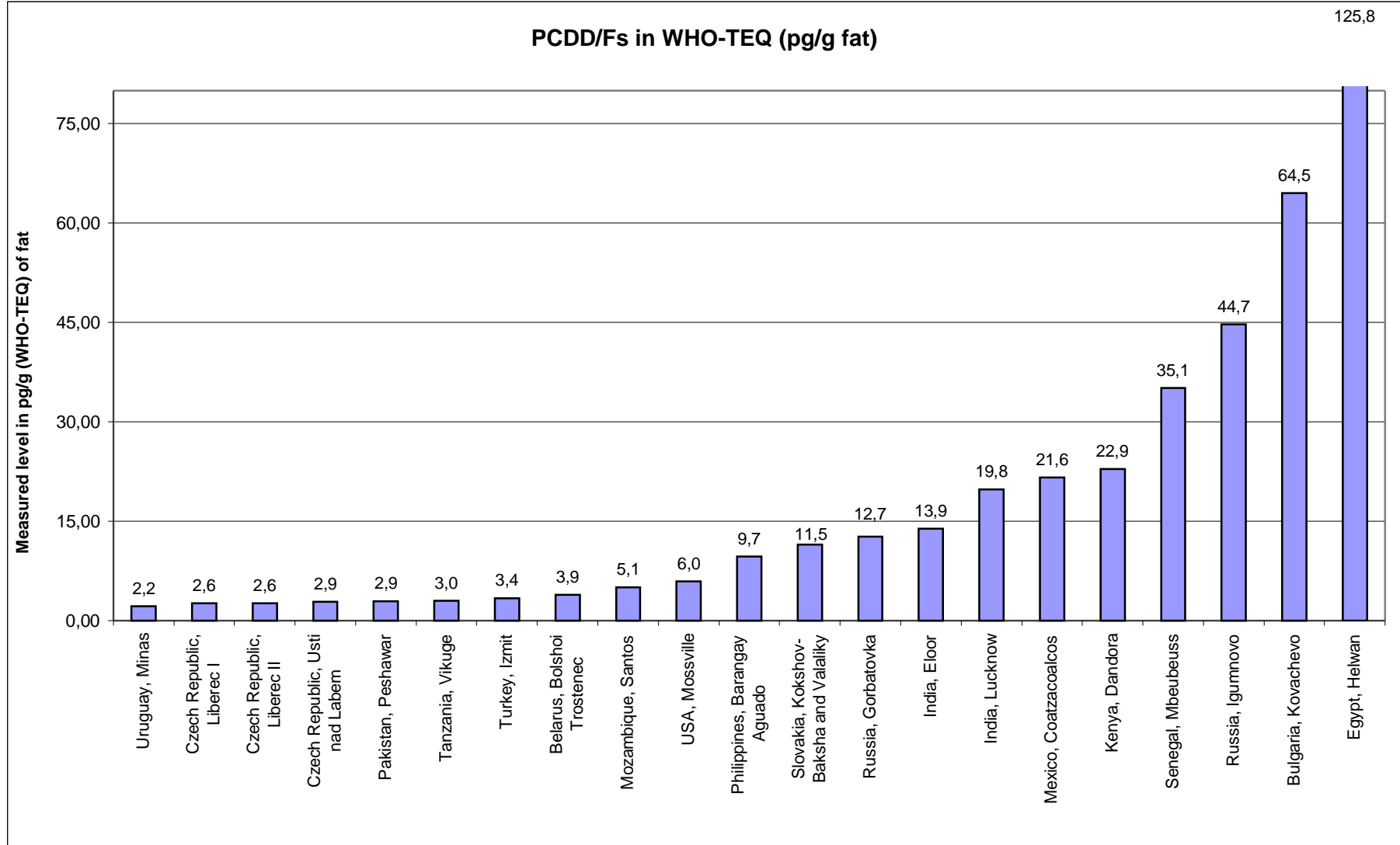


## ANNEX 7:

### U-POPs in free range chicken eggs from 21 locations in 17 countries, 5 continents: Summarizing tables and graphs

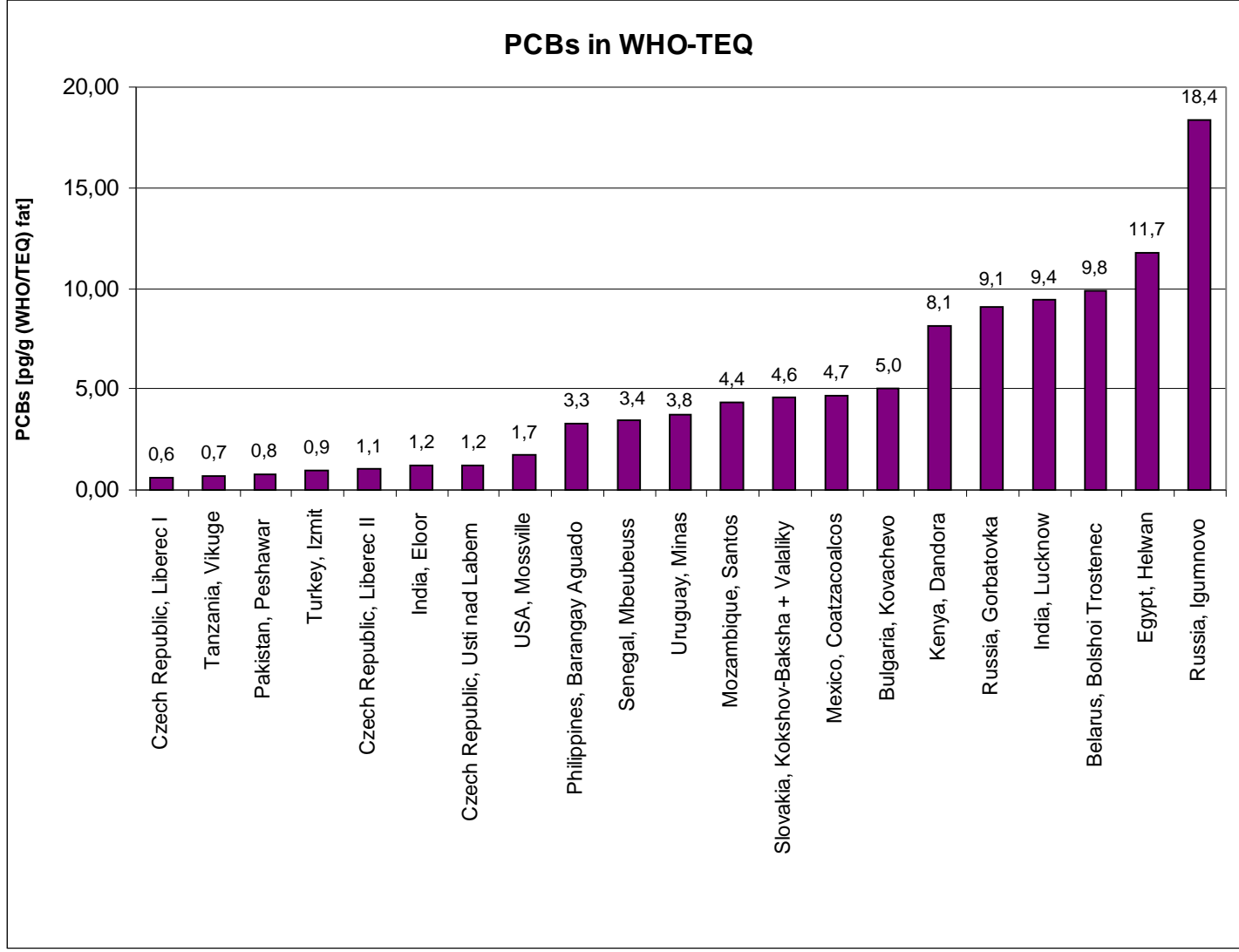
Levels of dioxins (PCDD/Fs) in pool samples from 17 countries, 20 locations, different parts of world

Country/locality	Year	Number of analyzed eggs	Measured level in pg/g (WHO-TEQ) of fat	Source of information
Uruguay, Minas	2005	8/1 pool	2,18	Axys Varilab 2005
Czech Republic, Liberec I	2005	3/1 pool	2,61	Axys Varilab 2005
Czech Republic, Liberec II	2005	3/1 pool	2,63	Axys Varilab 2005
Czech Republic, Usti nad Labem	2005	6/1 pool	2,90	Axys Varilab 2005
Pakistan, Peshawar	2005	3/1 pool	2,91	Axys Varilab 2005
Tanzania, Vikuge	2005	6/1 pool	3,03	Axys Varilab 2005
Turkey, Izmit	2005	6/1 pool	3,37	Axys Varilab 2005
Belarus, Bolshoi Trostenec	2005	6/1 pool	3,91	Axys Varilab 2005
Mozambique, Santos	2005	6/1 pool	5,08	Axys Varilab 2005
USA, Mossville	2005	6/1 pool	5,97	Axys Varilab 2005
Philippines, Barangay Aguado	2005	6/1 pool	9,68	Axys Varilab 2005
Slovakia, Kokshov-Baksha and Valaliky	2005	6/1 pool	11,52	Axys Varilab 2005
Russia, Gorbatovka	2005	4/1 pool	12,68	Axys Varilab 2005
India, Eloor	2005	6/1 pool	13,91	Axys Varilab 2005
India, Lucknow	2005	4/1 pool	19,80	Axys Varilab 2005
Mexico, Coatzacoalcos	2005	6/1 pool	21,63	Axys Varilab 2005
Kenya, Dandora	2004	6/1 pool	22,92	Axys Varilab 2005
Senegal, Mbeubeuss	2005	6/1 pool	35,10	Axys Varilab 2005
Russia, Igumnovo	2005	4/1 pool	44,69	Axys Varilab 2005
Bulgaria, Kovachevo	2005	6/1 pool	64,54	Axys Varilab 2005
Egypt, Helwan	2005	6/1 pool	125,78	Axys Varilab 2005



**Levels of PCBs in WHO-TEQ in pool samples from 17 countries, 20 locations, different parts of world**

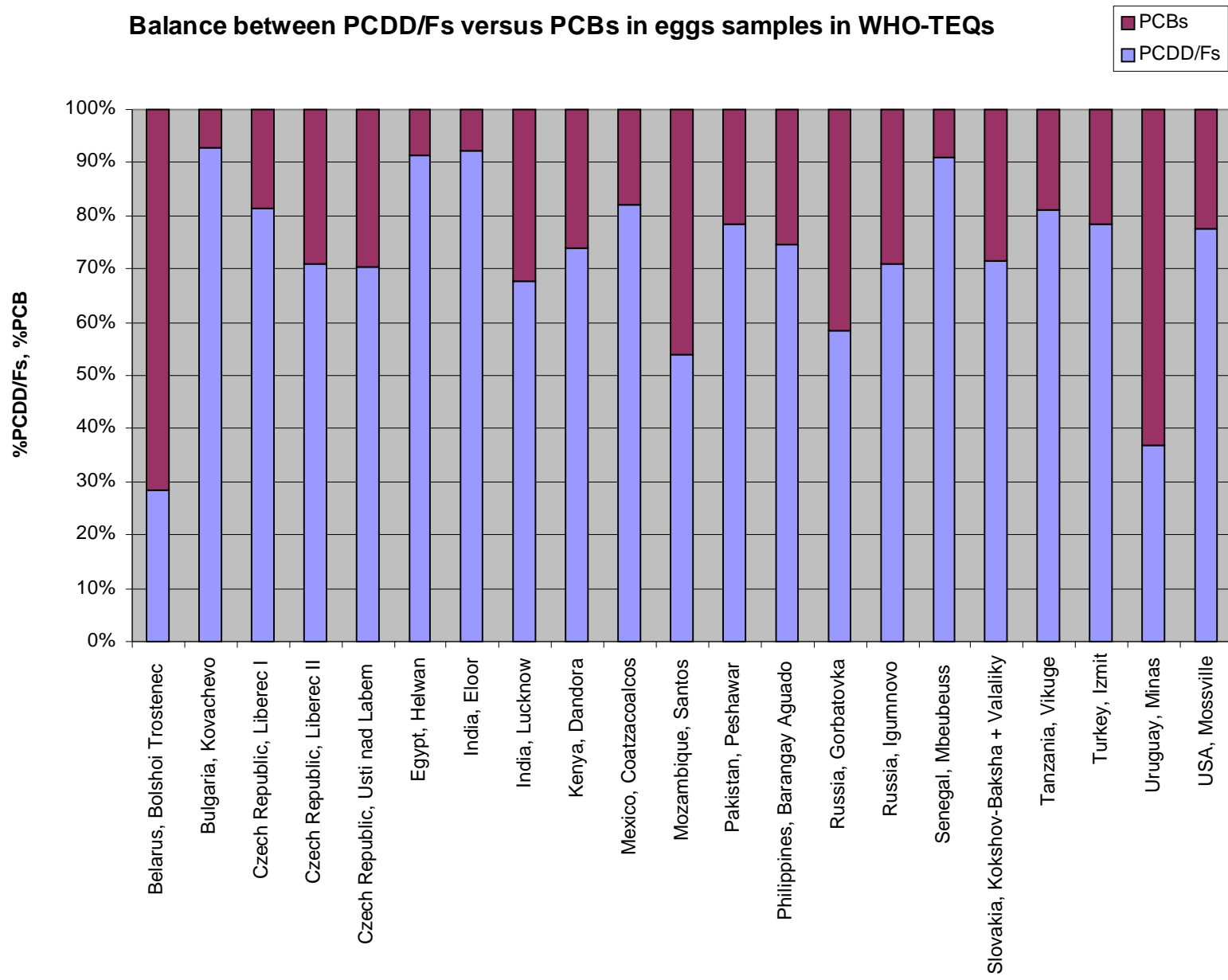
Country/locality	Year	Number of analyzed eggs	Measured level in pg/g (WHO-TEQ) of fat	Source of information
Czech Republic, Liberec I	2005	3/1 pool	0,60	Axys Varilab 2005
Tanzania, Vikuge	2005	6/1 pool	0,70	Axys Varilab 2005
Pakistan, Peshawar	2005	3/1 pool	0,80	Axys Varilab 2005
Turkey, Izmit	2005	6/1 pool	0,93	Axys Varilab 2005
Czech Republic, Liberec II	2005	3/1 pool	1,07	Axys Varilab 2005
India, Eloor	2005	6/1 pool	1,17	Axys Varilab 2005
Czech Republic, Usti nad Labem	2005	6/1 pool	1,22	Axys Varilab 2005
USA, Mossville	2005	6/1 pool	1,74	Axys Varilab 2005
Philippines, Barangay Aguado	2005	6/1 pool	3,30	Axys Varilab 2005
Senegal, Mbeubeuss	2005	6/1 pool	3,44	Axys Varilab 2005
Uruguay, Minas	2005	8/1 pool	3,75	Axys Varilab 2005
Mozambique, Santos	2005	6/1 pool	4,37	Axys Varilab 2005
Slovakia, Kokshov-Baksha + Valaliky	2005	6/1 pool	4,60	Axys Varilab 2005
Mexico, Coatzacoalcos	2005	6/1 pool	4,69	Axys Varilab 2005
Bulgaria, Kovachevo	2005	6/1 pool	5,03	Axys Varilab 2005
Kenya, Dandora	2004	6/1 pool	8,10	Axys Varilab 2005
Russia, Gorbatovka	2005	4/1 pool	9,08	Axys Varilab 2005
India, Lucknow	2005	4/1 pool	9,40	Axys Varilab 2005
Belarus, Bolshoi Trostenec	2005	6/1 pool	9,83	Axys Varilab 2005
Egypt, Helwan	2005	6/1 pool	11,74	Axys Varilab 2005
Russia, Igumnovo	2005	4/1 pool	18,37	Axys Varilab 2005



### Balance between PCDD/Fs versus PCBs in eggs samples in WHO-TEQs

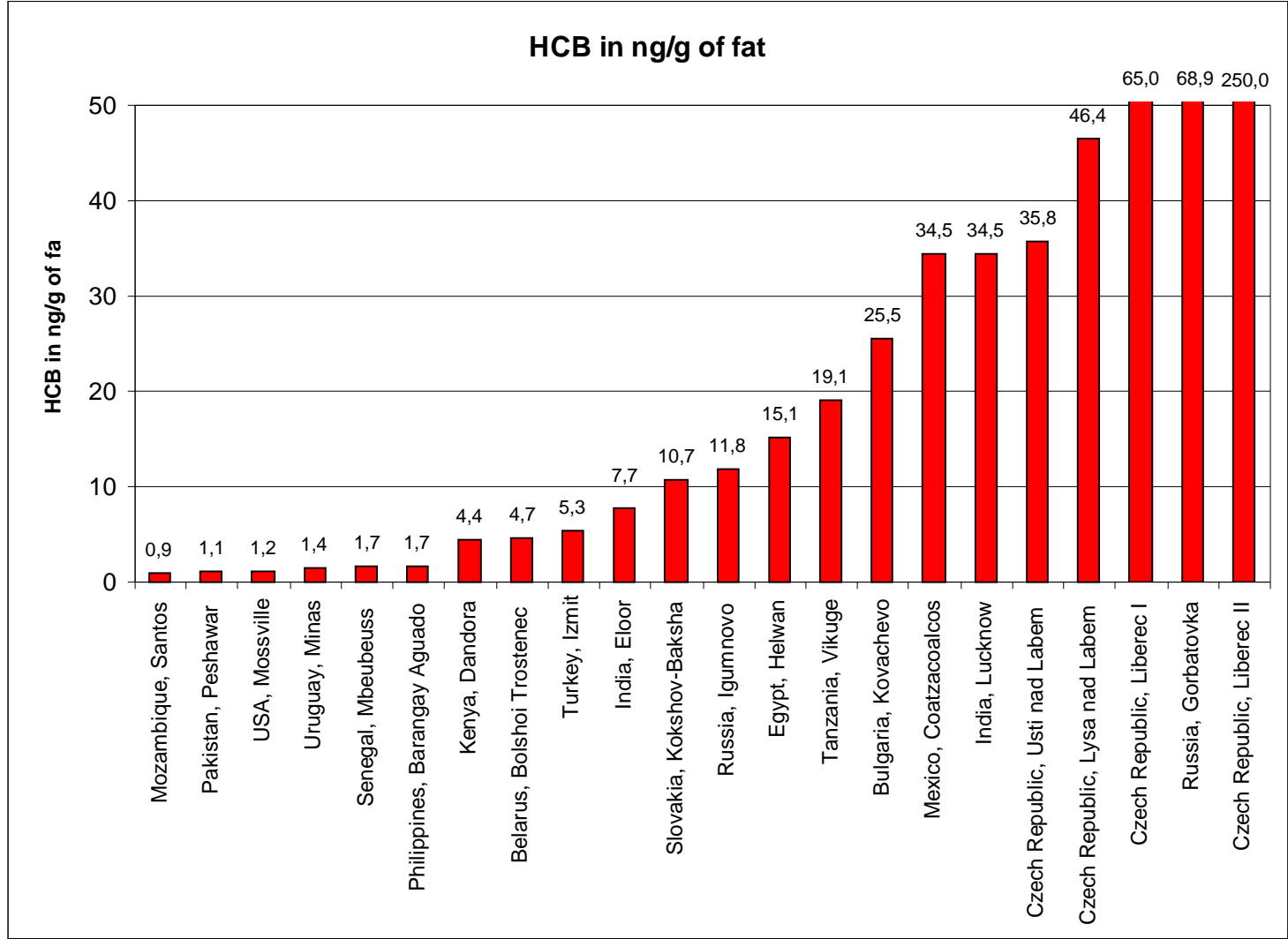
Country/locality	Year	PCDD/Fs	PCBs	Total WHO-TEQ	Source of information
Belarus, Bolshoi Trostenech	2005	3,91	9,83	13,74	Axys Varilab 2005
Bulgaria, Kovachevo	2005	64,54	5,03	69,57	Axys Varilab 2005
Czech Republic, Liberec I	2005	2,61	0,60	3,21	Axys Varilab 2005
Czech Republic, Liberec II	2005	2,63	1,07	3,70	Axys Varilab 2005
Czech Republic, Usti nad Labem	2005	2,90	1,22	4,12	Axys Varilab 2005
Egypt, Helwan	2005	125,78	11,74	137,52	Axys Varilab 2005
India, Eloor	2005	13,91	1,17	15,08	Axys Varilab 2005
India, Lucknow	2005	19,80	9,40	29,20	Axys Varilab 2005
Kenya, Dandora	2004	22,92	8,10	31,02	Axys Varilab 2005
Mexico, Coatzacoalcos	2005	21,63	4,69	26,32	Axys Varilab 2005
Mozambique, Santos	2005	5,08	4,37	9,45	Axys Varilab 2005
Pakistan, Peshawar	2005	2,91	0,80	3,71	Axys Varilab 2005
Philippines, Barangay Aguado	2005	9,68	3,30	12,98	Axys Varilab 2005
Russia, Gorbatovka	2005	12,68	9,08	21,76	Axys Varilab 2005
Russia, Igumnovo	2005	44,69	18,37	63,06	Axys Varilab 2005
Senegal, Mbeubeuss	2005	35,10	3,44	38,54	Axys Varilab 2005
Slovakia, Kokshov-Baksha + Valaliky	2005	11,52	4,60	16,12	Axys Varilab 2005
Tanzania, Vikuge	2005	3,03	0,70	3,73	Axys Varilab 2005
Turkey, Izmit	2005	3,37	0,93	4,30	Axys Varilab 2005
Uruguay, Minas	2005	2,18	3,75	5,93	Axys Varilab 2005
USA, Mossville	2005	5,97	1,74	7,71	Axys Varilab 2005

Balance between PCDD/Fs versus PCBs in eggs samples in WHO-TEQs



### Levels of HCB in eggs samples from 17 countries, 21 locations, different parts of world

Country	Year	Number of analyzed eggs	Measured level in ng/g of fat	Source of information
Mozambique, Santos	2005	6/1 pool	0,9	Axys Varilab 2005
Pakistan, Peshawar	2005	3/1 pool	1,1	Axys Varilab 2005
USA, Mossville	2005	6/1 pool	1,2	Axys Varilab 2005
Uruguay, Minas	2005	8/1 pool	1,4	Axys Varilab 2005
Senegal, Mbeubeuss	2005	6/1 pool	1,7	Axys Varilab 2005
Philippines, Barangay Aguado	2005	6/1 pool	1,7	Axys Varilab 2005
Kenya, Dandora	2004	6/1 pool	4,4	Axys Varilab 2005
Belarus, Bolshoi Trostenec	2005	6/1 pool	4,7	Axys Varilab 2005
Turkey, Izmit	2005	6/1 pool	5,3	Axys Varilab 2005
India, Eloor	2005	6/1 pool	7,7	Axys Varilab 2005
Slovakia, Kokshov-Baksha	2005	6/1 pool	10,7	Axys Varilab 2005
Russia, Igumnovo	2005	4/1 pool	11,8	Axys Varilab 2005
Egypt, Helwan	2005	6/1 pool	15,1	Axys Varilab 2005
Tanzania, Vikuge	2005	6/1 pool	19,1	Axys Varilab 2005
Bulgaria, Kovachevo	2005	6/1 pool	25,5	Axys Varilab 2005
Mexico, Coatzacoalcos	2005	6/1 pool	34,5	Axys Varilab 2005
India, Lucknow	2005	4/1 pool	34,5	Axys Varilab 2005
Czech Republic, Usti nad Labem	2005	6/1 pool	35,8	Axys Varilab 2005
Czech Republic, Lysa nad Labem	2004	1 individual	46,4	VSCHT 2005
Czech Republic, Liberec I	2005	3/1 pool	65,0	Axys Varilab 2005
Russia, Gorbatovka	2005	4/1 pool	68,9	Axys Varilab 2005
Czech Republic, Liberec II	2005	3/1 pool	250,0	Axys Varilab 2005





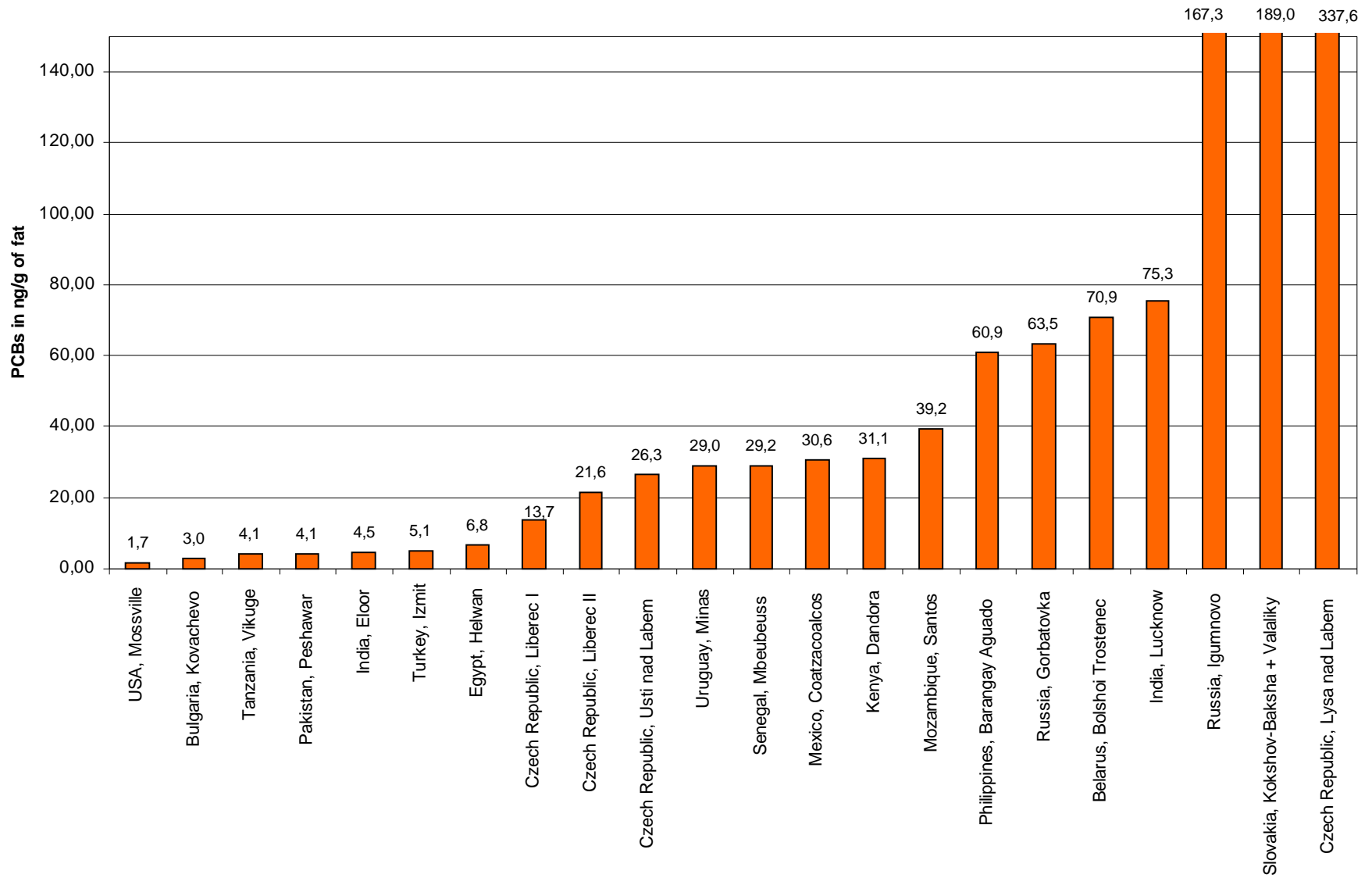
**Levels of seven PCBs congeners in eggs samples from 17 countries, 21 locations in different parts of world**

Country	Year	Number of analyzed eggs	Measured level in ng/g fat	Source of information
USA, Mossville	2005	6/1 pool	1,70	Axys Varilab 2005
Bulgaria, Kovachevo	2005	6/1 pool	3,04	Axys Varilab 2005
Tanzania, Vikuge	2005	6/1 pool	4,10	Axys Varilab 2005
Pakistan, Peshawar	2005	3/1 pool	4,14	Axys Varilab 2005
India, Eloor	2005	6/1 pool	4,46	Axys Varilab 2005
Turkey, Izmit	2005	6/1 pool	5,13	Axys Varilab 2005
Egypt, Helwan	2005	6/1 pool	6,80	Axys Varilab 2005
Czech Republic, Liberec I	2005	3/1 pool	13,69	Axys Varilab 2005
Czech Republic, Liberec II	2005	3/1 pool	21,61	Axys Varilab 2005
Czech Republic, Usti nad Labem	2005	6/1 pool	26,32	Axys Varilab 2005
Uruguay, Minas	2005	8/1 pool	29,00	Axys Varilab 2005
Senegal, Mbeubeuss	2005	6/1 pool	29,17	Axys Varilab 2005
Mexico, Coatzacoalcos	2005	6/1 pool	30,62	Axys Varilab 2005
Kenya, Dandora	2004	6/1 pool	31,10	Axys Varilab 2005
Mozambique, Santos	2005	6/1 pool	39,17	Axys Varilab 2005
Philippines, Barangay Aguado	2005	6/1 pool	60,90	Axys Varilab 2005
Russia, Gorbatovka	2005	4/1 pool	63,50	Axys Varilab 2005
Belarus, Bolshoi Trostenec	2005	6/1 pool	70,87	Axys Varilab 2005
India, Lucknow	2005	4/1 pool	75,34	Axys Varilab 2005
Russia, Igumnovo	2005	4/1 pool	167,30	Axys Varilab 2005
Slovakia, Kokshov-Baksha + Valaliky	2005	6/1 pool	189,00	Axys Varilab 2005
Czech Republic, Lysa nad Labem	2005	1 individual	337,60	VSHCT 2005

Notes:

**BE, barn eggs / BTE, battery eggs / FR, free range / NS, not specified / OE, organic eggs / EMN, eggs melange, nonpastorized**

### PCBs - seven congeners



## ANNEX 8:

### Summarized available results of PCDD/Fs, PCBs and HCB analysis in chicken eggs

#### PCDD/Fs: Mean values from groups of measured chicken eggs

Country	Year	Locality	Specification	Measured level in pg/g (WHO-TEQ) of fat	Source of information
Belgium	2004	Northern districts of Antwerp province	FR	1,50	Pussemeier, L. et al. 2004
Belgium	2004	Northern districts of Antwerp province	FR	9,90	Pussemeier, L. et al. 2004
Belgium	2004	Northern districts of Antwerp province	NFR	1,75	Pussemeier, L. et al. 2004
Finland	1990-94	whole country	NFR	1,55	SCOOP Task 2000
France	2004	Maincy	FR	42,47	Pirard, C. et al. 2004
France	1995-99	whole country	NFR	0,46	SCOOP Task 2000
Germany	1995	NS	FR	1,63	CLUA Freiburg 1995
Germany	1995	NS	FR	4,58	CLUA Freiburg 1995
Germany	1996	Rheinfelden area	FR	12,70	Malisch, R. et al. 1996
Germany	1996-1998	NS	NFR	1,00	UBA 2000
Germany	1990-94	whole country	NFR	1,08	SCOOP Task 2000
Germany	1995-99	whole country	NFR	1,16	SCOOP Task 2000
Germany	1996	background levels	NFR	1,24	Malisch, R. et al. 1996
Germany	1995	NS	NFR	1,36	CLUA Freiburg 1995
Germany	1993-1996		NFR	4,14	Malisch, R. 1998
Ireland	2002-2004	NS	FR	0,47	Pratt, I. et al. 2004, FSAI 2004
Ireland	2002-2004	NS	FR	1,30	Pratt, I. et al. 2004, FSAI 2004
Ireland	2002-2004	NS	NFR	0,31	Pratt, I. et al. 2004, FSAI 2004
Ireland	2002-2004	NS	NFR	0,36	Pratt, I. et al. 2004, FSAI 2004
Italy	1995-99	whole country	NFR	2,67	SCOOP Task 2000
Netherlands	2004	NS	FR	2,10	Anonymus 2004
Netherlands	2004	NS	FR	2,60	SAFO 2004
Netherlands	2004	NS	NFR	0,30	Anonymus 2004
Netherlands	1995-99	whole country	NFR	1,08	SCOOP Task 2000
Netherlands	1990-94	whole country	NFR	2,00	SCOOP Task 2000

Table continued

Country	Year	Locality	Specification	Measured level in pg/g (WHO-TEQ) of fat	Source of information
Norway	1990-94	whole country	NFR	1,97	SCOOP Task 2000
Spain	1996		NFR	1,34	Domingo et al. 1999
Sweden	1995-99	whole country	NFR	1,03	SCOOP Task 2000
UK	2002	Newcastle	FR	3,40	Pless-Mulloli, T. et al. 2003b
UK	2002	Newcastle	FR	5,50	Pless-Mulloli, T. et al. 2003b
UK	1990-94	whole country	NFR	1,77	SCOOP Task 2000

PCDD/Fs: Mean values from groups of measured chicken eggs

Country	Year	Locality	Specification	Measured level in pg/g (WHO-TEQ) of fat	Source of information
UK	before 1990	whole country	NFR	8,25	SCOOP Task 2000
USA	1994	California	FR	7,69	Harnly, M. E. et al. 2000
USA	1988	California	FR	16,15	Harnly, M. E. et al. 2000
USA	1994	California	FR	18,46	Harnly, M. E. et al. 2000
USA	1988 and 1994	California	FR	33,10	Harnly, M. E. et al. 2000
USA	1994	Southern Mississippi	NFR	0,29	Fiedler, H. et al. 1997

Notes: FR - free range  
 NFR - not free range  
 NS - not specified

## PCDD/Fs: Pool samples

Country	Year	Locality	Specification	Number of eggs/measured samples	Measured level in pg/g (WHO-TEQ) of fat	Source of information
CZ	2003	Klatovy II*	FR	12/1	3,40	Beranek, M. et al. 2003
CZ	2004	Beneshov*	FR	530/53	4,60	Axys Varilab 2004
CZ	2004	Lysa nad Labem*	FR	4/1	6,80	Petrlik, J. 2005
Finland	1991	16 largest farms	NFR	20/4	1,55	SCOOP Task 2000
Germany	1998	Lower Saxony	FR	80/8	0,75	SCOOP Task 2000
Germany	1998	Lower Saxony	FR	60/6	1,28	SCOOP Task 2000
Germany	1993		FR	410/41	1,51	SCOOP Task 2000
Germany	1993		FR	110/11	1,81	SCOOP Task 2000
Germany	1993		FR	230/23	1,91	SCOOP Task 2000
Germany	1992	Bavaria	FR	370/37	3,20	SCOOP Task 2000
Germany	1993		FR	12/1	4,39	SCOOP Task 2000
Germany	1996	Rheinfelden area	FR	NS	10,60	Malisch, R. et al. 1996
Germany	1996	Rheinfelden area	FR	NS	12,50	Malisch, R. et al. 1996
Germany	1996	Rheinfelden area	FR	NS	12,70	Malisch, R. et al. 1996
Germany	1996	Rheinfelden area	FR	NS	14,90	Malisch, R. et al. 1996
Germany	1992	Bavaria	NFR	230/23	0,81	SCOOP Task 2000
Germany	1997		NFR	290/29	0,97	SCOOP Task 2000
Germany	1997		NFR	310/31	0,99	SCOOP Task 2000
Germany	1996	background levels	NFR	NS	1,13	Malisch, R. et al. 1996
Germany	1996	background levels	NFR	NS	1,15	Malisch, R. et al. 1996
Germany	1993		NFR	200/20	1,16	SCOOP Task 2000
Germany	1993		NFR	1130/113	1,28	SCOOP Task 2000
Germany	1996	background levels	NFR	NS	1,32	Malisch, R. et al. 1996
Germany	1996	background levels	NFR	NS	1,35	Malisch, R. et al. 1996
Germany	1998	Lower Saxony	NFR	60/6	1,53	SCOOP Task 2000
Germany	1998	Lower Saxony	NFR	10/1	7,32	SCOOP Task 2000
Netherlands	2002	organic farm	FR	6/1	0,70	Traag, W. et al. 2002
Netherlands	2002	organic farm	FR	6/1	1,95	Traag, W. et al. 2002

## PCDD/Fs: Pool samples

Country	Year	Locality	Specification	Number of eggs/measured samples	Measured level in pg/g (WHO-TEQ) of fat	Source of information
Netherlands	2002	organic farm	FR	6/1	2,18	Traag, W. et al. 2002
Netherlands	2002	organic farm	FR	6/1	3,01	Traag, W. et al. 2002
Netherlands	2002	organic farm	FR	6/1	4,74	Traag, W. et al. 2002
Netherlands	2002	organic farm	FR	6/1	8,25	Traag, W. et al. 2002
Netherlands	1999	whole country	NFR	100/2	1,08	SCOOP Task 2000
Sweden	1999	whole country	NFR	32/4	1,03	SCOOP Task 2000
UK	2000	Newcastle	FR	3/1	0,20	Pless-Mulloli, T. et al. 2001
UK	2000	Newcastle - Coxlodge	FR	3/1	1,50	Pless-Mulloli, T. et al. 2001
UK	2000	Newcastle	FR	3/1	7,00	Pless-Mulloli, T. et al. 2001
UK	2000	Newcastle	FR	3/1	17,50	Pless-Mulloli, T. et al. 2001
UK	2000	Newcastle	FR	3/1	18,00	Pless-Mulloli, T. et al. 2001
UK	2000	Newcastle	FR	3/1	20,00	Pless-Mulloli, T. et al. 2001
UK	2000	Newcastle	FR	3/1	25,00	Pless-Mulloli, T. et al. 2001
UK	2000	Newcastle	FR	2/1	25,00	Pless-Mulloli, T. et al. 2001
UK	2000	Newcastle	FR	2/1	27,00	Pless-Mulloli, T. et al. 2001
UK	2000	Newcastle	FR	3/1	31,00	Pless-Mulloli, T. et al. 2001
UK	1992	whole country	NFR	24/1	1,77	SCOOP Task 2000
UK	1982	whole country	NFR	24/1	8,25	SCOOP Task 2000

### Notes:

FR - free range

NFR - not free range

NS - not specified

\* upper bound level, nd=LOD

\*\* in case there are more pool samples measured figure here is a mean from these analysis

**PCDD/Fs: Samples which were marked as maximum levels in references**

Country	Year	Locality	Specification	Measured level in pg/g (WHO-TEQ) of fat	Source of information
Belgium	1999	-	NFR	1,78	Niedersachsen Ministerium fuer Ernaehrung, Landwirtschaft und Forsten 1999
Belgium	1999	NS	NFR	713,10	Larebeke, N. van et al. 2001
EU	1990-99h	see comments	NFR	2,67	Hansen, E., Hansen, C. L. 2003
France	2004	Maincy	FR	121,55	Pirard, C. et al. 2004
Germany	1995	NS	FR	22,80	CLUA Freiburg 1995
Germany	1993	NS	FR	23,40	Fuerst 1993
Germany	1991	Rheinfelden area	FR	35,70	Malisch, R. et al. 1996
Germany		Rheinfelden area	FR	47,10	Malisch, R. et al. 1996
Germany	1992	Rheinfelden area	FR	514,00	Malisch, R. et al. 1996
Germany	1993	NS	NFR	2,30	Fuerst 1993
Germany	1995	NS	NFR	6,04	CLUA Freiburg 1995
Germany	1993 - 1996	NS	NFR	35,29	Malisch, R. 1998
Ireland	2002-2004	NS	NFR	0,51	Pratt, I. et al. 2004, FSAI 2004
Ireland	2002-2004	NS	NFR	0,58	Pratt, I. et al. 2004, FSAI 2004
Netherlands	2004	NS	NFR	1,50	Anonymus 2004
Russia	1994	Chapaevsk	FR	18,10	Sotskov, U., P., Revich, B., A. et al. 2000
UK	2002	Newcastle	FR	26,00	Pless-Mulloli, T. et al. 2003b
UK	1993 - 1994	Pontypool	FR	92,31	Lovett, A. A. et al. 1998 *]
USA	1994	California	FR	53,85	Harnly, M. E. et al. 2000
USA	1988	California	FR	69,23	Harnly, M. E. et al. 2000
USA	1988 and 1994	California	FR	69,23	Harnly, M. E. et al. 2000
USA	1994	Southern Mississippi	NFR	0,39	Fiedler, H. et al. 1997

Notes:

FR - free range

NFR - not free range

NS - not specified

\*] median level from 3 bantam chicken eggs samples measured close to hazardous waste incinerator

## PCDD/Fs: Measured levels in other home grown birds than chicken and/or specific chicken specie (bantam)

### WHOLE EGGS – BANTAM

Country	Year	Locality	Specification	Type of value	Measured level in pg/g (WHO-TEQ) of fat	Source of information
UK	1993-94	Pontyfelin House	FR	NS	12,00	Lovett, A. A. et al. 1998a
UK	2002	Newcastle	FR	individual	1,00	Pless-Mulloli, T. et al. 2003b
UK	1993-94	Pontyfelin House	FR	median	12,00	Lovett, A. A. et al. 1998b
UK	1993-94	Rural background locations	FR	median	0,60	Lovett, A. A. et al. 1998b
UK	1993-94	Rural background locations	FR	NS	0,60	Lovett, A. A. et al. 1998a
UK	2000	Newcastle	FR exposed to fly ash	pool	56,00	Pless-Mulloli, T. et al. 2001

### DUCK

Country	Year	Locality	Specification	Type of value	Measured level in pg/g (WHO-TEQ) of fat	Source of information
UK	2001	Anglesey	FR	composite	6,10	FSA 2001b, Rose, M. et al. 2003, FSA 2001c
UK	2001	Carmathenshire	FR	composite	1,70	FSA 2001b, Rose, M. et al. 2003, FSA 2001c
UK	1994-96	Not specified	eggs	max	49	FSA 2001a
UK	1993-94	Pontyfelin House	FR	median	3,80	Lovett, A. A. et al. 1998b
UK	1993-94	Panteg district	FR	median	1,00	Lovett, A. A. et al. 1998b
UK	1993-94	Rural background locations	FR	median	0,70	Lovett, A. A. et al. 1998b
UK	1994-96	Not specified	eggs	min	1,9	FSA 2001a
UK	1993-94	Pontyfelin House	FR	NS	3,80	Lovett, A. A. et al. 1998a
UK	1993-94	Panteg district	FR	NS	1,00	Lovett, A. A. et al. 1998a
UK	1993-94	Rural background locations	FR	NS	0,80	Lovett, A. A. et al. 1998a
UK	1995-96		FR mainly	NS	1,80	FSA 2001a in Pless-Mulloli, T. et al. 2003b
UK	2001	Anglesey	FR	NS	4,10	FSA 2001d, Rose, M. et al. 2003
UK	2000	Newcastle	FR exposed to fly ash	pool	9,00	Pless-Mulloli, T. et al. 2001

Notes: FR - free range / NFR - not free range / NS - not specified



**PCDD/Fs: Measured levels in other home grown birds than chicken and/or specific chicken specie (bantam)**

Country	Year	Locality	Specification	Type of value	Measured level in pg/g (WHO-TEQ) of fat	Source of information
UK	2002	Newcastle	FR	max	31,00	Pless-Mulloli, T. et al. 2003a
UK	2002	Newcastle	FR	max	11,00	Pless-Mulloli, T. et al. 2003a
UK	2002	Newcastle	FR	mean	9,30	Pless-Mulloli, T. et al. 2003a
UK	2002	Newcastle	FR	min	0,20	Pless-Mulloli, T. et al. 2003a
UK	2002	Newcastle	FR	min	1,00	Pless-Mulloli, T. et al. 2003a

**POULTRY (more species eggs)**

Country	Year	Locality	Specification	Type of value	Measured level in CALUX-TEQ	Source of information
UK	2002	Newcastle	FR	max	27,00	Pless-Mulloli, T. et al. 2003a
UK	2002	Newcastle	FR	max	14,80	Pless-Mulloli, T. et al. 2003b
UK	2002	Newcastle	FR	max	24,30	Pless-Mulloli, T. et al. 2003b
UK	2002	Newcastle	FR	mean	11,00	Pless-Mulloli, T. et al. 2003a
UK	2000	Newcastle	FR	mean	16,40	Pless-Mulloli, T. et al. 2003b
UK	2002	Newcastle	FR	mean	9,40	Pless-Mulloli, T. et al. 2003b
UK	2002	Newcastle	FR	mean	5,90	Pless-Mulloli, T. et al. 2003b
UK	2002	Newcastle	FR	mean	9,80	Pless-Mulloli, T. et al. 2003b
UK	2002	Newcastle	FR	min	0,90	Pless-Mulloli, T. et al. 2003a
UK	2002	Newcastle	FR	min	1,40	Pless-Mulloli, T. et al. 2003b
UK	2002	Newcastle	FR	min	0,90	Pless-Mulloli, T. et al. 2003b

Notes: FR - free range  
 NFR - not free range  
 NS - not specified

## PCBs in WHO-TEQ: Individual samles values

Country	Year	Locality	Specification	Measured level in pg/g (WHO-TEQ) of fat	Source of information
Belgium	1999		NS, sample C	396,10	Larebeke, N. van et al. 2001
Belgium	1999	NS	NS, sample D	73,70	Larebeke, N. van et al. 2001
Belgium	2004	NS	NS	2,47	DG SANCO 2004
Czech Republic	2003	Klatovy I	FR	0,72	Beranek, M. et al. 2003
Germany	2004	NS	NS	1,88	DG SANCO 2004
Ireland	2004	NS	NS	3,93	DG SANCO 2004
Netherlands	2001	NS	FR	3,62	Traag, W. et al. 2002
UK	2001	Anglesey	FR	82,00	FSA 2001d, Rose, M. et al. 2003
UK	1995-96	NS	mainly FR eggs	22,00	FSA 2001a in Pless-Mulloli, T. et al. 2003b
UK	1995-96	NS	mainly FR eggs	1,10	FSA 2001a in Pless-Mulloli, T. et al. 2003b
UK	1997	NS	NFR	0,64	DEFRA 2002
UK	1997	NS	NS	0,60	FSA 2000
UK	2001	Devon	FR	0,40	FSA 2001d, Rose, M. et al. 2003
Uzbekistan	2001	Kanlikul	NS	4,48	Muntean, N. et al. 2003
Uzbekistan	2001	Kanlikul	NS	4,19	Muntean, N. et al. 2003

Notes: FR - free range  
 NFR - not free range  
 NS - not specified

## PCBs in WHO-TEQ: Pool samples

Country	Year	Locality	Specification	Number of measured samples	Measured level in pg/g (WHO-TEQ) of fat	Source of information
CZ	2004	Lysa nad Labem*	FR	4/1 pool	22,40	Petrlik, J. 2005
CZ	2004	Beneshov*	FR	4/1 pool	3,90	Axys Varilab 2004
Netherlands	2002	organic farm	FR	6/1 pool	1,52	Traag, W. et al. 2002
Netherlands	2002	organic farm	FR	6/1 pool	5,76	Traag, W. et al. 2002
Netherlands	2002	organic farm	FR	6/1 pool	4,89	Traag, W. et al. 2002
Netherlands	2002	organic farm	FR	6/1 pool	2,03	Traag, W. et al. 2002
Netherlands	2002	organic farm	FR	6/1 pool	1,83	Traag, W. et al. 2002
Netherlands	2002	organic farm	FR	6/1 pool	0,70	Traag, W. et al. 2002
Netherlands	1990	whole country	rep./mixed (DNFCS)	8/2 pools	1,80	SCOOP Task 2000
Netherlands	1999	whole country	representative	100/2 pools	0,44	SCOOP Task 2000
Sweden	1993	whole country	mixed	84/7 pools	1,82	SCOOP Task 2000
Sweden	1999	whole country	rep./market basket	32/4 pools	1,45	SCOOP Task 2000
UK	1982	whole country	rep./eggs food group	24/1 pool	2,36	SCOOP Task 2000
UK	1992	whole country	rep./eggs food group	24/1 pool	0,97	SCOOP Task 2000

Notes: FR - free range  
 NFR - not free range  
 NS - not specified  
 \* upper bound level, nd=LOD

**PCBs in WHO-TEQ: Samples which were marked as maximum levels in references**

Country	Year	Specification	Measured level in pg/g (WHO-TEQ) of fat	Source of information
France	2004	FR	52,48	Pirard, C. et al. 2004
Ireland	2002-2004	FR	0,43	Pratt, I. et al. 2004, FSAI 2004
Ireland	2002-2004	FR	3,93	Pratt, I. et al. 2004, FSAI 2004
Ireland	2002-2004	NFR	0,28	Pratt, I. et al. 2004, FSAI 2004
Ireland	2002-2004	NFR	0,37	Pratt, I. et al. 2004, FSAI 2004
Netherlands	2004	FR	7,70	Anonymus 2004
Netherlands	2004	NFR	1,00	Anonymus 2004
UK	2001	NS	0,20	FSA 2003
UK	1997	NS	0,64	FSA 2003
UK	1992	NS	0,94	FSA 2003
UK	1982	NS	2,20	FSA 2003
UK	1994-96	NS	10,00	FSA 2001a

Notes: FR - free range  
 NFR - not free range  
 NS - not specified

## Total WHO-TEQ levels (PCDD/Fs + PCBs)

Country	Year	Locality	Specification	Number of measured samples	Type of value	Measured level in pg/g (WHO-TEQ) of fat, ** fresh weight	Source of information
Belgium	2004	NS	egg	1		3,01	DG SANCO 2004
Czech Republic	2004	Lysa nad Labem	FR	4	pool	26,7-29,2	Petrlik, J. 2005
Czech Republic	2004	Beneshov	FR	4	pool	5,6-8,5	Axys Varilab 2004
Czech Republic	2004	Borovany	FR	4	pool	20,2-22,8	Axys Varilab 2004
EU countries	1997-2003	NS	eggs	68	mean	1,20	DG SANCO 2004
EU countries	1997-2003	NS	eggs	68	med	0,86	DG SANCO 2004
France	2004	Maincy	FR	11 pools (4-6 yolks per 1 pool)	average conc.	60,22	Pirard, C. et al. 2004
France	2004	Maincy	FR	11 pools (4-6 yolks per 1 pool)	max	146,53	Pirard, C. et al. 2004
France	2004	Maincy	FR	11 pools (4-6 yolks per 1 pool)	min	5,95	Pirard, C. et al. 2004
Germany	2004	NS	egg	1		9,55	DG SANCO 2004
Ireland	2002-2004	NS	see comments	40	max	6,59-6,63	Pratt, I. et al. 2004, FSAI 2004
Ireland	2002-2004	NS	BTE	16	max	0,87	Pratt, I. et al. 2004, FSAI 2004
Ireland	2002-2004	NS	FR	16	max	1,26	Pratt, I. et al. 2004, FSAI 2004
Ireland	2002-2004	NS	OE	4	max	6,63	Pratt, I. et al. 2004, FSAI 2004
Ireland	2002-2004	NS	BE	4	max	0,78	Pratt, I. et al. 2004, FSAI 2004
Ireland	2002-2004	NS	see comments	40	mean	0,69-0,91	Pratt, I. et al. 2004, FSAI 2004
Ireland	2002-2004	NS	BTE	16	mean	0,65	Pratt, I. et al. 2004, FSAI 2004
Ireland	2002-2004	NS	FR	16	mean	0,79	Pratt, I. et al. 2004, FSAI 2004
Ireland	2002-2004	NS	OE	4	mean	2,73	Pratt, I. et al. 2004, FSAI 2004
Ireland	2002-2004	NS	BE	4	mean	0,57	Pratt, I. et al. 2004, FSAI 2004
Ireland	2002-2004	NS	see comments	40	med	0,48-0,7	Pratt, I. et al. 2004, FSAI 2004
Ireland	2002-2004	NS	see comments	40	min	0,12-0,38	Pratt, I. et al. 2004, FSAI 2004
Ireland	2002-2004	NS	BTE	16	min	0,37	Pratt, I. et al. 2004, FSAI 2004
Ireland	2002-2004	NS	FR	16	min	0,41	Pratt, I. et al. 2004, FSAI 2004

Table continued

Country	Year	Locality	Specification	Number of measured samples	Type of value	Measured level in pg/g (WHO-TEQ) of fat, ** fresh weight	Source of information
Ireland	2002-2004	NS	OE	4	min	0,84	Pratt, I. et al. 2004, FSAI 2004
Ireland	2002-2004	NS	BE	4	min	0,43	Pratt, I. et al. 2004, FSAI 2004
Ireland	2004	NS	egg	1		6,33	DG SANCO 2004
Japan	before 2002		eggs		derived median	0,07**	JECFA 2002
Japan	before 2002		eggs		weighted mean	0,13**	JECFA 2002

Total WHO-TEQ levels (PCDD/Fs + PCBs)

Country	Year	Locality	Specification	Number of measured samples	Type of value	Measured level in pg/g (WHO-TEQ) of fat, ** fresh weight	Source of information
Netherlands	2004		FR	36	average conc.	3,70	Anonymus 2004
Netherlands	2004		NFR	14 (12)	average conc.	0,6 - 0,7	Anonymus 2004
Netherlands	2004		FR	36	maximum	13,00	Anonymus 2004
Netherlands	2004		NFR	14 (12)	maximum	2,60	Anonymus 2004
Netherlands	1998-1999	whole country	eggs		mean	2,39	Baars, A. J. et al. 2004
Netherlands	2004		FR	36	median	2,10	Anonymus 2004
Netherlands	2004		NFR	14 (12)	median	0,4 - 0,6	Anonymus 2004
Netherlands	2004		FR	36	min	0,5 - 0,7	Anonymus 2004
Netherlands	2004		NFR	14 (12)	min	0 - 0,1	Anonymus 2004
Netherlands	1990	whole country	rep./mixed (DNFCS)	8/2 pools	pool	3,80	SCOOP Task 2000
Netherlands	1999	whole country	representative	100/2 pools	pool	1,52	SCOOP Task 2000
Netherlands	2002	organic farm	FR	6	pool	4,53	Traag, W. et al. 2002
Netherlands	2002	organic farm	FR	6	pool	10,50	Traag, W. et al. 2002
Netherlands	2002	organic farm	FR	6	pool	5,59	Traag, W. et al. 2002
Netherlands	2002	organic farm	FR	6	pool	10,28	Traag, W. et al. 2002

Table continued

Country	Year	Locality	Specification	Number of measured samples	Type of value	Measured level in pg/g (WHO-TEQ) of fat, ** fresh weight	Source of information
Netherlands	2002	organic farm	FR	6	pool	3,78	Traag, W. et al. 2002
Netherlands	2002	organic farm	FR	6	pool	2,88	Traag, W. et al. 2002
Netherlands	2001		FR (?)	1 from 57		5,50	Traag, W. et al. 2002
Netherlands	2001		FR	1 from 57		11,29	Traag, W. et al. 2002
Netherlands	2001		mixed	57/4 pools		0,8-1,5	Traag, W. et al. 2002
North America	before 2002		eggs		derived median	0,16**	JECFA 2002
North America	before 1989 - 1997		eggs		total mean	0,13**	US EPA 2000
North America	before 2002		eggs		weighted mean	0,21**	JECFA 2002
Norway	1990	whole country	rep./shops	30/3 pools	pool	1,05**	SCOOP Task 2000
Sweden	1993	whole country	mixed	84/7 pools	pool	3,13	SCOOP Task 2000
Sweden	1999	whole country	rep./market basket	32/4 pools	pool	2,48	SCOOP Task 2000
UK	2001	Carmathenshire	FR	12	pool	5,50	FSA 2001b, Rose, M. et al. 2003, FSA 2001c
UK	2001	Devon	FR	12	pool	2,80	FSA 2001b, Rose, M. et al. 2003, FSA 2001c
UK	2001	Anglesey	FR	12	pool	34,00	FSA 2001b, Rose, M. et al. 2003, FSA 2001c
UK	1982	whole country	rep./eggs food group	24/1 pool	pool	10,61	SCOOP Task 2000

## Total WHO-TEQ levels (PCDD/Fs + PCBs)

Country	Year	Locality	Specification	Number of measured samples	Type of value	Measured level in pg/g (WHO-TEQ) of fat, ** fresh weight	Source of information
UK	1992	whole country	rep./eggs food group	24/1 pool	pool	2,74	SCOOP Task 2000
UK	1994-96	NS	eggs	29		1,1-22	FSA 2001a
UK	2001	Anglesey	FR	2		8,1; 8,2	FSA 2001d, Rose, M. et al. 2003
UK	2001	Anglesey	FR	1		92	FSA 2001d, Rose, M. et al. 2003
UK	2001	Devon	FR	1		1	FSA 2001d, Rose, M. et al. 2003
UK	1994-96	NS	FR	-		1,1-22	FSA 2001a
UK	1997	NS	eggs	1		1,40	FSA 2000
UK	1982	NS	eggs			11,09-11,12	FSA 2003
UK	1992	NS	eggs			2,82-2,91	FSA 2003
UK	1997	NS	eggs			1,37-1,41	FSA 2003
UK	2001	NS	eggs			0,35-0,44	FSA 2003
UK	1997		food			1,41	DEFRA 2002
UK	1982	NS	eggs in retail	-		11,12	MAFF 1997, FSA 2000, DEFRA 2002
UK	1992	NS	eggs in retail	-		2,91	MAFF 1997, FSA 2000, DEFRA 2002
UK	1997	NS	eggs in retail	-		1,41	MAFF 1997, FSA 2000, DEFRA 2002
UK	2001	Dumfries and Galloway	FR	60	pool	2,8-14	FSA 2001b, Rose, M. et al. 2003, FSA 2001c
USA	1995		eggs			0,34**	Schechter, A. et al. 2001
Uzbekistan	2001	Karakalpakstan			mean	15,92	Muntean, N. et al. 2003
Uzbekistan	2001	Nukus				1,04-1,23	Muntean, N. et al. 2003
Uzbekistan	2001	Chimbay				37,58-37,87	Muntean, N. et al. 2003
Uzbekistan	2001	Kanlikul				8,25-8,54	Muntean, N. et al. 2003
Western Europe	before 2002		eggs		derived median	0,21**	JECFA 2002
Western Europe	before 2002		eggs		weighted mean	0,23**	JECFA 2002

Notes: BE - barn eggs  
 BTE - battery eggs  
 FR - free range  
 NFR - not free range

NS - not specified  
 OE - organic eggs  
 \*\* level per gram of fresh weight  
 figures without stars are values per gram of fat



### Non WHO-TEQ PCBs values (mostly 7 congeners)

Country	Year	Locality	Specification	Type of value	Measured level in ng/g fat, also see notes	Source of information
Belgium	1999		NS	max	46000,00	Larebeke, N. van et al. 2001
Belgium	1999		egg, sample C		4635,00	Larebeke, N. van et al. 2001
Belgium	1999		egg, sample D		866,00	Larebeke, N. van et al. 2001
CZ	2003	Mestec Kralove	NS	NS	7,00	SVA CR 2004
CZ	2003	Mestec Kralove	NS	NS	2,00	SVA CR 2004
CZ	2003	Mestec Kralove	EMN	NS	4,00	SVA CR 2004
CZ	2003	Mestec Kralove	EMN	NS	24,00	SVA CR 2004
CZ	2003	Libis	FR	pool	1582,00	Kruml, J. 2004
CZ	2003	Libis	FR	pool	144,00	Kruml, J. 2004
CZ	2003	Libis	FR	pool	1536,00	Kruml, J. 2004
CZ	2003	Libis	FR	pool	22935,00	Kruml, J. 2004
CZ	2003	Libis	FR	pool	553,00	Holejsovsky 2003, Kruml, J. 2004
CZ	2004	Lysa nad Labem	FR	pool	315,80	Petrlik, J. 2005
CZ	2004	Beneshov	FR	pool	39,25	Axys Varilab 2004
CZ	2004	Borovany	FR	pool	43,26	Axys Varilab 2004
CZ	2003	Klatovy I	FR		4.78*	Beranek, M. et al. 2003
France	2004	Maincy	FR	average conc.	110.80***	Pirard, C. et al. 2004
France	2004	Maincy	FR	max	310.46***	Pirard, C. et al. 2004
France	2004	Maincy	FR	min	27.01***	Pirard, C. et al. 2004
Ireland	2002-2004	Not specified	BE	max	4,40	Pratt, I. et al. 2004, FSAI 2004
Ireland	2002-2004	Not specified	BTE	max	6,13	Pratt, I. et al. 2004, FSAI 2004
Ireland	2002-2004	Not specified	FR	max	4,35	Pratt, I. et al. 2004, FSAI 2004
Ireland	2002-2004	Not specified	OE	max	275,94	Pratt, I. et al. 2004, FSAI 2004
Ireland	2002-2004	Not specified	OE	max	6,37	Pratt, I. et al. 2004, FSAI 2004
Ireland	2002-2004	Not specified	OE	max	13,22	Pratt, I. et al. 2004, FSAI 2004
Ireland	2002-2004	Not specified	BE	mean	3,02	Pratt, I. et al. 2004, FSAI 2004
Ireland	2002-2004	Not specified	BTE	mean	3,24	Pratt, I. et al. 2004, FSAI 2004

Table continued

Country	Year	Locality	Specification	Type of value	Measured level in ng/g fat, also see notes	Source of information
Ireland	2002-2004	Not specified	FR	mean	2,52	Pratt, I. et al. 2004, FSAI 2004
Ireland	2002-2004	Not specified	OE	mean	73,44	Pratt, I. et al. 2004, FSAI 2004
Ireland	2002-2004	Not specified	OE	mean	2,63	Pratt, I. et al. 2004, FSAI 2004
Ireland	2002-2004	Not specified	OE	mean	7,56	Pratt, I. et al. 2004, FSAI 2004
Ireland	2002-2004	Not specified	OE	median	2,48	Pratt, I. et al. 2004, FSAI 2004

### Non WHO-TEQ PCBs values (mostly 7 congeners)

Country	Year	Locality	Specification	Type of value	Measured level in ng/g fat, also see notes	Source of information
Ireland	2002-2004	Not specified	OE	median	7,22	Pratt, I. et al. 2004, FSAI 2004
Ireland	2002-2004	Not specified	BE	min	1,87	Pratt, I. et al. 2004, FSAI 2004
Ireland	2002-2004	Not specified	BTE	min	2,22	Pratt, I. et al. 2004, FSAI 2004
Ireland	2002-2004	Not specified	FR	min	1,32	Pratt, I. et al. 2004, FSAI 2004
Ireland	2002-2004	Not specified	OE	min	3,29	Pratt, I. et al. 2004, FSAI 2004
Netherlands	2004		NFR	average conc.	3,61	Anonymus 2004
Netherlands	2004		NFR	max	16,32	Anonymus 2004
Netherlands	1998-1999	whole country	NS	mean	15,70	Baars, A. J. et al. 2004
Netherlands	2004		NFR	median	2,62	Anonymus 2004
Netherlands	2004		NFR	min	0,66	Anonymus 2004
Switzerland	1999	Basel canton	FR, full eggs		<0.005	Anonymus 1999b
Switzerland	1999		imported eggs		<0,005	Anonymus 1999b
UK	1993-1994	Panteg district	FR	median	14**	Lovett, A. A. et al. 1998b
UK	1993-1994	rural background locations	FR	median	15**	Lovett, A. A. et al. 1998b
UK	1993-1994	Panteg district	FR		6.7**	Lovett, A. A. et al. 1998a
UK	1993-1994	rural background locations	FR		6.6**	Lovett, A. A. et al. 1998a

Notes: BE - barn eggs  
 BTE - battery eggs  
 FR - free range  
 NFR - not free range  
 NS - not specified  
 OE - organic eggs

\*whole egg / fresh weight, 9.52% of fat content  
 \*\* whole egg, total 46 PCB congeners measured, related to Pontypool industrial area  
 \*\*\*only 5 PCBs congeners measured (28, 101, 138, 153 and 180) typical for the Aroclor 1260, surrounding of old waste incinerator Vaux-le-Pénil operating between 1974-2002, average concentration calculated based on table 2 in article

## HCB: Levels expressed in ng/g of fat

Country	Year	Locality	Specification	Type of value	Measured level in ng/g of fat	Source of information
Czech Republic	2004	Lysa nad Labem	FR	pool	46,2	Petrik, J. 2005
Czech Republic	2004	Beneshov	FR	pool	14,9	Axys Varilab 2004
Czech Republic	2003	Libis	FR	pool	1 156,0	Holejsovsky 2003, Kruml, J. 2004
Czech Republic	2003	Mestec Kralove	NS	NS	1,0	SVA CR 2004
Czech Republic	2003	Mestec Kralove	NS	NS	1,0	SVA CR 2004
Czech Republic	2003	Libis	FR	pool	217,0	Kruml, J. 2004
Czech Republic	2003	Mestec Kralove	NFR	NS	1,0	SVA CR 2004
Czech Republic	2003	Mestec Kralove	NFR	NS	1,0	SVA CR 2004
Germany	before 1995	-	NS	NS	0,5	Rippen 1994
Netherlands	1982-1983	whole country	NS	max	20	CCRX 1983
Netherlands	1982-1983	whole country	NS	min	10	CCRX 1983
Slovakia	before 1990	Stropkov	NFR	NS	3,0	Kocan, A. et al. 1999
Slovakia	before 1990	Michalovce	NFR	NS	2,7	Kocan, A. et al. 1999
Slovakia	before 1990	Michalovce	NFR	NS	3,0	Kocan, A. et al. 1999
Slovakia	before 1990	Stropkov	FR	NS	16,6	Kocan, A. et al. 1999
Slovakia	before 1990	Michalovce	FR	NS	40,7	Kocan, A. et al. 1999
Switzerland	1973	-	NS	max	300,0	Swiss Federal Health Service 1973
Switzerland	1973	-	NS	min	2,0	Swiss Federal Health Service 1973
USA	1980-1984	NS	NFR	IS	10,0	JMPR 1985
Uzbekistan	2001	Nukus	NS	NS	1,0	Muntean, N. et al. 2003
Uzbekistan	2001	Chimbay	NS	NS	19,0	Muntean, N. et al. 2003
Uzbekistan	2001	Kanlikul	NS	NS	3,0	Muntean, N. et al. 2003

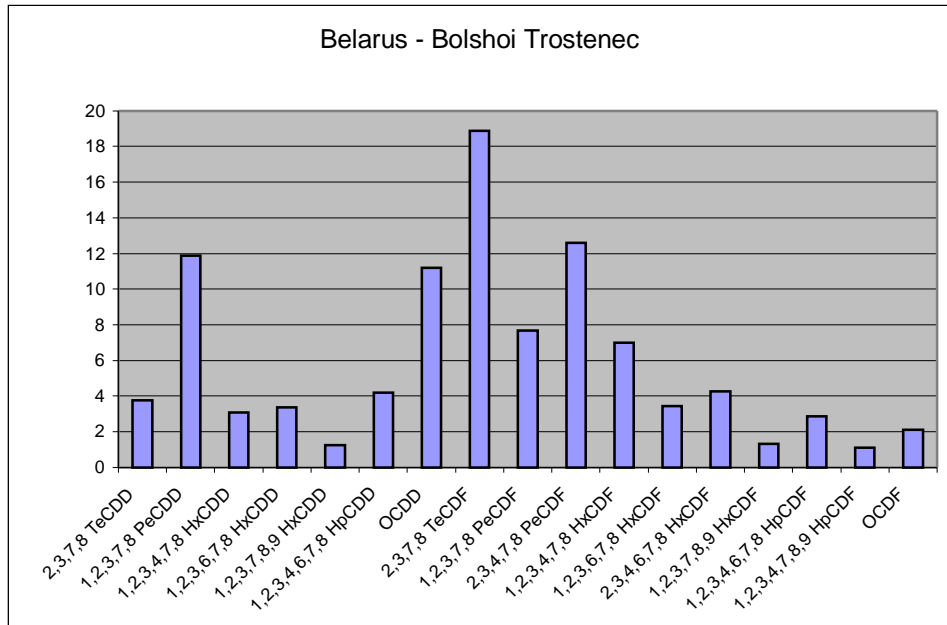
Notes: FR - free range  
 NFR - not free range  
 NS - not specified  
 IS - individual sample

## HCb: Levels expressed in ng/g of fresh weight

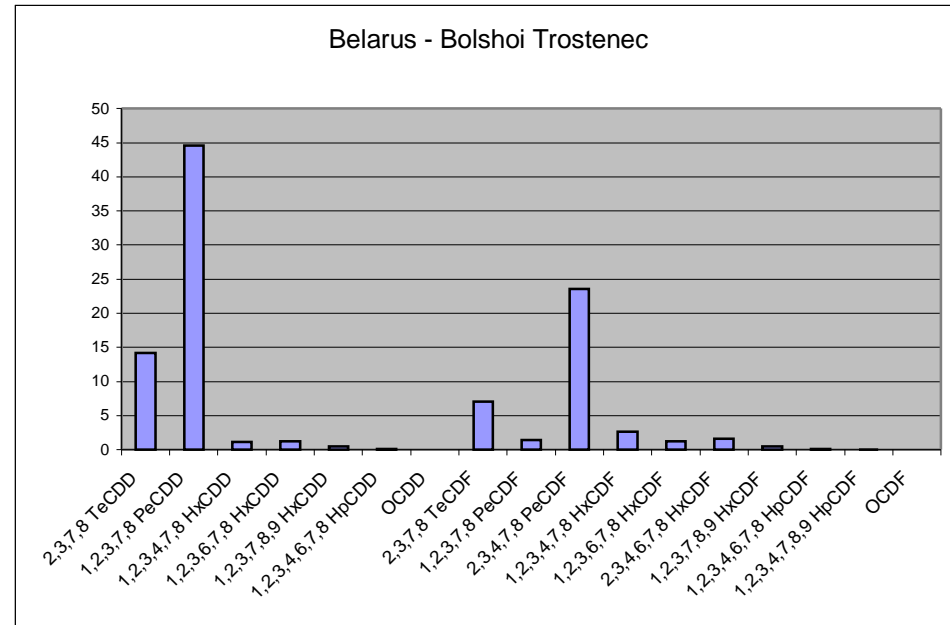
Country	Year	Locality	Specification	Type of value	Measured level in ng/g of fresh weight	Source of information
Czech Republic	2003	Klatovy I	FR	NS	1,0	Beranek, M. et al. 2003
Czech Republic	2003	Klatovy II	FR	pool	2,4	Beranek, M. et al. 2003
Czech Republic	1994-1998	whole country	NS	NS	0,4	Ruprich, J. 1999
Morocco	1990		NS	mean	20,9	Kessabi et al. (1990)
Morocco	1990		NS	min	0,1	Kessabi et al. (1990)
Morocco	1990		NS	max	300,0	Kessabi et al. (1990)
Slovakia	1986		NS	NS	1,0	Anonymus 2003
Slovakia	1987		NS	NS	7,0	Anonymus 2003
Slovakia	1988		NS	NS	10,0	Anonymus 2003
Slovakia	1989		NS	NS	2,0	Anonymus 2003
Slovakia	1990		NS	NS	3,0	Anonymus 2003
Slovakia	1994		NS	NS	184,0	Anonymus 2003
Slovakia	1997		NS	NS	21,0	Anonymus 2003
Slovakia	1998		NS	NS	1,0	Anonymus 2003
Slovakia	1999		NS	NS	1,0	Anonymus 2003
Slovakia	2000		NS	NS	2,0	Anonymus 2003
Slovakia	2001		NS	NS	2,0	Anonymus 2003
USA	1990-1991		eggs, fried	mean	0,2	US FDA unpublished (in Newhook, R., Dormer, W. 1997)
USA	1990-1991		eggs, fried	max	0,7	US FDA unpublished (in Newhook, R., Dormer, W. 1997)
USA	1990-1991		eggs, scrambled	mean	0,1	US FDA unpublished (in Newhook, R., Dormer, W. 1997)
USA	1990-1991		eggs, scrambled	max	0,3	US FDA unpublished (in Newhook, R., Dormer, W. 1997)

Notes: FR - free range  
NFR - not free range  
NS - not specified

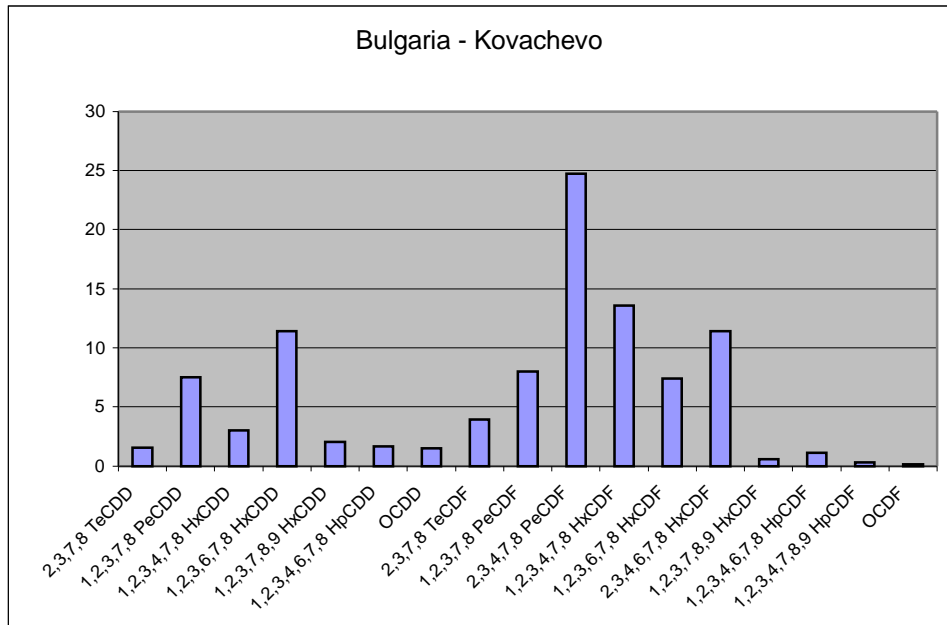
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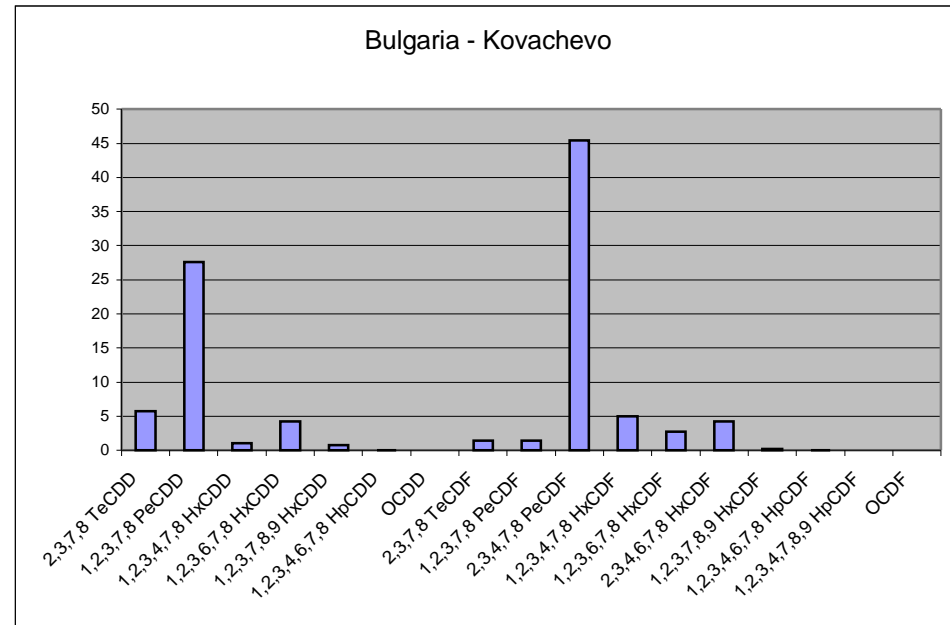
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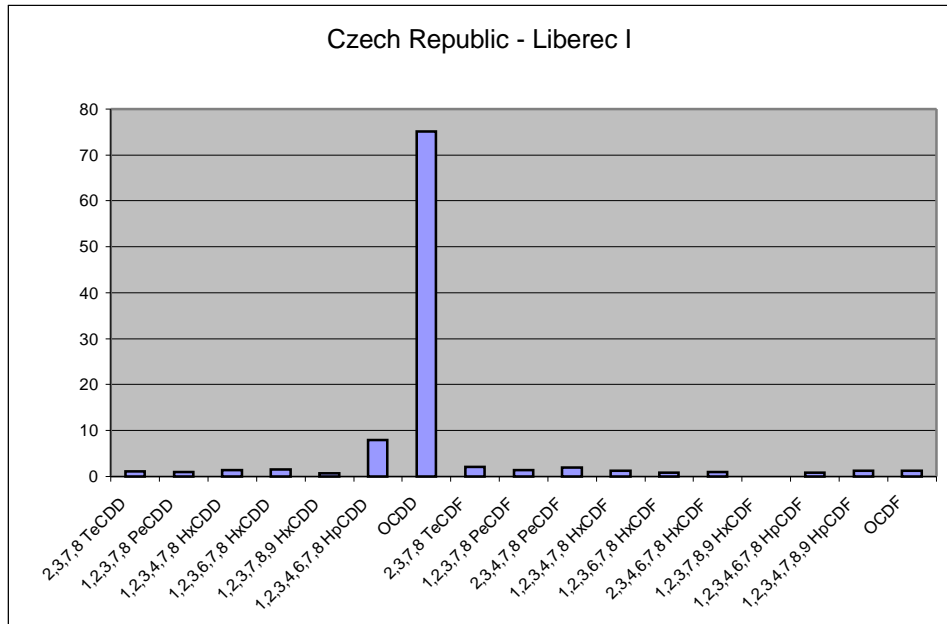
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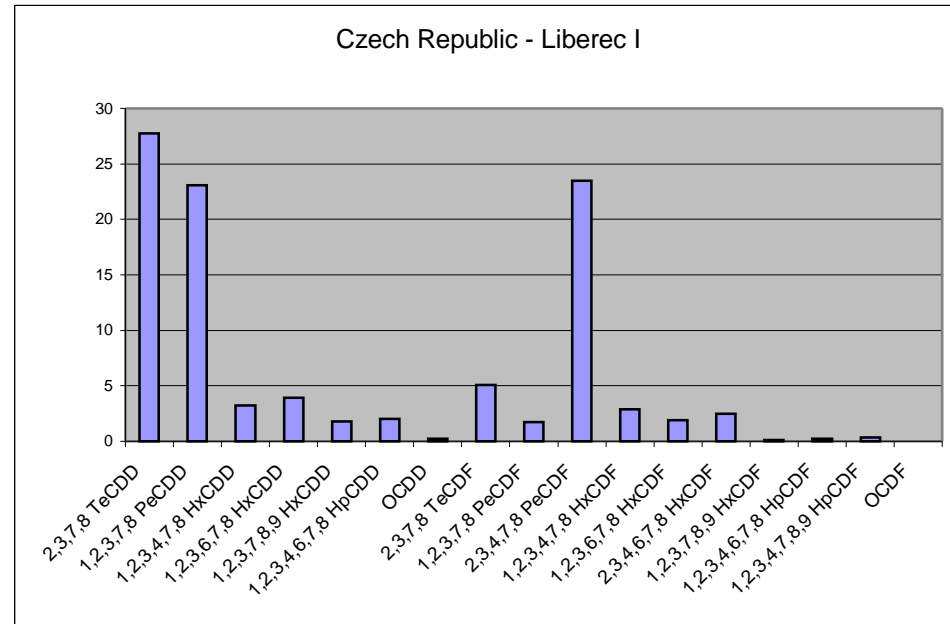
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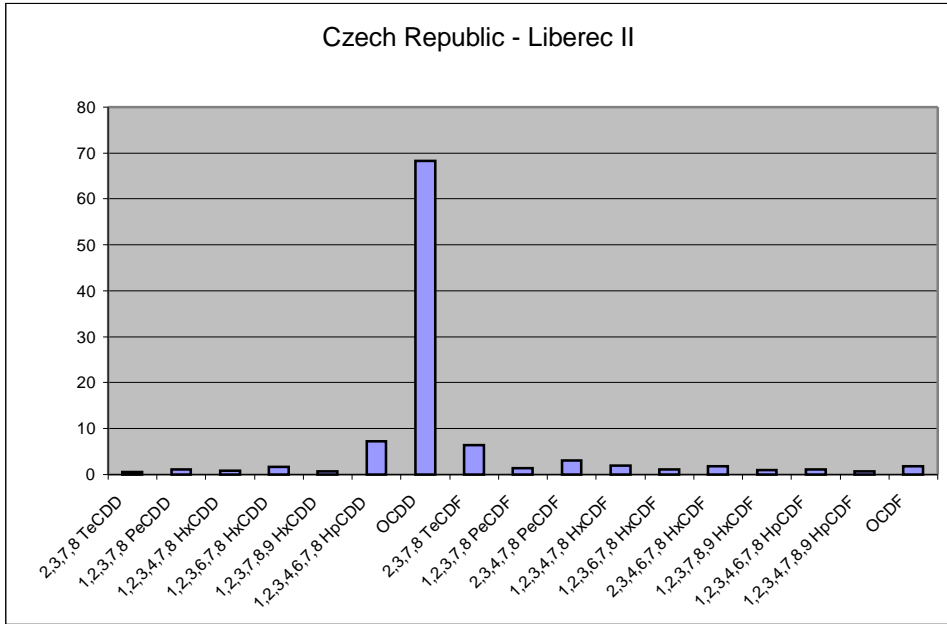
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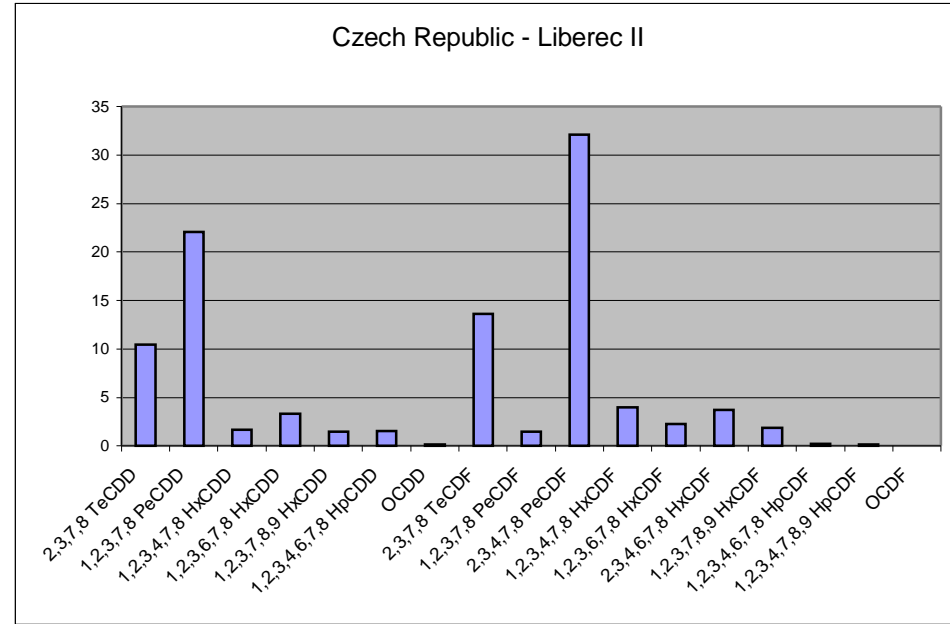
**TEQ**



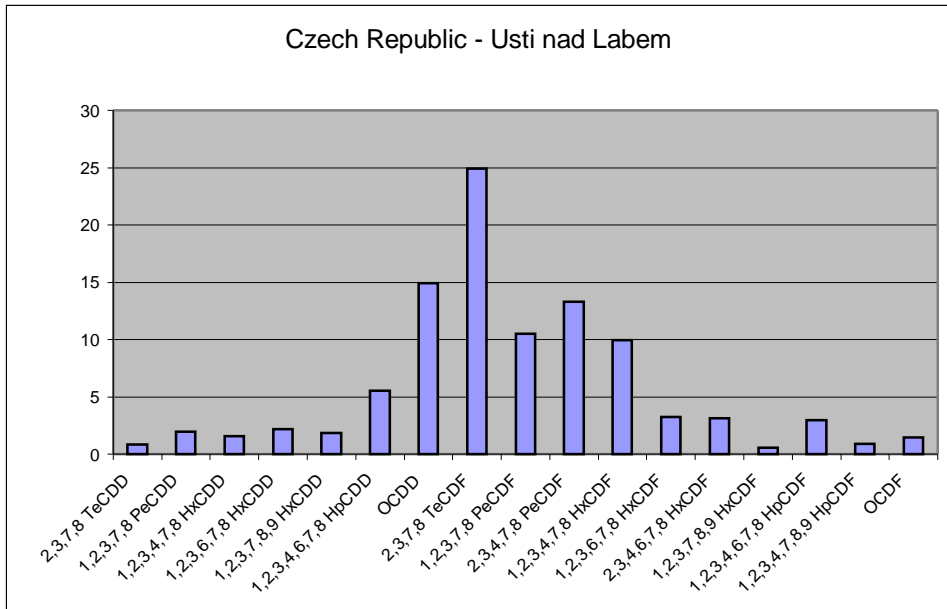
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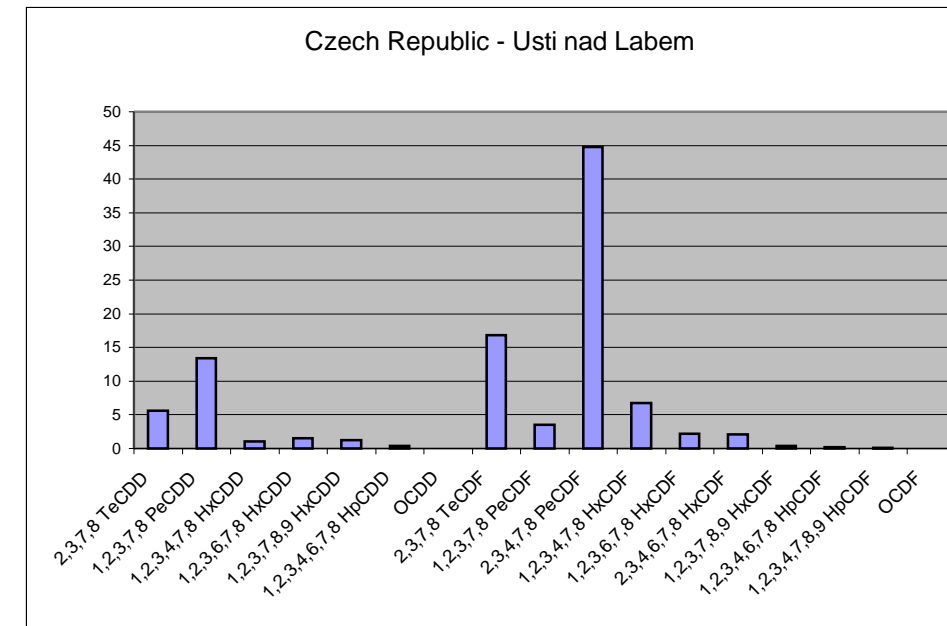
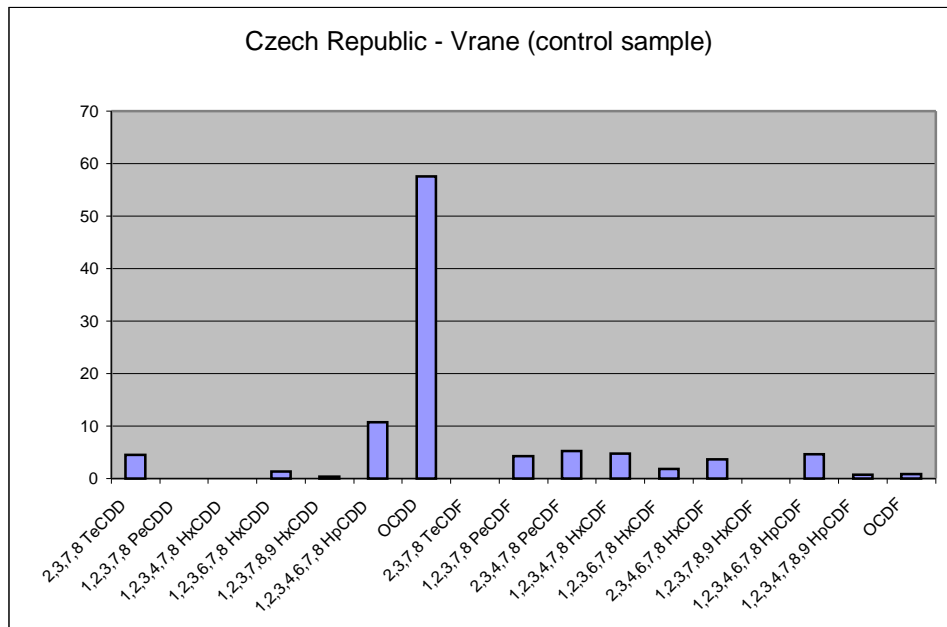
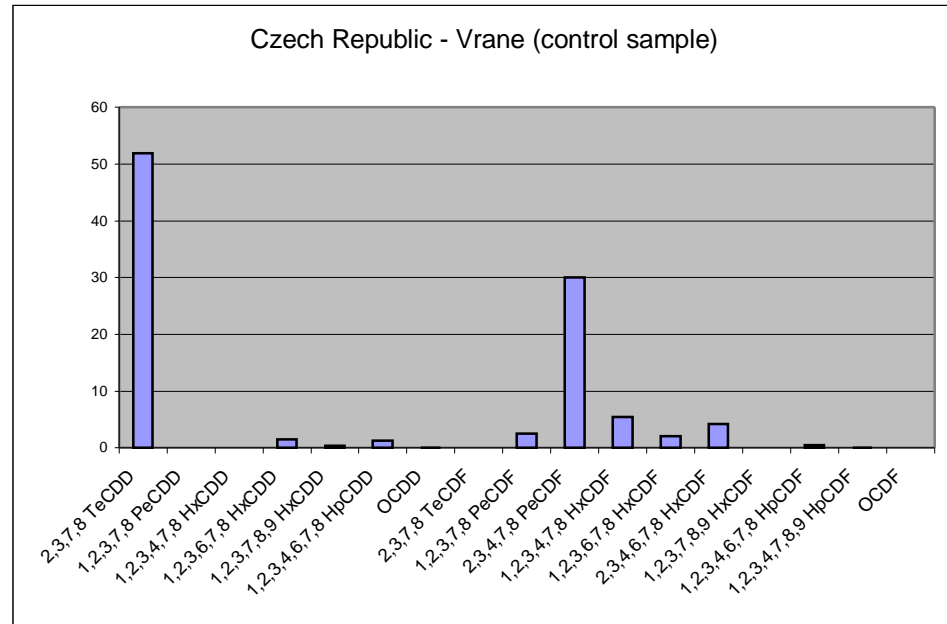
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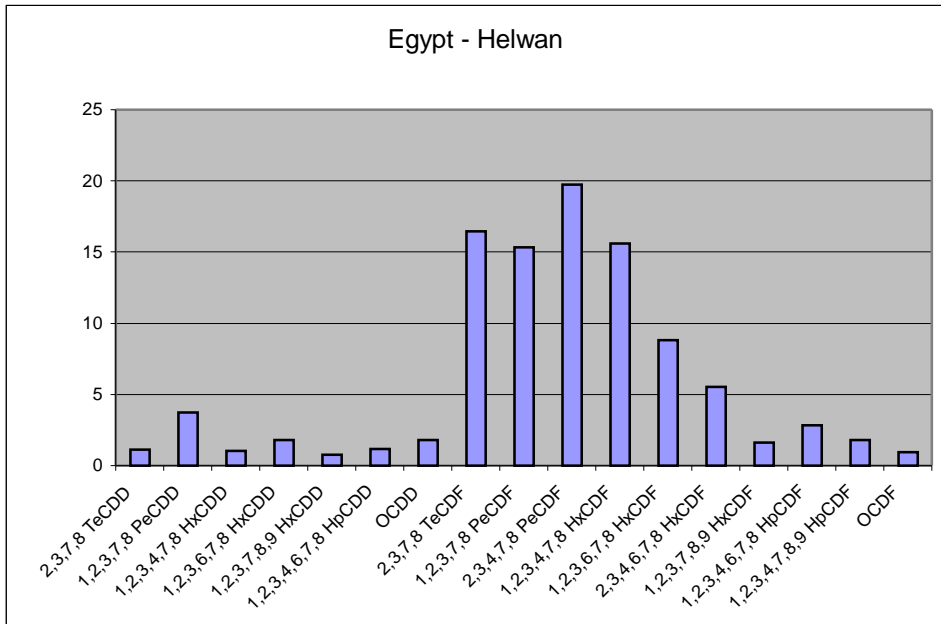
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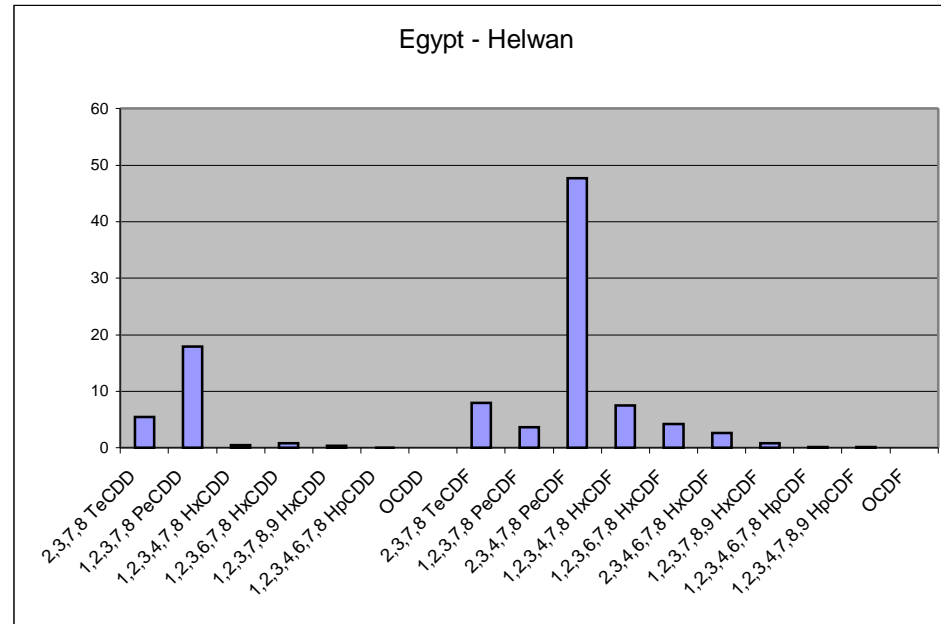
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Egypt - Helwan



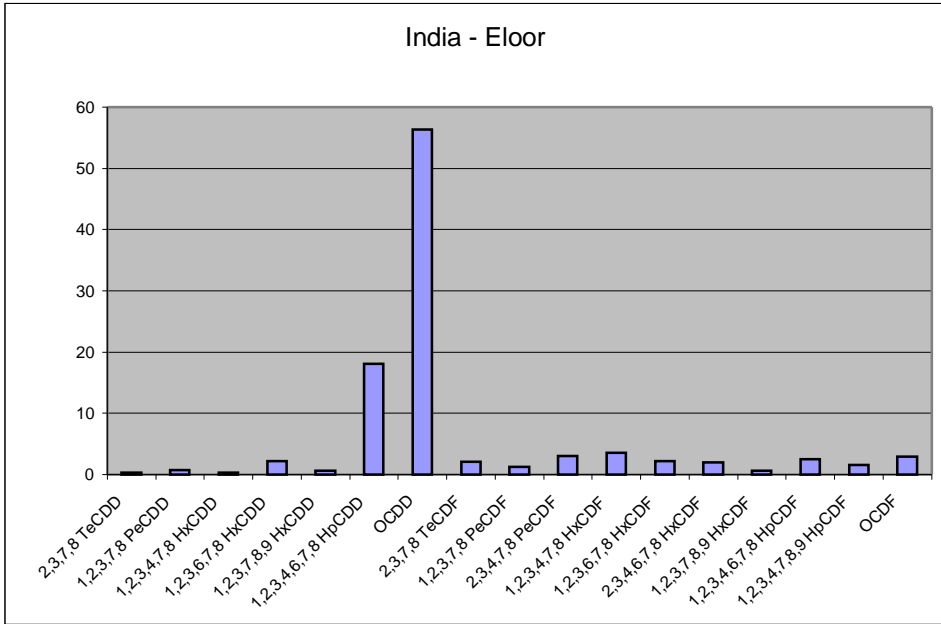
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Egypt - Helwan



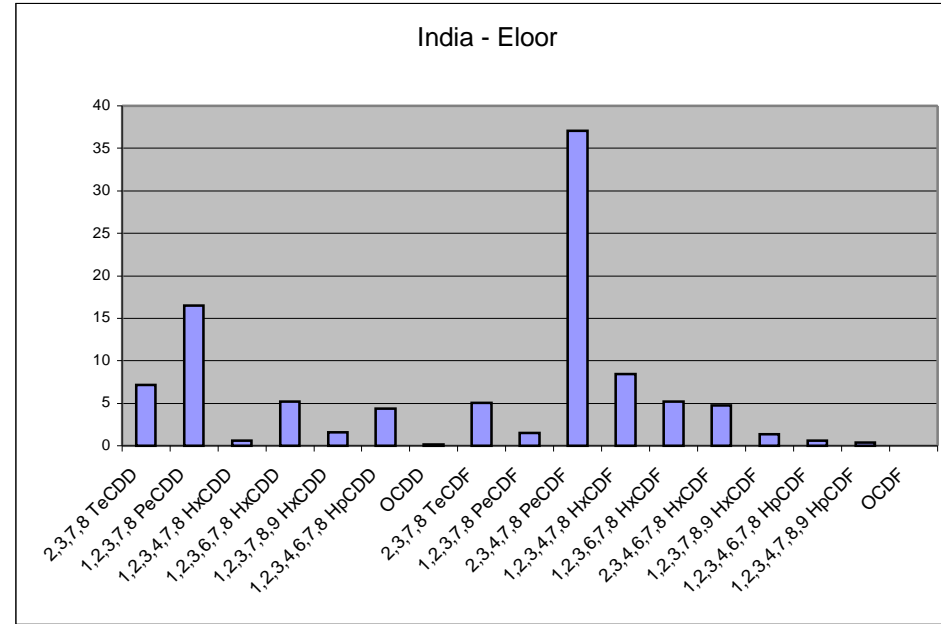
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India - Eloor

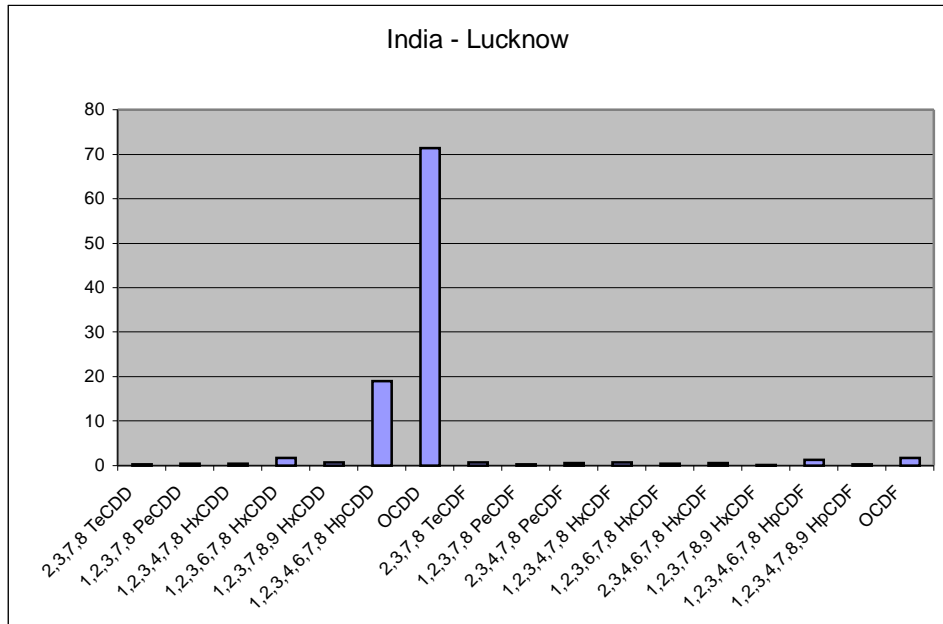


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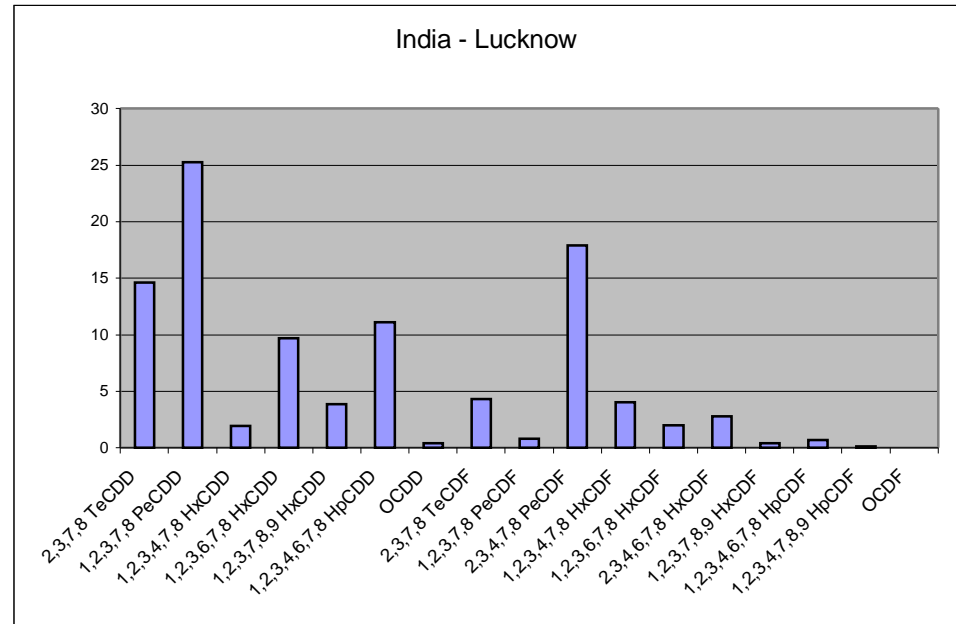
India - Eloor



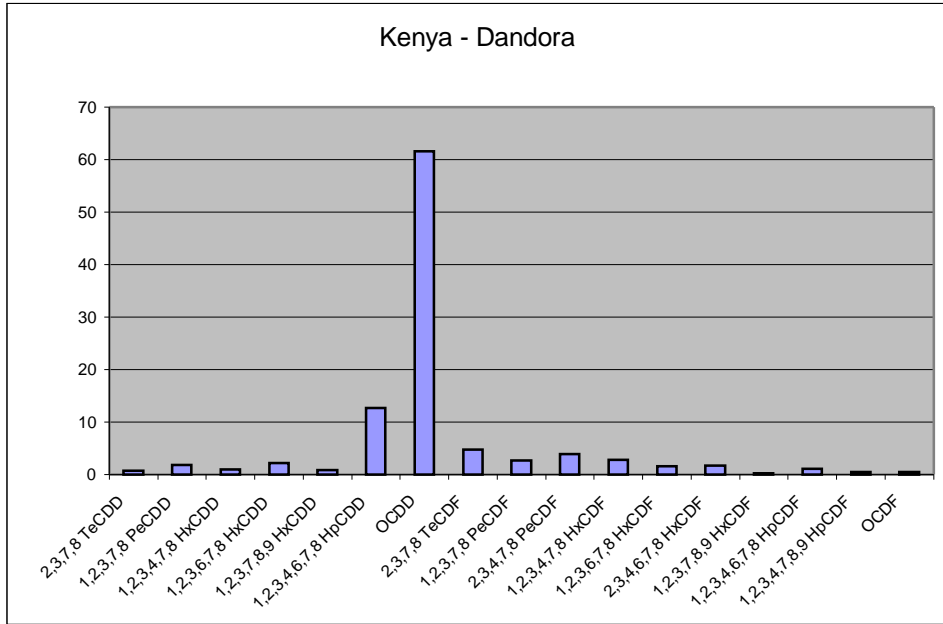
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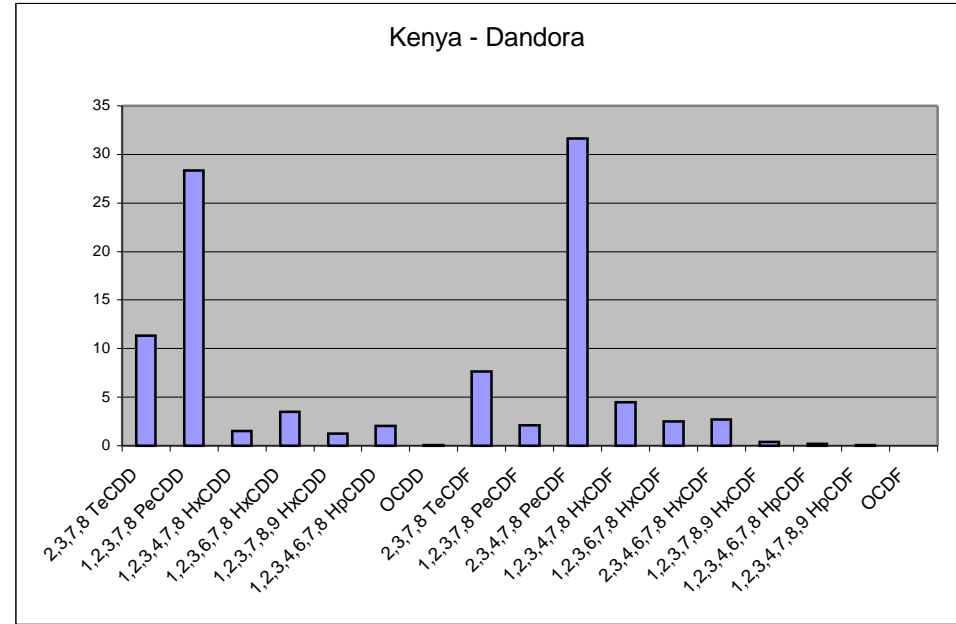
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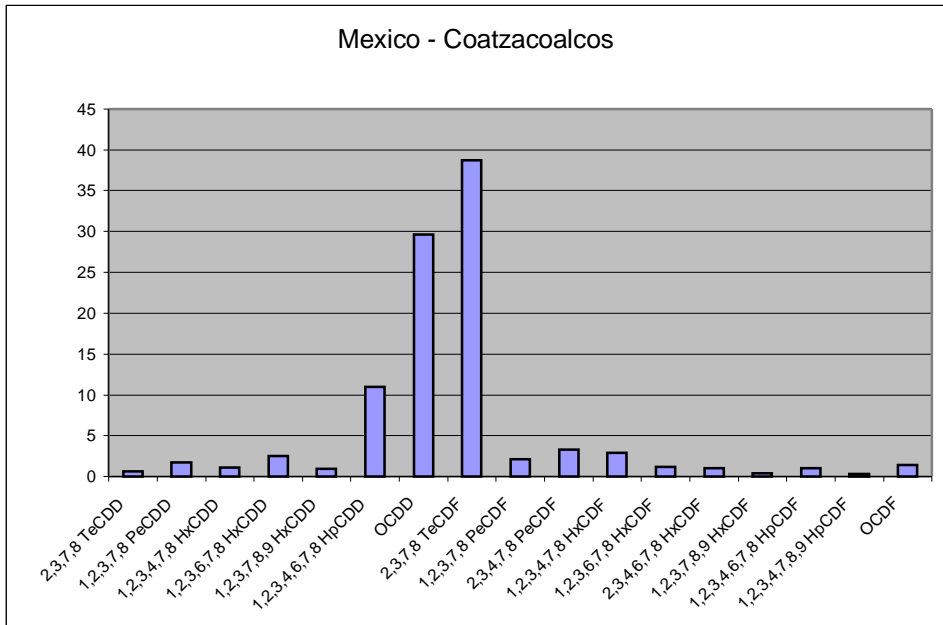
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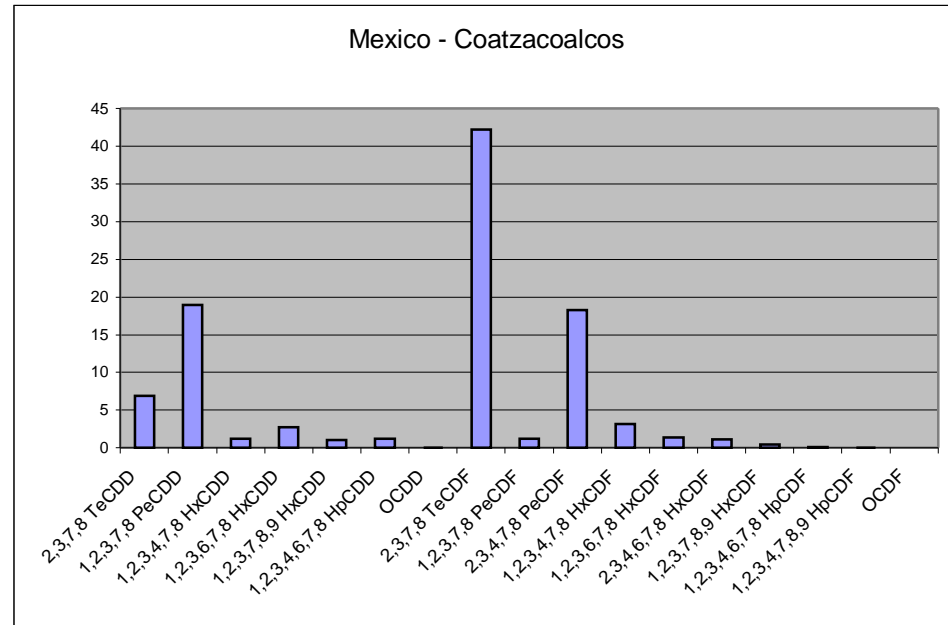
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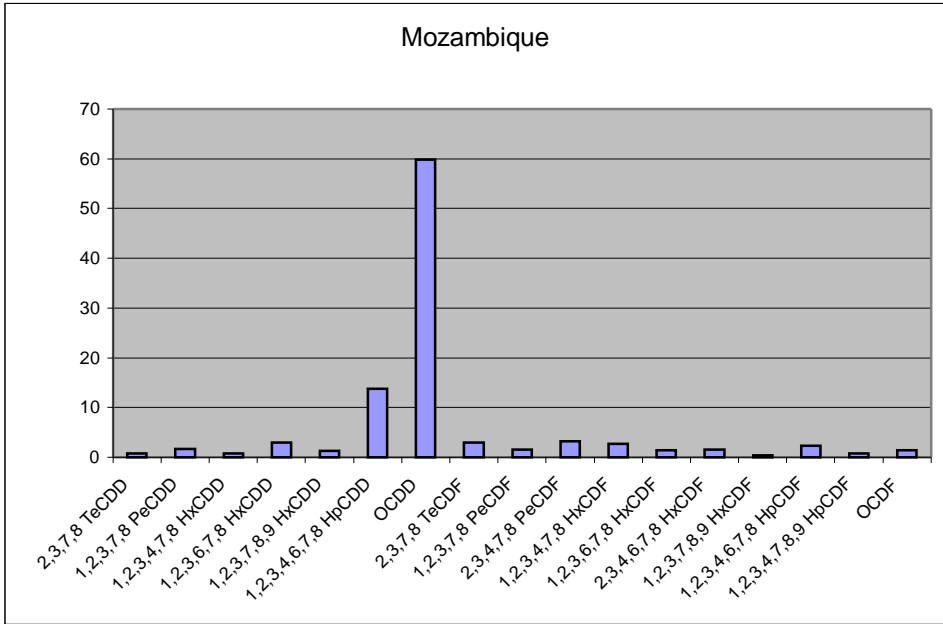
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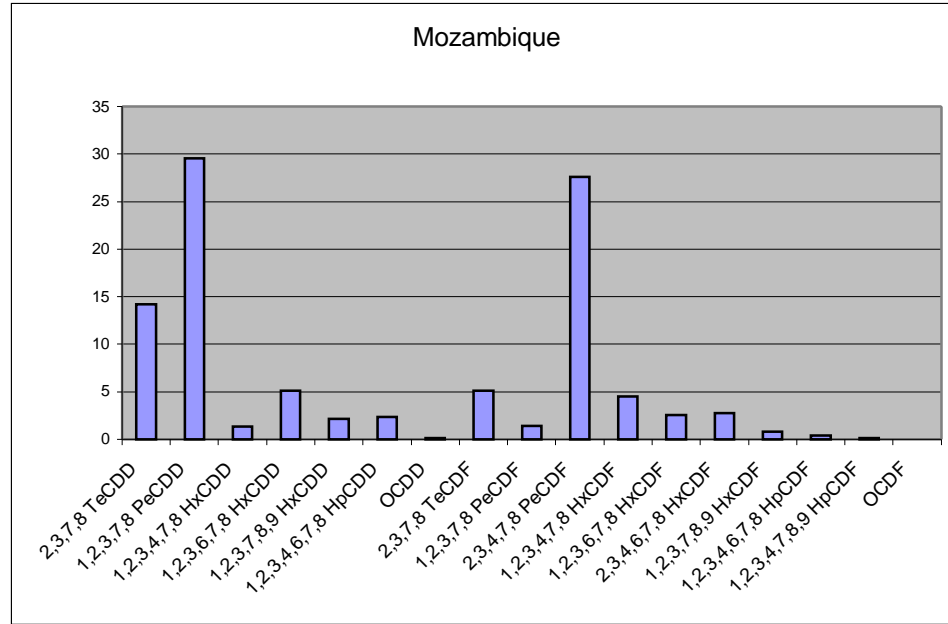
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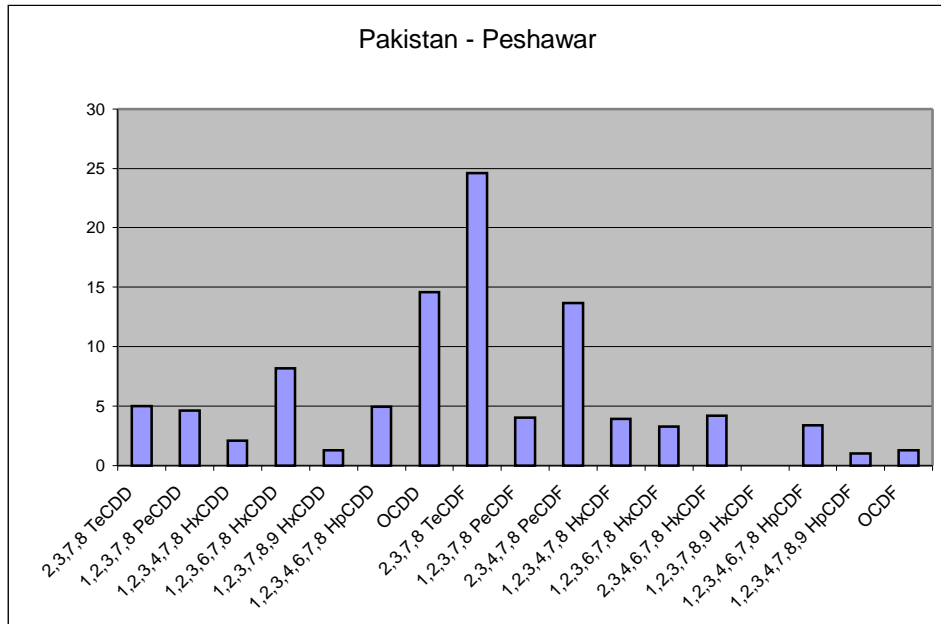
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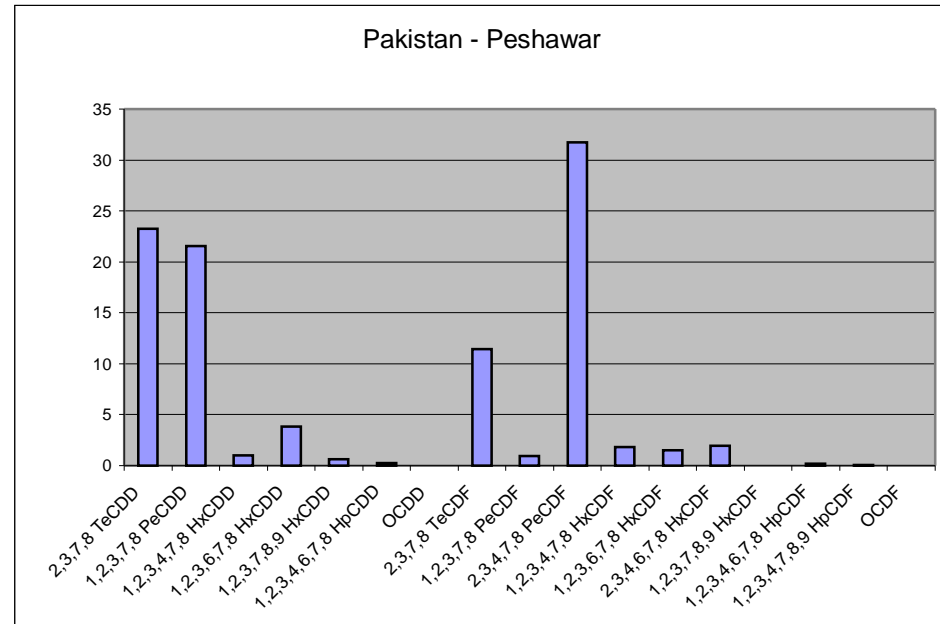
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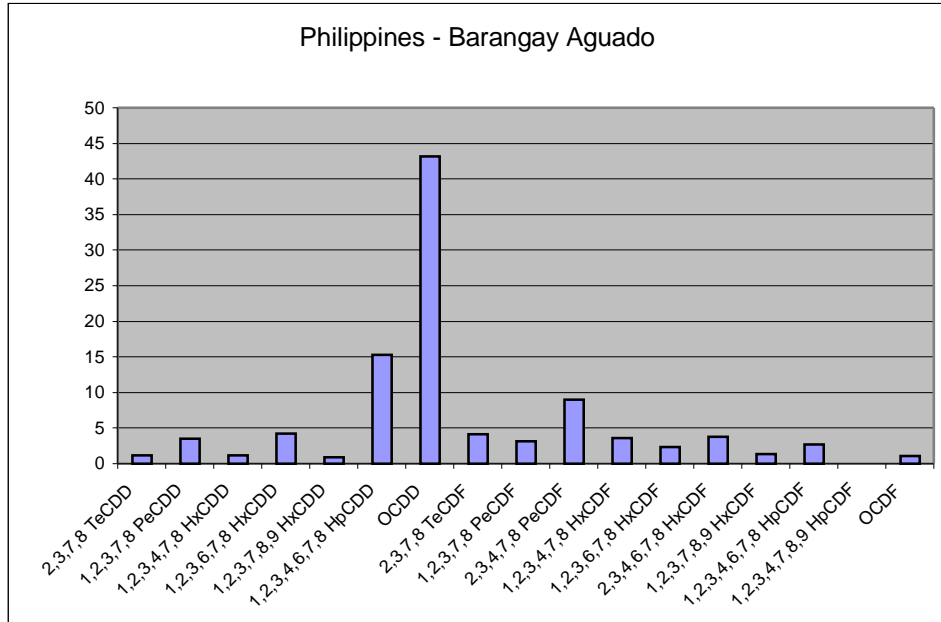
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**TEQ**



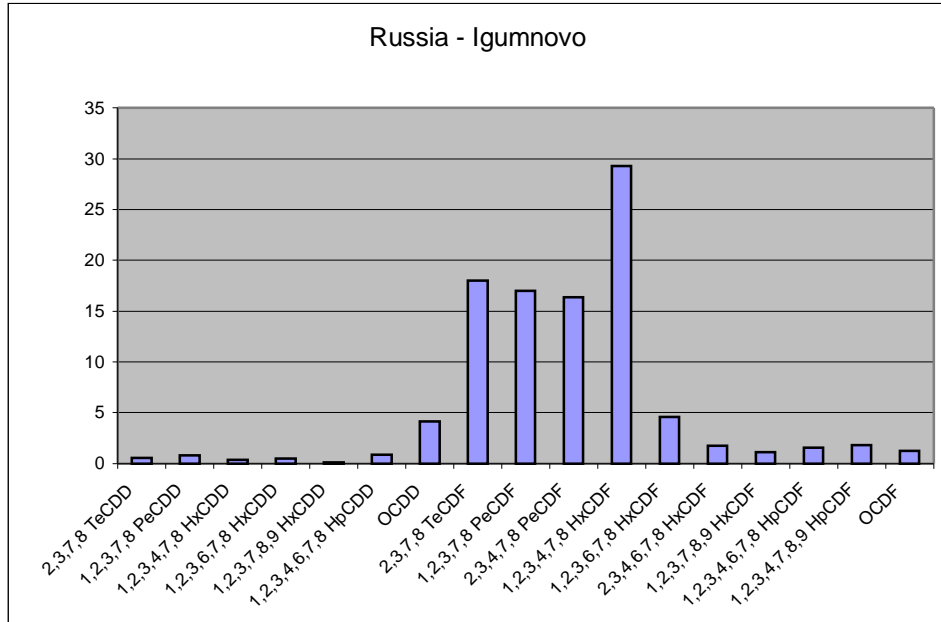
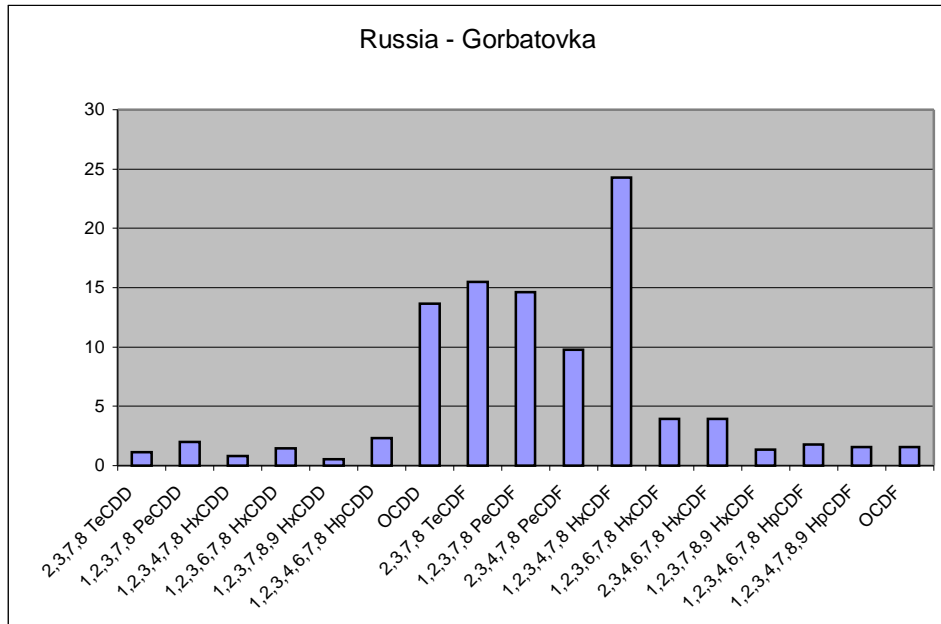
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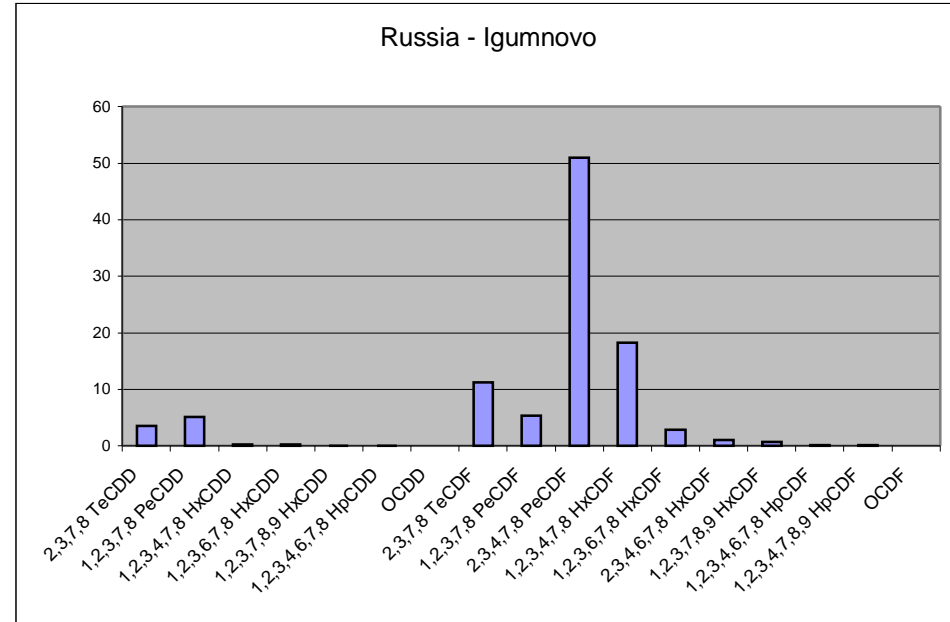
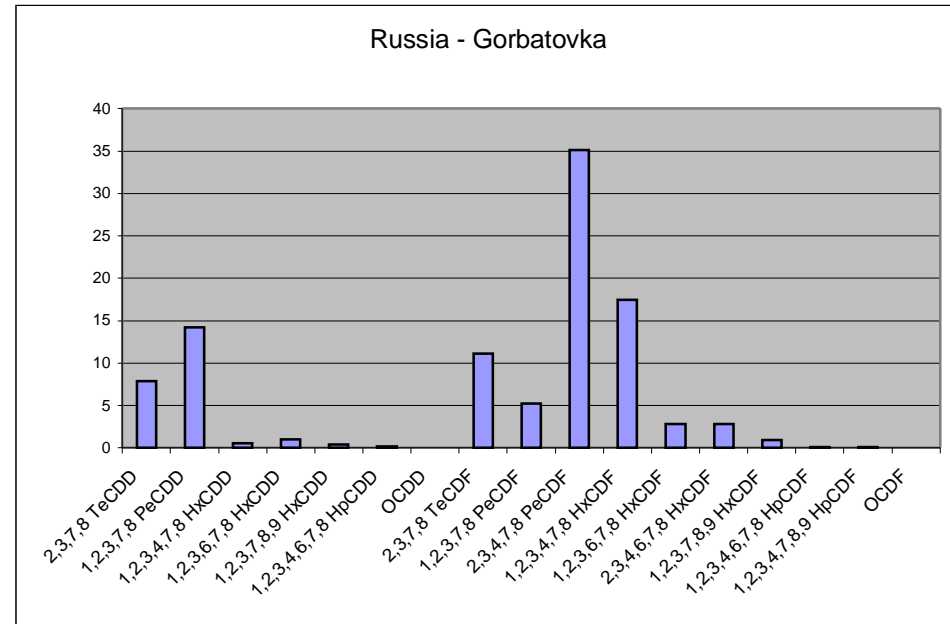
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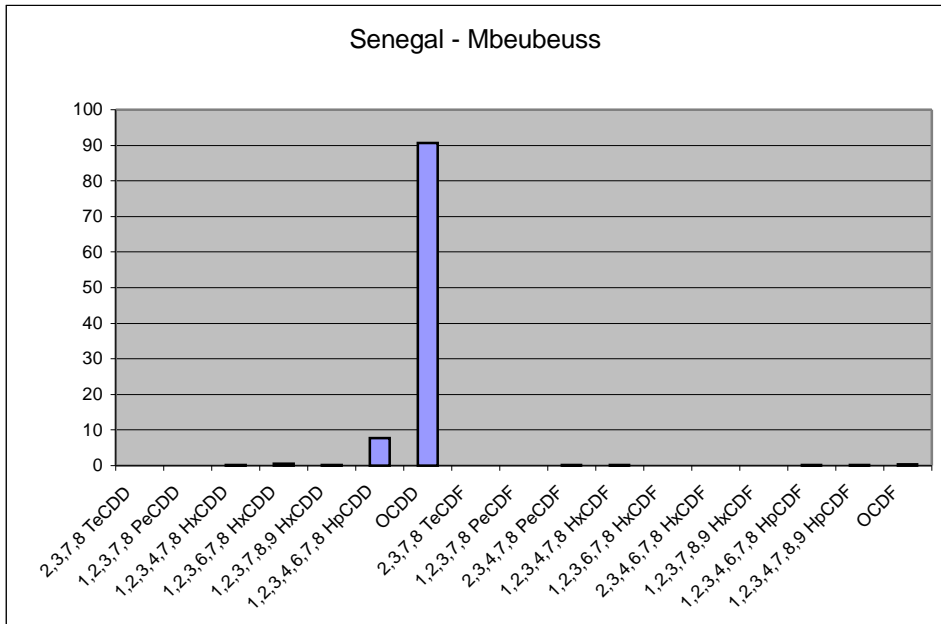


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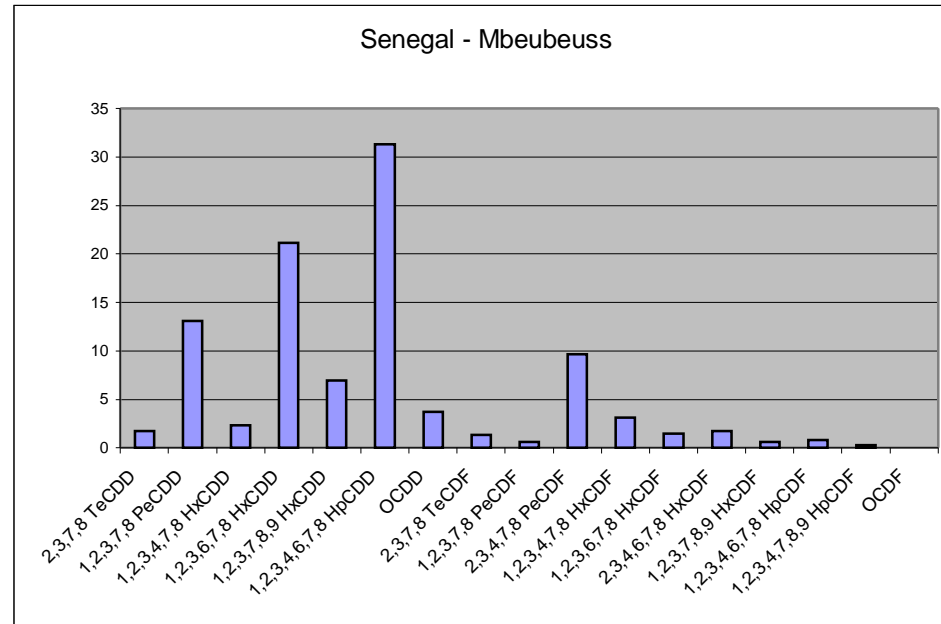
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Senegal - Mbeubeuss

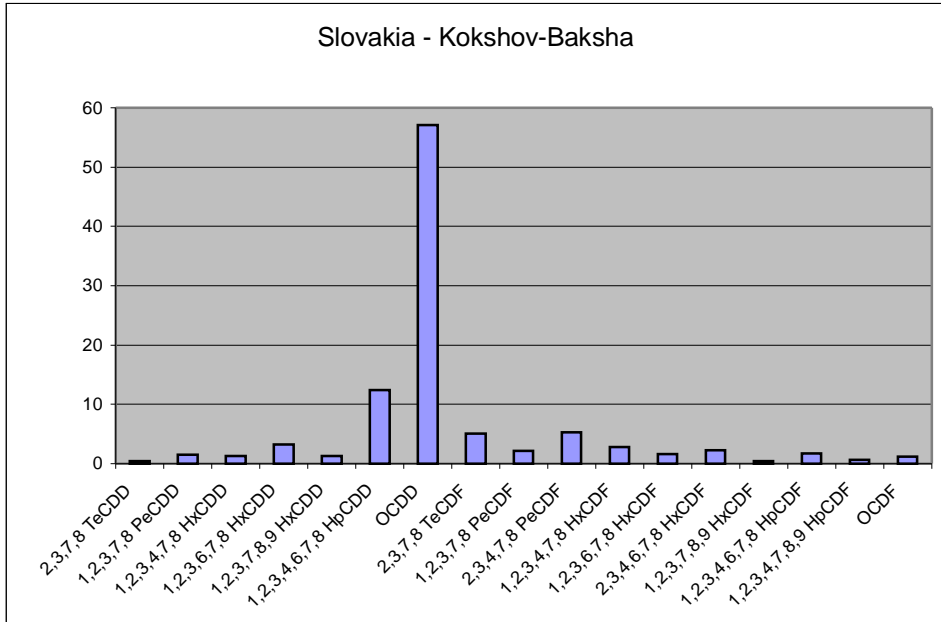


**TEQ**

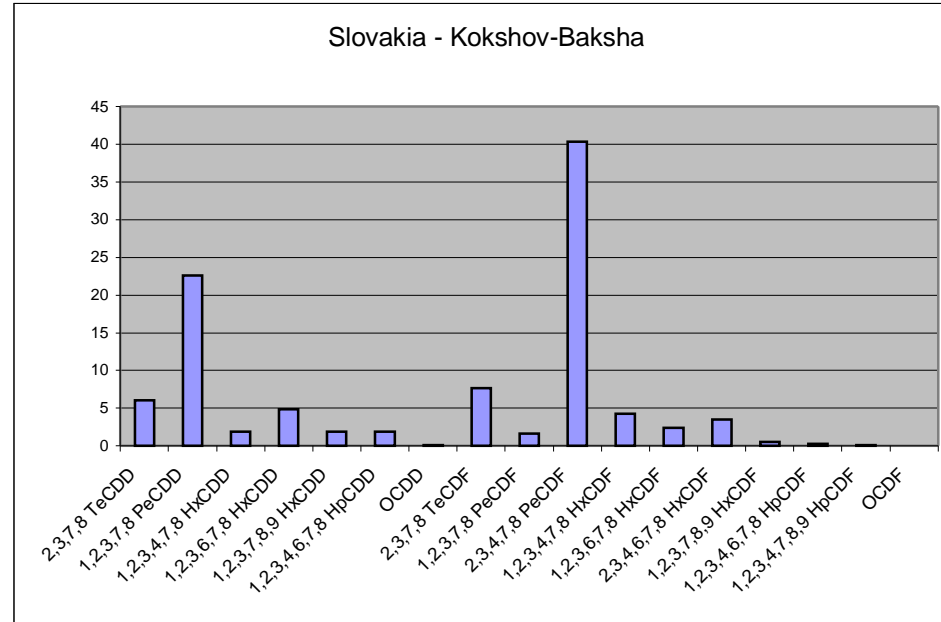
Senegal - Mbeubeuss



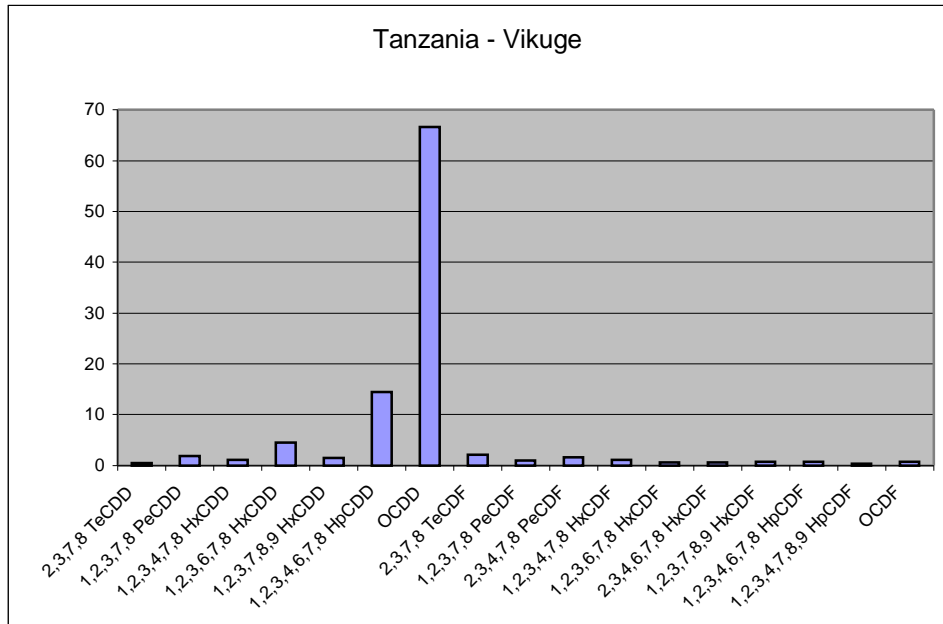
Slovakia - Kokshov-Baksha



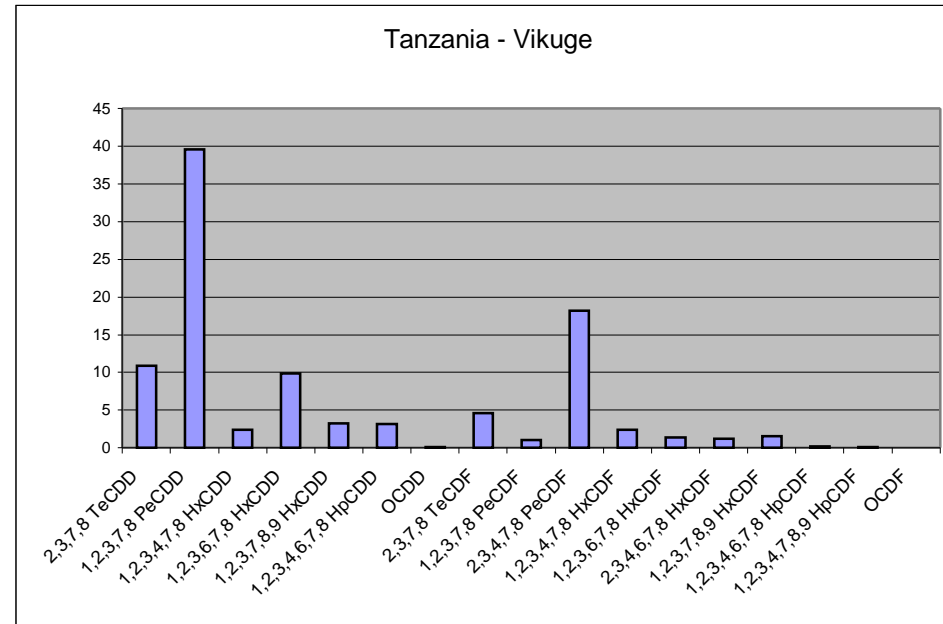
Slovakia - Kokshov-Baksha



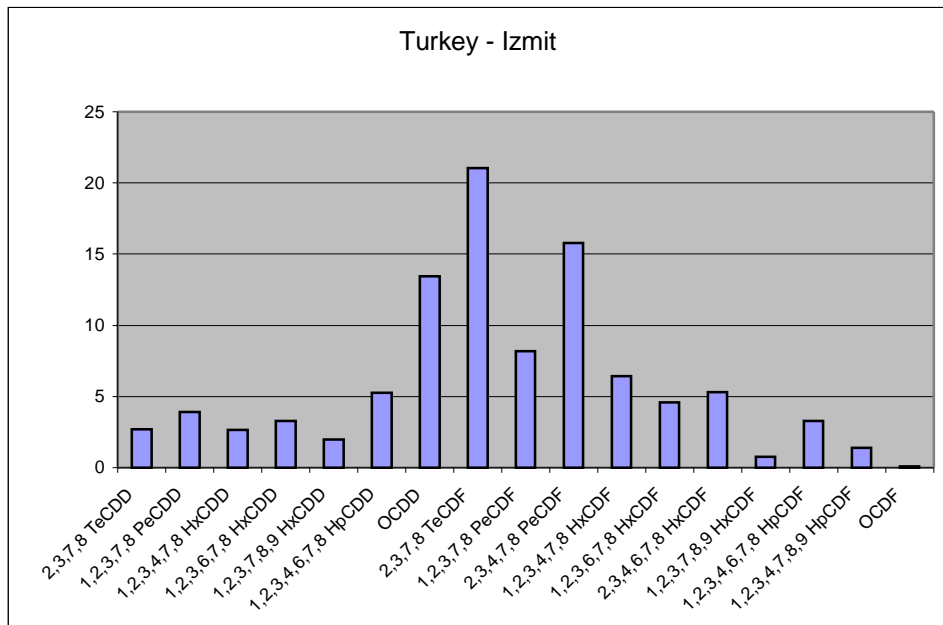
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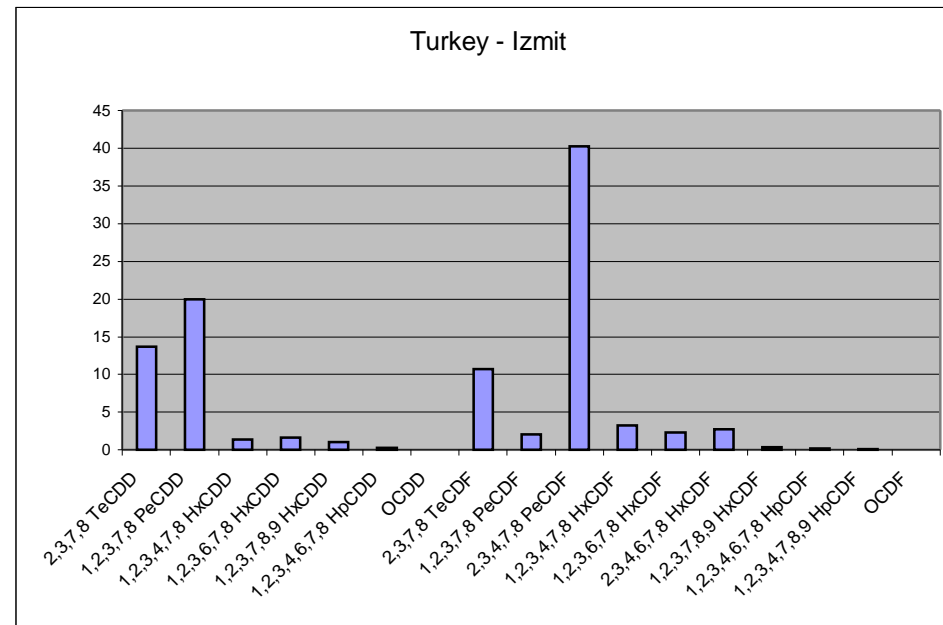
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**Absolut**

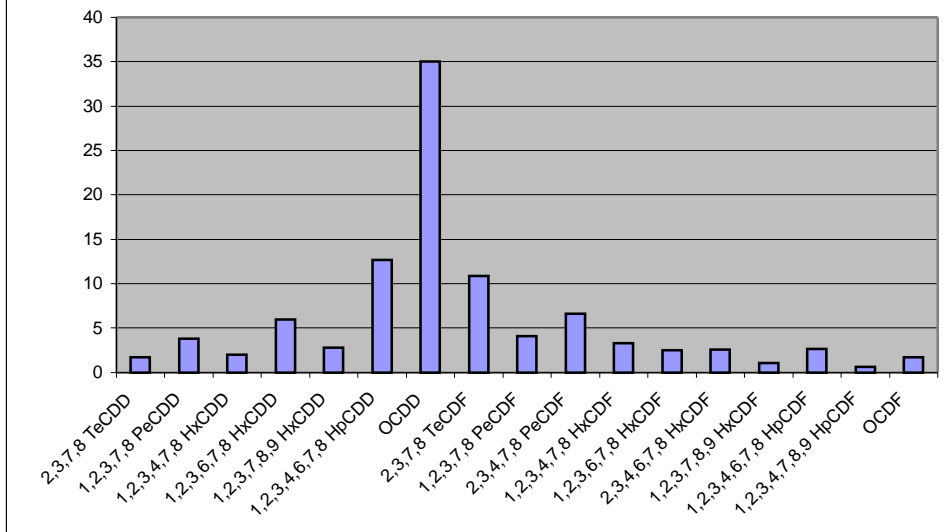


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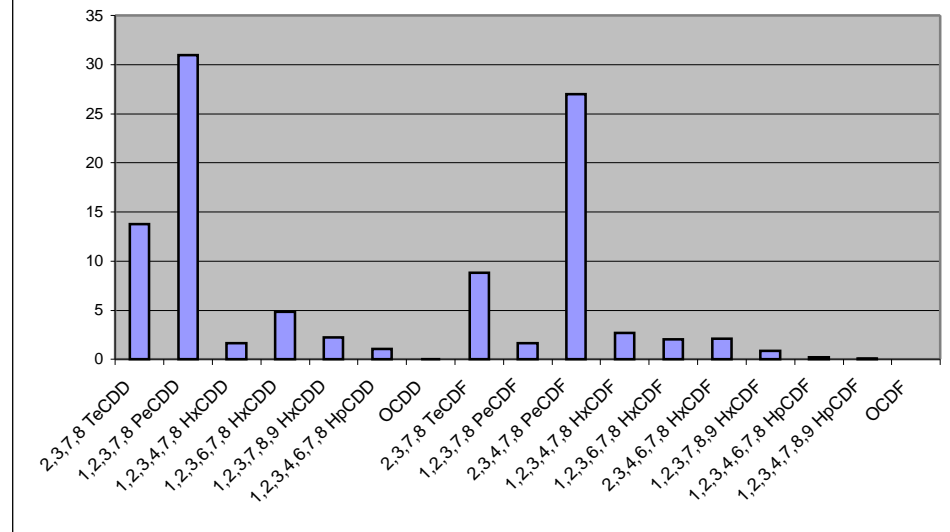
**Absolut**

Uruguay - Minas

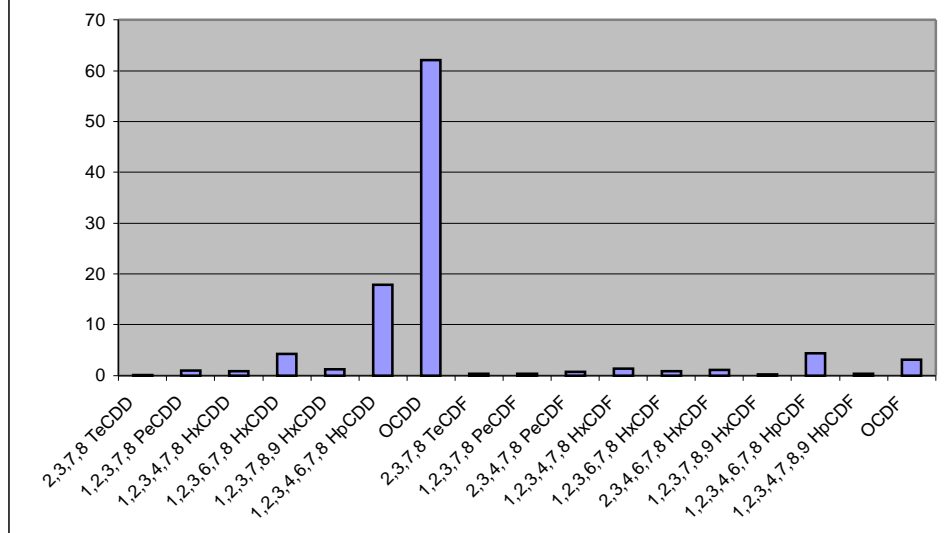


**TEQ**

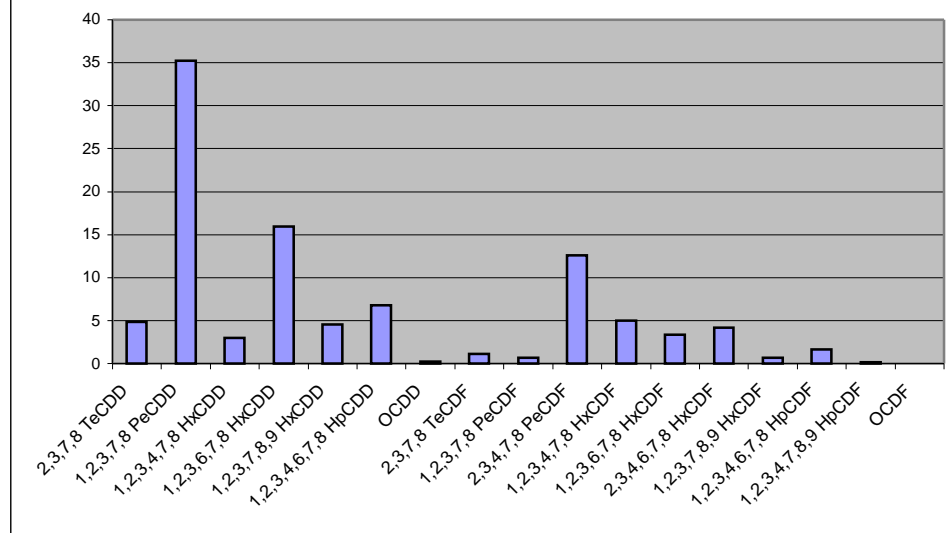
Uruguay - Minas



USA - Mossville



USA - Mossville

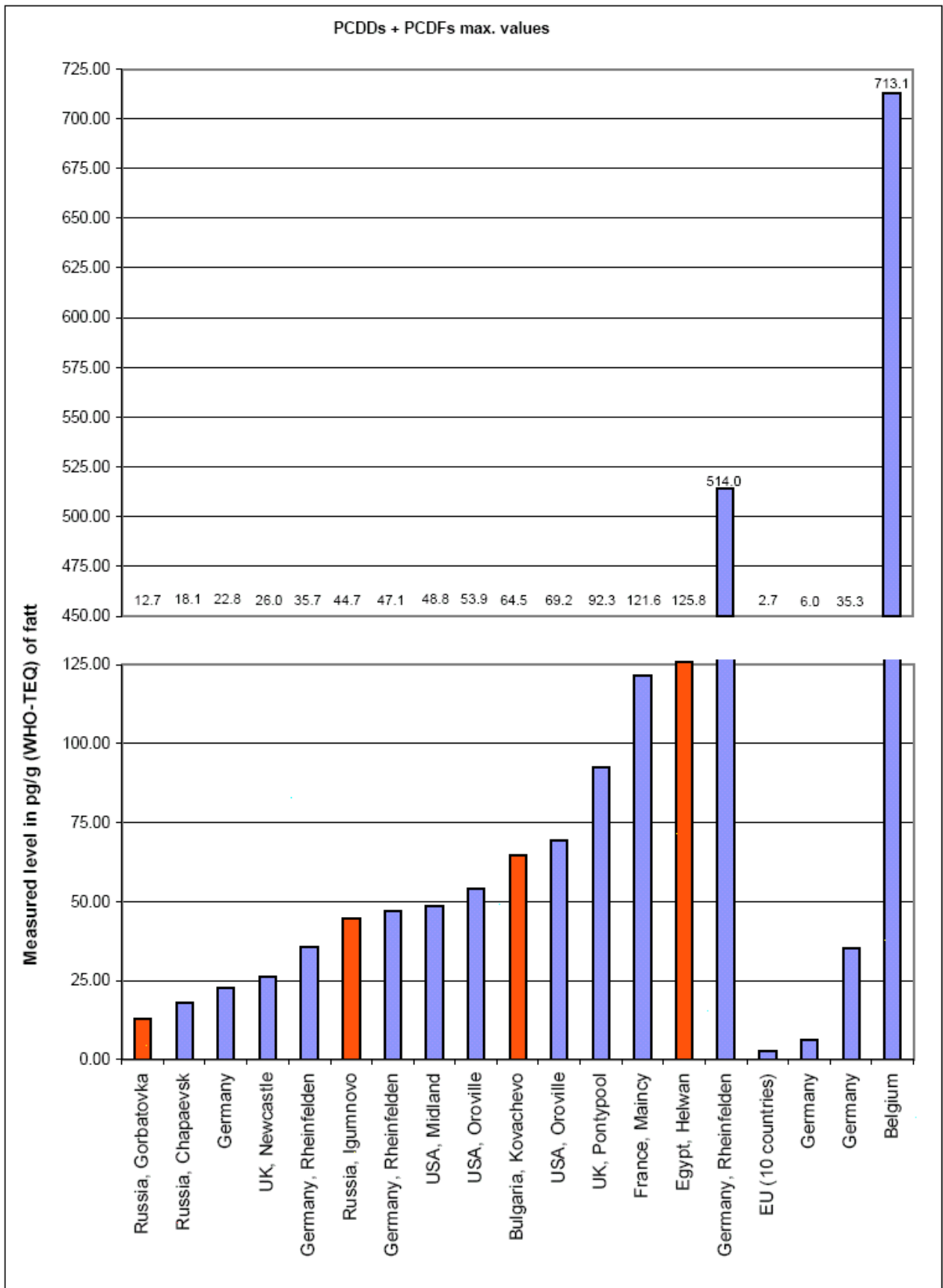




## Annex 10: Maximum levels of dioxins (PCDD/Fs) in different groups of analyzed chicken eggs from different parts of world

Country	Date/year	Group	Measured level in pg/g (WHO-TEQ) of fat	Source of information
Russia, Gorbatovka	2005	free range	12.68	Axys Varilab 2005
Russia, Chapaevsk	1994	free range	18.10	Sotskov, U. P., Revich, B. A. et al. 2000
Germany	1995	free range	22.80	CLUA Freiburg 1995
UK, Newcastle	2002	free range	26.00	Pless-Mulloli, T. et al. 2003b
Germany, Rheinfelden	1991	free range	35.70	Malisch, R. et al. 1996
Russia, Igumnovo	2005	free range	44.69	Axys Varilab 2005
Germany, Rheinfelden	1991	free range	47.10	Malisch, R. et al. 1996
USA, Midland	2002	free range	48.76	
USA, Oroville	1994	free range	53.85	Harnly, M. E. et al. 2000
Bulgaria, Kovachevo	2005	free range	64.54	Axys Varilab 2005
USA, Oroville	1988	free range	69.23	Harnly, M. E. et al. 2000
UK, Pontypool	1993 - 1994	free range	92.31	Lovett, A. A. et al. 1998 *]
France, Maincy	2004	free range	121.55	Pirard, C. et al. 2004
Egypt, Helwan	2005	free range	125.78	Axys Varilab 2005
Germany, Rheinfelden	1992	free range	514.00	Malisch, R. et al. 1996
EU (10 countries)	1990-99	not free range	2.67	Hansen, E., Hansen, C. L. 2003
Germany	1995	not free range	6.04	CLUA Freiburg 1995
Germany	1993 - 1996	not free range	35.29	Malisch, R. 1998
Belgium	May-August 1999	not free range	713.10	Larebeke, N. van et al. 2001

\*] median level from 3 bantam chicken eggs samples measured close to hazardous waste incinerator



## References to Annex 10

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