

SEDIMENT AND NUTRIENT  
CALIBRATION OF PHASE II OF  
THE NON-TIDAL ANACOSTIA  
MODEL

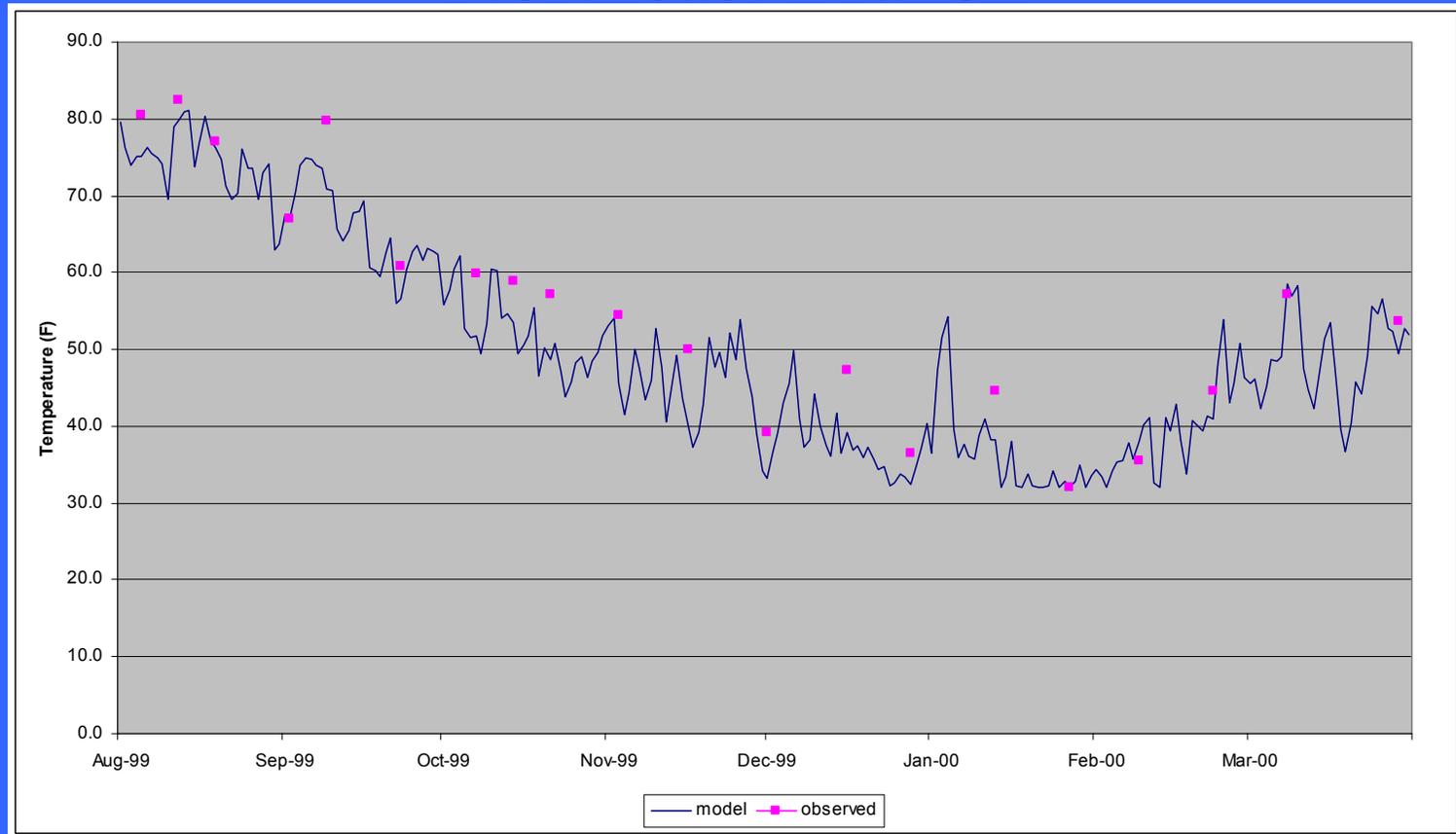
Interstate Commission on the  
Potomac River Basin

July 29, 2003

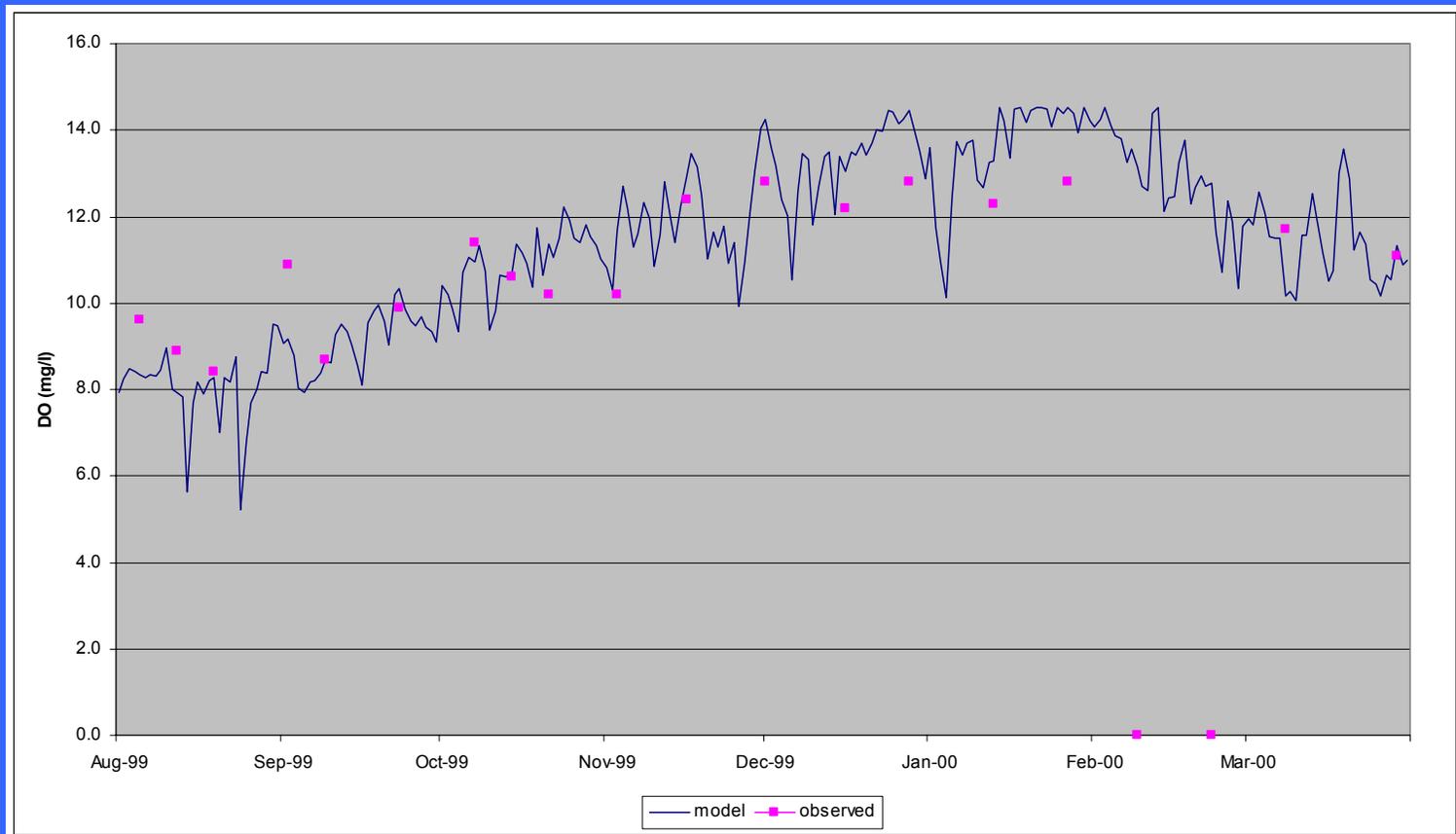
# TARGET STORMWATER CONCENTRATIONS (mg/l)

	Residential	Commercial	Industrial
BOD5	16.85	16.72	16.07
NO3	0.595	0.589	0.728
TKN	1.52	2.81	1.14
TP	0.408	0.193	0.249
TSS	118	123	169

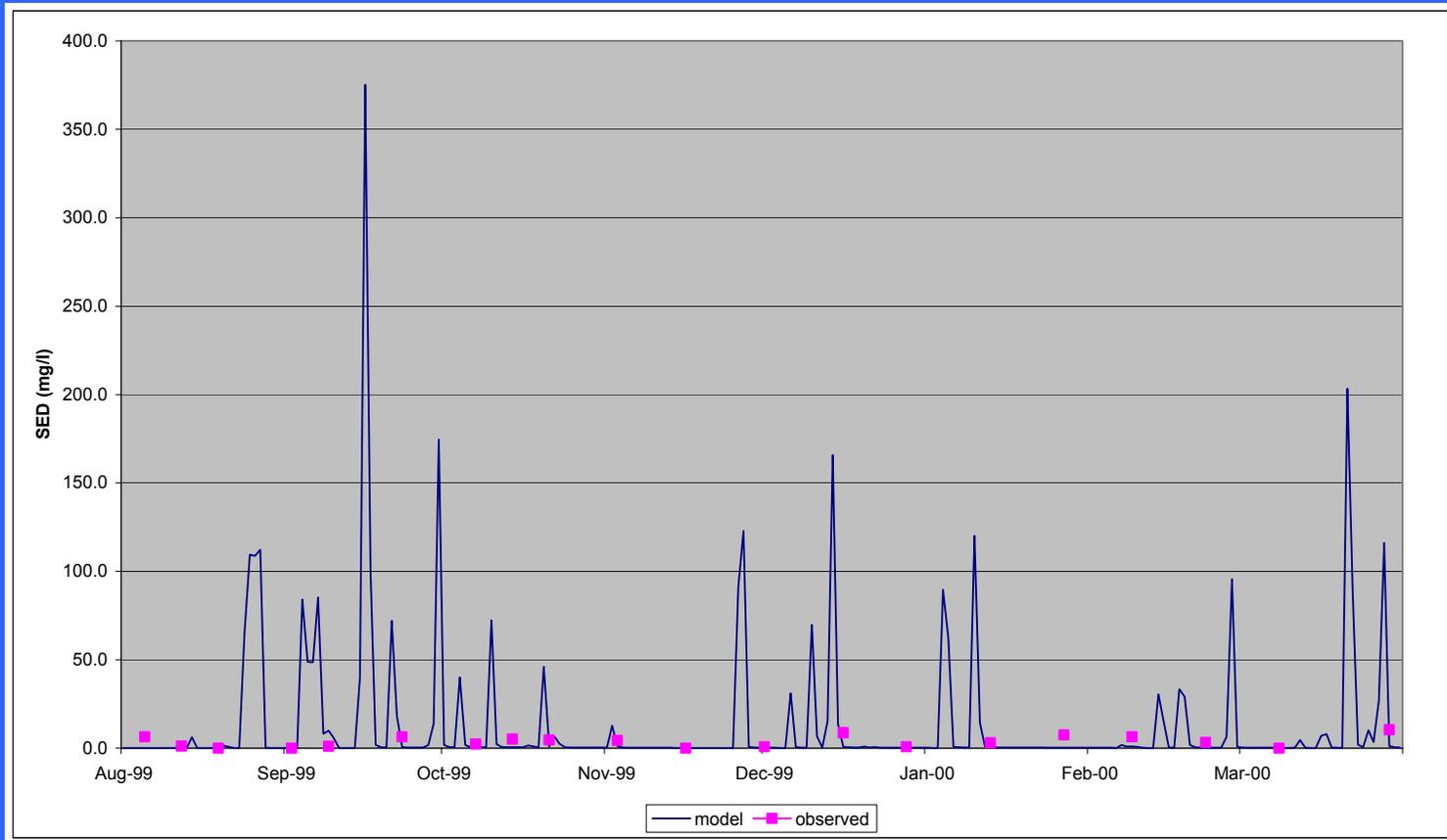
# Simulated and Observed Temperature Northeast Branch



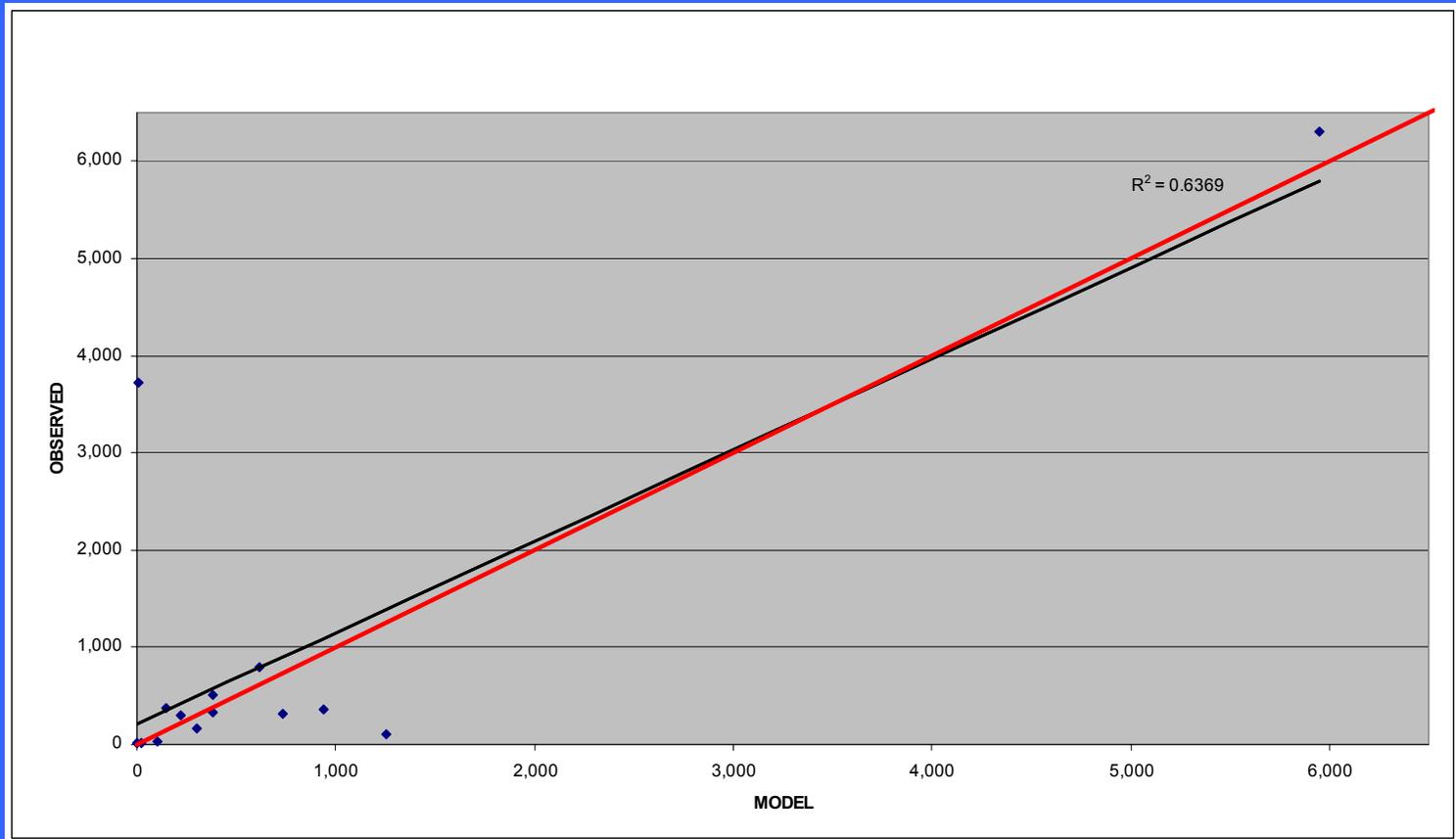
# Simulated and Observed Dissolved Oxygen Northeast Branch



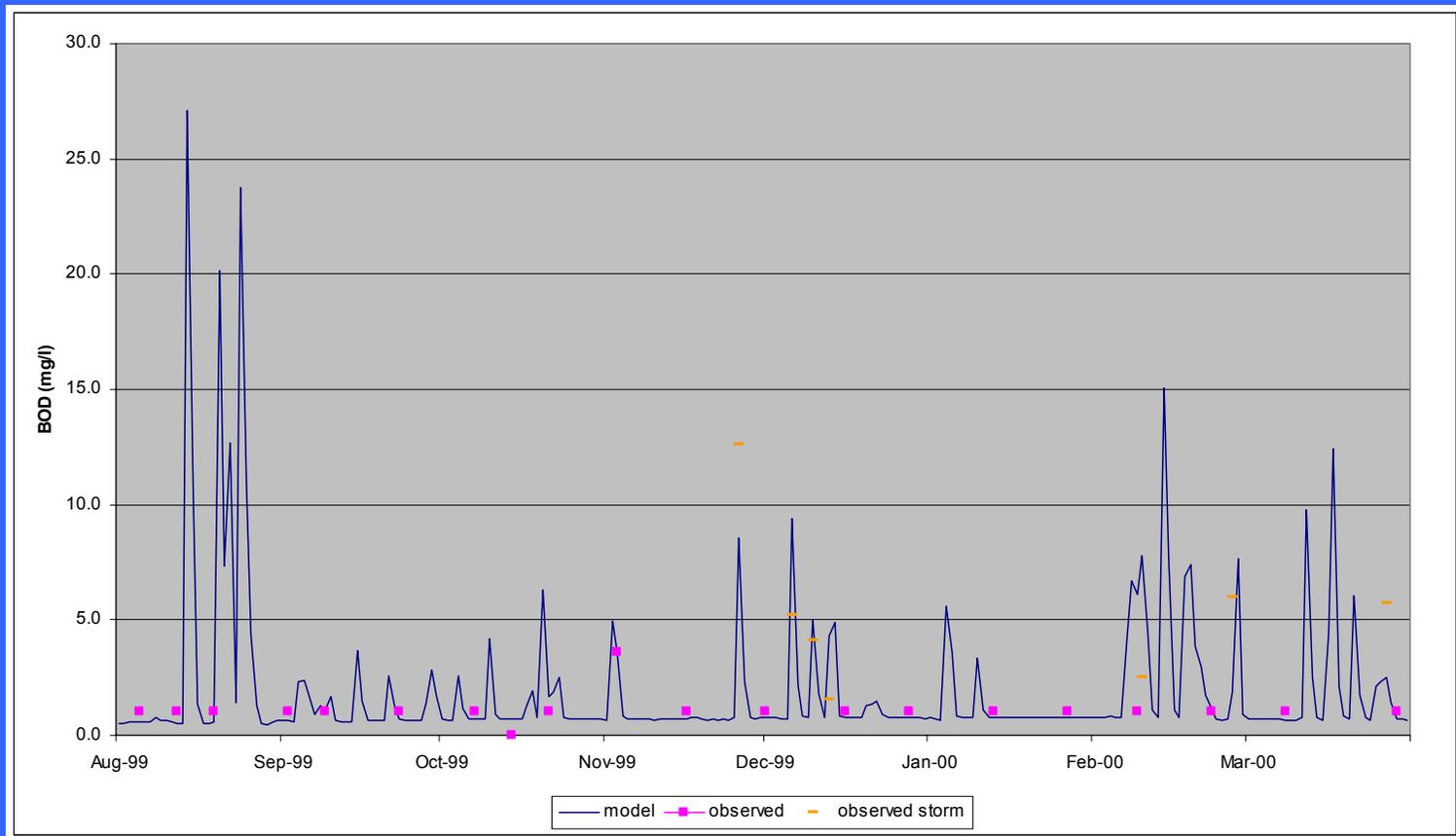
# Simulated and Observed Sediment Northeast Branch



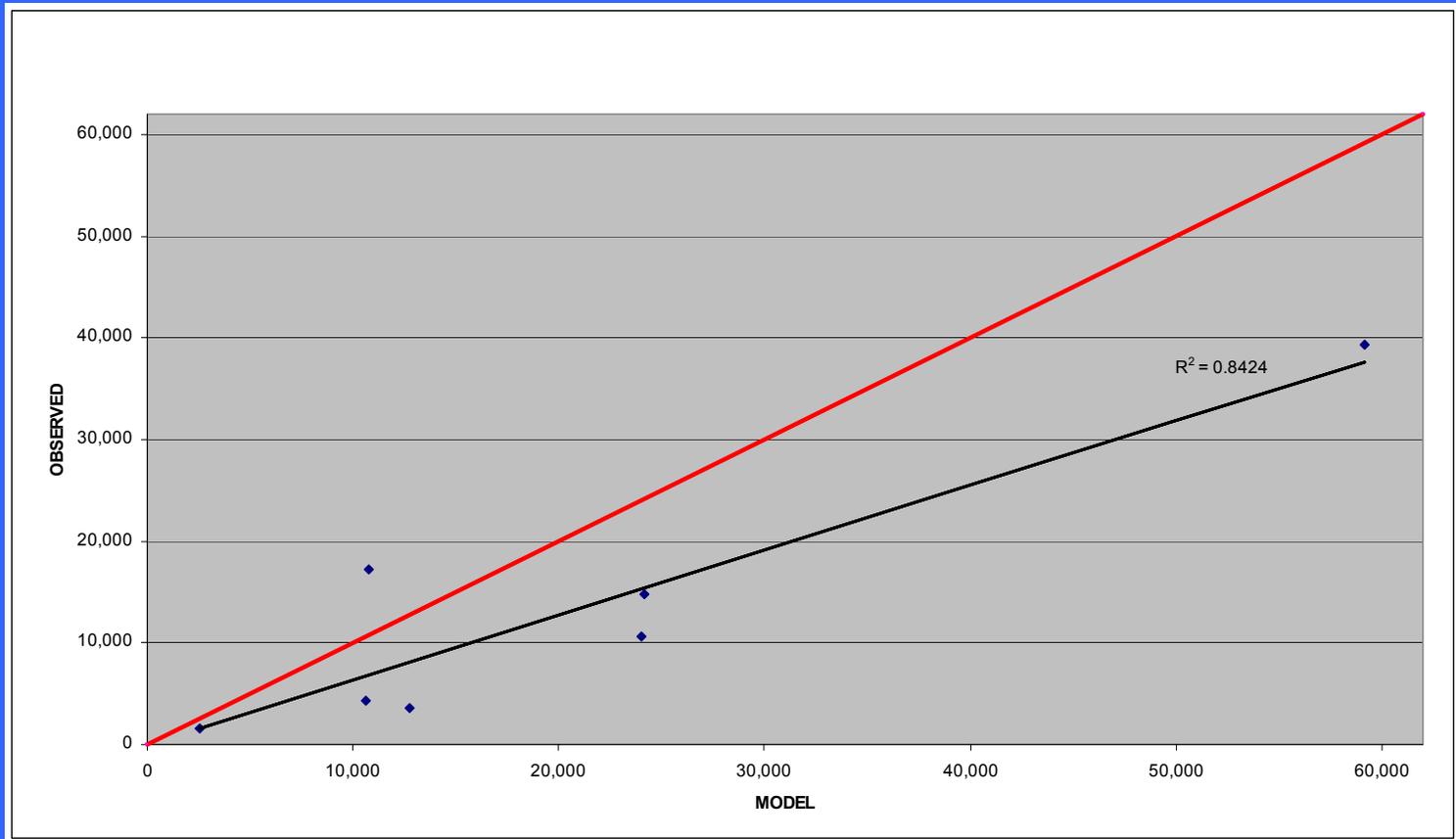
# Sediment Storm Loads (tons) Northeast Branch



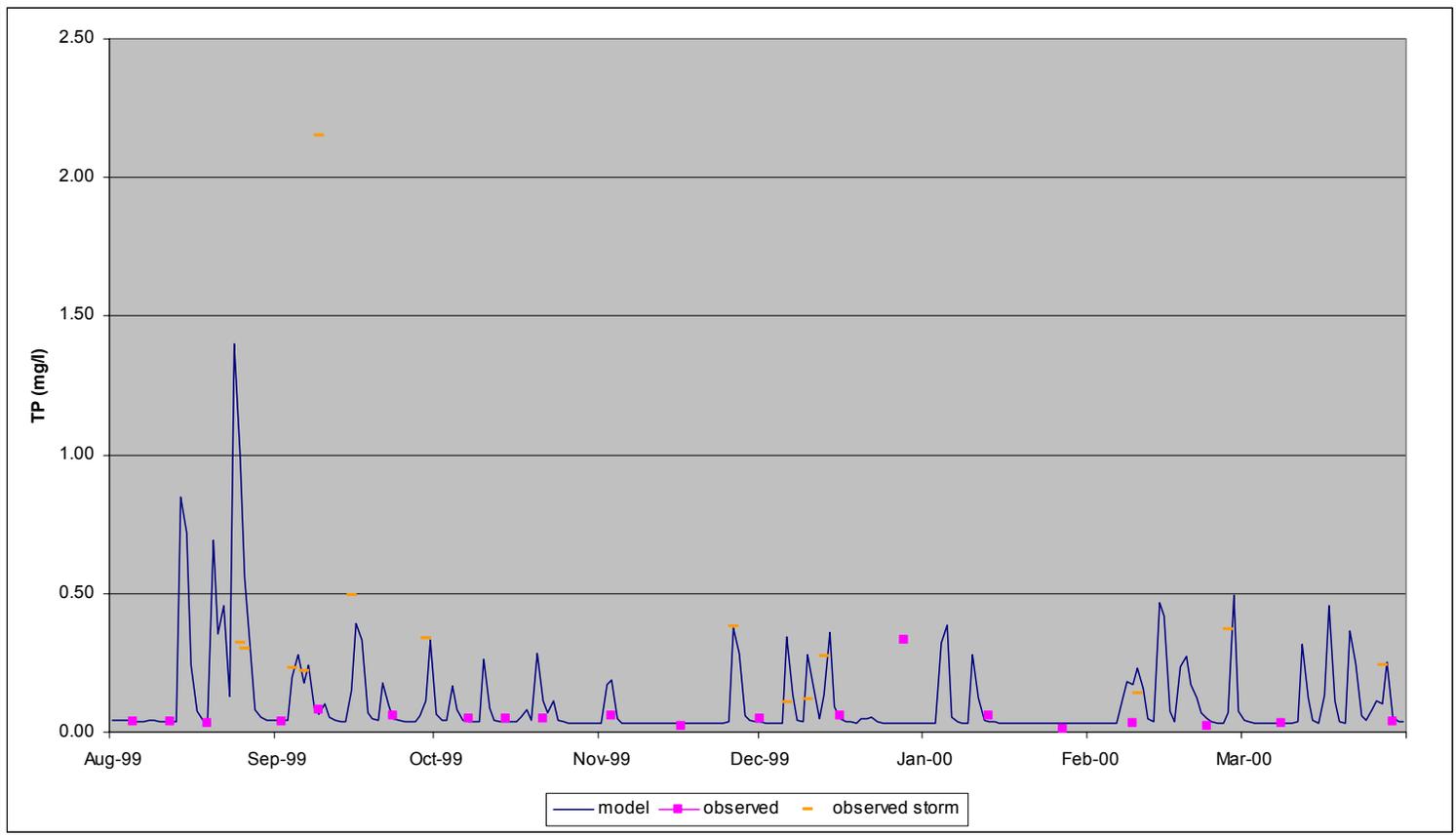
# Simulated and Observed BOD Northeast Branch



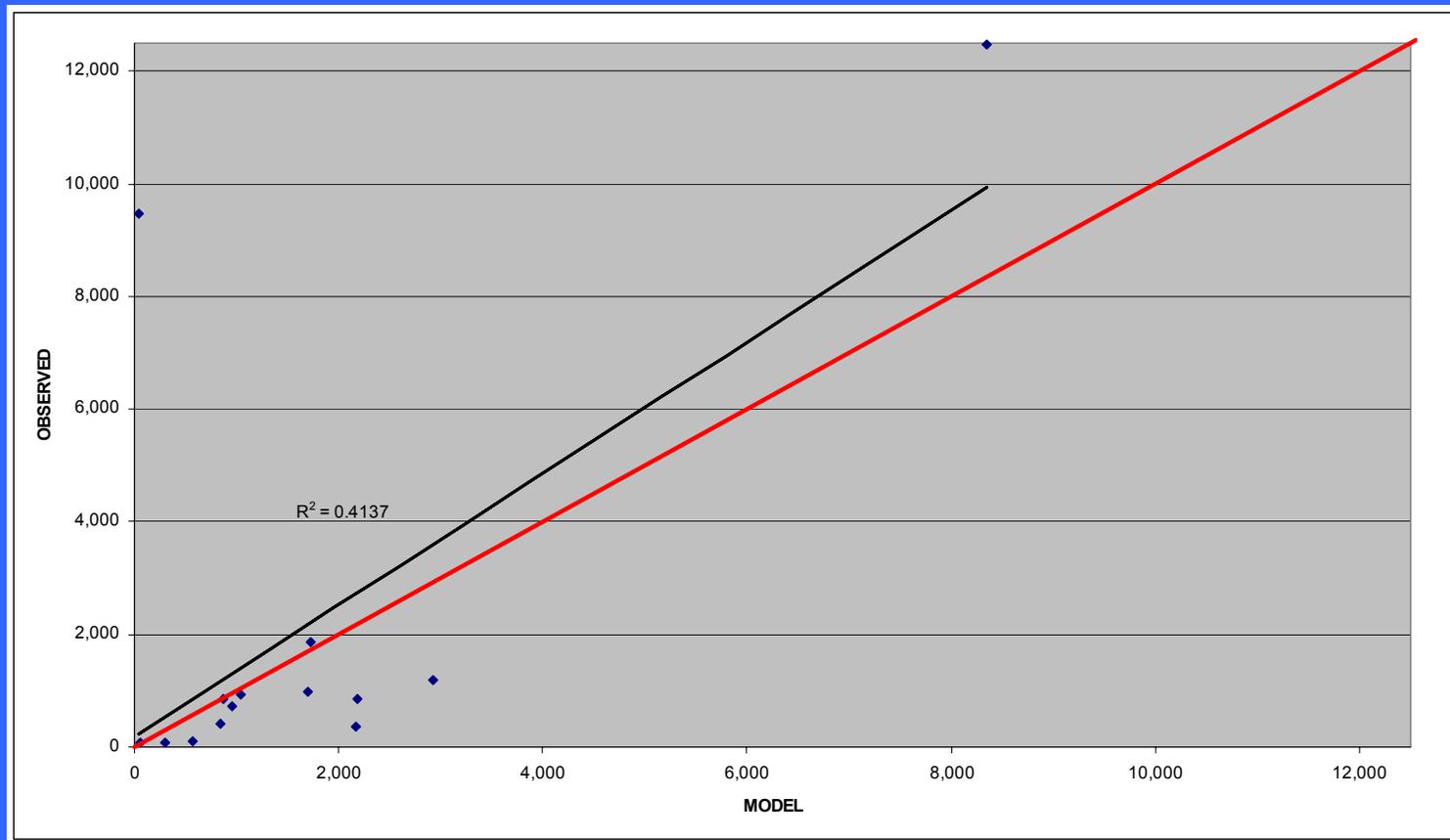
# BOD Storm Loads (lbs) Northeast Branch



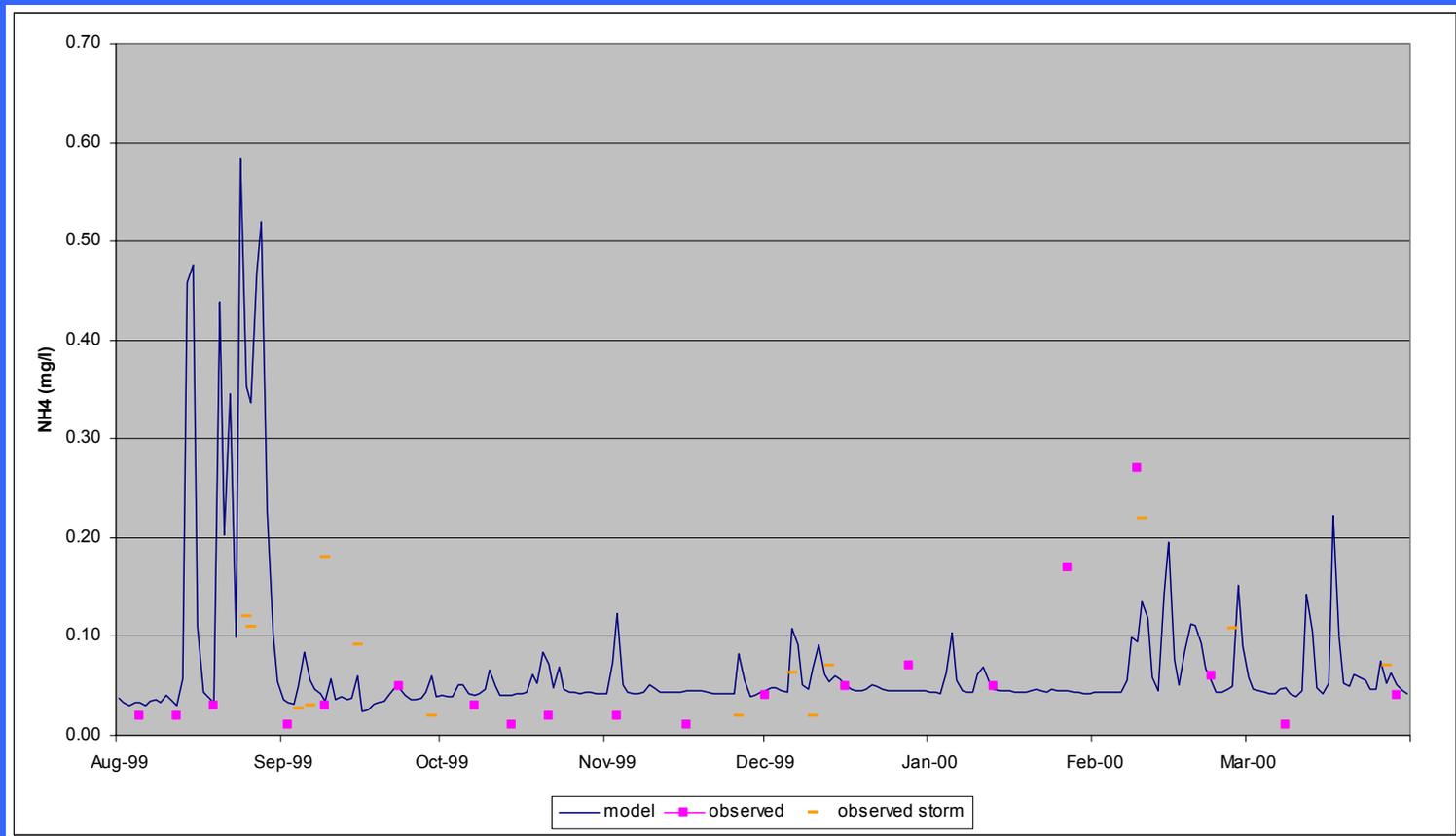
# Simulated and Observed Total Phosphorus Northeast Branch



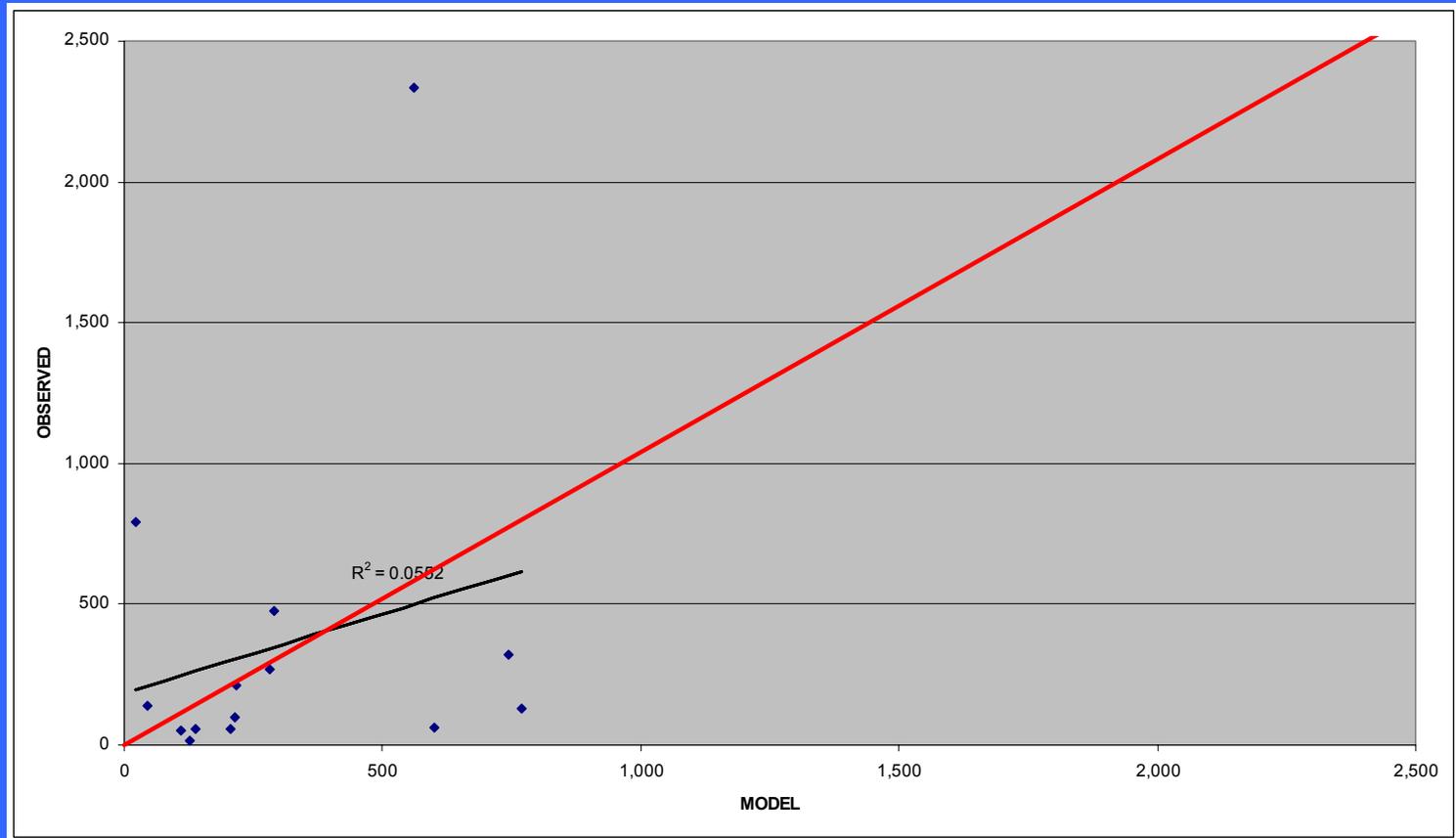
# Total Phosphorus Storm Loads (lbs) Northeast Branch



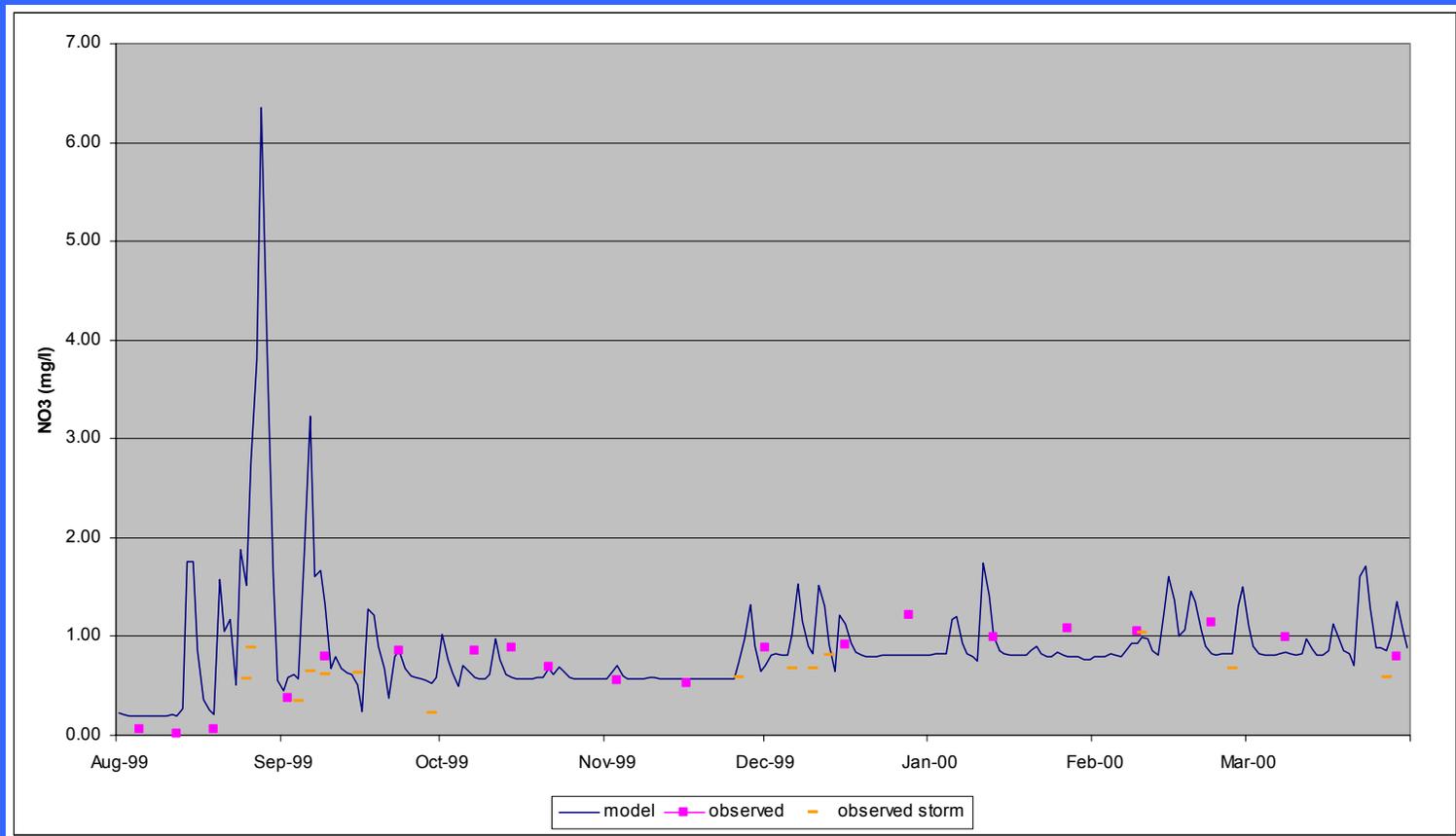
# Simulated and Observed Ammonia Northeast Branch



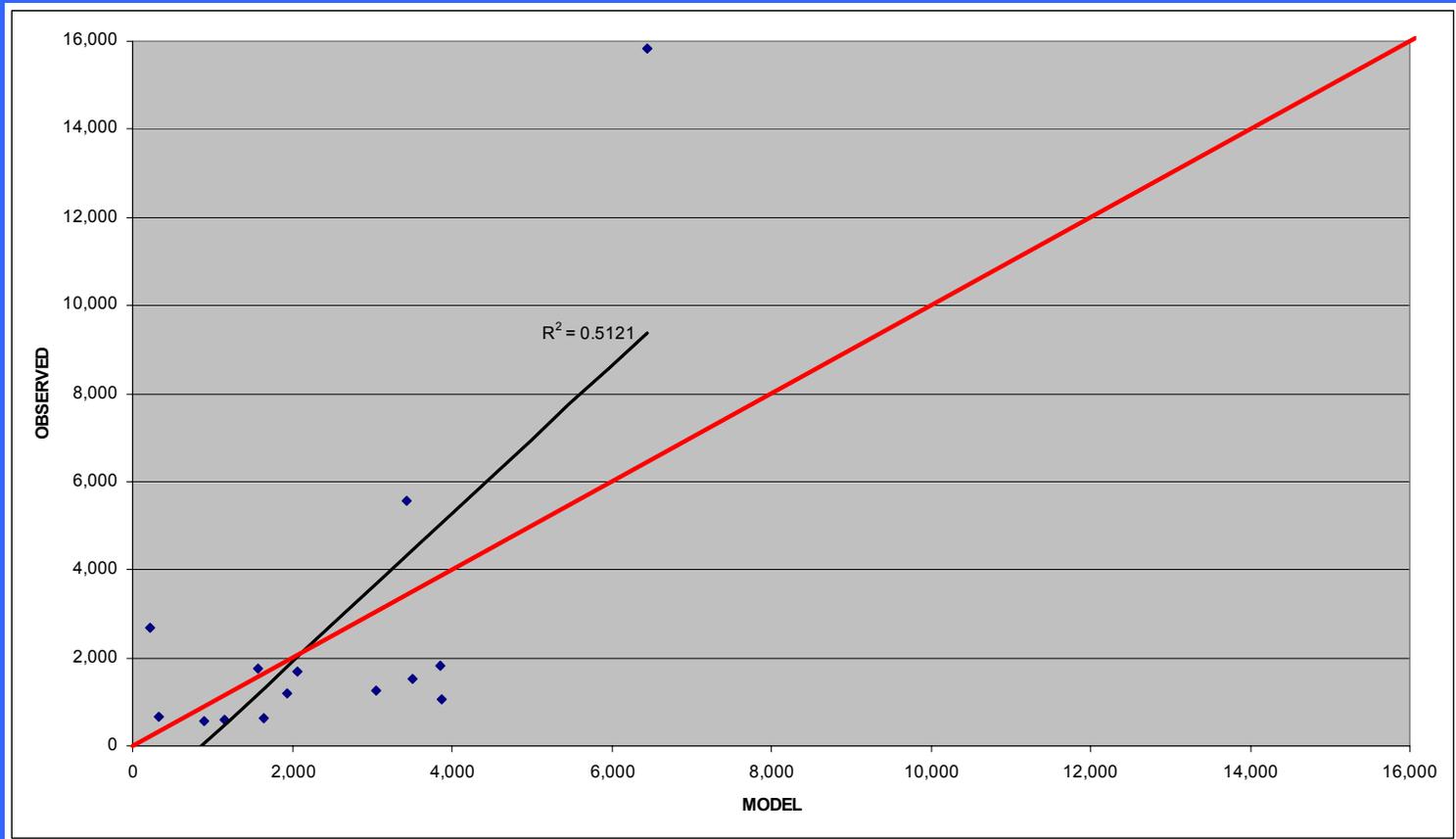
# Ammonia Storm Loads(lbs) Northeast Branch



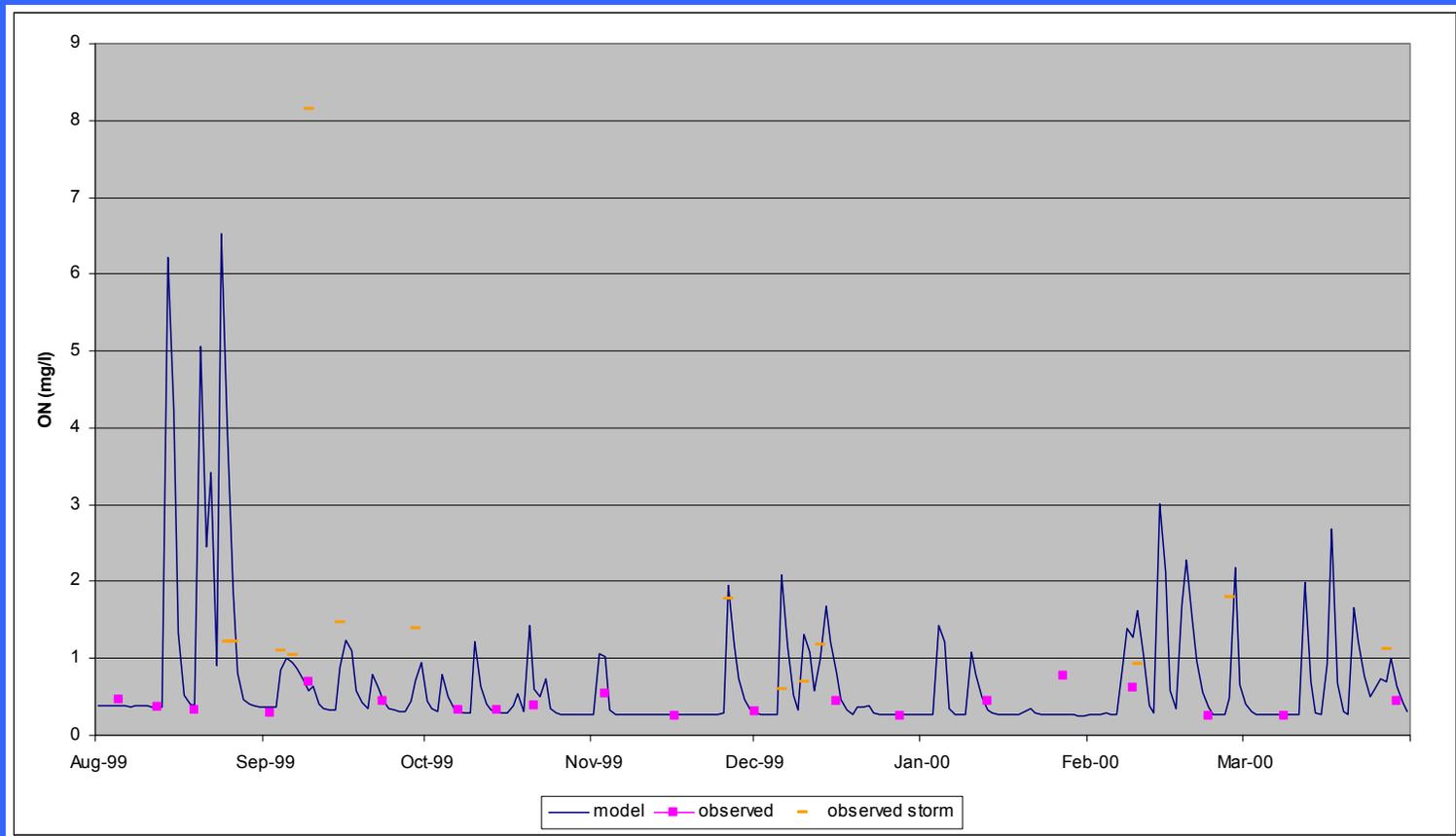
# Simulated and Observed Nitrate Northeast Branch



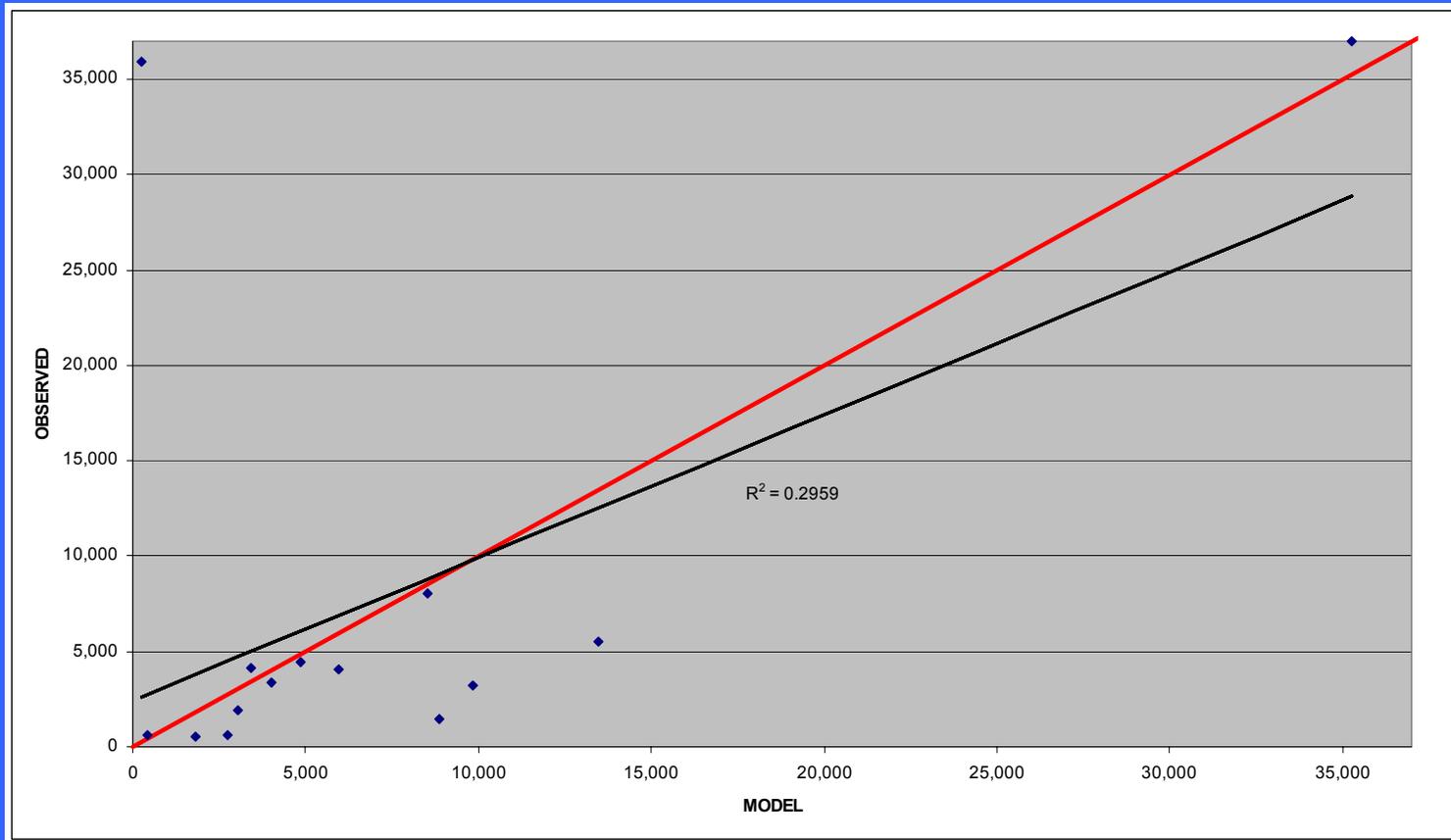
# Nitrate Storm Loads (lbs) Northeast Branch



# Simulated and Observed Organic Nitrogen Northeast Branch



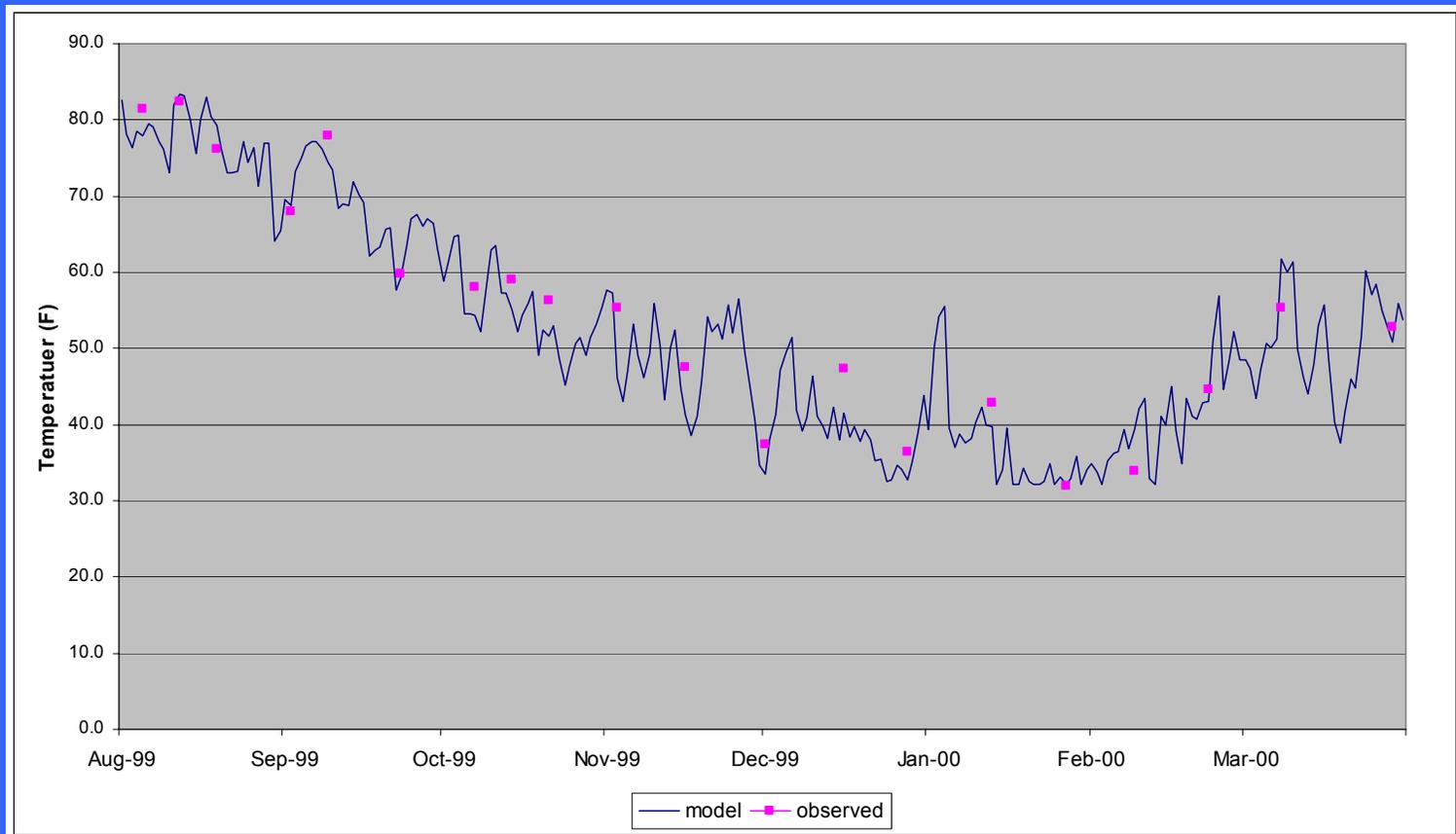
# Organic Nitrogen Storm Loads (lbs) Northeast Branch



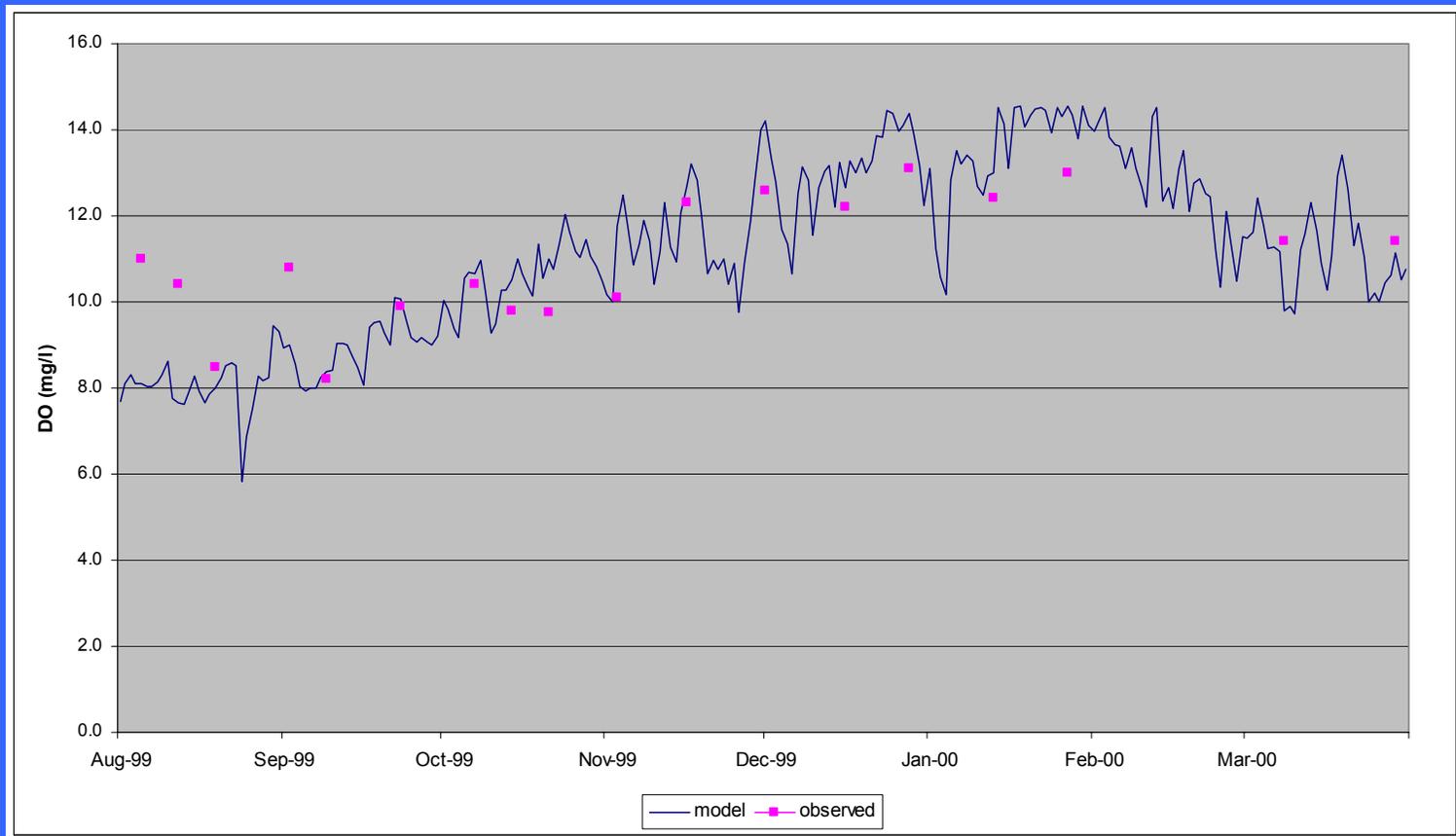
# Northeast Average Annual Loads

<b>LU</b>	<b>SED</b>	<b>BOD</b>	<b>TP</b>	<b>NH4</b>	<b>NO3</b>	<b>ORN</b>
	<b>tons/y</b>	<b>lbs/y</b>	<b>lbs/y</b>	<b>lbs/y</b>	<b>lbs/y</b>	<b>lbs/y</b>
<b>Commercial</b>	1,311	230,339	2,982	994	28,474	42,174
<b>Corn</b>	490	5,341	603	1,623	2,564	1,446
<b>Forest</b>	1,628	51,818	1,887	4,623	38,571	45,977
<b>Hay</b>	26	1,478	202	165	1,348	57
<b>Industrial</b>	617	98,657	1,576	151	7,805	7,789
<b>Low-density R</b>	1,124	249,491	7,035	1,344	40,324	33,498
<b>Medium-high density R</b>	1,681	342,739	9,536	871	29,978	41,479
<b>Pasture</b>	37	970	354	316	340	96
<b>EOS</b>	6,912	980,834	24,176	10,087	149,404	172,515
<b>PS</b>	112	73	71	6	288	31
<b>Instream</b>	7,162	-249,415	21,680	5,937	3,395	55,246
<b>Total</b>	14,186	731,492	45,927	16,030	153,087	227,793

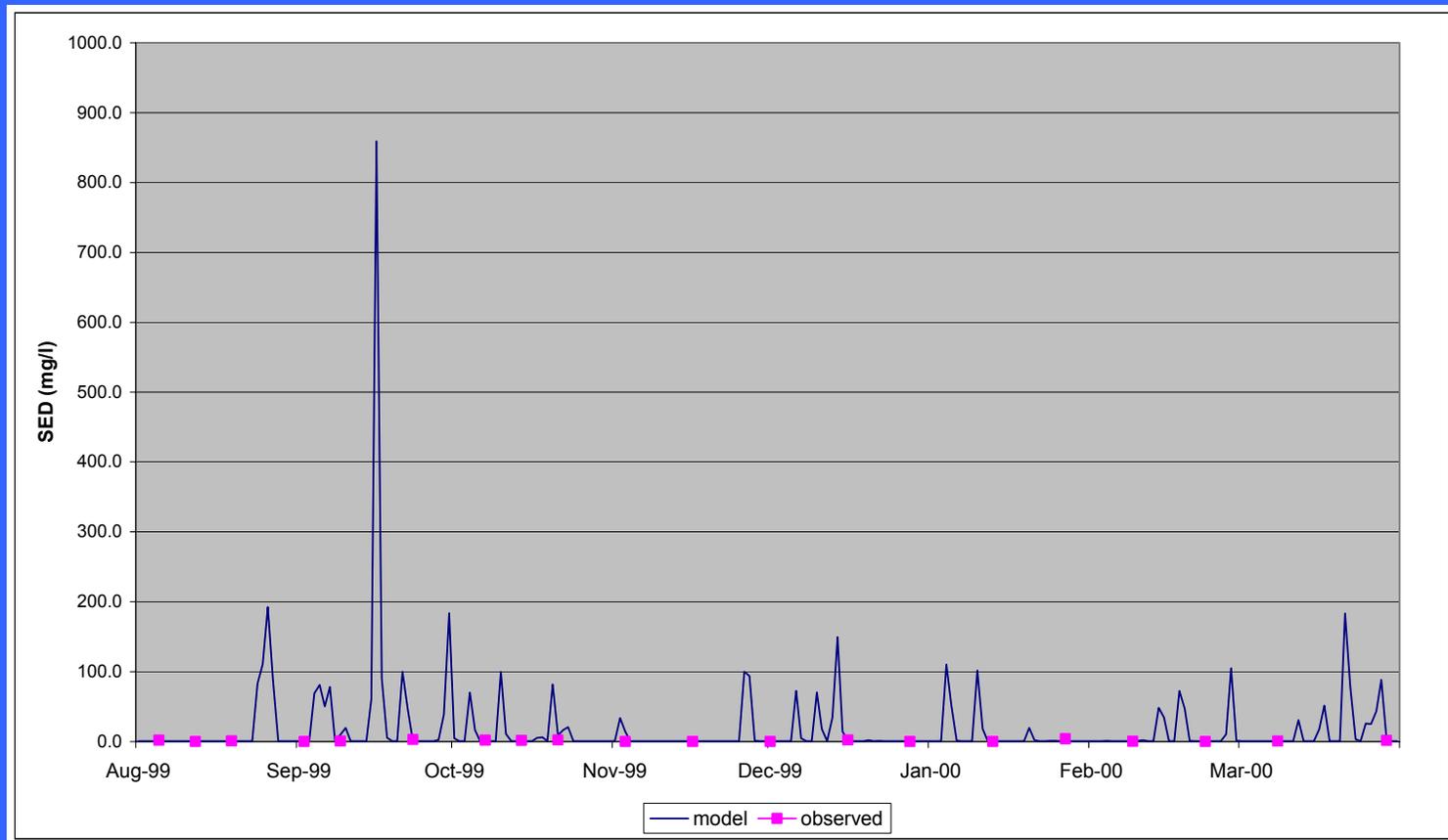
# Simulated and Observed Temperature Northwest Branch



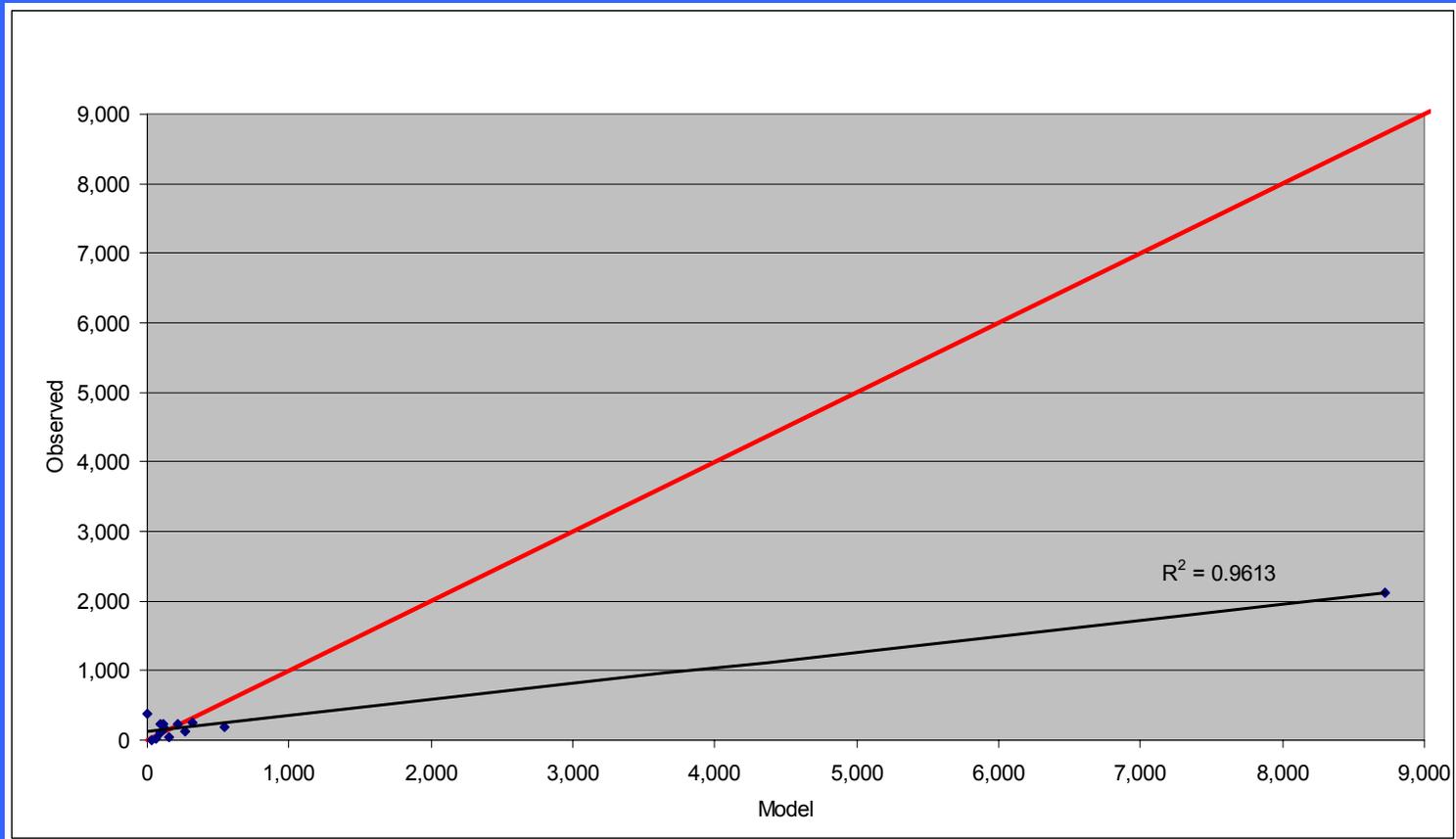
# Simulated and Observed Dissolved Oxygen Northwest Branch



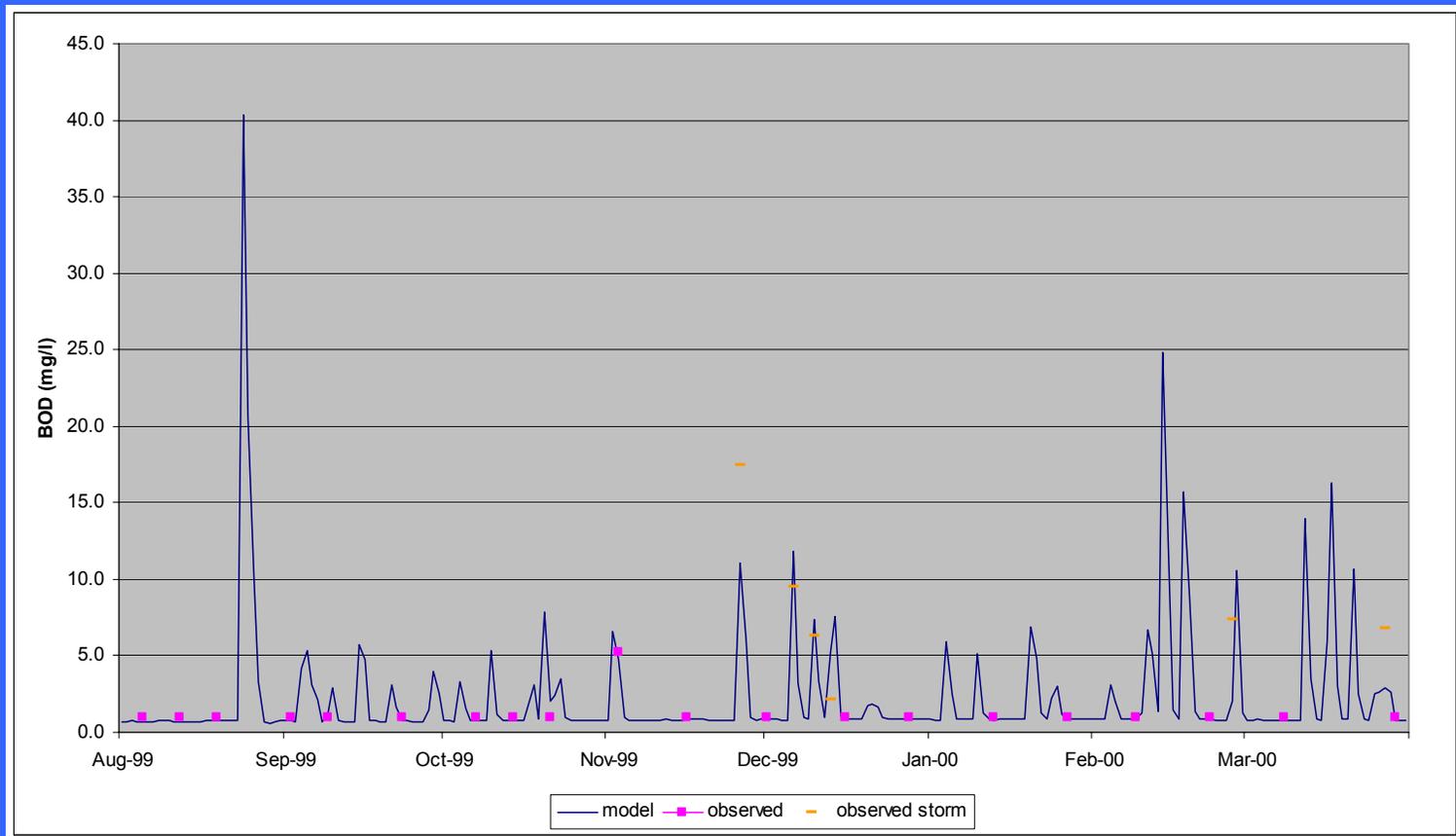
# Simulated and Observed Sediment Northwest Branch



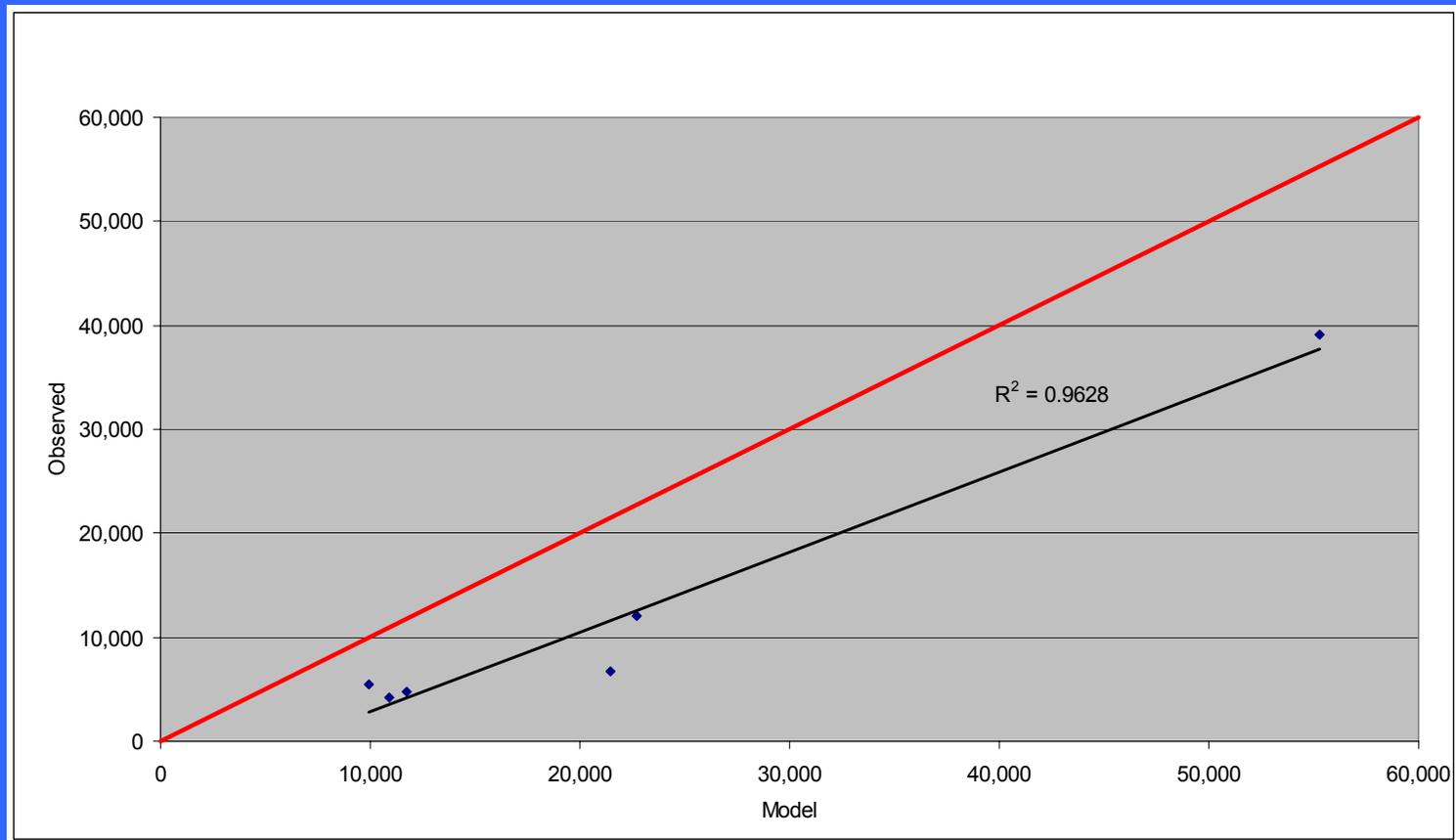
# Sediment Storm Loads(tons) - Northeast Branch



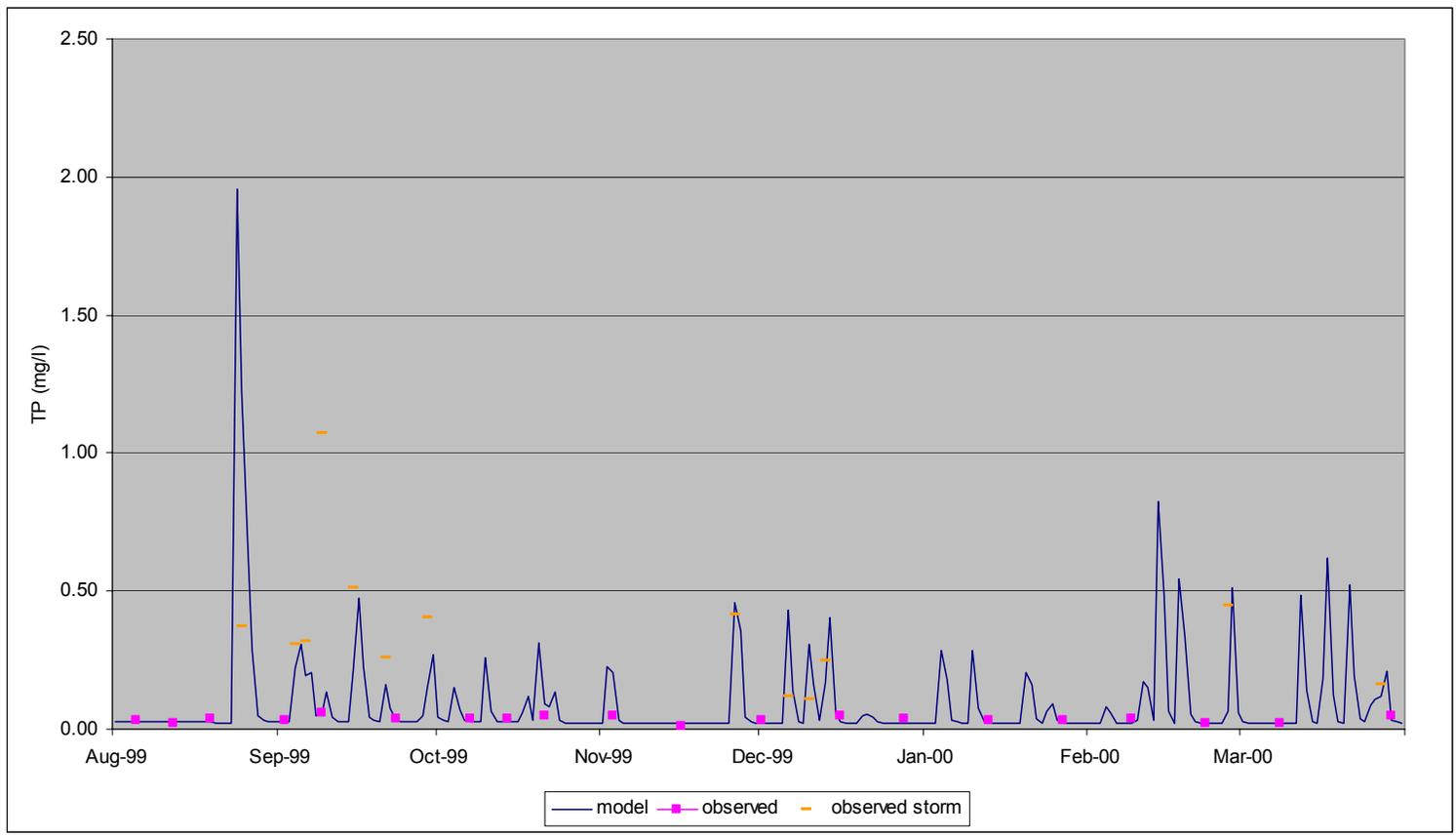
# Simulated and Observed BOD Northwest Branch



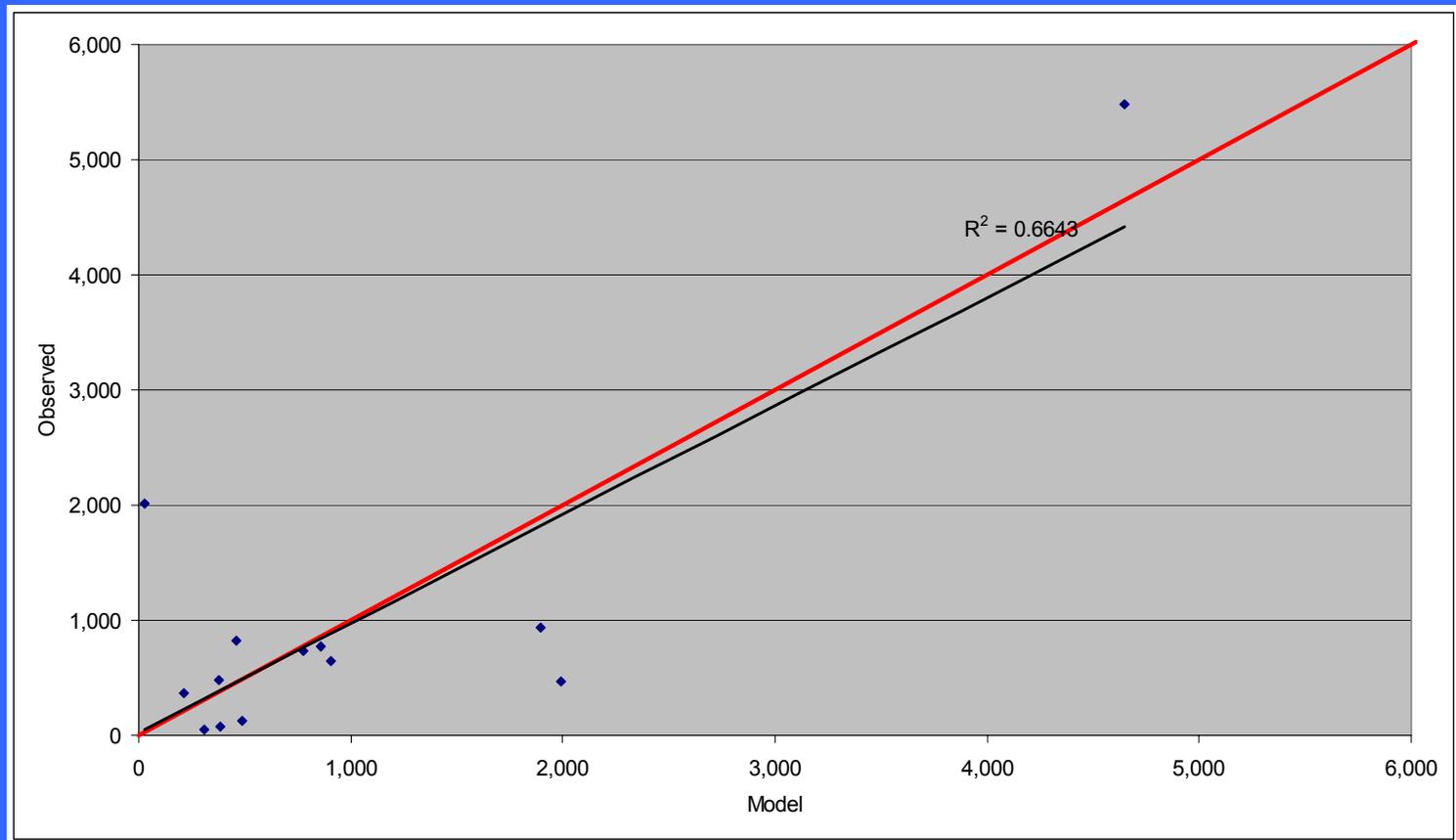
# BOD Storm Loads(lbs) - Northwest Branch



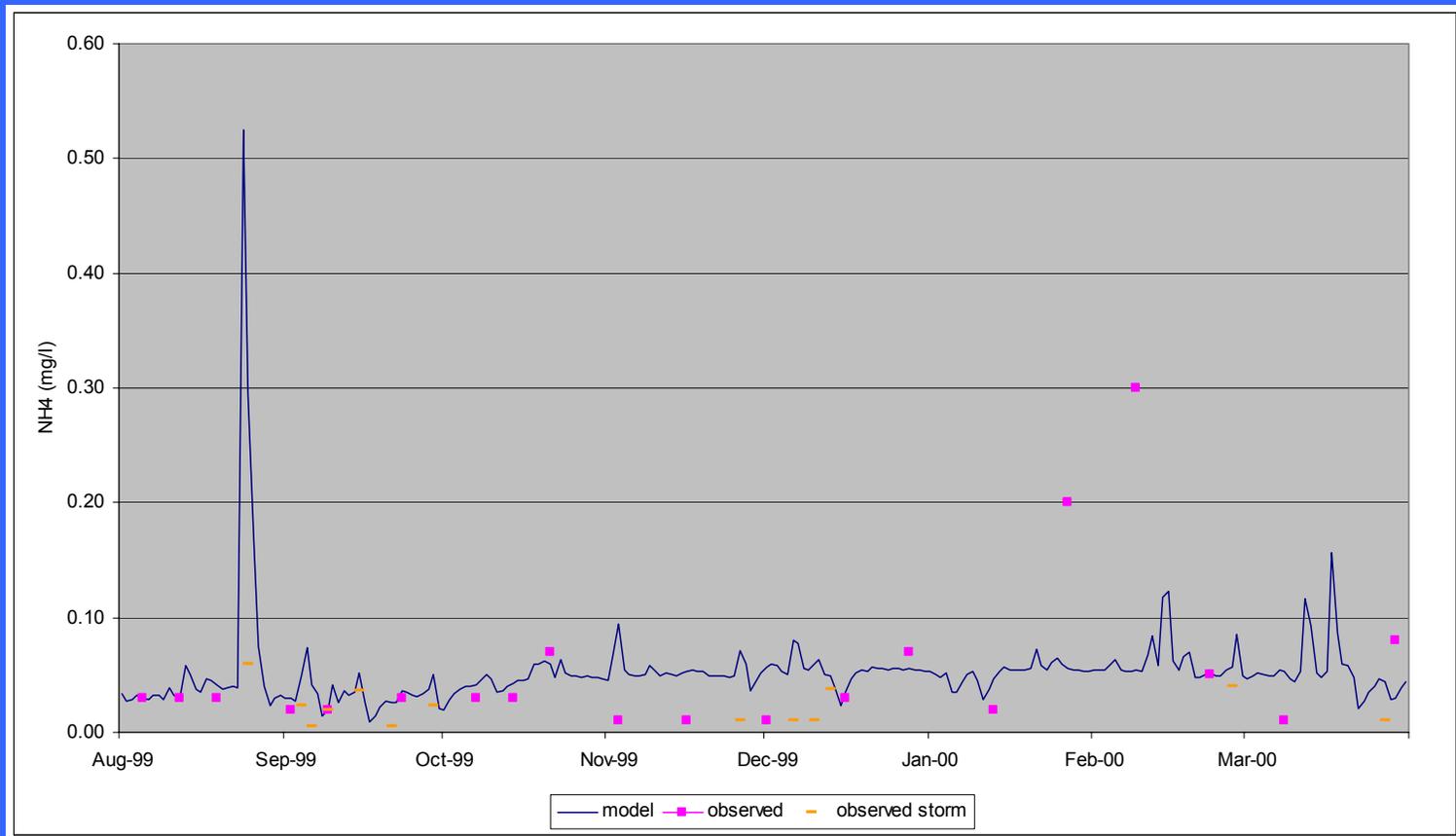
# Simulated and Observed Total Phosphorus Northwest Branch



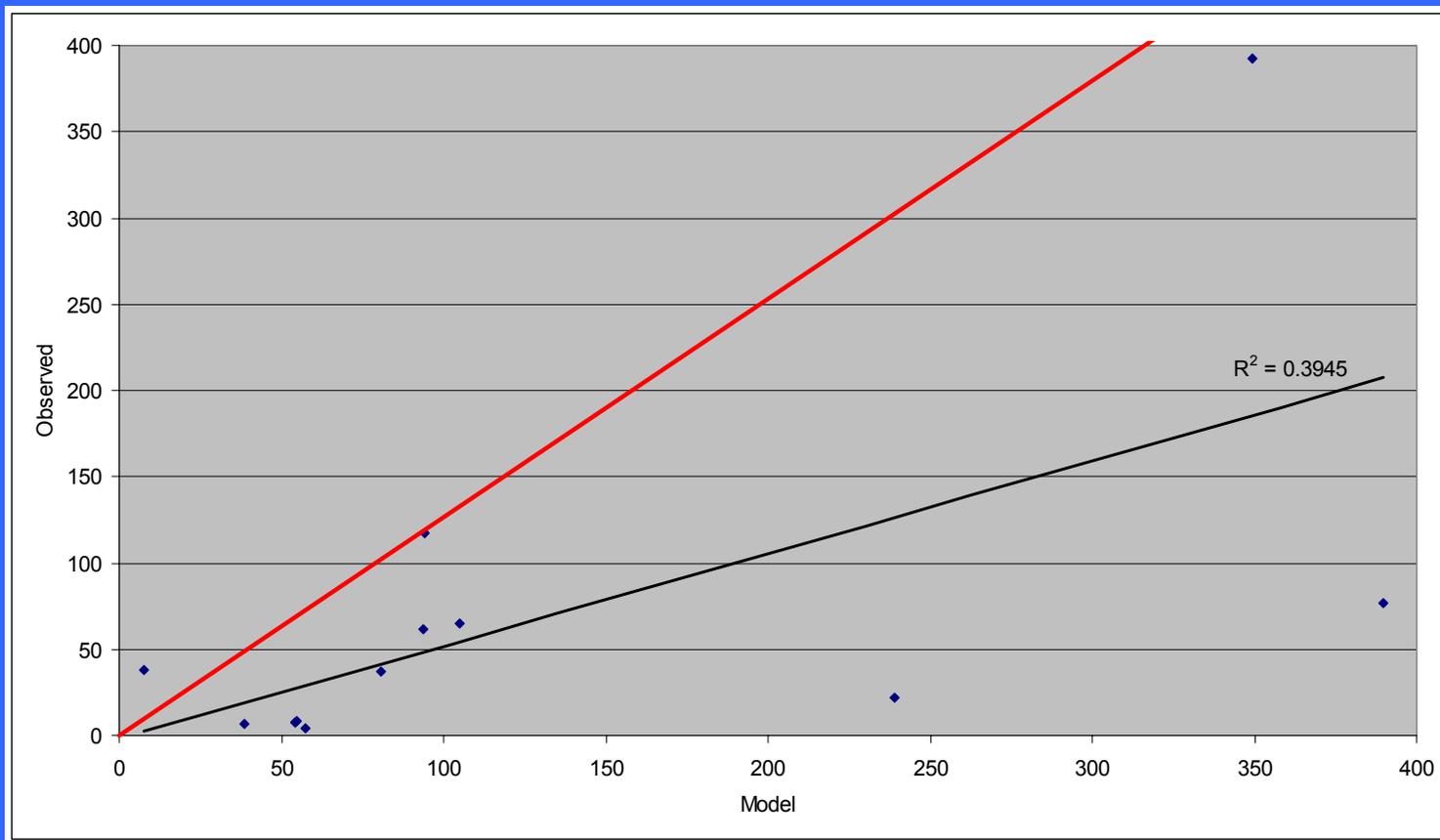
# Total Phosphorus Storm Loads(lbs) Northwest Branch



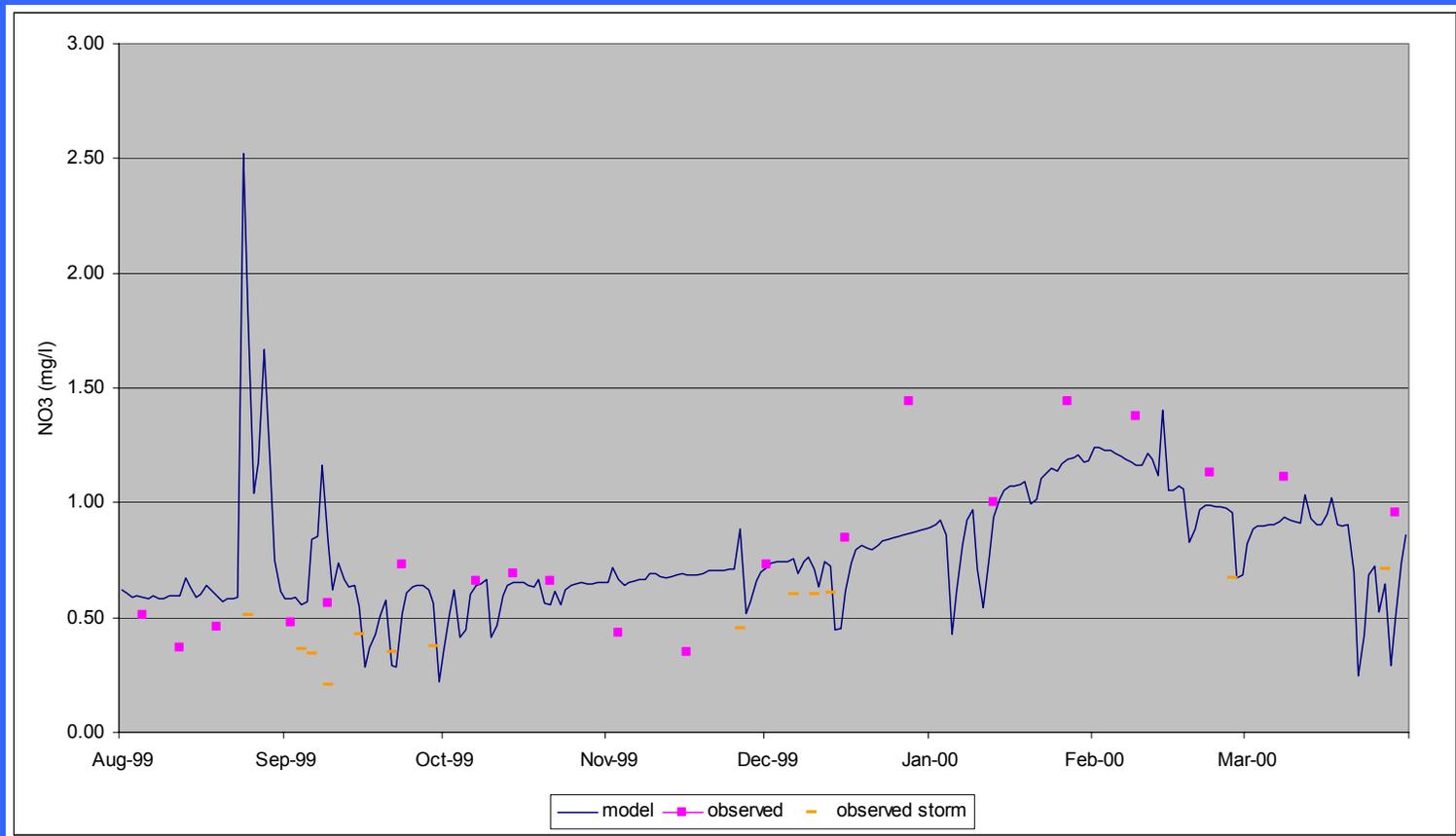
# Simulated and Observed Ammonium Northwest Branch



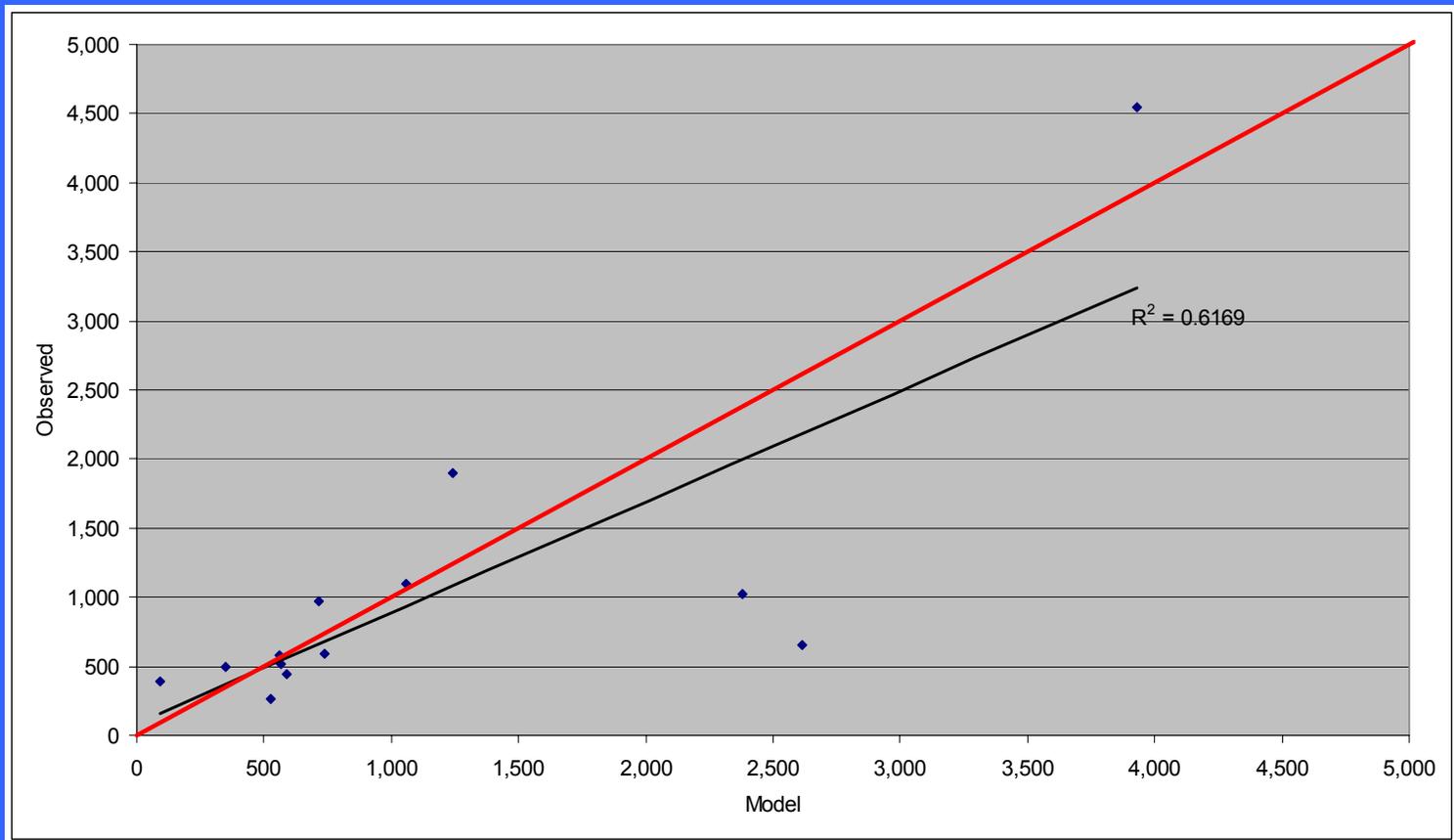
# Ammonium Storm Loads(lbs) Northwest Branch



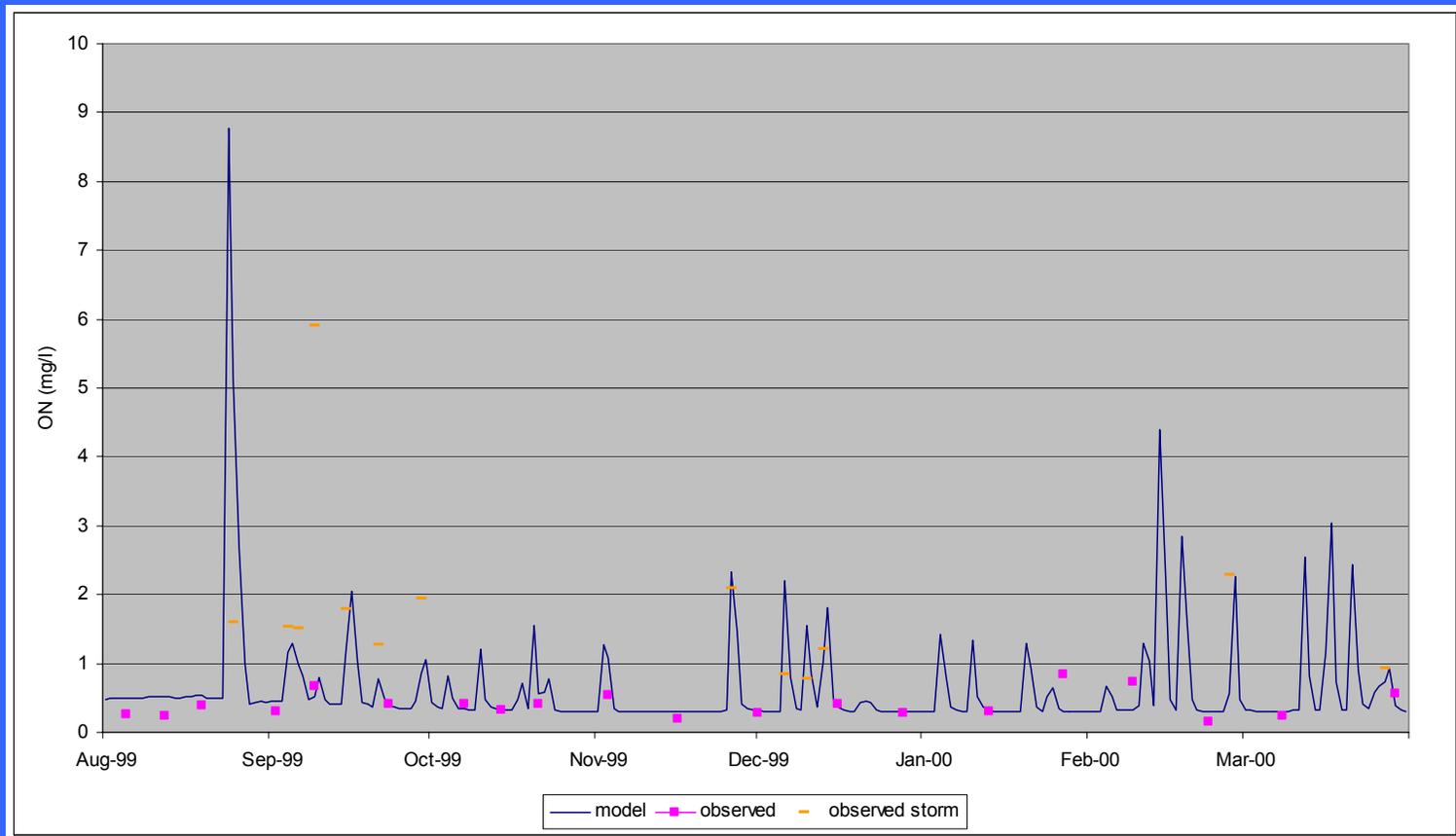
# Simulated and Observed Nitrate Northwest Branch



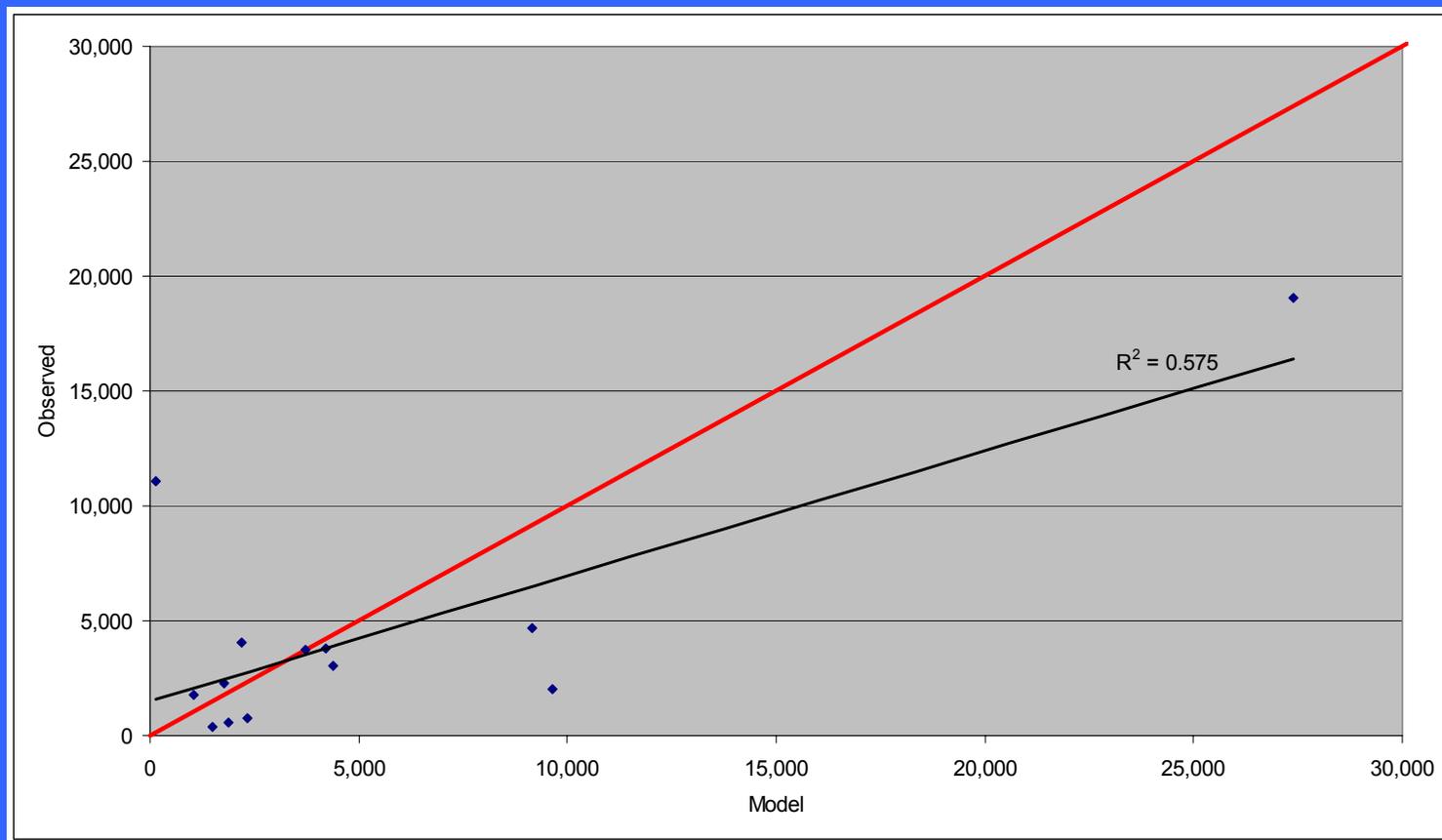
# Nitrate Storm Loads(lbs) Northwest Branch



# Simulated and Observed Organic Nitrogen Northwest Branch



# Organic Nitrogen Storm Loads(lbs) Northwest Branch



## Northwest Average Annual Loads

<b>LU</b>	<b>SED</b>	<b>BOD</b>	<b>TP</b>	<b>NH4</b>	<b>NO3</b>	<b>ORN</b>
	<b>tons/y</b>	<b>lbs/y</b>	<b>lbs/y</b>	<b>lbs/y</b>	<b>lbs/y</b>	<b>lbs/y</b>
<b>Commercial</b>	427	115,581	1,361	209	6,649	19,875
<b>Forest</b>	314	19,484	396	178	4,791	5,780
<b>Industrial</b>	37	6,923	108	8	413	522
<b>Low-densit R</b>	1,781	526,948	14,271	2,420	48,248	65,276
<b>medium/high density R</b>	647	187,752	5,154	405	11,626	21,936
<b>TotaEOS</b>	3,206	856,689	21,290	3,220	71,727	113,389
<b>Instream</b>	7,004	-132,606	7,260	2,802	1,562	36,582
<b>Total</b>	10,211	724,083	28,551	6,022	73,289	149,972

# CONTACTS

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