Table 1. Detection, quantitation, precision and accuracy limits for sediment analyses conducted at the Wisconsin State Lab of Hygiene. Note only a partial list of commonly detected PCB congeners is provided.

Lab Measurement	Limit of Detection	Limit of Quantitation	Precision Limit Rel. % Diff.	Accuracy Limit % Recovery
Total Volatile Solids %	0.1 *	n.a.	15	n.a.
Total Kjeldahl Nitrogen ug/g	230	n.a.	30	70 - 130
Ammonia-N ug/g	0.16	0.64	20	75 - 125
Nitrite+Nitrate-N ug/g	0.25	7.8	20	75 - 125
Total Phosphorus ug/g	9.9	29.7	20	75 - 125
Cadmium (ICP) ug/g	0.1 - 0.4	0.3 - 1.2	20	75 - 125
Chromium (ICP) ug/g	0.4 - 0.5	1.2 - 1.6	20	75 - 125
Copper (ICP) ug/g	0.5 - 0.7	1.6 - 2.4	13	75 -125
Lead (ICP) ug/g	1 - 2	3 - 8	20	82 - 120
Manganese (ICP) ug/g	0.1 - 0.2	0.3 - 0.5	11	75 - 125
Zinc (ICP) ug/g	0.5 - 2	1.6 - 6	16	75 - 125
Mercury ug/g	0.015	0.045	10	85 - 115
Total Organic Carbon %	0.16 - 0.32	n.a.	25.9	70 - 124
PCB congener # 28/31 ng/g	0.40 - 1.4	1.3+	21 - 30	65 - 111
PCB congener # 52 ng/g	0.20 - 0.30	0.64+	19	72 - 107
PCB congener # 101 ng/g	0.25 - 0.30	0.80+	17 - 32	80 - 107
PCB congener # 77/110 ng/g	0.30 - 0.40	0.96+	16 - 34	80 - 108
PCB congener # 138/163 ng/g	0.30 - 0.40	0.96+	45	80 - 112

* Report limit
n.a. Not available
\+ Recent limit

Table 2. Spearman rank correlations of chemical measurements versus year, river flow, total organic carbon (TOC) and total volatile solids (TVS) for suspended sediment samples collected at Locks and Dams 3 and 4 on the Mississippi River.

	Lock and Dam 3 - Red Wing, MN				Lock and Dam 4 - Alma, WI			
Vairiable	**Year**	**Flow**	**TOC**	**TVS**	**Year**	**Flow**	**TOC**	**TVS**
Flow	0.190		-0.379 *	-0.549 *	0.225		-0.540 *	-0.833 *
TVS	-0.221	-0.549 *	0.203		-0.180	-0.833 *	0.556 *	
TOC	0.002	-0.379 *		-0.203	0.122	-0.540 *		0.556 *
TSS	0.241	0.454 *	-0.354 *	-0.562 *				
Sed. Rate	0.261	0.890 *	-0.371 *	-0.460 *	0.302	0.673 *	-0.303	-0.490 *
Cd	-0.466 *	-0.156	-0.129	0.228	-0.553 *	-0.096	-0.155	0.120
Cd/TOC	-0.317	0.109	-0.325	0.065	-0.469 *	0.170	-0.540 *	-0.121
Cd/TVS	-0.414 *	-0.074	0.058	0.072	-0.418 *	0.225	-0.386 *	-0.214
Cd/Mn	-0.405 *	0.179	-0.115	0.005	-0.346	0.477 *	-0.397 *	-0.417
Cr	-0.211	-0.263	-0.197	0.084	-0.269	-0.315	0.444	0.394
Cr/TOC	-0.300	-0.012	-0.610 *	0.057	-0.532 *	0.277	-0.495 *	-0.364
Cr/TVS	-0.131	0.022	-0.244	-0.507 *	0.039	0.739 *	-0.598 *	-0.740 *
Cr/Mn	-0.217	0.480 *	-0.304	-0.495 *	-0.076	0.914 *	-0.800 *	-0.841 *
Cu	-0.523 *	-0.490 *	0.355 *	0.652 *	-0.488 *	-0.252	-0.160	0.335
Cu/TOC	-0.174	0.091	0.716 *	0.173	-0.264	0.224	-0.812 *	-0.212
Cu/TVS	-0.426 *	0.023	0.112	-0.243	-0.107	0.428 *	-0.668 *	-0.556 *
Cu/Mn	-0.324 *	0.444 *	-0.296	-0.195	-0.007	0.778 *	-0.654 *	-0.679 *
Pb	-0.461 *	-0.486 *	0.457 *	0.506 *	-0.258	-0.456 *	0.280	0.386 *
Pb/TOC	-0.324 *	-0.127	-0.115	0.293	-0.218	0.046	-0.490 *	-0.067
Pb/TVS	-0.415 *	-0.258	0.426 *	0.100	-0.095	0.168	-0.107	-0.307
Pb/Mn	-0.387 *	0.178	0.097	-0.017	-0.054	0.599 *	-0.341	-0.628 *
Mn	0.040	-0.714 *	0.335 *	0.598 *	-0.100	-0.853 *	0.529 *	0.824 *
Mn/TOC	0.197	-0.369 *	-0.453 *	0.344 *	-0.065	-0.648 *	0.062	0.588 *
Mn/TVS	-0.073	-0.612 *	0.283	0.208	0.063	-0.667 *	0.404 *	0.540 *
Hg	-0.680 *	-0.516 *	-0.010	0.347 *	-0.642 *	-0.468 *	0.067	0.606 *
Hg/TOC	-0.552 *	-0.105	-0.555 *	0.123	-0.776 *	0.018	0.562 *	0.058
Hg/TVS	-0.684 *	-0.268	-0.124	-0.042	-0.708 *	0.202	-0.469 *	-0.145
Hg/Mn	-0.625 *	0.212	-0.312	-0.018	-0.335	0.702 *	-0.527 *	-0.506 *
Zn	-0.215	-0.618 *	0.339 *	0.726 *	-0.440 *	-0.660 *	0.326	0.746 *
Zn/TOC	0.013	-0.108	-0.634 *	0.363 *	-0.292	0.179	-0.826 *	-0.015
Zn/TVS	-0.094	-0.099	0.119	-0.200	0.064	0.670 *	-0.456 *	-0.793 *
Zn/Mn	-0.025	0.574 *	-0.183	-0.291	-0.034	0.808 *	-0.498 *	-0.707 *
NHx	-0.401 *	0.001	-0.014	0.031	-0.117	-0.304	0.285	0.414
NHx/TOC	-0.430 *	0.071	-0.138	-0.060	-0.168	-0.277	0.217	0.291
NHx/TVS	-0.437 *	0.048	-0.079	-0.116	-0.094	-0.172	0.136	0.252
NHx/Mn	-0.487 *	0.138	-0.120	-0.087	-0.082	0.294	-0.237	-0.204
TKN	-0.276	0.010	0.061	0.385 *	-0.001	-0.793 *	0.598 *	0.724 *
TKN/TOC	-0.322	0.173	-0.281	0.150	-0.391	-0.494 *	0.158	0.357
TKN/TVS	-0.380	0.096	-0.160	-0.134	-0.155	-0.311	0.152	0.177
TKN/Mn	-0.438	0.494 *	-0.262	-0.022	-0.284	0.427	0.611 *	-0.584 *
TP	-0.688 *	-0.169	0.049	0.115	-0.282	-0.566 *	0.301	0.405
TP/TOC	-0.717 *	0.013	-0.357	-0.096	-0.714 *	0.030	-0.448	-0.252
TP/TVS	-0.714 *	0.083	-0.141	-0.528 *	-0.653 *	0.110	-0.462 *	-0.311
TP/Mn	-0.710 *	0.457 *	-0.197	-0.374	-0.419	0.544 *	-0.752 *	-0.747 *
PCBs	-0.677 *	-0.614 *	0.291	0.511 *	-0.792 *	-0.533 *	0.004	0.406 *
PCBs/TOC	-0.613 *	-0.308	-0.227	0.308	-0.785 *	-0.314	0.300	0.206
PCBs/TVS	-0.736 *	-0.472 *	0.213	0.236	-0.818 *	-0.292	-0.180	0.166
PCBs/Mn	-0.778 *	-0.136	0.030	0.121	-0.728 *	0.053	-0.328	-0.081

* Significant at $P \leq 0.05$

Table 3. Temporal changes in average suspended sediment consituents over two time periods (spring and fall) at Locks and Dams 3 and 4 on the Mississippi River. Significant differences between periods were evaluated using a Kruskal-Wallis AOV.

		Lock & Dam 3					Lock & Dam 4				
		1987-1995		1997-2005		%		1987-1995		1997-2005		%
Season	**Variable**	**N**	**Avg.**	**N**	**Avg.**	**Change**	**Variable**	**N**	**Avg.**	**N**	**Avg.**	**Change**
Spring	Flow	8	35953	9	45760	27.3	Flow	8	54840	7	71116	29.7
	TSS mg/L	8	38.4	8	41.2	7.3	TSS mg/L					
	Sed. Rate cm/d	8	0.12	8	0.14	16.7	Sed. Rate cm/d	8	**0.09**	7	**0.13**	**44.4**
	TOC %	8	2.84	9	2.94	3.5	TOC %	8	3.32	7	3.58	7.8
	TVS %	8	7.66	9	7.52	-1.8	TVS %	8	9.22	7	8.56	-7.2
	Cd ug/g	8	**1.18**	9	**0.63**	**-46.6**	Cd ug/g	8	**0.79**	7	**0.42**	**-46.8**
	Cr ug/g	3	27.3	8	23.9	-12.5	Cr ug/g	3	31.0	6	29.4	-5.2
	Cu ug/g	8	**25.2**	9	**21**	**-16.7**	Cu ug/g	8	21.8	7	18.1	**-17.0**
	Pb ug/g	8	24.6	9	17.4	-29.3	Pb ug/g	8	17.1	7	16	-6.4
	Mn ug/g	8	1444	9	1504	4.2	Mn ug/g	8	1625	7	1561	-3.9
	Hg ug/g	7	**0.170**	9	**0.104**	**-38.8**	Hg ug/g	7	**0.127**	7	**0.076**	**-40.2**
	Zn ug/g	8	99.2	9	93.6	-5.6	Zn ug/g	8	83.4	7	76.9	-7.8
	NHx-N mg/L	5	174	9	131	-24.7	NHx-N mg/L	5	203	7	257	26.6
	TKN mg/L	4	3338	9	3108	-6.9	TKN mg/L	4	3750	7	4276	14.0
	TP mg/L	4	1150	9	976	-15.1	TP mg/L	4	1625	7	1571	-3.3
	PCBs ng/g	8	**81.3**	9	**52.8**	**-35.1**	PCBs ng/g	8	**23.3**	7	**12.8**	**-45.1**
Fall	Flow	9	15179	9	15341	1.1	Flow	8	27761	7	35739	28.7
	Sed. Rate cm/d	9	0.08	9	0.08	0.0	Sed. Rate cm/d	8	0.05	7	0.06	20.0
	TOC %	9	3.90	9	2.96	-24.1	TOC %	8	3.74	6	4.46	19.3
	TVS %	9	8.30	9	7.88	-5.1	TVS %	8	10.2	7	10.9	6.9
	Cd ug/g	9	1.29	9	1.65	27.9	Cd ug/g	8	**0.83**	6	**0.36**	**-56.6**
	Cr ug/g	3	28.2	9	38.0	34.8	Cr ug/g	3	31.0	6	32.0	3.2
	Cu ug/g	9	27.5	9	21.6	-21.5	Cu ug/g	8	24.2	5	19.3	-20.2
	Pb ug/g	9	**26.7**	9	**18.9**	**-29.2**	Pb ug/g	8	21.4	6	18.3	-14.5
	Mn ug/g	9	2206	9	1948	-11.7	Mn ug/g	8	2625	6	3941	50.1
	Hg ug/g	9	**0.162**	9	**0.125**	**-22.8**	Hg ug/g	7	0.102	7	0.092	-9.8
	Zn ug/g	9	105.7	9	100.0	-5.4	Zn ug/g	8	94.4	6	90.0	-4.7
	NHx-N mg/L	3	105	9	81.8	-22.1	NHx-N mg/L	3	177	6	267	50.8
	TKN mg/L	3	3433	9	2999	-12.6	TKN mg/L	3	4433	6	5603	26.4
	TP mg/L	3	1250	9	1089	-12.9	TP mg/L	3	2167	6	1945	-10.2
	PCBs ng/g	9	**107**	9	**64.9**	**-39.3**	PCBs ng/g	8	**41.7**	7	**18**	**-56.8**

Bold font reflects a significantly difference ($P \leq 0.05$) between periods.

Table 4. Temporal changes in average suspended sediment total organic carbon-(OC), total volatile solids- (TVS) and manganese-normalized metal, nutrient and PCB levels over two time periods (spring and fall) at Locks and Dams 3 and 4 on the Mississippi River. Significant differences between periods were evaluated using a Kruskal-Wallis AOV.

	Lock & Dam 3						Lock & Dam 4					
		1987-1995		1997-2005		%		1987-1995		1997-2005		%
Season	Variable	N	Avg.	N	Avg.	Change	Variable	N	Avg.	N	Avg.	Change
Spring	Cd ug/g OC	8	**42.8**	9	**21.4**	**-50.0**	Cd ug/g OC	8	**24**	7	**12.4**	**-48.3**
	Cd ug/g TVS	8	**15.3**	9	**8.48**	**-44.6**	Cd ug/g TVS	8	**8.33**	7	**5.21**	**-37.5**
	Cd/Mn ug/ug	8	**0.0008**	9	**0.00043**	**-46.3**	Cd/Mn ug/ug	8	0.00049	7	0.0003	-38.8
	Cr ug/g OC	3	1125	8	814	**-27.6**	Cr ug/g OC	3	1082	6	816	-24.6
	Cr ug/g TVS	3	366	8	317	-13.4	Cr ug/g TVS	3	392	6	343	-12.5
	Cr/Mn	3	0.021	8	0.016	-23.8	Cr/Mn	3	0.026	6	0.021	-19.2
	Cu ug/g OC	8	932	9	714	-23.4	Cu ug/g OC	8	695	7	509	-26.8
	Cu ug/g TVS	8	327	9	279	-14.7	Cu ug/g TVS	8	240	7	213	-11.3
	Cu/Mn ug/ug	8	0.017	9	0.014	-17.6	Cu/Mn ug/ug	8	0.015	7	0.012	-20.0
	Pb ug/g OC	8	**834**	9	**587**	**-29.6**	Pb ug/g OC	8	530	7	442	-16.6
	Pb ug/g TVS	8	**321**	9	**229**	**-28.7**	Pb ug/g TVS	8	187	7	185	-1.1
	Pb/Mn ug/ug	8	0.017	9	0.012	-29.4	Pb/Mn ug/ug	8	0.011	7	0.011	0.0
	Hg ug/g OC	7	**6.56**	9	**3.57**	**-45.6**	Hg ug/g OC	7	**4.04**	7	**2.13**	**-47.3**
	Hg ug/g TVS	7	**2.21**	9	**1.40**	**-36.7**	Hg ug/g TVS	7	**1.36**	7	**0.90**	**-33.8**
	Hg/Mn ng/ug	7	**0.114**	9	**0.071**	**-37.7**	Hg/Mn ng/ug	7	0.084	7	0.052	**-38.1**
	Zn ug/g OC	8	1294	9	1244	-3.9	Zn ug/g OC	8	917	7	907	-1.1
	Zn ug/g TVS	8	3609	9	3196	-11.4	Zn ug/g TVS	8	2616	7	2170	-17.0
	Zn/Mn ug/ug	8	0.070	9	0.062	-11.4	Zn/Mn ug/ug	8	0.055	7	0.054	-1.8
	NHx ug/g OC	3	7734	9	4493	-41.9	NHx ug/g OC	3	7521	7	6660	-11.4
	NHx ug/g TVS	5	2296	9	1773	-22.8	NHx ug/g TVS	5	2359	7	2781	17.9
	NHx/Mn ug/ug	5	0.132	9	0.090	-31.8	NHx/Mn ug/ug	5	0.153	7	0.151	-1.3
	TKN ug/g OC	3	137887	9	106159	-23.0	TKN ug/g OC	3	135830	7	117392	-13.6
	TKN ug/g TVS	4	45313	9	41225	-9.0	TKN ug/g TVS	4	45741	7	49067	7.3
	TKN/Mn ug/ug	4	2.51	9	2.08	-17.1	TKN/Mn ug/ug	4	3.06	7	2.77	-9.5
	TP ug/g OC	3	**49857**	9	**33458**	**-32.9**	TP ug/g OC	3	61248	7	44195	-27.8
	TP ug/g TVS	3	15889	9	13151	-17.2	TP ug/g TVS	3	21369	7	18447	-13.7
	TP/Mn ug/ug	3	0.866	9	0.667	-23.0	TP/Mn ug/ug	3	1.401	7	1.066	-23.9
	PCBs ng/g OC	8	**2878**	9	**1795**	**-37.6**	PCBs ng/g OC	8	**723**	7	**340**	**-53.0**
	PCBs ng/g TVS	8	**1053**	9	**700**	**-33.5**	PCBs ng/g TVS	8	**253**	7	**142**	**-43.9**
	PCBs/Mn ng/ug	8	**0.056**	9	**0.035**	**-37.5**	PCBs/Mn ng/ug	8	**0.015**	7	**0.008**	**-46.7**

Bold font reflects a significantly difference (P< 0.05) between periods.

Table 4. Continued.

		Lock & Dam 3					Lock & Dam 4				
		1987-1995		1997-2005		%		1987-1995		1997-2005		%
Season	Variable	N	Avg.	N	Avg.	Change	Variable	N	Avg.	N	Avg.	Change
Fall	Cd ug/g OC	9	38.0	9	56.7	49.2	Cd ug/g OC	8	**24.1**	5	**8.96**	**-62.8**
	Cd ug/g TVS	9	15.1	9	21.5	42.4	Cd ug/g TVS	8	**8.0**	6	**3.5**	**-56.5**
	Cd/Mn ug/ug	9	0.00058	9	0.00083	43.1	Cd/Mn ug/ug	8	**0.00032**	6	**0.00012**	**-62.5**
	Cr ug/g OC	3	1000	9	1299	29.9	Cr ug/g OC	3	964	5	739	-23.3
	Cr ug/g TVS	3	332	9	490	47.6	Cr ug/g TVS	3	314	6	325	3.5
	Cr/Mn	3	0.0143	9	0.019	32.9	Cr/Mn	3	0.013	6	0.009	-30.8
	Cu ug/g OC	9	839	9	729	-13.1	Cu ug/g OC	8	747	4	447	-40.2
	Cu ug/g TVS	9	326	9	275	-15.6	Cu ug/g TVS	8	238	5	200	-16.0
	Cu/Mn ug/ug	9	0.013	9	0.011	-15.4	Cu/Mn ug/ug	8	**0.009**	5	**0.005**	**-44.4**
	Pb ug/g OC	9	797	8	636	-20.2	Pb ug/g OC	8	633	5	421	-33.5
	Pb ug/g TVS	9	**317**	8	**239**	**-24.6**	Pb ug/g TVS	8	218	6	185	-15.1
	Pb/Mn ug/ug	9	0.012	8	0.010	-16.7	Pb/Mn ug/ug	8	**0.009**	6	**0.005**	**-44.4**
	Hg ug/g OC	8	4.93	9	4.23	-14.2	Hg ug/g OC	7	3.26	6	2.03	**-37.7**
	Hg ug/g TVS	8	**1.96**	9	**1.61**	**-17.9**	Hg ug/g TVS	7	1.03	7	0.091	-91.2
	Hg/Mn ng/ug	8	**0.077**	9	**0.066**	**-14.3**	Hg/Mn ng/ug	7	**0.039**	6	**0.026**	**-33.3**
	Zn ug/g OC	9	1273	9	1270	-0.2	Zn ug/g OC	8	945	6	918	-2.9
	Zn ug/g TVS	9	3176	9	3382	6.5	Zn ug/g TVS	8	2726	5	2064	-24.3
	Zn/Mn ug/ug	9	0.050	9	0.052	4.0	Zn/Mn ug/ug	8	**0.039**	6	**0.024**	**-38.5**
	NHx ug/g OC	3	3563	9	2704	-24.1	NHx ug/g OC	3	6005	5	5025	-16.3
	NHx ug/g TVS	3	1462	9	1054	-27.9	NHx ug/g TVS	3	2074	6	2845	37.2
	NHx/Mn ug/ug	3	0.061	9	0.046	-24.6	NHx/Mn ug/ug	3	0.091	6	0.062	-31.9
	TKN ug/g OC	3	115603	9	100894	-12.7	TKN ug/g OC	3	149242	5	131962	-11.6
	TKN ug/g TVS	3	47746	9	38199	-20.0	TKN ug/g TVS	3	51759	6	54305	4.9
	TKN/Mn ug/ug	3	1.997	9	1.557	-22.0	TKN/Mn ug/ug	3	2.249	6	1.438	-36.1
	TP ug/g OC	3	41887	9	36747	-12.3	TP ug/g OC	3	**82080**	5	**45213**	**-44.9**
	TP ug/g TVS	3	17365	9	13910	-19.9	TP ug/g TVS	3	24491	6	19166	-21.7
	TP/Mn ug/ug	3	0.727	9	0.570	-21.6	TP/Mn ug/ug	3	**1.119**	6	**0.516**	**-53.9**
	PCBs ng/g OC	9	**3083**	9	**2194**	**-28.8**	PCBs ng/g OC	8	**1204**	6	**372**	**-69.1**
	PCBs ng/g TVS	9	**1274**	9	**828**	**-35.0**	PCBs ng/g TVS	8	**398**	7	**183**	**-54.0**
	PCBs/Mn ng/ug	9	**0.049**	9	**0.034**	**-30.6**	PCBs/Mn ng/ug	8	**0.017**	6	**0.005**	**-70.6**

Bold font reflects a significantly difference (P< 0.05) between periods.

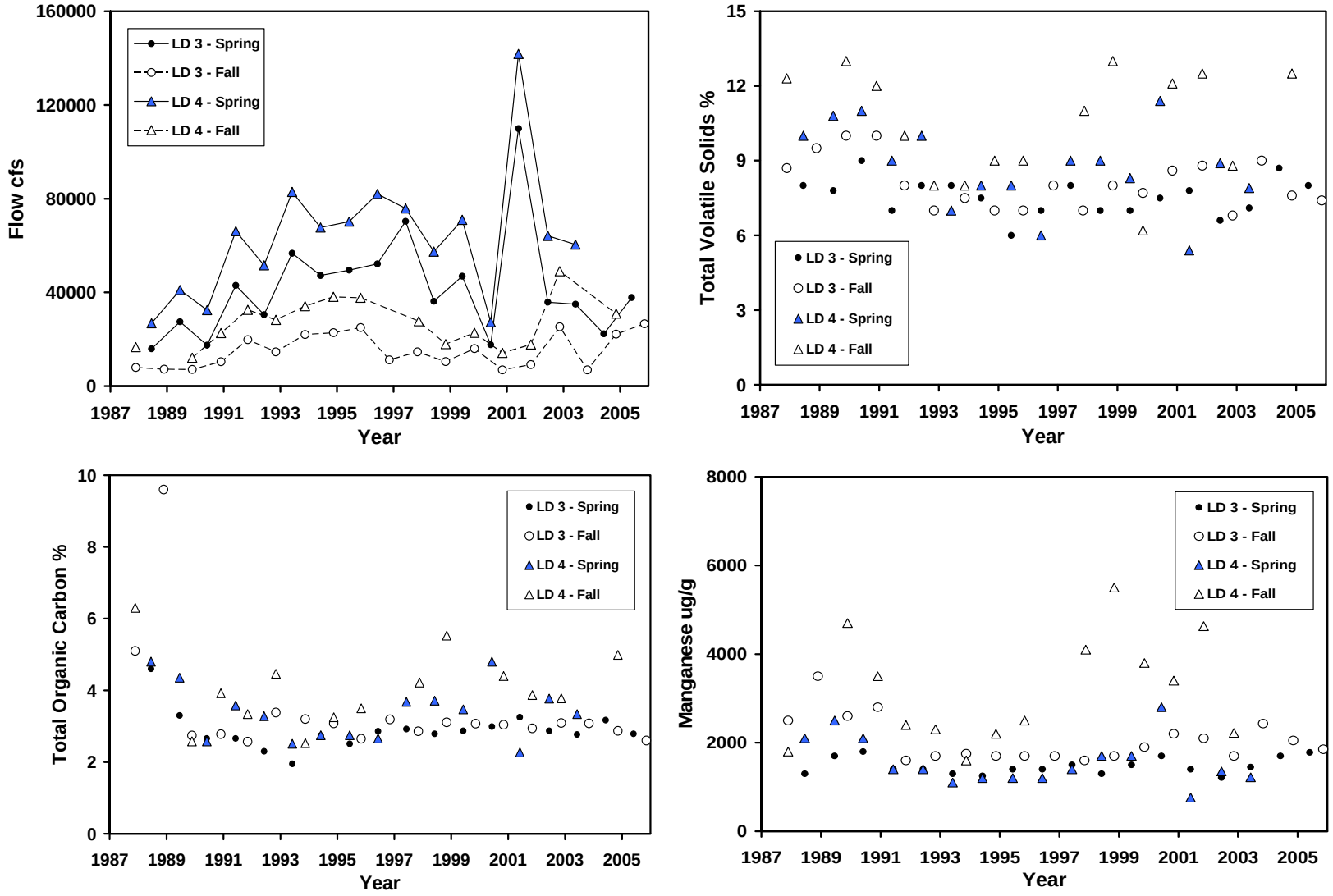

Figure 1. River flow and total volatile solids, total organic carbon and manganese levels in suspended sediment at Locks and Dams 3 and 4 on the Mississippi River from 1987 to 2005.

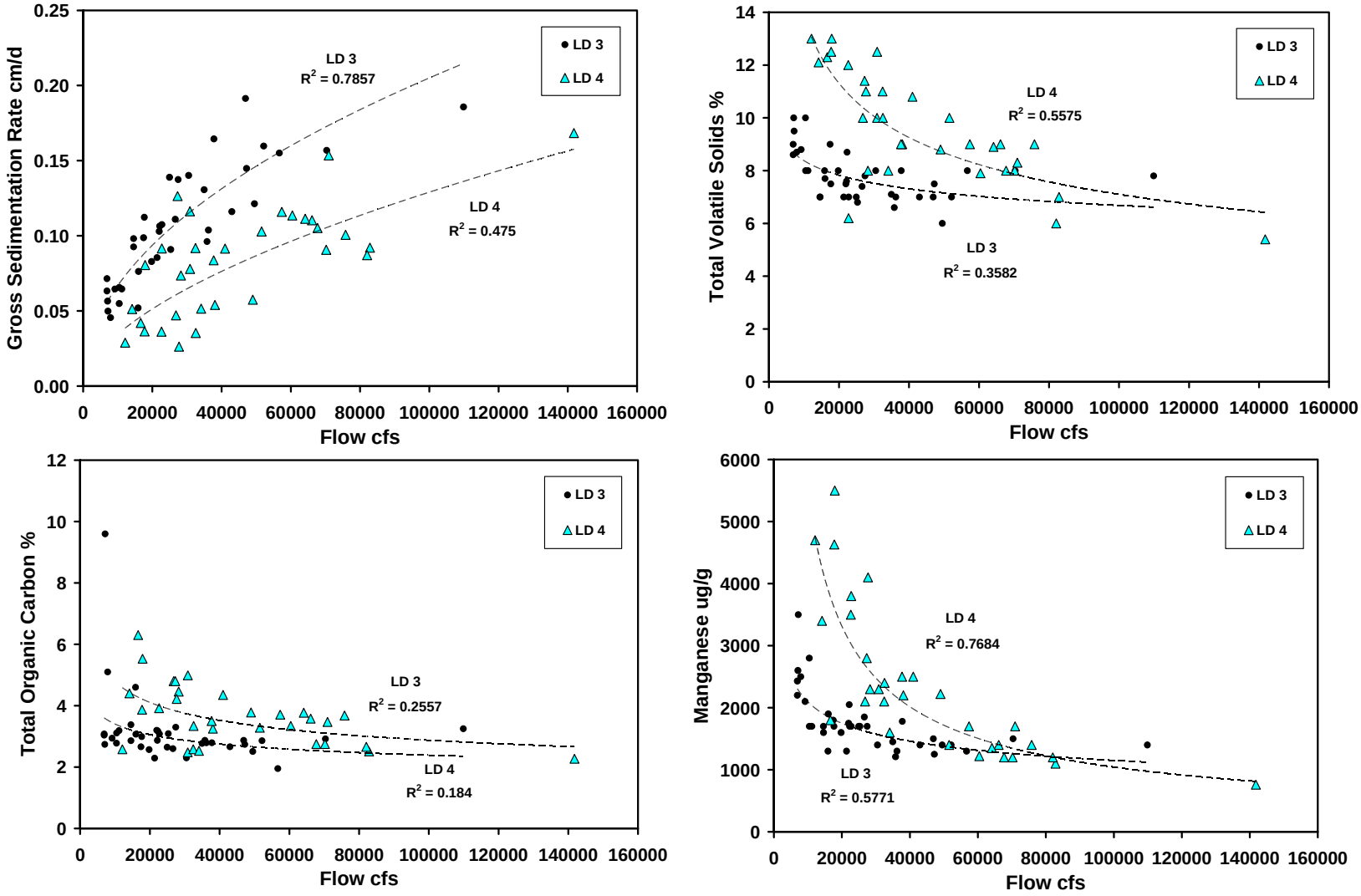

Figure 2. Regression plots of gross sedimentation rates and total volatile solids, total organic carbon and manganese levels in suspended sediment versus river flow at Locks and Dams 3 and 4 on the Mississippi River. Regression lines (dashes) and correlation coefficients (R^2) are provided where Spearman rank correlations were statistically significant ($P<0.05$).

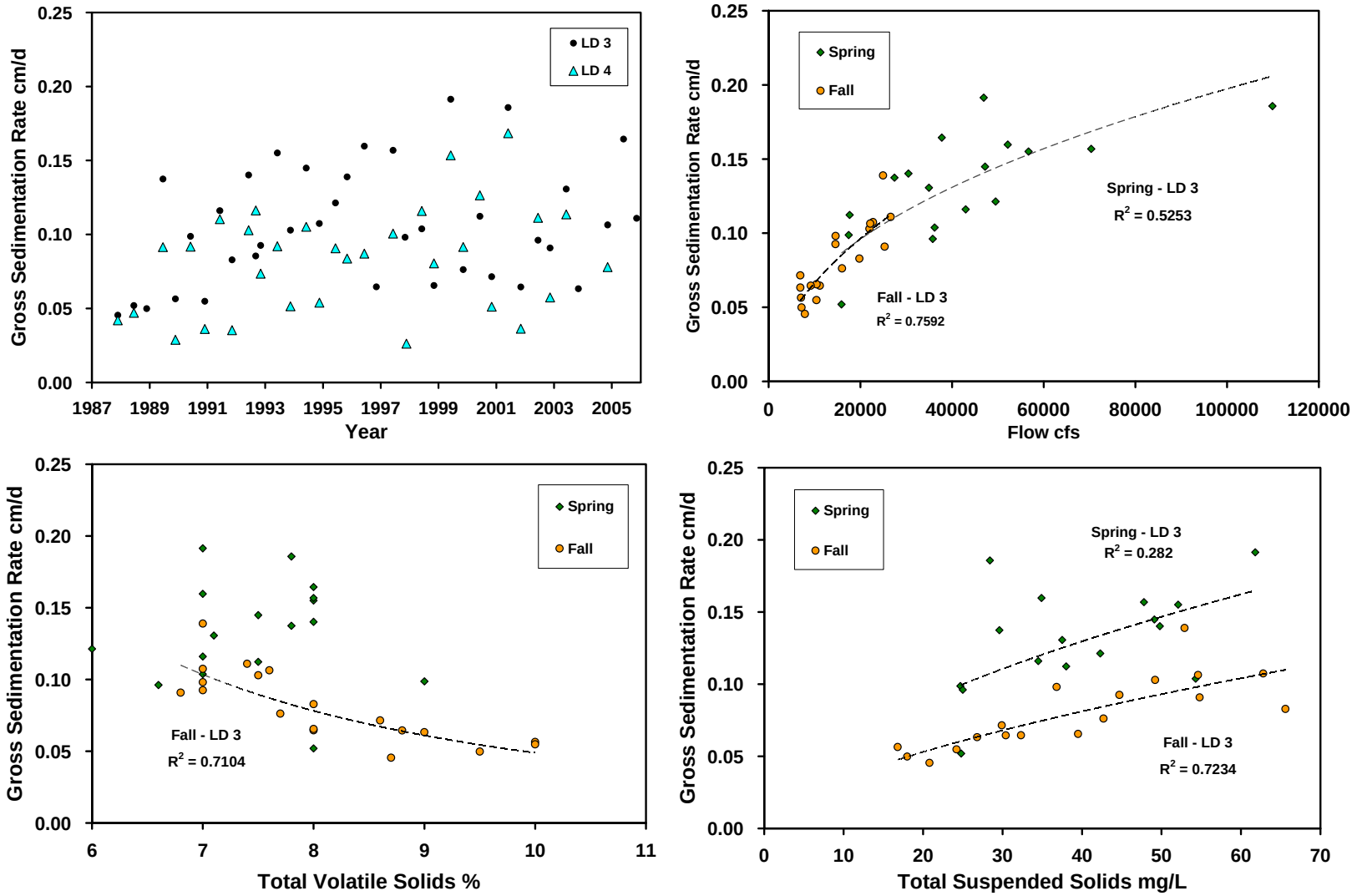

Figure 3. Gross sedimentation rates versus time and regression plots of gross sedimentation rates versus river flow, total volatile solids, and total suspended solids in suspended sediment at Locks and Dam 3 on the Mississippi River. Regression lines (dashes) and correlation coefficients (R^2) are provided where Spearman rank correlations were statistically significant ($P \leq 0.05$).

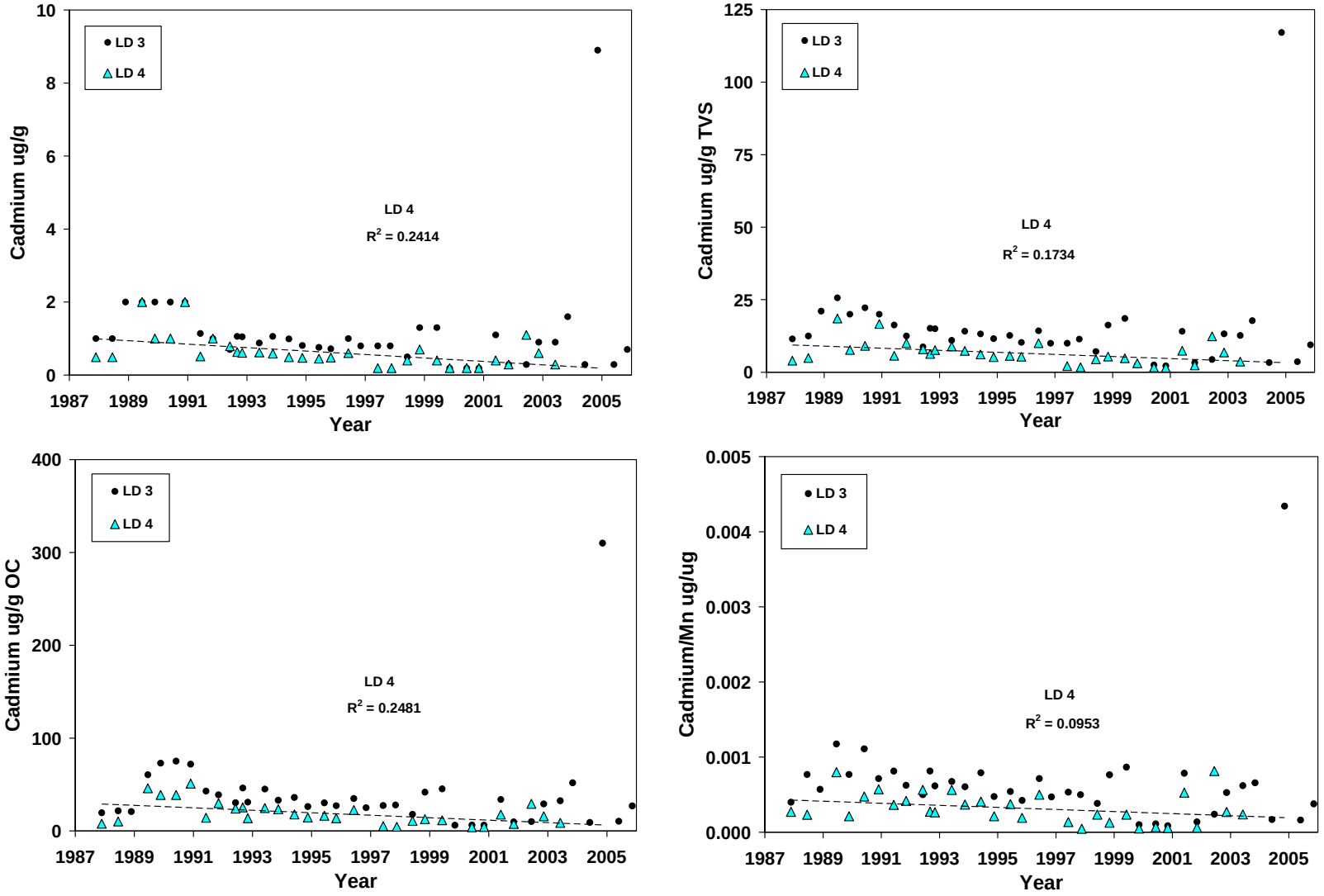

Figure 4. Temporal changes in cadmium concentrations and total volatile solids (TVS)-, total organic carbon (OC)-, and manganese-normalized cadmium concentrations in suspended sediment at Locks and Dams 3 and 4 on the Mississippi River. Regression lines (dashes) and correlation coefficients (R^2) are provided where Spearman rank correlations were statistically significant ($P \leq 0.05$).

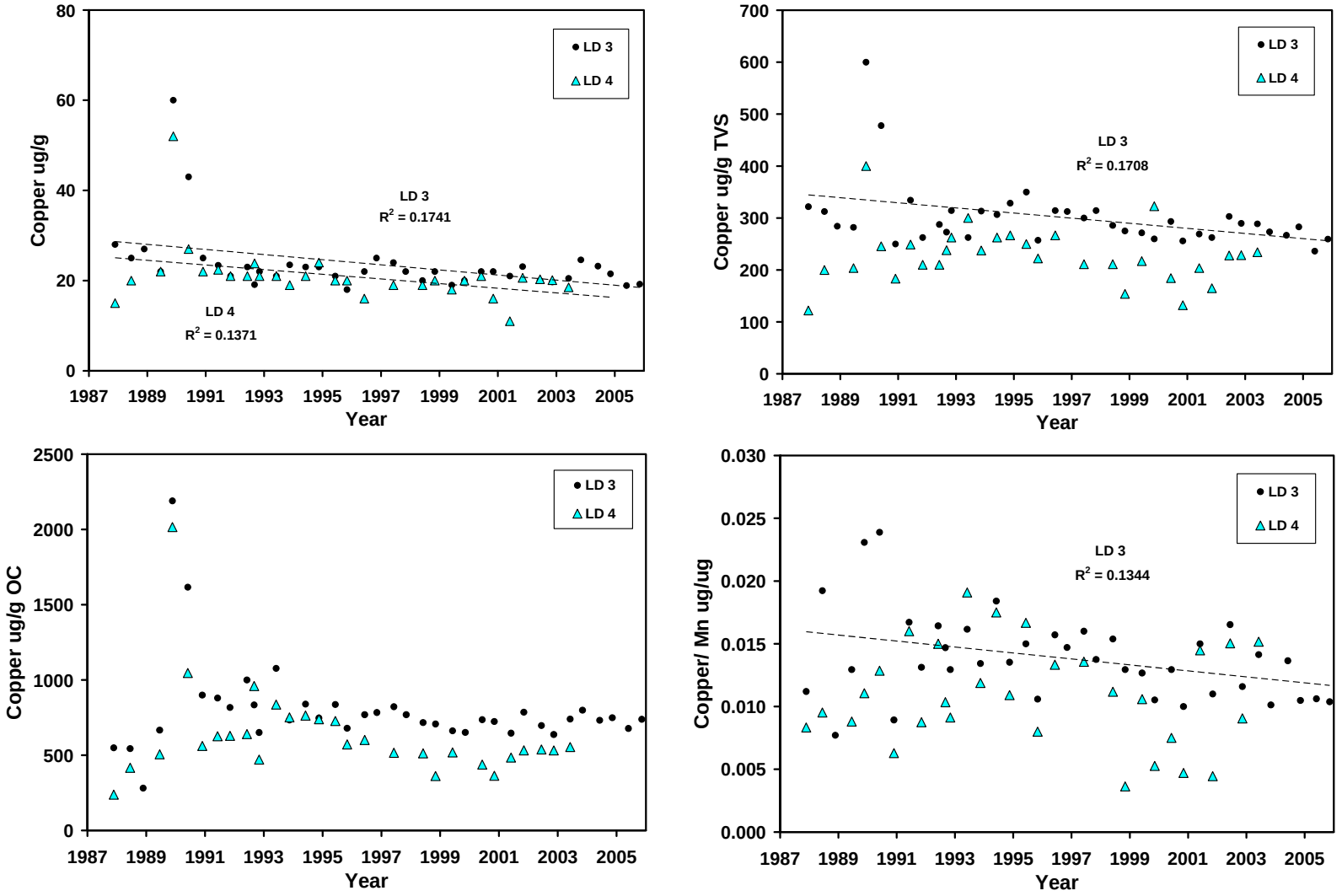

Figure 5. Temporal changes in copper concentrations and total volatile solids (TVS)-, total organic carbon (OC)-, and manganese-normalized copper concentrations in suspended sediment at Locks and Dams 3 and 4 on the Mississippi River. Regression lines (dashes) and correlation coefficients (R^2) are provided where Spearman rank correlations were statistically significant ($P \leq 0.05$).

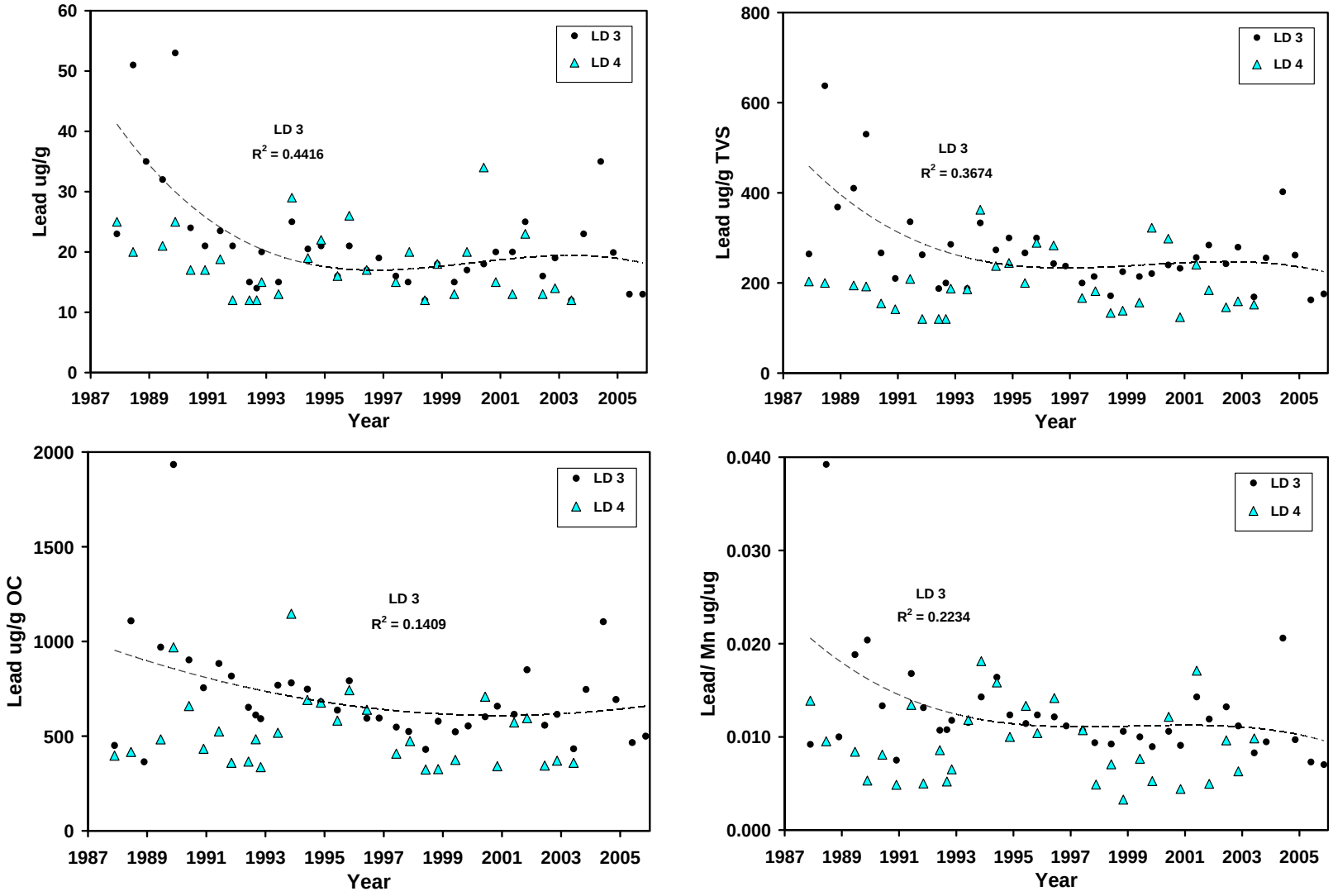

Figure 6. Temporal changes in lead concentrations and total volatile solids (TVS)-, total organic carbon (OC)-, and manganese-normalized lead concentrations in suspended sediment at Locks and Dams 3 and 4 on the Mississippi River. Regression lines (dashes) and correlations coefficients (R^2) are provided where a Spearman rank correlations were statistically significant ($P \leq 0.05$).

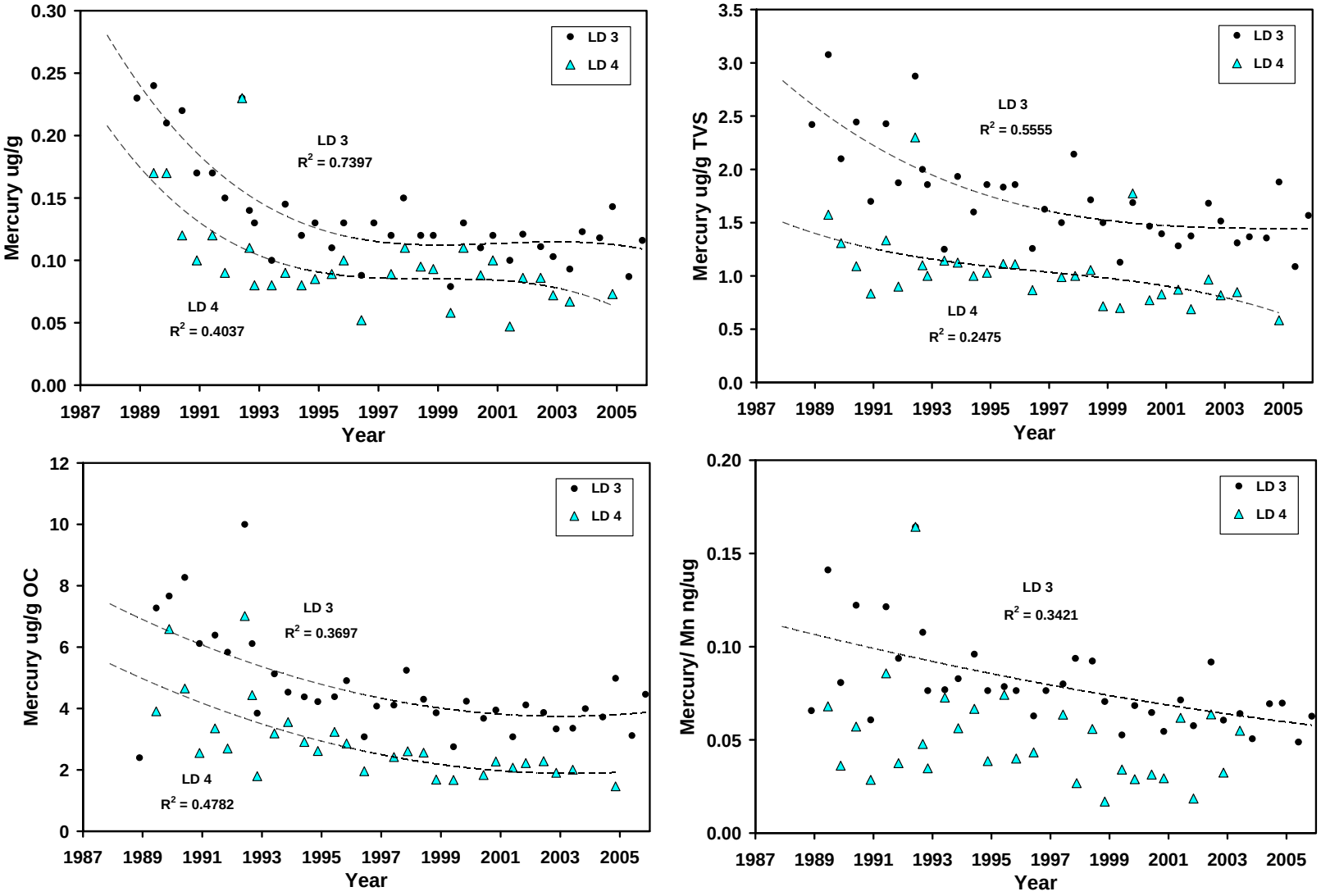

Figure 7. Temporal changes in mercury concentrations and total volatile solids (TVS)-, total organic carbon (OC)-, and manganese-normalized mercury concentrations in suspended sediment at Locks and Dams 3 and 4 on the Mississippi River. Regression lines (dashes) and correlation coefficients (R^2) are provided where a Spearman rank correlations were statistically significant ($P \leq 0.05$).

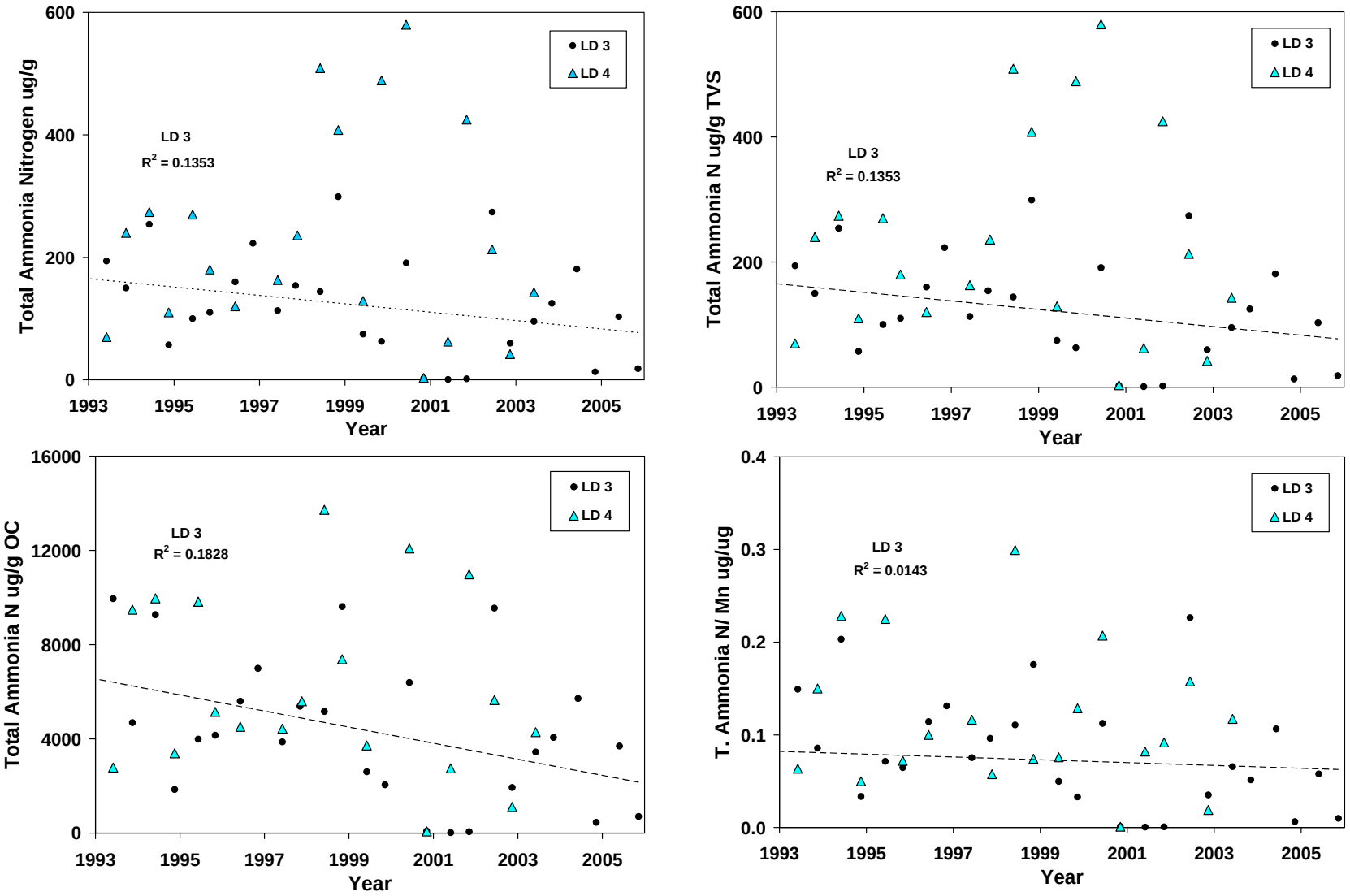

Figure 8. Temporal changes in ammonia-N concentrations and total volatile solids (TVS)-, total organic carbon (OC)-, and manganese-normalized ammonia-N concentrations in suspended sediment at Locks and Dams 3 and 4 on the Mississippi River. Regression lines (dashes) and correlation coefficients (R^2) are provided where Spearman rank correlations were statistically significant ($P \leq 0.05$).

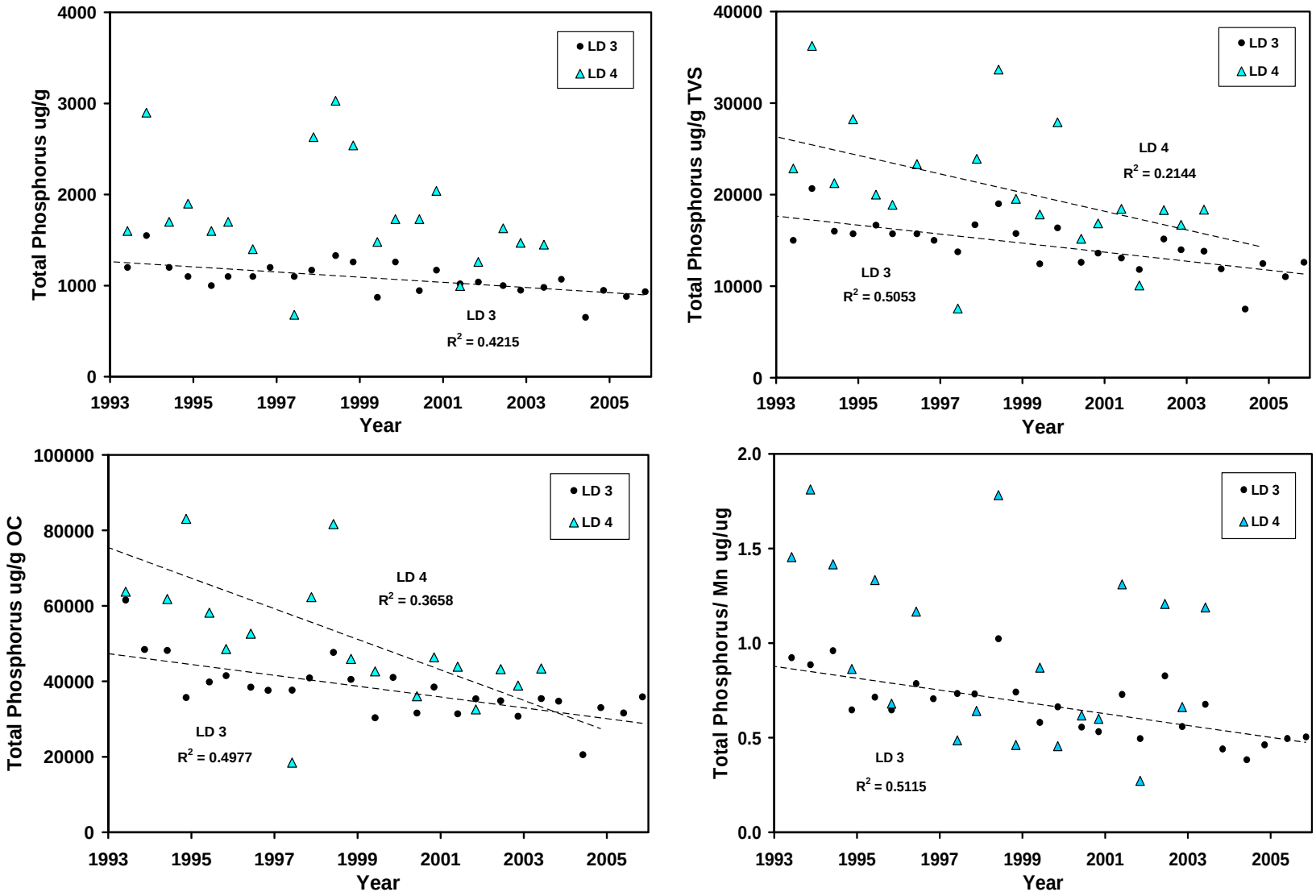

Figure 9. Temporal changes in total phosphorus concentrations and total volatile solids (TVS)-, total organic carbon (OC)-, and manganese-normalized total phosphorus concentrations in suspended sediment at Locks and Dams 3 and 4 on the Mississippi River. Regression lines (dashes) and correlation coefficients (R^2) are provided where a Spearman rank correlations were statistically significant ($P \leq 0.05$).

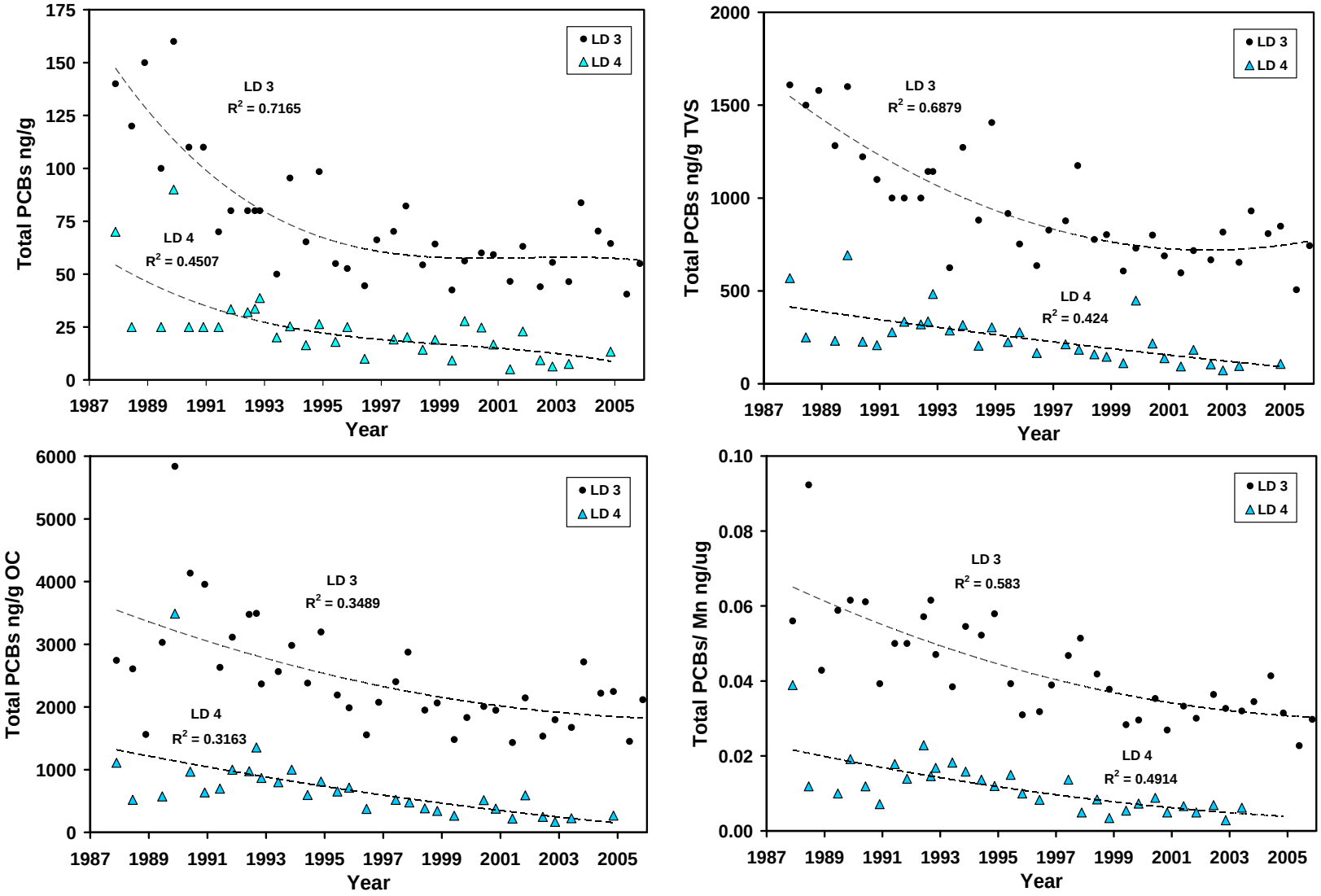

Figure 10. Temporal changes in total PCB concentrations and total volatile solids (TVS)-, total organic carbon OC)-, and manganese-normalized total PCB concentrations in suspended sediment at Locks and Dams 3 and 4 of the Mississippi River. Regression lines (dashes) and correlations coefficients (R^2) are provided where a Spearman rank correlations were statistically significant ($P \leq 0.05$).