

**Dioxins and Dioxin-Like Compounds
In the U.S. Domestic Meat and Poultry Supply**

INTRODUCTION

Between May 2002 and May 2003, the U.S. Department of Agriculture's (USDA)

results were below 2.0 ppt TEQ on a fat basis. Two of 41 young chicken samples had highly elevated levels of DLCs (25-31 ppt TEQ

The 2002–2003 survey was conducted under the FSIS National Residue Program (NRP). Under the NRP, FSIS conducts testing for residues from pesticides, animal drugs, natural contaminants, and potentially dangerous chemicals. Samples are collected for monitoring, surveillance, enforcement, and exploratory projects testing. The survey was an exploratory project under the NRP because

one-half the LOD is the same as assuming that the non-detects are evenly spread between zero and the LOD. FSIS recognizes that results have also been reported using a value of zero for the non-detects, or other values such as the LOD divided by the square root of 2. Presenting data as $ND = LOD/2$, however, is a standard practice and a widely used

Table 3. Mean, Median, Minimum and Maximum TEQ Values for Dioxins/Furans, Dioxin-like PCBs, and Total DLCs by Slaughter Class

Slaughter Class (Number of samples)	TEQ Dioxins/	TEQ PCBs	Total TEQ DLCs
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133	AR	0.100	0.010	0.111
134	MN	0.100	0.010	0.110
135	MO	0.100	0.010	0.110
136	MB*	0.096	0.010	0.106

Note: Results expressed in parts per trillion (ppt). Data were not background subtracted. All results reported on a lipid basis. The mean TEQ for all 20 DLCs may not equal the

43	SD	0.769	0.130	0.899
44	IA	0.803	0.072	0.875
45	NE	0.804	0.055	0.858
46	TX	0.635	0.173	0.809
47	CA	0.496	0.310	0.806
48	KS	0.635	0.162	0.797
49	SD	0.699	0.094	0.794
50	ID	0.278	0.507	0.785
51	ON*	0.534	0.245	0.779
52	IA	0.605	0.153	0.758
53	TX	0.636	0.116	0.752
54	IA	0.675	0.071	0.746
55	NE	0.558	0.176	0.734
56	NE	0.620	0.106	0.726

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134	AR	0.112	0.038	0.150
135	TX	0.118	0.027	0.146
136	SC	0.116	0.029	0.145
137	AR	0.121	0.023	0.144
138	VA	0.115	0.029	0.144
139	AL	0.104	0.039	0.144
140	FL	0.105	0.034	0.139
141	AR	0.110	0.027	0.136
142	OK	0.113	0.023	0.135
143	AR	0.108	0.027	0.135
144	AR	0.114	0.021	0.135
145	AR	0.112	0.023	0.135
146	KY	0.108	0.025	0.134
147	NC	0.105	0.027	0.132
148	MS	0.111	0.020	0.131
149	AR	0.107	0.024	0.131
150	AR	0.106	0.024	0.130
151	MO	0.109	0.020	0.129

Note: Results expressed in parts per trillion (ppt). Data were not background subtracted.

for the 84 Young Turkeys Samples

	TEQ Dioxins/ furans	TEQ PCBs	Total TEQ DLCs
1	0.402	0.480	1.882
2	0.098	0.228	
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42	CA	0.368	0.182	0.551
43	NC	0.460	0.087	0.547
44	VA	0.378	0.167	0.546
45	PA	0.366	0.157	0.524

sum of the mean TEQs for dioxins/furans and PCBs due to rounding. A “-” indicates that producer state information is not available.

