

Experimental Man: Environment				
David Ewing Duncan: Chemical Body Burden Test Results				
Highlights, Comparison to national levels, Centers for Disease Control (CDC) ^				
<i>All measurements are in parts per billion</i>				
<i><LOD=less than the limit of detection; doesn't mean there is none "on board"</i>				
<i>Bold = higher than CDC mean</i>				
Summary by Type of Chemical				
		# Tested	# Detected	# Higher than mean
Pesticides:		26	16	14
Phalates:		7	7	7
PCBs:		209	97	97
PFOs:		13	4	4
BDEs:		41	25	25
Dioxins:		17	10	8
Bisphenols:		2	0	0
Metals:		6	4	0
TOTAL:		321	163	155
Chemical Levels (Highlights)	Author Results	CDC Mean*	CDC 95th %	
Pesticides:				
Heptachlor-Epoxide	2.42	<LOD	21.8	
alpha-E<LOD	2.47	<LOD	<LOD	
Dieldrin	5.11	<LOD	20.3	
HCB	10.57	<LOD	<LOD	
alpha-HCH	0.326	<LOD	<LOD	
beta-HCH	10.5	<LOD	43.3	
gamma-HCH	0.034	<LOD	<LOD	
ALDRIN	0.159	<LOD	<LOD	
CL8-STYRENE	0.0845	<LOD	<LOD	
OXYCHLORDANE	12.1	11.1	49.7	
c-CHLORDANE	3.67	N/A	78.3	
t-NONACHLOR	16.7	17	<LOD	
c-NONACHLOR	1.75	N/A	<LOD	
p,p-DDE	256	295	2320	
p,p-DDT	3.58	<LOD	26.5	
MIREX	2.26	<LOD	57.1	
<i>The other pesticides were u<LODetectable with current technology</i>				

Phalates:				
mBuP		35	17.7	95.2
mBzP		53.9	15.6	122
<i>Levels were low or at the mean for the other 5 phalates tested</i>				
PCBs:				
Dioxin-like PCBs (highly toxic)				
PCB-28		0.815	<LOD	<LOD
PCB-66		523	<LOD	<LOD
PCB-74		4.15	<LOD	32.6
PCB-105		0.992	<LOD	<LOD
PCB-118		5.08	N/A	44.6
PCB-126		19.2	22.7	108
PCB-156		5.12	<LOD	18.2
PCB-167		0.761	<LOD	<LOD
PCB-189		0.387	<LOD	<LOD
Major non-dioxin-like PCBs (less toxic)				
PCB-81		<9.18	<LOD	<LOD
PCB-105		992	<LOD	<LOD
PCB-177		1100	<LOD	<LOD
PCB-178		1720	<LOD	<LOD
PCB-195		<14.7	<LOD	<LOD
PCB-206		2870	<LOD	<LOD
<i>Levels were low or u<LODetectable for the rest of the PCBs tested</i>				
PFOs:				
PFOA		7.13	N/A	N/A
PFNA		1.44	N/A	N/A
PFHxS		6.9	N/A	N/A
PFOS		35.8	N/A	N/A
<i>Additional 9 PFOs were u<LODetectable</i>				
PBDEs:				
PBDE-47 (Penta)		249	N/A	N/A
PBDE-99 (Octa)		40.5	N/A	N/A
PBDE-153		15.6	N/A	N/A
PBDE-209 (Deca)		22.4	N/A	N/A

<i>These are the major PBDEs impacting human health; others detected are higher than means established in various studies</i>				
Dioxins:				
1,2,3,4,6,7,8-HpCDF		19.1	10.1	28.9
1,2,3,7,8-PeCDD		4.53	<LOD	15.8
1,2,3,4,7,8-HxCDD		4.22	<LOD	15.4
1,2,3,6,7,8-HxCDD		27	<LOD	14
1,2,3,7,8,9-HxCDD		3.44	<LOD	<LOD
1,2,3,4,6,7,8-HpCDD		26.7	39	147
OCDD		125	346	1260
2,3,4,7,8-PeCDF		6.25	<LOD	18
1,2,3,4,7,8-HxCDF		3.44	<LOD	15.4
1,2,3,6,7,8-HxCDF		4.06	<LOD	14
OCDF		2.5	<LOD	<LOD
<i>The other 5 dioxins tested were lower than the mean or were u<LODetectable</i>				
Metals:			Safe Range	
Mercury		5	< 5.8	
Lead		3	< 5	
Arsenic		12	< 23	
Cholinesterase		2573	1000-3500	
Nicotine		0	*	
Cadmium		0	*	
^CDC Report: Third National Report on Human Exposure to Environmental Chem				
*2002 Data for all persons over 12 years old				
**Study done by Ake Bergman, University of Sweden, on Swedes				
***Study done by Commonweal, Bolinas, California, on 11 i<LODividuals				
in Northern CA				