

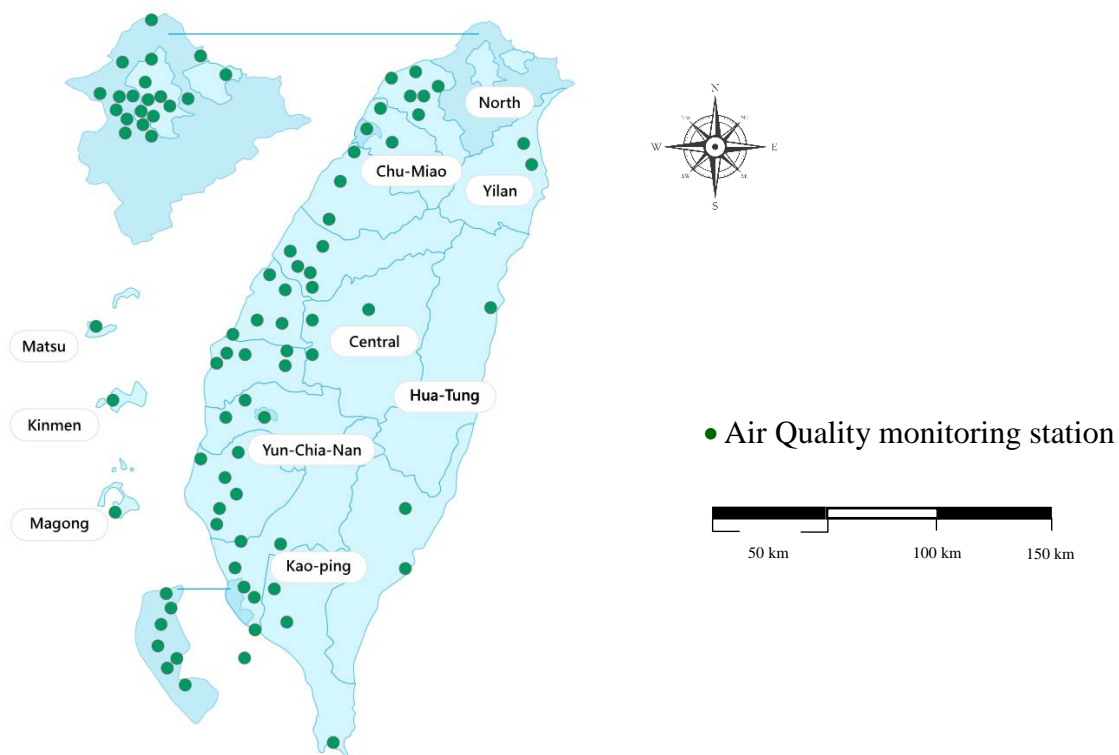
**Supplemental Table 1.** Distribution of the different food samples collected from 2004-2018

Food group (No.) area	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	total
Cereals, grains, tubers and roots (No.)	12				28	27	8	8		6	7	10	10	13	9	<b>138</b>
<i>area</i>	<i>1,2,3,4,5,6</i>				<i>3,4,5,6</i>	<i>3,4,5</i>	<i>3,4,6</i>	<i>2,3,4</i>		<i>1</i>	<i>5</i>	<i>4</i>	<i>3</i>	<i>2</i>	<i>6</i>	
Beans and nuts (No.)		3		12		3				2	3	3	3	4	6	<b>39</b>
<i>area</i>		<i>3,4</i>		<i>1,2,3,4,5</i>						<i>1</i>	<i>5</i>	<i>4</i>	<i>3</i>	<i>2</i>	<i>6</i>	
Fats and oils (No.) <sup>2</sup>	6	13								2	3	4	3	5	5	<b>41</b>
<i>area</i>	<i>1,2,3,4,5,6</i>									<i>1</i>	<i>5</i>	<i>4</i>	<i>3</i>	<i>2</i>	<i>6</i>	
Poultry and their products (No.)	18	26	21	20	27	23	29	21	19	2	5	15	5	11	5	<b>247</b>
<i>area</i>	<i>1,2,3,4,5,6</i>	<i>1,2,3,4,5,6</i>	<i>1,2,3,4,5,6</i>	<i>1,2,3,4,5,6</i>	<i>3,4,5</i>	<i>3,4,5</i>	<i>1,2,3,4,5</i>	<i>3,4,5</i>	<i>1,3,4,5,6</i>	<i>1</i>	<i>5</i>	<i>4</i>	<i>3</i>	<i>2</i>	<i>6</i>	
Livestock and their products (No.)	18	41	48	42	25	19	28	16	24	10	10	10	10	23	14	<b>338</b>
<i>area</i>	<i>1,2,3,4,5,6</i>	<i>1,2,3,4,5,6</i>	<i>1,2,3,4,5,6</i>	<i>1,2,3,4,5,6</i>	<i>3,4,5</i>	<i>3,4,5</i>	<i>1,3,4,5,6,7</i>	<i>3,4,5</i>	<i>1,2,3,4,5,6</i>	<i>1</i>	<i>5</i>	<i>4</i>	<i>3</i>	<i>2</i>	<i>6</i>	
Fish and Aquatic Products (No.)	31	45	44	48	45	51	50	30	39	26	30	26	24	35	22	<b>546</b>
<i>area</i>	<i>1,2,3,4,5</i>	<i>1,2,3,4,5,6</i>	<i>1,2,3,4,5</i>	<i>1,3,5</i>	<i>1,2,3,4,5,6</i>	<i>1,2,3,4,5,6</i>	<i>1,2,3,4,5</i>	<i>2,3,4,5,6</i>	<i>1,3,5</i>	<i>1</i>	<i>5</i>	<i>4</i>	<i>3</i>	<i>2</i>	<i>6</i>	
Eggs (No.)	12	30	28	24	15	15	15	16	13	3	5	4	4	4	8	<b>196</b>
<i>area</i>	<i>1,2,3,4,5</i>	<i>1,2,3,4,5,6</i>	<i>1,2,3,4,5,6</i>	<i>1,2,3,4,5,6</i>	<i>3,4,5</i>	<i>3,4,5</i>	<i>3,4,5</i>	<i>3,4,5</i>	<i>1,3,4,5</i>	<i>1</i>	<i>5</i>	<i>4</i>	<i>3</i>	<i>2</i>	<i>6</i>	
Dairy (No.)	20	49	46	19	14	15	20	25	25	6	8	10	9	9	9	<b>284</b>
<i>area</i>										<i>1</i>	<i>5</i>	<i>4</i>	<i>3</i>	<i>2</i>	<i>6</i>	

Fruits (No.)			15	9						7	7	7	8	9	8	<b>70</b>
<i>area</i>			3,4,5	1,2,3,4,5						1	5	4	3	2	6	
Vegetables (No.)	24	42	45	36	44	39	30	29		12	14	14	13	14	15	<b>371</b>
<i>area</i>	1,3,4	1,2,3,4,5,6	1,2,3,4,5	1,2,3,4,5,6	1,2,3,4	1,2,3,4	2,3,4,5,6	1,3,4,5,6		1	5	4	3	2	6	

Area : 1 : North ; 2 : Chu-Miao ; 3 : Central ; 4 : Yun-Chia-Nan ; 5 : Kao-Ping ; 6 : Hua-Tung

Dairy products, Seasonings, Composite foods and Soups, and Beverages were purchased from different brands based on the market share.



**Supplemental Table 2.** The achievement of joined the Interlaboratory Comparison on Dioxins in Food held by Norwegian Institute of Public Health, Oslo, Norway in 2019

(1) PCDDs/PCDFs

Sample	Unit	Our Laboratories' Z-scores, TEQ PCDDs/PCDFs	% of Z within $\pm 0.5$	% of Z within $\pm 1$
Brown meat	fresh weight	0.002	64%(56)	82%
Herring	fresh weight	0.077	66%(61)	90%
Veal	fresh weight	-2.9	8%(49)	31%

(2) Dioxin-like PCBs

Sample	Unit	Our Laboratories' Z-scores, TEQ PCB (NON-ORTHO)	Our Laboratories' Z-scores, TEQ PCB (MONO-ORTHO)	NON-ORTHO % of Z within $\pm 0.5$	NON-ORTHO % of Z within $\pm 1$	MONO-ORTHO % of Z within $\pm 0.5$	MONO-ORTHO % of Z within $\pm 1$
Brown meat	fresh weight	0.42	0.38	60%	78%	64%	87%
Herring	fresh weight	0.51	0.43	51%	82%	52%	78%
Veal	fresh weight	0.33	0.49	38%	70%	55%	81%

(3) PCDDs/PCDFs+ Dioxin-like PCBs

Sample	Unit	Our Laboratories' Z-scores, TEQ	% of Z within $\pm 0.5$	% of Z within $\pm 1$
Brown meat	fresh weight	0.18	70%	76%
Herring	fresh weight	0.31	66%	87%
Veal	fresh weight	-0.54	41%	65%

**Supplemental Table 2.** The achievement of joined the Interlaboratory Comparison on Dioxins in Food held by Norwegian Institute of Public Health, Oslo, Norway in 2018 (cont'd)

(1) PCDDs/PCDFs

Sample	Unit	Our Laboratories' Z-scores, TEQ PCDDs/PCDFs	% of Z within $\pm 0.5$	% of Z within $\pm 1$
Reindeer	fresh weight	0.650	43%	63%
Salmon	fresh weight	0.170	50%	79%
Fish oil	fresh weight	0.047	63%	79%

(2) Dioxin-like PCBs

Sample	Unit	Our Laboratories' Z-scores, TEQ PCB (NON-ORTHO)	Our Laboratories' Z-scores, TEQ PCB (MONO-ORTHO)	NON-ORTHO % of Z within $\pm 0.5$	NON-ORTHO % of Z within $\pm 1$	MONO-ORTHO % of Z within $\pm 0.5$	MONO-ORTHO % of Z within $\pm 1$
Reindeer	fresh weight	0.600	0.750	59%	74%	67%	87%
Salmon	fresh weight	0.067	0.340	50%	74%	56%	77%
Fish oil	fresh weight	-0.0094	0.340	68%	82%	73%	97%

**Supplemental Table 2.** The achievement of joined the Interlaboratory Comparison on Dioxins in Food held by Norwegian Institute of Public Health, Oslo, Norway in 2017 (cont'd)

(1) PCDDs/PCDFs

Sample	Unit	Our Laboratories' Z-scores, TEQ PCDDs/PCDFs	% of Z within $\pm 0.5$	% of Z within $\pm 1$
Sheep meat	fresh weight	0.400	28%	47.4%
Cod liver	fresh weight	-0.240	57%	77%
Herring	fresh weight	0.260	69%	91%

(2) Dioxin-like PCBs

Sample	Unit	Our Laboratories' Z-scores, TEQ PCB (NON-ORTHO)	Our Laboratories' Z-scores, TEQ PCB (MONO-ORTHO)	NON-ORTHO % of Z within $\pm 0.5$	NON-ORTHO % of Z within $\pm 1$	MONO-ORTHO % of Z within $\pm 0.5$	MONO-ORTHO % of Z within $\pm 1$
Sheep meat	fresh weight	0.920	0.051	63%	73%	61%	75%
Cod liver	fresh weight	0.250	0.370	67%	83%	62%	81%
Herring	fresh weight	0.520	0.330	61%	84%	64%	84%

(3) PCDDs/PCDFs+ Dioxin-like PCBs

Sample	Unit	Our Laboratories' Z-scores, TEQ	% of Z within $\pm 0.5$	% of Z within $\pm 1$
Sheep meat	fresh weight	0.680	21%	36%
Cod liver	fresh weight	0.180	61%	78%
Herring	fresh weight	0.390	70%	86%

**Supplemental Table 2.** The achievement of joined the Interlaboratory Comparison on Dioxins in Food held by Norwegian Institute of Public Health, Oslo, Norway in 2016 (cont'd)

(1) PCDDs/PCDFs

Sample	Unit	Our Laboratories' Z-scores, TEQ PCDDs/PCDFs	% of Z within $\pm 0.5$	% of Z within $\pm 1$
sheep liver	fresh weight	0.45	28%	47.4%
salmon	fresh weight	0.45	57%	77%
fish oil	fresh weight	-0.00074	69%	91%

(2) Dioxin-like PCBs

Sample	Unit	Our Laboratories' Z-scores, TEQ PCB (NON-ORTHO)	Our Laboratories' Z-scores, TEQ PCB (MONO-ORTHO)	NON-ORTHO % of Z within $\pm 0.5$	NON-ORTHO % of Z within $\pm 1$	MONO-ORTHO % of Z within $\pm 0.5$	MONO-ORTHO % of Z within $\pm 1$
sheep liver	fresh weight	-0.53	-1.3	22%	58%	17%	24%
salmon	fresh weight	-0.220	0.790	50%	73%	47%	76%
fish oil	fresh weight	0.41	0.024	57%	77%	72%	86%



**Supplemental Table 3.** The criteria of recovery of seventeen  $^{13}\text{C}$ -labelled 2,3,7,8-substituted internal PCDD/F standards

Congener	Acceptable Range of Recovery (%)
$^{13}\text{C}_{12}$ -2,3,7,8-TCDF	35-120
$^{13}\text{C}_{12}$ -1,2,3,7,8-PeCDF	35-120
$^{13}\text{C}_{12}$ -2,3,4,7,8-PeCDF	35-120
$^{13}\text{C}_{12}$ -1,2,3,4,7,8-HxCDF	35-120
$^{13}\text{C}_{12}$ -1,2,3,6,7,8-HxCDF	35-120
$^{13}\text{C}_{12}$ -2,3,4,6,7,8-HxCDF	35-120
$^{13}\text{C}_{12}$ -1,2,3,7,8,9-HxCDF	35-120
$^{13}\text{C}_{12}$ -1,2,3,4,6,7,8-HpCDF	35-120
$^{13}\text{C}_{12}$ -1,2,3,4,7,8,9-HpCDF	35-120
$^{13}\text{C}_{12}$ -2,3,7,8-TCDD	35-120
$^{13}\text{C}_{12}$ -1,2,3,7,8-PeCDD	35-120
$^{13}\text{C}_{12}$ -1,2,3,4,7,8-HxCDD	35-120
$^{13}\text{C}_{12}$ -1,2,3,6,7,8-HxCDD	35-120
$^{13}\text{C}_{12}$ -1,2,3,4,6,7,8-HpCDD	35-120
$^{13}\text{C}_{12}$ -OCDD	35-120

**Supplemental Table 3.** The criteria of recovery of seventeen <sup>13</sup>C-labelled internal Dioxin-like PCBs standards (cont'd)

Congener	Acceptable Range of Recovery (%)
<sup>13</sup> C <sub>12</sub> -3,3',4,4'-TeCB	26-143
<sup>13</sup> C <sub>12</sub> -3,4,4',5-TeCB	26-143
<sup>13</sup> C <sub>12</sub> -2,3,3',4,4'-PeCB	26-143
<sup>13</sup> C <sub>12</sub> -2,3,4,4',5-PeCB	26-143
<sup>13</sup> C <sub>12</sub> -2,3',4,4',5-PeCB	26-143
<sup>13</sup> C <sub>12</sub> -2',3,4,4',5-PeCB	26-143
<sup>13</sup> C <sub>12</sub> -3,3',4,4',5-PeCB	26-143
<sup>13</sup> C <sub>12</sub> -2,3,3',4,4',5-HxCB	26-143
<sup>13</sup> C <sub>12</sub> -2,3,3',4,4',5'-HxCB	26-143
<sup>13</sup> C <sub>12</sub> -2,3',4,4',5,5'-HxCB	26-143
<sup>13</sup> C <sub>12</sub> -3,3',4,4',5,5'-HxCB	26-143
<sup>13</sup> C <sub>12</sub> -2,3,3',4,4',5,5'-HpCB	26-143

**Supplemental Table 4. Matrix-specific Limit of Quantitation (LOQ) of PCDD/Fs in food**

Food group	meat	milk	egg	oil	fish	Vegetables, fruits and plants	feed	soil	air	blood
unit	pg/g fat	pg/g fat	pg/g fat	pg/g fat	pg/g w.w.	pg/g d.w.	pg/g w.w.	pg/g d.w.	pg/Nm <sup>3</sup>	pg/g w.w.
2,3,7,8-TCDF	0.021	0.016	0.019	0.016	0.002	0.01	0.003	0.008	0.0004	0.003
1,2,3,7,8-PeCDF	0.01	0.011	0.012	0.01	0.001	0.005	0.001	0.004	0.0012	0.002
2,3,4,7,8-PeCDF	0.008	0.009	0.009	0.008	0.001	0.004	0.001	0.004	0.0012	0.002
1,2,3,4,7,8-HxCDF	0.007	0.008	0.007	0.006	0.001	0.003	0.001	0.005	0.0006	0.002
1,2,3,6,7,8-HxCDF	0.007	0.008	0.007	0.007	0.001	0.003	0.001	0.004	0.0005	0.002
2,3,4,6,7,8-HxCDF	0.007	0.008	0.008	0.007	0.001	0.003	0.001	0.005	0.0006	0.002
1,2,3,7,8,9-HxCDF	0.01	0.011	0.01	0.01	0.001	0.004	0.002	0.008	0.0008	0.003
1,2,3,4,6,7,8-HpCDF	0.007	0.009	0.008	0.009	0.001	0.004	0.002	0.004	0.0008	0.002
1,2,3,4,7,8,9-HpCDF	0.011	0.013	0.012	0.015	0.002	0.008	0.002	0.01	0.0011	0.004
OCDF	0.021	0.028	0.021	0.026	0.003	0.017	0.004	0.016	0.0004	0.008
2,3,7,8-TCDD	0.013	0.014	0.011	0.012	0.001	0.007	0.003	0.015	0.0006	0.004
1,2,3,7,8-PeCDD	0.011	0.01	0.01	0.011	0.001	0.005	0.002	0.004	0.0004	0.003
1,2,3,4,7,8-HxCDD	0.009	0.011	0.009	0.01	0.001	0.005	0.002	0.006	0.0006	0.003
1,2,3,6,7,8-HxCDD	0.01	0.011	0.009	0.01	0.001	0.005	0.002	0.007	0.0005	0.003
1,2,3,7,8,9-HxCDD	0.01	0.012	0.009	0.01	0.001	0.006	0.002	0.006	0.0005	0.003
1,2,3,4,6,7,8-HpCDD	0.012	0.013	0.01	0.014	0.001	0.014	0.002	0.014	0.0003	0.005
OCDD	0.023	0.024	0.021	0.029	0.002	0.015	0.006	0.037	0.0004	0.014
total	0.197	0.216	0.193	0.207	0.021	0.12				
Ref. page	3-4	10	20	16-17	21-22	24-25	27-28	30-31	31	32

**Supplemental Table 4.** Matrix-specific Limit of Quantitation (LOQ) of dioxin-like PCBs in food (cont'd)

Food group	meat	milk	eggs	oil	fish	Vegetables, fruits & plants	feed	blood
	unit	pg/g fat	pg/g fat	pg/g fat	pg/g fat	pg/g w.w.	pg/g d.w.	pg/g w.w.
3,4,4',5-TeCB 81	0.023	0.024	0.041	0.037	0.01	0.011	0.007	0.008
3,3',4,4'-TeCB 77	0.025	0.025	0.043	0.039	0.007	0.012	0.007	0.008
2',3,4,4',5-PeCB 123	0.04	0.037	0.054	0.049	0.011	0.015	0.009	0.013
2,3',4,4',5-PeCB 118	0.035	0.033	0.049	0.042	0.01	0.013	0.006	0.012
2,3,4,4',5-PeCB 114	0.031	0.03	0.044	0.038	0.009	0.011	0.006	0.013
2,3,3',4,4'-PeCB 105	0.03	0.03	0.048	0.038	0.009	0.011	0.007	0.012
3,3',4,4',5-PeCB 126	0.029	0.033	0.053	0.033	0.009	0.011	0.007	0.014
2,3',4,4',5,5'-HxCB 167	0.039	0.038	0.065	0.049	0.0013	0.015	0.008	0.013
2,3,3',4,4',5-HxCB 156	0.019	0.018	0.034	0.022	0.007	0.006	0.005	0.008
2,3,3',4,4',5'-HxCB 157	0.017	0.016	0.032	0.021	0.006	0.006	0.006	0.008
3,3',4,4',5,5'-HxCB 169	0.014	0.012	0.037	0.017	0.005	0.004	0.004	0.007
2,3,3',4,4',5,5'-HpCB 189	0.026	0.019	0.064	0.059	0.102	0,020	0,014	0.007
total	0.327	0.314	0.564	0.445	0.102	0.135		
Ref. page	4	9	12	17-18	21	25	28-29	33

**Supplemental Table 5.** Comparison of reference values for PCDD/Fs in CRM 1954 Whole milk powder in 2019

		CRM conc.		Our Lab				Z-score
		value	1 Std Dev	Test Sample	conc. absolute difference	conc. difference in Std Dev	Relative percent difference (RPD)	
Sample weight (g)	2015 WHO TEF			5.0468				
Lipid (%)		3.73%						
Congeners		(pg/g sample)	(pg/g sample)	(pg/g sample)	(%)			
2,3,7,8-TCDF	0.100	0.125	0.010	0.143	0.018	1.77	14%	1.77
1,2,3,7,8-PeCDF	0.030	0.132	0.018	0.125	-0.007	-0.40	-5%	-0.40
2,3,4,7,8-PeCDF	0.3	0.347	0.025	0.327	-0.020	-0.80	-6%	-0.80
1,2,3,4,7,8-HxCDF	0.1	0.171	0.015	0.188	0.017	1.15	10%	1.15
1,2,3,6,7,8-HxCDF	0.1	0.186	0.017	0.194	0.008	0.48	4%	0.48
1,2,3,4,6,7,8-HpCDF	0.01	0.407	0.045	0.353	-0.054	-1.21	-13%	-1.21
1,2,3,4,7,8,9-HpCDF	0.01	0.160	0.100	0.139	-0.021	-0.21	-13%	-0.21
OCDF	0.0003	0.094	0.013	0.149	0.054	4.28	58%	4.28
2,3,7,8-TCDD	1	0.162	0.020	0.226	0.064	3.19	39%	3.19
1,2,3,7,8-PeCDD	1	0.240	0.017	0.254	0.014	0.80	6%	0.80
1,2,3,4,7,8-HxCDD	0.1	0.182	0.016	0.244	0.062	3.86	34%	3.86
1,2,3,6,7,8-HxCDD	0.1	0.890	0.140	0.765	-0.125	-0.89	-14%	-0.89
1,2,3,7,8,9-HxCDD	0.1	0.207	0.020	0.212	0.005	0.25	2%	0.25
1,2,3,4,6,7,8-HpCDD	0.01	1.080	0.240	1.175	0.095	0.40	9%	0.40
OCDD	0.0003	4.890	0.850	5.148	0.258	0.30	5%	0.30
<b>SUM TEQ</b>		0.826	0.082	0.886	0.059	0.72	7%	0.72

\*absolute difference=Test sample-CRM Certified value; \*Relative percent difference=(Test Sample-CRM Certified value)/(CRM Certified value )

**Supplemental Table 5.** Comparison of reference values for DL PCB in CRM 1954 Whole milk powder (cont'd)

		CRM conc.		Our Lab				Z-score
		value	1 Std Dev	Test Sample	conc. absolute difference	conc. difference in Std Dev	Relative percent difference (RPD)	
Sample weight (g)	2015 WHO TEF	(pg/g sample)	0.0003	5.0468	(pg/g sample)	(pg/g sample)	-14%	-3.18
Lipid (%)				3.73%				
Congeners				(pg/g sample)				
3,4,4',5-TeCB 81	0.0003	0.63	0.028	0.541	-0.089	-3.18	-14%	-3.18
3,3',4,4'-TeCB 77	0.0001	2.71	0.14	3.458	0.748	5.34	28%	5.34
2',3,4,4',5-PeCB 123	0.0000	67.9	3.1	68.136	0.236	0.08	0%	0.08
2,3,4,4',5-PeCB 114	0.0000	90.5	7.4	61.191	-29.309	-3.96	-32%	-3.96
3,3',4,4',5-PeCB 126	0.1000	10.4	1.5	10.248	-0.152	-0.10	-1%	-0.10
3,3',4,4',5,5'-HxCB 169	0.0300	9.3	1.2	10.450	1.150	0.96	12%	0.96
<b>SUM TEQ</b>		1.324	0.186	1.343	0.018	0.10	1%	0.10

\*absolute difference=Test sample-CRM Certified value

\*Relative percent difference=(Test Sample-CRM Certified value)/(CRM Certified value )

**Supplemental Table 6.** Difference of PCDD/Fs and DL-PCBs in Taiwan food presented in upper and lower bond.

Food group	N	upper bond	lower bond	difference	RPD(%)
<b><i>Cereals, grains, tubers and roots</i></b>					
Rice and its products	65	0.0177	0.0128	0.0049	0.606
Wheat and its products	52	0.0169	0.0108	0.0061	1.088
Carbohydrate's tubers, roots, and their products	21	0.0103	0.0073	0.0030	0.596
<b><i>Beans and nuts</i></b>					
Beans	15	0.0337	0.0282	0.0055	1.790
Bean processed products	20	0.0054	0.0039	0.0014	0.883
Nuts and its products	4	0.0200	0.0107	0.0093	0.998
<b><i>Fats and oils</i></b>					
Vegetable oils	28	0.0836	0.0752	0.0083	0.206
Animal fats	8	0.1639	0.1636	0.0003	0.002
Others	5	0.0198	0.0173	0.0025	0.170
<b><i>Poultry and their products</i></b>					
Chicken and its products	96	0.0314	0.0312	0.0002	0.013
Duck and its products	88	0.0880	0.0879	0.0001	0.003
Goose and its products	63	0.0842	0.0842	0.0001	0.001
<b><i>Livestock and their products</i></b>					
Pork and its products	163	0.0315	0.0305	0.0011	0.132
Beef and its products	94	0.1038	0.1036	0.0002	0.020
Mutton and its products	81	0.1793	0.1791	0.0002	0.015
<b><i>Fish and Aquatic Products</i></b>					
Freshwater fish	70	0.2463	0.2461	0.0002	0.003
Marine fish	266	0.4774	0.4771	0.0003	0.008
Fish and its products	89	0.2203	0.2200	0.0003	0.011
Other aquatic animals and their products	121	0.1922	0.1917	0.0005	0.026

Unit: pg WHO<sub>05</sub>-TEQ<sub>PCDD/F+PCB</sub> g<sup>-1</sup> wet weight

**Supplemental Table 6.** Difference of PCDD/Fs and DL-PCBs in Taiwan food presented in upper and lower bond (cont'd).

Food group	N	upper bond	lower bond	difference	RPD(%)
<b><i>Eggs</i></b>					
Chicken eggs	89	0.0524	0.0519	0.0005	0.020
Duck eggs	63	0.2112	0.2111	0.0002	0.002
Other eggs	44	0.1480	0.1477	0.0003	0.008
<b><i>Dairy</i></b>					
Whole fat milk	204	0.0373	0.0373	0.00004	0.003
Low fat/fat free milk	6	0.0141	0.0140	0.0001	0.008
Whole fat sheep milk	24	0.0336	0.0336	<0.0001	0.001
Fermented milk	14	0.0193	0.0192	0.0001	0.013
Other milk	10	0.0352	0.0346	0.0006	0.139
Powdered milk	13	0.0468	0.0460	0.0008	0.094
Cheese	13	0.1941	0.1940	0.0001	0.001
<b><i>Fruits</i></b>					
Berries	32	0.0059	0.0042	0.0017	0.702
Pomaceous fruits	9	0.0039	0.0030	0.0010	0.575
Stone fruits	9	0.0063	0.0057	0.0006	0.633
Melon and fruit	6	0.0025	0.0016	0.0009	0.927
Citrus Fruit	9	0.0049	0.0035	0.0013	0.967
Sugar-cane	5	0.0056	0.0034	0.0022	0.761
<b><i>Vegetables</i></b>					
Leafy vegetables	203	0.0143	0.0140	0.0003	0.128
Fruit crops	12	0.0063	0.0060	0.0003	0.120
Bean sprouts	16	0.0070	0.0065	0.0005	0.352
Gourd	25	0.0024	0.0020	0.0004	2.771
Stem vegetables	76	0.0056	0.0050	0.0007	0.413
Mushrooms	32	0.0088	0.0081	0.0007	0.440
Others	7	0.0083	0.0045	0.0038	5.072



**Supplemental Table 6.** Difference of PCDD/Fs and DL-PCBs in Taiwan food presented in upper and lower bond (cont'd).

Food group	N	upper bond	lower bond	difference	RPD(%)
<i>Seasonings</i>					
Salt	5	0.0150	0.0120	0.0030	0.380
MSG	1	0.0057	0.0049	0.0008	0.168
Soy sauce	18	0.0283	0.0265	0.0018	0.267
Curry sauce	17	0.0279	0.0249	0.0029	0.270
<i>Composite foods and</i>					
<i>Soups</i>					
Rice	22	0.0091	0.0074	0.0017	0.541
Wheat	90	0.0251	0.0235	0.0016	0.135
Others	2	0.0662	0.0637	0.0025	0.317
<i>Candies and Snacks</i>	11	0.0176	0.0150	0.0027	0.351
<i>Beverages</i>	5	0.0046	0.0041	0.0006	0.154

Note: PCDDs, polychlorinated dibenzo-*p*-dioxins; PCDFs, polychlorinated dibenzofurans; DL-PCBs, dioxin-like polychlorinated biphenyls

**Supplemental Table 7.** Overview of dietary intake of PCDD/Fs and DL-PCBs (pg total TEQ kg<sup>-1</sup> bw day<sup>-1</sup>) obtained from other studies

Country	Sampling year	Survey method	WHO-TEF	Adults	Young People	Scenario	Reference
China	2008	TDS	1998	1.36	n.a.	MB	Zhang et al., 2008
France	2012	TDS	1998	0.57	0.89	MB	Sirot et al., 2012
Belgium	2010	24h/FFQ	2005	0.61	n.a.	MB	Windal et al., 2010
Europe	2012	Monitoring	2005	0.57-1.67	1.08-2.54	ND	EFSA, 2012
Finland	2003	Market basket	1998	1.5	n.a.	ND	Kirivanta et al., 2004
Japan	2008	3 Day Dietary Record	1998	1.06	n.a.	LB	Arisawa et al., 2008
Australia	2011	TDS	1998	0.12-0.52	n.a.	LB-UB	FSANZ, 2011
Spain	2011	24h	Calux	1.13-1.58	2.04-2.76	LB-UB	Quijano et al., 2017
United Kingdom	2012	TDS	2005	0.52	n.a.	UB	Bramwell et al., 2016
Ireland	2003-10	4 Day Dietary Record	2005	0.3	n.a.	UB	Tlustos et al., 2014
Italy	2013-2016	3 Day Dietary Record	2005	0.9	1.16-1.98	UB	Diletti et al., 2018
Taiwan	2013-2018	24h	2005	0.172-0.360/ 0.186-0.386	0.052-0.561/ 0.057-0.624	LB-UB	This study
Taiwan	2013-2018	24h	1998	0.190-0.403/ 0.204-0.429	0.058-0.629 /0.062-0.689	LB-UB	This study

n.a.: no data available in the study

LB: Lower bound; MB: Medium bound; UB: Upper bound

European countries included in EFSA, 2012: Iceland, Norway, Hungary, Latvia, Slovakia, Italy, Spain, Cyprus, Belgium, Ireland, Lithuania, Luxembourg, Romania, Bulgaria, Malta, Portugal, Germany, United Kingdom, Denmark, Italy, Norway, Estonia, Austria

Notes: Total TEQ = sum WHO TEQ PCDD/F+DL-PCB; UB, upper bound (<LOQ = LOQ); MB, medium bound (<LOQ = 0.5LOQ); LB, lower bound (<LOQ = 0); n.a., not available.