Supporting Information

Sources of Toxaphene and Other Organochlorine Pesticides in North America as Determined by Air Measurements and PSCF Analyses

Eunha Hoh and Ronald A. Hites

School of Public and Environmental Affairs

Indiana University

Bloomington, IN 47405

Gas-phase Atmospheric Toxaphene, Total Chlordane, Total Endosulfan, and *p,p'*-DDE Concentrations ($C_{a,g}$) in pg/m^3 and Average Air Temperature (T) in K in the Sampling Sites; *na* indicates that the sample was not analyzed for that substance.

Start date	Site	T	$C_{a,g}$ Toxaphene	$C_{a,g}$ chlordanes	$C_{a,g}$ Endosulfans	$C_{a,g}$ *p,p'*-DDE
2/7/2002	MI	275	9.0	17	66	4.3
2/19/2002	MI	277	24	47	45	8.3
3/3/2002	MI	262	2.3	3.5	2.2	0.9
3/15/2002	MI	272	12	11	5	3.1
3/27/2002	MI	277	17	50	27	9.6
4/8/2002	MI	278	25	53	37	8.3
4/20/2002	MI	276	8.6	8.5	17	2.1
5/2/2002	MI	277	3.0	4.3	5	1.2
5/14/2002	MI	278	12	13	12	0.5
5/26/2002	MI	286	33	140	84	19
6/7/2002	MI	292	38	110	980	27
6/19/2002	MI	292	61	140	1200	28
7/1/2002	MI	300	110	170	290	42
7/13/2002	MI	293	40	61	360	12
7/25/2002	MI	293	32	79	1100	27
9/16/2002	MI	289	44	38	89	8.5
9/23/2002	MI	286	11	18	28	3.7
10/5/2002	MI	282	3.9	11	10	1.6
10/17/2002	MI	275	0.9	10	16	1.3
10/29/2002	MI	274	4.3	4.4	7.2	0.73
11/10/2002	MI	281	61	100	69	14
11/22/2002	MI	274	3.3	5.4	7.5	0.57
12/4/2002	MI	276	4.3	4.3	4.1	0.85
12/16/2002	MI	267	2.8	2.4	4.3	0.48
12/28/2002	MI	274	7.7	11	11	3.0
1/21/2003	MI	261	2.8	3.2	1.2	0.69
2/2/2003	MI	271	1.8	7.1	7.7	1.0
2/14/2003	MI	264	1.3	< 1.8	0.6	0.54
3/10/2003	MI	263	3.0	3.3	3.0	0.42
3/22/2003	MI	264	3.2	13	11	3.5
4/3/2003	MI	270	7.3	5.6	11	1.2
4/15/2003	MI	285	27	45	70	7.5
4/27/2003	MI	289	22	54	46	5.2
5/9/2003	MI	287	53	66	200	17
5/21/2003	MI	281	3.5	8.6	70	4.6
6/2/2003	MI	285	13	18	37	4.1
6/14/2003	MI	291	36	36	97	18
6/26/2003	MI	290	35	43	60	10
7/8/2003	MI	291	29	75	87	11
7/20/2003	MI	293	60	84	690	14
8/13/2003	MI	294	51	27	110	20
9/6/2003	MI	292	25	38	38	17

Start date	Site	T	$C_{a,g}$ Toxaphene	$C_{a,g}$ chlordanes	$C_{a,g}$ Endosulfans	$C_{a,g}$ *p,p'*-DDE
2/19/2002	IN	284	45	150	160	4.7
3/15/2002	IN	281	69	160	33	8.0
3/27/2002	IN	276	9.0	79	17	3.2
4/8/2002	IN	289	95	190	220	8.6
4/20/2002	IN	290	59	220	230	7.5
5/2/2002	IN	281	17	67	16	2.0
5/14/2002	IN	285	14	270	53	0.8
5/26/2002	IN	289	51	330	140	8.1
6/7/2002	IN	290	48	290	111	7.7
7/1/2002	IN	295	110	480	140	13
7/13/2002	IN	293	66	340	460	8.3
7/25/2002	IN	298	82	410	1020	8.6
8/6/2002	IN	295	44	230	180	6.3
8/18/2002	IN	295	110	300	340	8.1
8/30/2002	IN	296	43	240	320	5.5
9/11/2002	IN	291	36	220	110	4.1
9/23/2002	IN	286	27	340	52	4.4
10/5/2002	IN	285	12	190	22	1.7
10/17/2002	IN	280	4.0	120	18	3.0
10/29/2002	IN	278	3.4	86	17	2.2
11/10/2002	IN	287	65	200	58	7.8
11/22/2002	IN	274	3.0	61	9	1.9
12/3/2002	IN	269	4.1	30	7.4	1.0
12/16/2002	IN	276	10	57	7.4	2.2
12/28/2002	IN	275	16	66	17	3.2
1/9/2003	IN	276	3.4	32	3.8	1.3
2/2/2003	IN	282	130	120	39	16
2/14/2003	IN	282	11	76	15	2.3
2/26/2003	IN	269	< 1.0	37	2.7	0.7
3/10/2003	IN	268	4.1	26	4.7	0.7
3/22/2003	IN	282	21	170	20	5.6
4/3/2003	IN	293	170	120	110	17
4/15/2003	IN	295	94	130	190	3.4
4/28/2003	IN	289	150	240	130	6.7
5/9/2003	IN	296	360	250	110	35
5/21/2003	IN	286	37	160	38	6.2
6/2/2003	IN	287	18	150	49	5.8
6/26/2003	IN	293	57	250	90	4.3
7/8/2003	IN	298	89	350	180	7.5
7/20/2003	IN	297	84	320	1800	2.5
8/1/2003	IN	298	78	370	1500	10
8/13/2003	IN	296	71	520	2000	11
8/25/2003	IN	298	110	360	1200	10
9/6/2003	IN	287	45	350	69	4.2

Start date	Site	T	$C_{a,g}$ Toxaphene	$C_{a,g}$ chlordanes	$C_{a,g}$ Endosulfans	$C_{a,g}$ *p,p'*-DDE
2/7/2002	AR	291	250	65	50	42
2/19/2002	AR	288	540	230	83	310
3/4/2002	AR	276	270	17	5.3	57
3/15/2002	AR	290	2100	260	39	310
3/27/2002	AR	283	620	120	12	140
4/8/2002	AR	283	2200	240	100	420
4/20/2002	AR	298	2800	250	210	850
5/2/2002	AR	290	2300	61	26	250
5/14/2002	AR	292	1700	240	44	68
5/26/2002	AR	292	3700	350	46	Na
6/7/2002	AR	297	1600	250	200	340
6/19/2002	AR	301	2300	600	120	560
7/1/2002	AR	302	2900	460	180	810
7/13/2002	AR	303	3400	400	120	760
7/25/2002	AR	301	4100	450	120	590
8/6/2002	AR	302	1800	240	390	290
8/18/2002	AR	301	3000	470	66	450
8/30/2002	AR	299	540	na	na	Na
9/11/2002	AR	299	850	150	190	120
9/23/2002	AR	291	500	100	87	69
10/5/2002	AR	292	520	150	27	74
10/17/2002	AR	286	270	120	28	32
10/29/2002	AR	288	330	94	38	55
11/10/2002	AR	289	430	79	52	64
11/22/2002	AR	281	320	100	15	64
12/4/2002	AR	274	69	23	9.2	17
12/16/2002	AR	291	830	270	63	200
12/28/2002	AR	286	630	120	28	140
1/9/2003	AR	280	72	16	4.7	11
1/21/2003	AR	273	120	15	6.2	16
2/2/2003	AR	286	930	90	49	170
2/14/2003	AR	287	1500	140	57	440
2/26/2003	AR	273	110	25	6.3	16
3/10/2003	AR	282	550	71	31	87
3/22/2003	AR	289	890	110	27	190
4/3/2003	AR	293	2200	140	95	490
4/15/2003	AR	295	1800	150	280	550
4/27/2003	AR	295	3200	340	90	780
5/9/2003	AR	295	1800	180	34	350
5/21/2003	AR	292	1100	260	89	170
6/2/2003	AR	294	2400	390	86	630
6/14/2003	AR	297	2900	260	370	520
8/13/2003	AR	297	1400	360	180	400
8/25/2003	AR	300	2000	350	390	430
9/6/2003	AR	296	780	180	340	190

Start date	Site	T	$C_{a,g}$ Toxaphene	$C_{a,g}$ chlordanes	$C_{a,g}$ Endosulfans	$C_{a,g}$ *p,p'*-DDE
3/3/2002	LA	278	28	10	3.6	3.5
3/15/2002	LA	295	81	44	24	9.2
3/27/2002	LA	289	90	67	21	6.9
4/8/2002	LA	295	28	27	110	3.9
4/20/2002	LA	298	40	31	310	2.7
5/2/2002	LA	300	45	16	8.8	1.8
5/15/2002	LA	298	140	69	170	1.2
5/17/2002	LA	296	130	51	92	3.7
5/26/2002	LA	298	51	71	430	4.1
6/7/2002	LA	301	46	120	160	5.4
6/19/2002	LA	301	44	71	37	3.9
7/1/2002	LA	302	34	51	80	3.6
7/13/2002	LA	302	93	260	300	4.7
7/25/2002	LA	300	70	130	61	4.2
8/6/2002	LA	301	100	130	180	5.5
8/18/2002	LA	302	23	130	46	3.3
8/30/2002	LA	302	140	55	400	5.5
9/11/2002	LA	301	56	120	210	4.5
10/9/2002	LA	299	32	50	190	0.90
10/17/2002	LA	293	44	41	20	2.3
10/29/2002	LA	295	44	67	70	3.1
12/7/2002	LA	283	12	22	12	1.9
12/16/2002	LA	290	22	25	22	3.0
1/9/2003	LA	288	29	19	14	4.0
1/20/2003	LA	288	20	25	20	1.4
2/2/2003	LA	290	30	29	21	3.3
2/14/2003	LA	292	27	33	80	3.5
2/26/2003	LA	287	29	32	34	5.7
3/10/2003	LA	292	77	37	34	2.7
3/22/2003	LA	291	60	38	34	3.5
4/15/2003	LA	296	65	53	480	< 0.65
4/27/2003	LA	296	190	64	120	4.2
5/9/2003	LA	300	28	31	23	1.8
5/21/2003	LA	297	240	60	110	13
6/2/2003	LA	300	51	25	33	1.3
6/14/2003	LA	301	34	34	34	2.0
6/26/2003	LA	300	42	46	52	2.2
7/8/2003	LA	301	29	43	22	1.7
7/20/2003	LA	301	51	53	25	1.9
8/1/2003	LA	301	40	52	29	1.8
8/13/2003	LA	301	69	47	120	3.4
8/25/2003	LA	302	52	60	64	2.2
9/6/2003	LA	300	74	87	87	3.7