

別添

平成15年度飼料等のダイオキシン類実態調査結果

(単位: pgTEQ/g)

品目	飼料の種類	PCDD+PCDF	Co-PCB	PCDD+PCDF+ Co-PCB
飼料原料 (国産・輸入)	魚粉	0.0176	0.332	0.350
		0.00002	0.053	0.053
		0.006	0.285	0.291
		N.D.	0.022	0.022
		0.010	0.515	0.525
		N.D.	0.046	0.046
		0.191	0.992	1.183
		0.303	1.08	1.38
		0.167	0.838	1.01
	水産加工副産物	0.003	0.065	0.068
		N.D.	0.018	0.018
		N.D.	0.318	0.318
		0.304	0.359	0.663
		0.964	0.198	1.16
		0.292	0.303	0.595
		0.921	0.232	1.15
	魚油	0.724	7.01	7.73
		1.72	12.3	14.0
		2.50	9.89	12.4
		1.08	8.73	9.81
		1.71	9.73	11.4
		3.06	10.4	13.5
		1.82	12.8	14.6
		0.898	9.57	10.5
		0.462	5.55	6.01
		1.13	3.32	4.45
		2.68	15.7	18.4
乾牧草等	乾牧草類	1.39	0.15	1.54
		0.252	0.095	0.347
		0.0001	0.016	0.016
		0.00007	0.005	0.005
		0.276	0.005	0.281
		0.057	0.037	0.094
	古畳利用稲わら	6.96	1.27	8.23
		2.99	0.664	3.65
		1.88	0.25	2.13
		1.44	0.471	1.91
配合飼料	畜産動物用	0.0001	0.002	0.002
		0.002	0.065	0.067
		0.0001	0.001	0.003
		0.0001	0.021	0.021
		0.00005	0.0009	0.001
		0.032	0.001	0.033

注1) 数値は有効数字4桁目を四捨五入して有効数字4桁で表示。

ただし、0.01以上0.1未満の数値はは小数点以下4桁目を四捨五入して表示。

また、0.01未満の数値は有効数字1桁で表示。

2) N.D.は不検出(定量値が定量下限値未満)を示す。

別表1 魚粉中のダイオキシン類の異性体濃度 (pg/g) 及び毒性等量 (pg-TEQ/g)

化合物名		TEF	1	2	3	4	5	6	7	8	9
PCDD/DFs(pg/g)	2,3,7,8-TeCDD	1	tr.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	tr.	tr.
	1,2,3,7,8-PeCDD	1	tr.	tr.	N.D.	N.D.	N.D.	N.D.	0.08	0.12	0.08
	1,2,3,4,7,8-HxCDD	0.1	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	1,2,3,6,7,8-HxCDD	0.1	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	tr.	tr.
	1,2,3,7,8,9-HxCDD	0.1	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	1,2,3,4,6,7,8-HpCDD	0.01	tr.	tr.	N.D.	N.D.	0.30	N.D.	tr.	0.15	0.14
	OCDD	0.0001	0.28	0.22	tr.	tr.	2.72	tr.	0.77	1.70	0.56
	2,3,7,8-TeCDF	0.1	0.18	N.D.	0.06	N.D.	0.06	N.D.	0.19	0.38	0.12
	1,2,3,7,8-PeCDF	0.05	tr.	N.D.	N.D.	N.D.	N.D.	N.D.	0.08	0.12	0.07
	2,3,4,7,8-PeCDF	0.5	tr.	tr.	N.D.	N.D.	N.D.	N.D.	0.18	0.27	0.14
	1,2,3,4,7,8-HxCDF	0.1	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	1,2,3,6,7,8-HxCDF	0.1	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	tr.	N.D.
	1,2,3,7,8,9-HxCDF	0.1	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	2,3,4,6,7,8-HxCDF	0.1	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	tr.	tr.
	1,2,3,4,6,7,8-HpCDF	0.01	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	tr.	tr.	tr.
	1,2,3,4,7,8,9-HpCDF	0.01	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
OCDF	0.0001	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	

Total PCDDs+PCDFs(pgTEQ/g)	0.0176	0.00002	0.01	0	0.01	0	0.191	0.303	0.167
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Co-PCBs (pg/g)			Co-PCBs (pg/g)								
			Non-Ortho PCBs	Mono-ortho PCBs							
Co-PCBs (pg/g)	3,4,4',5'-TeCB #81	0.0001	0.60	tr.	0.12	0.11	0.53	tr.	0.67	1.17	0.49
	3,3',4,4'-TeCB #77	0.0001	22.7	6.41	14.6	5.82	11.8	6.37	13.6	25.5	14.8
	3,3',4,4',5'-PeCB #126	0.1	2.45	0.43	2.32	0.15	4.28	0.37	7.73	7.48	5.74
	3,3',4,4',5,5'-HxCB #169	0.01	0.28	tr.	0.22	tr.	0.63	tr.	4.02	2.39	2.71
	2',3,4,4',5'-PeCB #123	0.0001	7.88	0.40	4.89	0.66	6.67	0.72	13.7	22.2	16.7
	2,3',4,4',5'-PeCB #118	0.0001	383	38.0	206	30.8	320	29.8	741	1420	1060
	2,3,4,4',5'-PeCB #114	0.0005	7.50	1.37	3.46	1.04	8.12	1.00	16.9	23.6	23.5
	2,3,3',4,4'-PeCB #105	0.0001	137	13.9	100	10.4	141	11.2	195	367	300
	2,3',4,4',5,5'-HxCB #167	0.00001	21.5	3.20	15.7	1.33	25.9	2.54	85.2	109	78.6
	2,3,3',4,4',5'-HxCB #156	0.0005	40.0	5.44	26.1	2.16	46.7	4.43	117	170	139
	2,3,3',4,4',5'-HxCB #157	0.0005	10.0	1.32	6.69	0.46	10.1	0.97	26.2	40.4	28.8
	2,3,3',4,4',5,5'-HpCB #189	0.0001	3.75	0.46	2.15	0.15	3.39	0.48	15.8	21.7	15.2

Total Co-PCBs(pgTEQ/g)	0.332	0.053	0.285	0.022	0.515	0.046	0.992	1.08	0.838
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Total(PCDD/DFs+Co-PCBs)(pgTEQ/g)	0.350	0.053	0.291	0.022	0.525	0.046	1.18	1.38	1.01
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定量下限値(検出下限値) 4-5CDD, 4-5CDF : 0.05(0.02)pg/g
 6-7CDD, 6-7CDF : 0.1(0.04)pg/g
 8CDD, 8CDF : 0.2(0.08)pg/g
 non-ortho PCB : 0.1(0.04)pg/g
 mono-ortho PCB : 0.5(0.2)pg/g
 TEF (毒性等価係数) 1997, WHO : N.D.は検出下限値未満、tr.は検出下限値以上定量下限値未満のものを表す
 : TEQ算出の際、定量下限未満の異性体については 0とした。

別表2 水産加工副産物中のダイオキシン類の異性体濃度(pg/g)及び毒性等量(pg-TEQ/g)

化合物名		TEF	1	2	3	4	5	6	7
PCDD/DFs(pg/g)	2,3,7,8-TeCDD	1	N.D.	N.D.	N.D.	tr.	0.08	N.D.	0.12
	1,2,3,7,8-PeCDD	1	tr.	N.D.	N.D.	0.13	0.19	0.08	0.35
	1,2,3,4,7,8-HxCDD	0.1	N.D.	N.D.	N.D.	tr.	tr.	tr.	0.17
	1,2,3,6,7,8-HxCDD	0.1	N.D.	N.D.	N.D.	tr.	0.55	0.10	0.34
	1,2,3,7,8,9-HxCDD	0.1	N.D.	N.D.	N.D.	tr.	0.31	tr.	0.26
	1,2,3,4,6,7,8-HpCDD	0.01	0.24	N.D.	N.D.	0.18	21.8	1.29	2.45
	OCDD	0.0001	2.35	tr.	tr.	1.22	99.1	10.5	16.8
	2,3,7,8-TeCDF	0.1	tr.	N.D.	N.D.	0.19	0.71	0.16	0.96
	1,2,3,7,8-PeCDF	0.05	N.D.	N.D.	N.D.	0.60	0.76	0.14	0.43
	2,3,4,7,8-PeCDF	0.5	N.D.	N.D.	N.D.	0.17	0.37	0.25	0.34
	1,2,3,4,7,8-HxCDF	0.1	N.D.	N.D.	N.D.	0.15	0.33	0.12	0.21
	1,2,3,6,7,8-HxCDF	0.1	N.D.	N.D.	N.D.	0.17	0.33	0.11	0.18
	1,2,3,7,8,9-HxCDF	0.1	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	2,3,4,6,7,8-HxCDF	0.1	N.D.	N.D.	N.D.	tr.	0.13	0.13	0.18
	1,2,3,4,6,7,8-HpCDF	0.01	tr.	N.D.	N.D.	0.14	0.83	0.57	0.47
	1,2,3,4,7,8,9-HpCDF	0.01	N.D.	N.D.	N.D.	N.D.	tr.	N.D.	tr.
OCDF	0.0001	0.24	N.D.	N.D.	tr.	3.51	0.63	0.43	

Total PCDDs+PCDFs(pgTEQ/g)	0.003	0	0	0.304	0.964	0.292	0.921
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Co-PCBs (pg/g)	Non-Ortho PCBs	3,4,4',5'-TeCB #81	0.0001	0.13	0.24	0.79	0.64	0.65	0.68	0.65
		3,3',4,4'-TeCB #77	0.0001	5.22	9.09	12.9	31.4	8.76	15.7	13.0
		3,3',4,4',5'-PeCB #126	0.1	0.49	0.13	2.65	2.70	1.70	2.46	1.88
		3,3',4,4',5,5'-HxCB #169	0.01	0.11	tr.	0.49	0.46	0.56	0.78	0.49
	Mono-ortho PCBs	2',3,4,4',5'-PeCB #123	0.0001	1.50	0.36	4.47	5.48	1.89	3.88	3.17
		2,3',4,4',5'-PeCB #118	0.0001	79.6	27.2	226	289	87.8	152	158
		2,3,4,4',5'-PeCB #114	0.0005	1.79	0.77	6.14	8.19	2.13	5.14	4.55
		2,3,3',4,4'-PeCB #105	0.0001	24.7	8.55	72.4	184	31.7	60.3	64.7
		2,3',4,4',5,5'-HxCB #167	0.00001	2.94	0.28	11.6	14.2	9.53	19.5	10.7
		2,3,3',4,4',5'-HxCB #156	0.0005	4.81	0.45	21.6	44.6	11.4	34.7	19.9
		2,3,3',4,4',5'-HxCB #157	0.0005	1.51	tr.	5.86	12.4	3.58	9.11	4.94
		2,3,3',4,4',5,5'-HpCB #189	0.0001	0.44	N.D.	1.80	3.38	1.89	7.82	3.00

Total Co-PCBs(pgTEQ/g)	0.065	0.018	0.318	0.359	0.198	0.303	0.232
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Total(PCDD/DFs+Co-PCBs)(pgTEQ/g)	0.068	0.018	0.318	0.663	1.16	0.595	1.15
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定量下限値(検出下限値) 4-5CDD, 4-5CDF : 0.05(0.02)pg/g
 6-7CDD, 6-7CDF : 0.1(0.04)pg/g
 8CDD, 8CDF : 0.2(0.08)pg/g
 non-ortho PCB : 0.1(0.04)pg/g
 mono-ortho PCB : 0.5(0.2)pg/g
 TEF(毒性等価係数) 1997, WHO : N.D.は検出下限値未満、tr.は検出下限値以上定量下限値未満のものを表す
 : TEQ算出の際、定量下限未満の異性体については0とした。

別表4 乾牧草類中のダイオキシン類の異性体濃度(pg/g)及び毒性等量(pg-TEQ/g)

化合物名		TEF	1	2	3	4	5	6
PCDD/DFs(pg/g)	2,3,7,8-TeCDD	1	0.07	tr.	N.D.	N.D.	0.05	N.D.
	1,2,3,7,8-PeCDD	1	0.41	0.07	N.D.	N.D.	0.21	tr.
	1,2,3,4,7,8-HxCDD	0.1	0.33	tr.	N.D.	N.D.	N.D.	N.D.
	1,2,3,6,7,8-HxCDD	0.1	1.14	tr.	N.D.	N.D.	tr.	tr.
	1,2,3,7,8,9-HxCDD	0.1	0.93	tr.	N.D.	N.D.	N.D.	tr.
	1,2,3,4,6,7,8-HpCDD	0.01	16.6	0.49	tr.	tr.	tr.	0.58
	OCDD	0.0001	356	4.32	1.36	0.74	0.48	1.73
	2,3,7,8-TeCDF	0.1	0.65	0.28	tr.	N.D.	tr.	0.07
	1,2,3,7,8-PeCDF	0.05	0.29	0.21	N.D.	N.D.	0.32	0.06
	2,3,4,7,8-PeCDF	0.5	0.36	0.23	tr.	N.D.	tr.	0.05
	1,2,3,4,7,8-HxCDF	0.1	0.47	N.D.	N.D.	N.D.	tr.	0.11
	1,2,3,6,7,8-HxCDF	0.1	0.42	N.D.	N.D.	N.D.	tr.	tr.
	1,2,3,7,8,9-HxCDF	0.1	tr.	tr.	N.D.	N.D.	N.D.	N.D.
	2,3,4,6,7,8-HxCDF	0.1	0.79	0.16	N.D.	N.D.	N.D.	tr.
	1,2,3,4,6,7,8-HpCDF	0.01	3.03	0.38	N.D.	N.D.	tr.	0.35
	1,2,3,4,7,8,9-HpCDF	0.01	0.41	tr.	N.D.	N.D.	N.D.	N.D.
OCDF	0.0001	8.95	0.33	N.D.	N.D.	N.D.	0.55	

Total PCDDs+PCDFs(pgTEQ/g)	1.39	0.252	0.0001	0.00007	0.276	0.057
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Co-PCBs (pg/g)	Non-Ortho PCBs		TEF	1	2	3	4	5	6	
	化合物名	濃度								
Co-PCBs (pg/g)	Non-Ortho PCBs	3,4,4',5'-TeCB	#81	0.0001	0.70	0.88	0.27	0.24	0.22	0.56
		3,3',4,4'-TeCB	#77	0.0001	17.0	23.8	9.93	11.4	10.9	14.8
		3,3',4,4',5'-PeCB	#126	0.1	1.32	0.83	0.11	N.D.	tr.	0.26
	Mono-ortho PCBs	3,3',4,4',5,5'-HxCB	#169	0.01	0.33	0.13	N.D.	N.D.	N.D.	N.D.
		2',3,4,4',5'-PeCB	#123	0.0001	1.14	1.30	1.05	0.61	0.44	2.09
		2,3',4,4',5'-PeCB	#118	0.0001	56.7	45.4	25.4	17.6	23.6	51.7
		2,3,4,4',5'-PeCB	#114	0.0005	2.99	1.75	1.10	0.85	1.04	2.86
		2,3,3',4,4'-PeCB	#105	0.0001	35.4	18.5	12.3	9.23	10.2	23.8
		2,3',4,4',5,5'-HxCB	#167	0.00001	1.22	0.62	0.21	0.17	0.26	0.48
		2,3,3',4,4',5-HxCB	#156	0.0005	3.56	1.50	0.51	0.27	0.42	1.29
		2,3,3',4,4',5'-HxCB	#157	0.0005	1.11	0.41	N.D.	0.11	0.23	0.35
		2,3,3',4,4',5,5'-HpCB	#189	0.0001	0.74	0.23	N.D.	tr.	N.D.	N.D.

Total Co-PCBs(pgTEQ/g)	0.15	0.095	0.016	0.005	0.005	0.037
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Total(PCDD/DFs+Co-PCBs)(pgTEQ/g)	1.54	0.347	0.016	0.005	0.281	0.094
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定量下限値(検出下限値) 4-5CDD, 4-5CDF : 0.05(0.02)pg/g
 6-7CDD, 6-7CDF : 0.1(0.04)pg/g
 8CDD, 8CDF : 0.2(0.08)pg/g
 non-ortho PCB : 0.1(0.04)pg/g
 mono-ortho PCB : 0.5(0.2)pg/g
 TEF(毒性等価係数) 1997, WHO : N.D.は検出下限値未満、tr.は検出下限値以上定量下限値未満のものを表す
 : TEQ算出の際、定量下限未満の異性体については0とした。

別表3 飼料用魚油中のダイオキシン類の異性体濃度 (pg/g) 及び毒性等量 (pg-TEQ/g)

化合物名		TEF	1	2	3	4	5	6	7	8	9	10	11	12
PCDD/DFs(pg/g)	2,3,7,8-TeCDD	1	0.06	0.20	0.16	0.15	0.17	0.26	0.24	0.07	tr.	0.06	0.30	0.13
	1,2,3,7,8-PeCDD	1	0.21	0.56	0.77	0.48	0.53	0.86	0.58	0.32	0.13	0.59	0.90	0.65
	1,2,3,4,7,8-HxCDD	0.1	N.D.	tr.	0.16	tr.	tr.	0.19	tr.	N.D.	N.D.	N.D.	0.16	tr.
	1,2,3,6,7,8-HxCDD	0.1	0.11	0.25	0.48	0.41	0.36	0.56	0.25	0.10	tr.	tr.	0.44	0.33
	1,2,3,7,8,9-HxCDD	0.1	N.D.	tr.	0.13	0.12	tr.	0.14	tr.	N.D.	N.D.	N.D.	0.12	tr.
	1,2,3,4,6,7,8-HpCDD	0.01	tr.	0.14	0.31	0.29	0.23	0.64	0.20	tr.	tr.	tr.	0.50	0.16
	OCDD	0.0001	0.48	0.61	1.01	0.95	0.55	3.60	0.97	tr.	0.43	tr.	1.49	0.33
	2,3,7,8-TeCDF	0.1	0.74	1.95	3.00	2.01	2.21	3.34	1.92	0.69	1.43	1.58	2.83	1.22
	1,2,3,7,8-PeCDF	0.05	0.32	0.57	0.75	0.61	0.60	1.21	0.63	0.40	0.23	0.28	0.73	0.52
	2,3,4,7,8-PeCDF	0.5	0.70	1.32	2.07	0.15	1.30	2.58	1.39	0.78	0.35	0.61	2.02	0.85
	1,2,3,4,7,8-HxCDF	0.1	tr.	0.12	0.25	0.24	0.16	0.66	0.11	tr.	tr.	tr.	0.22	0.12
	1,2,3,6,7,8-HxCDF	0.1	tr.	0.20	0.32	0.31	0.19	0.40	0.18	tr.	tr.	tr.	0.20	0.16
	1,2,3,7,8,9-HxCDF	0.1	N.D.	tr.	N.D.	N.D.	tr.	tr.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	2,3,4,6,7,8-HxCDF	0.1	0.11	0.17	0.52	0.37	0.27	0.52	0.19	0.12	tr.	tr.	0.25	0.23
	1,2,3,4,6,7,8-HpCDF	0.01	tr.	0.19	0.22	0.21	0.19	0.38	0.21	tr.	tr.	tr.	0.18	0.13
	1,2,3,4,7,8,9-HpCDF	0.01	N.D.	N.D.	N.D.	N.D.	N.D.	tr.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
OCDF	0.0001	N.D.	N.D.	N.D.	tr.	N.D.	tr.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	

Total PCDDs+PCDFs(pgTEQ/g)	0.724	1.72	2.50	1.08	1.71	3.06	1.82	0.898	0.462	1.13	2.68	1.44
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Co-PCBs (pg/g)			Co-PCBs (pg/g)												
			Non-Ortho PCBs	Ortho PCBs	1	2	3	4	5	6	7	8	9	10	11
Co-PCBs (pg/g)	Non-Ortho PCBs	3,4,4',5'-TeCB #81	0.0001	4.95	12.7	15.6	9.34	12.0	13.4	12.8	7.65	6.61	7.87	22.1	9.88
		3,3',4,4'-TeCB #77	0.0001	65.8	203	176	128	175	244	202	82.6	92.0	101	381	173
		3,3',4,4',5'-PeCB #126	0.1	57.1	96.3	79.8	68.7	78.5	87.3	94.3	82.9	39.1	25.5	121	64.6
	Mono-ortho PCBs	3,3',4,4',5,5'-HxCB #169	0.01	27.0	29.0	20.7	19.6	24.9	25.0	30.0	38.5	11.4	5.50	26.8	19.2
		2',3,4,4',5'-PeCB #123	0.0001	94.7	164	133	126	13.3	120	214	66.3	131	74.1	284	90.2
		2,3',4,4',5'-PeCB #118	0.0001	3790	11800	8880	7990	11600	5170	16800	4160	5270	3420	18500	3850
		2,3,4,4',5'-PeCB #114	0.0005	111	214	6.03	201	16.2	157	220	98.7	185	107	327	151
		2,3,3',4,4'-PeCB #105	0.0001	1640	2380	2820	2360	3900	1470	2800	913	3410	1310	3390	1070
		2,3',4,4',5,5'-HxCB #167	0.00001	511	853	467	470	51.8	576	944	348	615	165	1090	405
		2,3,3',4,4',5'-HxCB #156	0.0005	636	1310	758	766	93.4	976	1430	504	842	259	1170	662
		2,3,3',4,4',5'-HxCB #157	0.0005	170	364	214	207	20.1	291	381	123	212	72.8	476	168
		2,3,3',4,4',5,5'-HpCB #189	0.0001	85.7	167	83.9	73.4	6.78	146	208	52.1	96.3	16.0	224	80.3

Total Co-PCBs(pgTEQ/g)	7.01	12.3	9.89	8.73	9.73	10.4	12.8	9.57	5.55	3.32	15.7	7.67
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Total(PCDD/DFs+Co-PCBs)(pgTEQ/g)	7.73	14.0	12.4	9.81	11.4	13.5	14.6	10.5	6.01	4.45	18.4	9.11
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定量下限値(検出下限値) 4-5CDD, 4-5CDF : 0.05(0.02)pg/g
 6-7CDD, 6-7CDF : 0.1(0.04)pg/g
 8CDD, 8CDF : 0.2(0.08)pg/g
 non-ortho PCB : 0.1(0.04)pg/g
 mono-ortho PCB : 0.5(0.2)pg/g
 TEF(毒性等価係数) 1997, WHO : N.D.は検出下限値未満、tr.は検出下限値以上定量下限値未満のものを表す
 : TEQ算出の際、定量下限未満の異性体については 0とした。

別表5 古畳利用稲わら中のダイオキシン類の異性体濃度(pg/g)及び毒性等量(pg-TEQ/g)

化合物名		TEF	1	2	3	4
PCDD/DFs(pg/g)	2,3,7,8-TeCDD	1	0.33	0.15	0.09	0.10
	1,2,3,7,8-PeCDD	1	1.78	1.28	0.43	0.55
	1,2,3,4,7,8-HxCDD	0.1	1.50	1.11	0.41	0.22
	1,2,3,6,7,8-HxCDD	0.1	2.77	2.27	0.68	0.91
	1,2,3,7,8,9-HxCDD	0.1	2.03	2.23	0.54	0.53
	1,2,3,4,6,7,8-HpCDD	0.01	18.8	26.1	6.17	5.20
	OCDD	0.0001	152	303	66.1	52.0
	2,3,7,8-TeCDF	0.1	2.54	0.77	0.99	0.70
	1,2,3,7,8-PeCDF	0.05	3.33	0.69	0.88	0.63
	2,3,4,7,8-PeCDF	0.5	3.67	0.61	1.03	0.54
	1,2,3,4,7,8-HxCDF	0.1	3.02	0.74	1.01	0.51
	1,2,3,6,7,8-HxCDF	0.1	4.17	0.79	1.16	0.54
	1,2,3,7,8,9-HxCDF	0.1	tr.	tr.	N.D.	N.D.
	2,3,4,6,7,8-HxCDF	0.1	8.62	0.99	1.99	0.78
	1,2,3,4,6,7,8-HpCDF	0.01	17.4	3.68	4.71	1.78
	1,2,3,4,7,8,9-HpCDF	0.01	1.61	0.40	0.62	0.18
OCDF	0.0001	7.32	5.57	4.37	1.39	

Total PCDDs+PCDFs(pgTEQ/g)	6.96	2.99	1.88	1.44
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Co-PCBs (pg/g)	Non-Ortho PCBs		TEF	1	2	3	4
	化合物名	濃度					
Mono-ortho PCBs	3,4,4',5'-TeCB	#81	0.0001	3.48	2.31	1.18	1.50
	3,3',4,4'-TeCB	#77	0.0001	37.1	51.1	20.0	27.4
	3,3',4,4',5'-PeCB	#126	0.1	11.6	5.63	2.20	4.26
	3,3',4,4',5,5'-HxCB	#169	0.01	3.91	0.83	0.55	0.77
	2',3,4,4',5'-PeCB	#123	0.0001	6.91	8.15	2.39	3.61
	2,3',4,4',5'-PeCB	#118	0.0001	226	394	102	137
	2,3,4,4',5'-PeCB	#114	0.0005	8.14	11.9	3.56	4.81
	2,3,3',4,4'-PeCB	#105	0.0001	93.0	169	43.6	65.5
	2,3',4,4',5,5'-HxCB	#167	0.00001	10.8	14.8	3.51	6.86
	2,3,3',4,4',5'-HxCB	#156	0.0005	36.1	38.6	8.21	17.3
	2,3,3',4,4',5'-HxCB	#157	0.0005	9.56	9.07	2.64	5.60
	2,3,3',4,4',5,5'-HpCB	#189	0.0001	6.91	2.07	1.32	1.73

Total Co-PCBs(pgTEQ/g)	1.27	0.664	0.25	0.471
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Total(PCDD/DFs+Co-PCBs)(pgTEQ/g)	8.23	3.65	2.13	1.91
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定量下限値(検出下限値) 4-5CDD, 4-5CDF : 0.05(0.02)pg/g
 6-7CDD, 6-7CDF : 0.1(0.04)pg/g
 8CDD, 8CDF : 0.2(0.08)pg/g
 non-ortho PCB : 0.1(0.04)pg/g
 mono-ortho PCB : 0.5(0.2)pg/g
 TEF(毒性等価係数) 1997, WHO : N.D.は検出下限値未満、tr.は検出下限値以上定量下限値未満のものを表す
 : TEQ算出の際、定量下限未満の異性体については0とした。

別表6 配合飼料中のダイオキシン類の異性体濃度(pg/g)及び毒性等量(pg-TEQ/g)

化合物名		TEF	1	2	3	4	5	6
PCDD/DFs(pg/g)	2,3,7,8-TeCDD	1	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	1,2,3,7,8-PeCDD	1	N.D.	N.D.	N.D.	N.D.	N.D.	tr.
	1,2,3,4,7,8-HxCDD	0.1	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
	1,2,3,6,7,8-HxCDD	0.1	N.D.	N.D.	N.D.	N.D.	N.D.	tr.
	1,2,3,7,8,9-HxCDD	0.1	N.D.	N.D.	N.D.	N.D.	N.D.	tr.
	1,2,3,4,6,7,8-HpCDD	0.01	tr.	0.14	tr.	tr.	N.D.	tr.
	OCDD	0.0001	1.70	1.45	1.20	1.16	0.48	2.11
	2,3,7,8-TeCDF	0.1	N.D.	N.D.	N.D.	N.D.	N.D.	tr.
	1,2,3,7,8-PeCDF	0.05	N.D.	N.D.	N.D.	N.D.	tr.	tr.
	2,3,4,7,8-PeCDF	0.5	N.D.	N.D.	N.D.	N.D.	N.D.	0.06
	1,2,3,4,7,8-HxCDF	0.1	N.D.	N.D.	N.D.	N.D.	tr.	tr.
	1,2,3,6,7,8-HxCDF	0.1	N.D.	N.D.	N.D.	N.D.	tr.	N.D.
	1,2,3,7,8,9-HxCDF	0.1	N.D.	N.D.	N.D.	N.D.	N.D.	tr.
	2,3,4,6,7,8-HxCDF	0.1	N.D.	N.D.	N.D.	N.D.	N.D.	tr.
	1,2,3,4,6,7,8-HpCDF	0.01	N.D.	N.D.	N.D.	N.D.	N.D.	tr.
	1,2,3,4,7,8,9-HpCDF	0.01	N.D.	N.D.	N.D.	N.D.	N.D.	tr.
OCDF	0.0001	N.D.	N.D.	N.D.	N.D.	N.D.	tr.	

Total PCDDs+PCDFs(pgTEQ/g)	0.0001	0.002	0.0001	0.0001	0.00005	0.032
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Co-PCBs (pg/g)	Non-Ortho PCBs		Mono-ortho PCBs						
	化合物名	濃度	TEF	1	2	3	4	5	6
Co-PCBs (pg/g)	3,4,4',5'-TeCB	#81	0.0001	tr.	0.14	tr.	tr.	tr.	tr.
	3,3',4,4'-TeCB	#77	0.0001	4.89	8.47	2.92	6.43	2.71	5.12
	3,3',4,4',5'-PeCB	#126	0.1	N.D.	0.49	N.D.	0.15	N.D.	tr.
	3,3',4,4',5,5'-HxCB	#169	0.01	N.D.	0.21	N.D.	tr.	N.D.	N.D.
	2',3,4,4',5'-PeCB	#123	0.0001	0.36	1.14	0.13	0.55	tr.	0.12
	2,3',4,4',5'-PeCB	#118	0.0001	8.75	58.8	3.19	23.2	3.98	4.16
	2,3,4,4',5'-PeCB	#114	0.0005	0.47	1.43	0.11	0.50	tr.	tr.
	2,3,3',4,4'-PeCB	#105	0.0001	4.91	16.3	1.06	6.85	1.38	1.64
	2,3',4,4',5,5'-HxCB	#167	0.00001	0.20	3.78	0.13	1.45	0.12	tr.
	2,3,3',4,4',5'-HxCB	#156	0.0005	0.33	6.80	0.22	2.24	0.25	0.30
	2,3,3',4,4',5'-HxCB	#157	0.0005	tr.	1.77	tr.	0.57	N.D.	tr.
	2,3,3',4,4',5,5'-HpCB	#189	0.0001	N.D.	0.66	N.D.	0.28	N.D.	N.D.

Total Co-PCBs(pgTEQ/g)	0.002	0.065	0.001	0.021	0.0009	0.001
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Total(PCDD/DFs+Co-PCBs)(pgTEQ/g)	0.002	0.067	0.001	0.021	0.001	0.033
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定量下限値(検出下限値) 4-5CDD, 4-5CDF : 0.05(0.02)pg/g
 6-7CDD, 6-7CDF : 0.1(0.04)pg/g
 8CDD, 8CDF : 0.2(0.08)pg/g
 non-ortho PCB : 0.1(0.04)pg/g
 mono-ortho PCB : 0.5(0.2)pg/g
 TEF(毒性等価係数) 1997, WHO : N.D.は検出下限値未満、tr.は検出下限値以上定量下限値未満のものを表す
 : TEQ算出の際、定量下限未満の異性体については0とした。