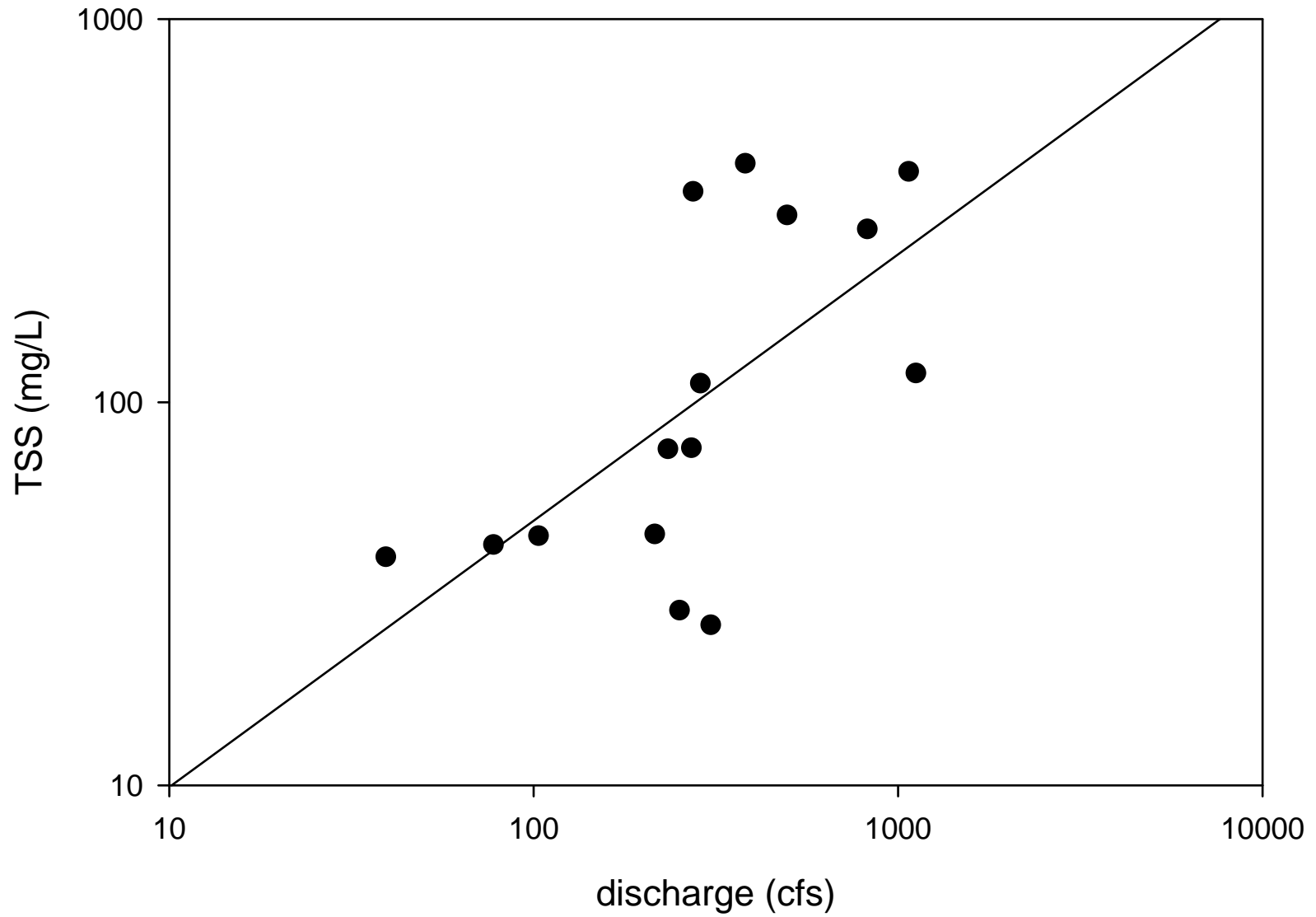
- When turbidity record available best surrogate for total suspended sediment (TSS) and total phosphorus (TP)
- Unfortunately turbidity record is continuous and often unavailable for 25 to 33% of year
- Discharge often used to develop rating curve and USGS data is available for everyday

# Portneuf River at Edson Fichter Rating Curve (2004 - 2006)



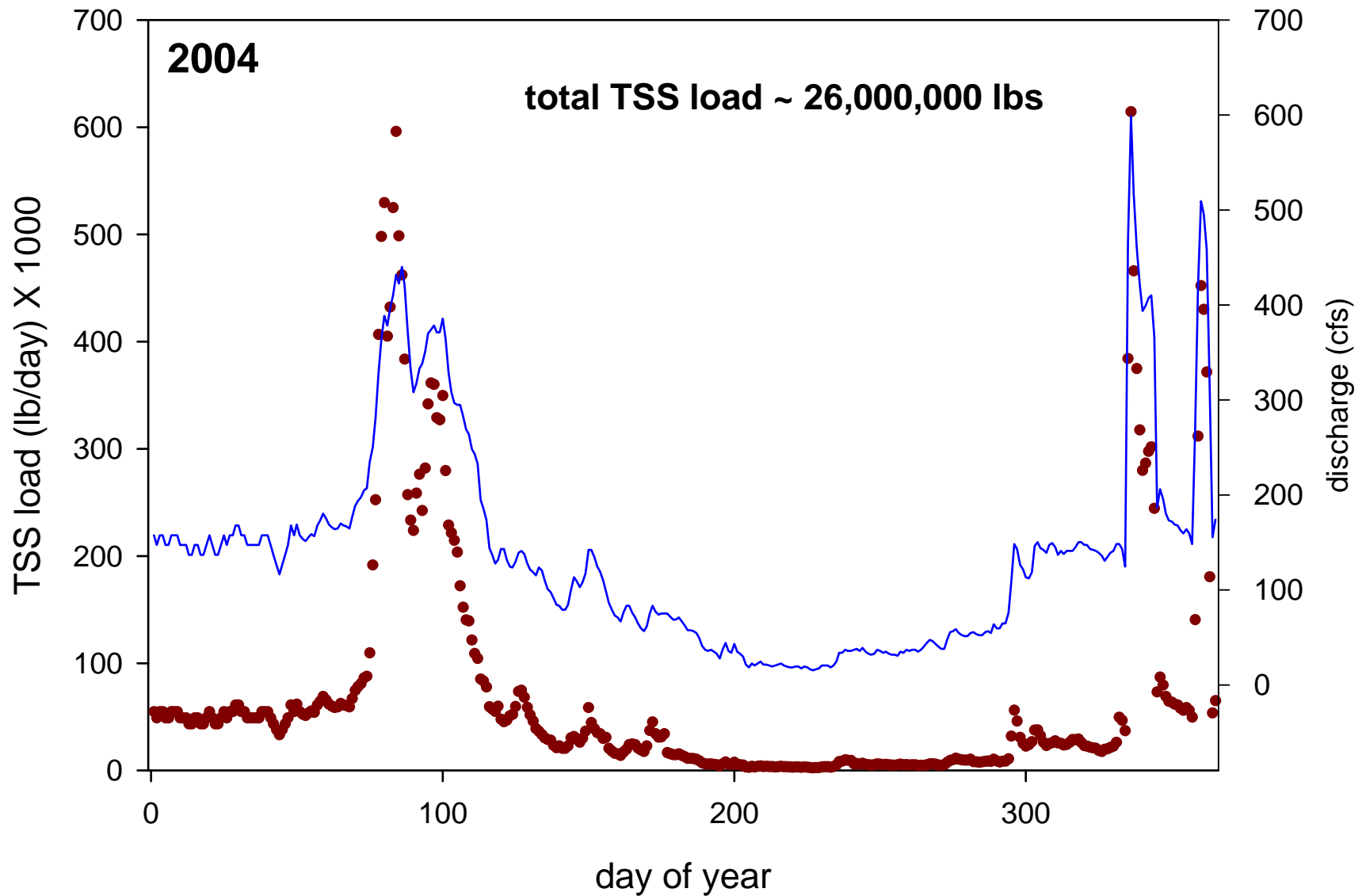
Note: for discussion purposes only

# Portneuf R at Edson Fichter Rating Curve 2006



Note: for discussion purposes only

# Predicted TSS daily load for Portneuf R at Edson Fichter



Note: for discussion purposes only