U.S. Environmental Protection Agency
Office of Pesticide Programs
April 8, 2014

FSIS edits (LQAS and WL): June 17, 2015

Prioritized List of Pesticides Monitored in Meat (Beef & Pork) and Poultry by USDA's Pesticide Data Program

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The table below provides a summary of the pesticide analytes that have been monitored in meats (beef and pork) and poultry as part of USDA's Pesticide Data Program (PDP). In order to facilitate discussion of analytes that should continue to be monitored in U.S. meat/poultry, the preliminary screening criteria provided below was used as an initial stage to prioritize PDP analytes. EPA/OPP understands that the analytical method that is being used by FSIS is the same as the one used by PDP, and thus FSIS should be able to detect this, with little or no extra effort. A fuller list might include others but it is recognized that adding additional compounds may be problematic.

- **Highest Priority:** Detected in PDP meat and poultry (fat and/or muscle) samples.
  Note: those detected only in organ tissue (e.g., liver) were treated as "un-detected".
- **High Priority :** Log K_{ow} value greater than Stockholm Convention threshold of 5.0, but not detected in PDP meat and poultry (fat and/or muscle) samples
- **Medium Priority:** Not detected in PDP meat and poultry (fat and/or muscle) samples, but log K_{ow} comparable to log K_{ow} of detected compounds (i.e., $3.5 \leq \log K_{ow} < 5.0$)
- **Low Priority:** Not detected in PDP meat and poultry (fat and/or muscle samples) and log $K_{ow} < 3.5$

Table Notes:

[A] FSIS has proposed to monitor some pesticide analytes that are not currently measured by USDA/PDP. A summary of these analytes, along with their Kow value and information on whether they have been considered by PDP, is provided below:

Analyte	Log K_{ow}	PDP Notes	CLG-PST5 Notes (LQAS)
Amitraz	5.5	PDP has previously tried to measure, but had problems with the analytical method. PDP does measure the Amitraz metabolite 2,4-dimethylphenyl formamide (2,4-DMPF).	Attempts to include amitraz have not been successful.
Deethyl atrazine	1.5	PDP analytical method has been used to monitor atrazine parent compound in fruits and vegetables.	Included in PST5 as of July 2014
Fipronil desulfinyl	N/A	PDP monitors Fipronil parent compound and could try QuEChERS method to also measure Fipronil metabolites.	Included in PST5 as of July 2014
Fipronil sulfide	N/A		Included in PST5 as of July 2014

[B] **Red Font** = covered by PDP and covered or proposed to be covered by FSIS (source: Feb2013 FSIS presentation and communication with FSIS staff)

Black Font = covered by PDP, but not covered or proposed to be covered by FSIS.

Beige Font = covered by PDP, was removed from FSIS method and may be restored pending additional validation data

Note: Analytes and values in **bold**, located in the first three columns, represent changes from the previous version to the most recent version of the method, which is CLG-PST5.06 as of April 1, 2015.

[BB] FSIS current method analytes are from CLG-PST5.06, effective April 1, 2015. Analytes flagged as validating represent those analytes that will be attempted for inclusion in the next iteration of the method.

[C] MLA = Minimum Level of Applicability. Values in bold represent changes from the previous version of the method. Values flagged with yellow highlight represent those MLAs which FSIS will attempt to implement. In most cases, MLAs have been lowered. Current FSIS MLAs from CLG-PST5.06 can be found at: http://www.fsis.usda.gov/wps/wcm/connect/499a8e9e-49bd-480a-b8b6-d1867f96c39d/CLG-PST5.pdf?MOD=AJPERES

[D] Source: OPP OPPIN Database Query, 7/16/13 & 1/30/14

[E] Log K_{ow} values were generally based on summary values reported in the National Library of Medicine's Hazardous Substance Data Bank (Available at: http://toxnet.nlm.nih.gov/cgi-bin/sis/search). If log K_{ow} were not reported in the Hazardous Substance Databank, a general literature search was performed to obtain an estimate.

[F] Ratio is the Ratio of the FSIS MLA, divided by the Tolerance: "" if Ratio<0.1, "*" if Ratio≥0.1, "**" if Ratio≥0.5, "***" if Ratio≥1.0, and "NT" if No Tolerance was listed in the MRL database. Tolerances were obtained from the USDA, Foreign Agricultural Services, MRL Database (1/9/2014); the lowest tolerance was selected for each commodity, e.g., for lamda cyhalothrin, the tolerance for poultry is 10 ppb (the chemical has a tolerance of 30 ppb on chicken, fat and 10 ppb on chicken, meat), and the MLA for this compound is 5; so the ratio is 0.5=5/10 (**).

[G] Commodity Specific (CS) Exposures were expressed as a percent of the acute Population Adjusted Dose (%aPAD): "" if %aPAD<1%, "*" if %aPAD≥1%, "**" if %aPAD≥10%, "***" if %aPAD≥100%, and "NP" if the chemical did not have an acute PAD for General Population or Children in the ISTEP database. The acute PADs were obtained from the US EPA, OPP/HED ISTEP Database (12/20/2013). Dietary exposures are calculated as such: Dietary Exposure = Consumption (g) x Unit (kg/1000) x Residue (mg ai/kg food) / Bodyweight (kg). CS Exposures were based on the following scenario: pre-schooler weighing 15 kg, consuming 4 oz (113 g) of meat (beef, pork or poultry), and residue based on the highest MLA for each compound-animal.

Ex: Cyhalothrin (MLA=5 ppb, Beef Tolerance=3000 ppb): CS = (113)*(1/1000)*(5/1000) *(1/15) = 0.0000376, or 0.75% of aPAD (0.005).

Maximum concentration = 241.2 ppb, or CS Exp=36.3% aPAD.

[H] PDP LODs are provided for purposes of general guidance. In some cases, PDP LODs can change in different survey periods and may be different for different commodity subtypes (e.g., beef adipose vs. beef muscle). Whenever possible, the LODs reported in the table represent the maximum LOD in the most recent survey period for beef and poultry.

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Commodity/Pesticide [A, B]	Screened in Current FSIS LC/MS/MS and GC/MS/MS Methods[BB]	Current FSIS MLA (ppb)[C]	Proposed FSIS MLA for Analytes in the Extension (ppb)	Established Direct Animal Use[D]	Log K_{ow} [E]	FSIS Detects[J]			PDP LOD (ppm)[H]	
						FSIS Detect FY 2013 (Total Detects)	Ratio (MLA/ Tol)[F]	CS (%aPAD) [G]	Beef	Poultry
Highest Priority – Detected in PDP Meat and Poultry Samples										
1-Naphthol	Yes	30			2.85				0.012	0.0015
Acephate	Yes	10			-0.85	Y (3)	*	*	0.2	0.015
Bifenthrin	Yes	5	2.5(↓)		6	Y (66)	*		0.001	0.0009
Boscalid	Yes	15	7.5(↓)		2.95	Y (8)	*	NP	0.012	0.0003
Carbaryl	Yes	25	6(↓)	Yes	2.36	Y (3)		*	0.02	0.0003
Chlordane cis	Yes	10	5(↓)		6.16				0.004	0.0026
Chlordane trans	Yes	10	5(↓)		6.16				0.004	0.0023
Chlorothalonil	Yes	60	30(↓)		3.05				0.008	--
Chlorpyrifos	Yes	7.5	5(↓)	Yes	4.7	Y (4)	*	*	0.001	0.0015
Cyfluthrin	Validation did not pass		20	Yes	5.62				0.004	0.0024
Cyhalothrin, Total (Cyhalothrin-L + R157836 epimer)	Removed, adding back		3	Yes	6.8	Y (86)	**		0.001	0.0009
DDD p,p'	Yes	50	25(↓)		6.02				0.002	0.0035
DDE p,p'	Yes	50	25(↓)		6.51				0.002	0.00045
DDT p,p'	Yes	50	25(↓)		6.91				0.008	0.0069
Diazinon	Yes	5	2.5(↓)	Yes	3.81				0.004	0.0094
Dieldrin	Yes	25			5.38	Y (3)	NT		0.02	0.0029
Diflufenzopyr					1.09				--	--
Diphenylamine (DPA)	Validation did not pass		2.5		3.5				0.002	--
Endosulfan I	Yes	50	25(↓)	Previous Animal Use, But Phased Out	4.5	Y (2)	*	*	0.002	0.0027
Endosulfan II	Yes	50	25(↓)	Previous Animal Use, But Phased Out	3.83	Y (1)	*		0.002	0.003

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						FSIS Detect FY 2013 (Total Detects)	Ratio (MLA/ Tol)[F]	CS (%aPAD) [G]	Beef	Poultry
Endosulfan sulfate	Yes	50	25(↓)	Previous Animal Use, But Phased Out	3.66	Y (5)			0.002	0.0037
Ethion mono oxon	Yes	10	2(↓)		5.073				--	0.0054
Fipronil	Yes	5			4	Y (3)	*		0.012	0.0006
Heptachlor epoxide (cis + trans)	Yes	25 + 25	12.5(↓) + 25		0				0.02	0.003
Hexachlorobenzene (HCB)	Yes	25	12.5(↓)		5.31				0.001	0.0013
Lindane (BHC gamma)	Yes	40	10(↓)		3.72				0.008	0.002
MGK-264 (isomers 1 and 2)	Yes	50 (#1 + #2)	20 (↓)		3.7				0.02	0.003
Oxychlordane	Yes	10	5(↓)		6	Y (2)	NT	NP	--	0.0027
Permethrin Total	Yes	25	10(↓)	Yes	6.5	Y (35)	*		0.01	0.003
Piperonyl butoxide	Yes	22.5	1(↓)	Yes	4.75	Y (106)	*		0.008	0.0045
Pyrethrins	Yes	46 Pyr. I 31 Pyr. II	6(↓) Pyr. I drop Pyr. II	Yes	5.9				0.04	0.06
Thiabendazole	Yes	15	5(↓)		2.47	Y (8)		NP	--	0.003
High Priority – Log K_{ow} Value greater than Stockholm Convention Threshold of 5.0, but Not detected in PDP Meat and Poultry Samples										
Aldrin	Yes	25	12.5(↓)		6.3	Y (1)	NT	NP	0.02	--
Benfluralin	validating		5		5.29				0.001	--
Carbophenothion	validating		20		5.33				0.004	0.0081
Cypermethrin	Removed, adding back		15	Yes	6.6	Y (81)	*		0.004	0.003
Cyphenothrin	validating		8		7.54				0.02	--
DDD o,p'	Yes	50	25(↓)		6.02				0.002	--
DDE o,p'	Yes	50	25(↓)		6.51				0.002	--
DEF (Tribufos)	validating		2.5		5.7				0.004	--

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						FSIS Detect FY 2013 (Total Detects)	Ratio (MLA/ Tol)[F]	CS (%aPAD) [G]	Beef	Poultry
Dicofol p,p'					5.02				0.004	0.0191
Endrin	validating		25		5.2				0.02	0.0038
Esfenvalerate	validating		2		6.22				--	0.003
Esfenvalerate+Fenvalerate Total	validating		2 + 4		6.22				0.004	0.0015
Ethalfluralin	validating		5		5.11				0.001	0.0006
Ethion	Yes	10	2.5(↓)		5.07				0.02	0.0047
Ethion di oxon					5.073				--	0.0083
Fenpropathrin	Yes	25			6				0.02	0.0009
Fenpyroximate	validating		2		5.01				0.008	--
Fenvalerate	Removed, adding back		4		6.22				--	0.001
Flufenoxuron	validating		5		6.16				0.03	--
Heptachlor	Yes	25	12.5(↓)		5.4	Y (4)	NT	NP	0.02	0.00045
Hexythiazox	Yes	10	5(↓)		5.57				0.012	--
Hydroprene					6.73				--	0.0015
Methoprene					5.5				--	--
Methoxychlor p,p'	validating		15		5.08				--	0.0129
Mirex	Removed, adding back		10		6.89	Y (2)	NT	NP	--	0.0009
Nonachlor cis	Yes	15	7.5(↓)		6.2				0.004	0.0027
Nonachlor trans	Yes	15	7.5(↓)		6.2	Y (1)	NT	NP	0.004	0.0029
Novaluron					5.27				0.15	--
Pentachloroaniline (PCA)	Yes	25	12.5(↓)		5.08				0.002	--
Pentachlorobenzene (PCB)	Yes	10			5.2				0.001	--
Permethrin cis	validating		6	Yes	6.5				--	0.0302
Permethrin trans	validating		4	Yes	6.5				--	0.03

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						FSIS Detect FY 2013 (Total Detects)	Ratio (MLA/ Tol)[F]	CS (%aPAD) [G]	Beef	Poultry
Phenothrin	validating		12		7.54				0.012	--
Propargite	validating		1		5.7				0.02	0.0036
Pyridaben	Yes	9	0.9(↓)		6.37	Y (5)	*		0.004	0.0018
Pyriproxyfen	Yes	20	2(↓)		5.4				--	0.0012
Resmethrin	Yes	50	25(↓)		6.1				0.012	--
Resmethrin-t	validating		25		5.43				--	0.0015
Spirodiclofen	validating		2		5.1				0.002	--
Sulprofos	Yes	25	6(↓)		5.48				0.008	0.015
Tefluthrin	Yes	5	2(↓)		6.5				0.001	--
Tridiphane					5.08				0.008	--
Trifluralin	validating		2.5		5.34				0.001	--
Medium Priority – Criteria: Not detected in PDP, but Log Kow comparable to Log Kow of detected compounds (i.e., 3.5 ≤ Log K_{ow} < 5.0)										
Alachlor	Yes	5	2.5(↓)		3.53	Y (3)	**		0.02	0.0015
Allethrin					4.8				0.02	--
BHC alpha					3.8				0.0033	0.0025
BHC beta					3.8				0.0007	0.0048
Buprofezin	Yes	25	5(↓)		4.3				--	0.0018
Chlorfenvinphos alpha					3.81				--	0.0119
Chlorfenvinphos total					3.81				0.04	--
Chlorpyrifos methyl	Yes	5			4.37	Y (2)		*	0.004	0.00045
Chlorpyrifos methyl O-analog					4.37				--	0.0181
Clethodim					4.21				--	--

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						FSIS Detect FY 2013 (Total Detects)	Ratio (MLA/ Tol)[F]	CS (%aPAD) [G]	Beef	Poultry
Deltamethrin (includes parent Tralomethrin)	Removed, adding back		10		4.6	Y (15)	*	*	0.04	0.0045
Diazinon oxygen analog				Yes (Parent Compound)	3.81				--	0.0104
Difenoconazole	Yes	15	5(↓)		4.2	Y (13)	*		--	0.0024
Diflubenzuron	Yes	12.5	5(↓)		3.89	Y (5)	**	NP	0.05	0.0003
Famoxadone					4.65				0.04	--
Fenarimol					3.69				0.002	0.0009
Fenthion					4.84				0.012	0.0102
Fenthion sulfone					4.84				--	0.0086
Fenoxaprop-ethyl	Yes	10	5(↓)		4.58				--	0.0009
Fluazifop butyl					4.5				0.002	--
Flutolanil					3.77				0.004	0.0003
Fluvalinate	Yes	7.5	4(↓)		4.26				0.004	0.0015
Imazalil	Yes	5			3.82	Y (2)			--	--
Indoxacarb	Yes	25	8(↓)		4.65	Y (1)	***		0.05	0.00015
Isofenphos					4.12				0.004	0.012
Methoxyfenozide	Yes	5	1.5(↓)		3.7	Y (1)	**	NP	0.008	0.00015
Oxadiazon					4.8				0.008	0.0006
Oxyfluorfen					4.73				0.001	0.0006
Oxythioquinox					3.78				--	--
Parathion ethyl					3.83				0.008	0.0104
Parathion methyl oxygen analog					3.83				--	0.004
Parathion oxygen analog					3.83				--	0.011
Phorate					3.92				0.012	0.007
Phorate oxygen analog					3.92				--	0.0063
Phorate sulfone					3.92				--	0.0086
Phorate sulfoxide					3.92				--	0.017

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						FSIS Detect FY 2013 (Total Detects)	Ratio (MLA/ Tol)[F]	CS (%aPAD) [G]	Beef	Poultry
Phosalone					4.38				0.012	0.0088
Pirimiphos methyl	Yes	10	2.5(↓)		4.2				--	0.0096
Prallethrin	Yes	40	8(↓)		3.7				0.008	0.0054
Profenofos	Yes	10	3(↓)		4.44				0.012	0.003
Propetamphos	Yes	7.5	4(↓)		3.82				--	0.0015
Propiconazole	Yes	15	7.5(↓)		3.72	Y (4)	*		--	0.0015
Pyraclostrobin	Yes	50	1.5(↓)		3.58				0.06	--
Quintozene (PCNB)					4.64				0.001	--
Quizalofop ethyl					4.28				0.004	--
Spiromesifen					4.55				0.02	--
Tebufenozide	Yes	40	1.5(↓)		4.25	Y (6)	*	NP	0.01	0.00015
Tetrachlorvinphos	Yes	10	2.5(↓)		3.53	Y (3)			0.008	0.0012
Tetraconazole	Yes	5			3.56	Y (4)	*		--	0.0024
Tetramethrin				Yes	4.73				0.01	--
Trifloxystrobin	Yes	5	1(↓)		4.5				0.004	0.0009
Low Priority – Criteria: Not detected in PDP and Log Kow < 3.5										
2,4-dimethylphenyl formamide (2,4-DMPF)					2.81				0.04	--
2,6-DIPN					"extremely low"				--	--
3-Hydroxycarbofuran	Yes	5	2.5(↓)		0	Y (2)	NT	***	0.016	0.0006
Acetamiprid	Yes	5	2(↓)		0.8				0.06	0.0069
Aldicarb	Yes	10	5(↓)		1.13				0.1	0.00021
Aldicarb sulfone	Yes	10	2.5(↓)		1.13				0.04	0.0012
Aldicarb sulfoxide	Yes	25	12.5(↓)		1.13				0.8	0.00675
Atrazine	Yes	10	2.5(↓)		2.75				0.008	0.0003

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						FSIS Detect FY 2013 (Total Detects)	Ratio (MLA/ Tol)[F]	CS (%aPAD) [G]	Beef	Poultry
Azinphos methyl	Yes	10			2.75	Y (6)	NT	*	0.008	0.0098
Azinphos methyl oxygen analog					2.75				--	0.03
Azoxystrobin	Yes	5	1(↓)		2.5				0.004	0.003
Benoxacor	Yes	5			2.69				--	0.0003
Bifenazate					3.4				0.04	--
Captan					2.8				0.02	0.0307
Carbendazim (MBC)					1.52				--	--
Carbofuran	Yes	5	1.5(↓)		2.32	Y (1)	NT	***	0.008	0.00015
Carboxin	Removed; Adding back		4		2.3				0.012	0.0015
Carfentrazone ethyl	Yes	5			3.36	Y (5)			0.004	--
Chloroneb	Yes	9			3.4				--	--
Chlorpropham	Yes	30	10(↓)		3.47				0.04	0.0103
Clofentezine	Removed; Adding back		15		3.1	Y (1)		NP	0.03	0.00045
Clothianidin	Yes	10	5(↓)		0.7				0.04	--
Coumaphos	Yes	10	2(↓)	Yes	1.58				0.004	0.0088
Coumaphos oxygen analog	Yes	10	2(↓)	Yes	0				--	0.014
Dichlorvos (DDVP)	Yes	10		Yes	1.58	Y (2)	**	*	0.012	0.0015
Dimethoate	Yes	10	3(↓)		0.76				0.016	0.003
Dinotefuran					-0.55				0.05	--
Diphenamid					2.17				--	0.0006
Diuron	Yes	80	5(↓)		2.68				0.06	--
Ethofumesate	Yes	20	5(↓)		2.7	Y (1)	*	NP	0.016	0.0009
Etridiazole					3.37				0.012	0.0009
Fenamidone					2.8				0.02	--
Fenamiphos					3.25				--	--
Fenamiphos sulfone					3.25				--	--
Fenamiphos sulfoxide					3.25				--	--
Fenbuconazole					3.23				--	0.0012

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						FSIS Detect FY 2013 (Total Detects)	Ratio (MLA/ Tol)[F]	CS (%aPAD) [G]	Beef	Poultry
Fenitrothion					3.3				0.004	0.0103
Flonicamid					0.3				0.2	--
Flufenacet					3.2				--	0.0045
Fluridone	Yes	25	5(↓)		1.87				--	0.0009
Fluoxastrobin					2.85				0.008	--
Fluroxypyr-meptyl	Yes	5	3(↓)		2.2				0.001	0.0009
Hexazinone	Yes	30	1(↓)		1.2				--	0.0024
Imidacloprid	Yes	25	8(↓)		0.57	Y (4)			0.04	0.0015
Imiprothrin					2.9				0.04	--
Iprodione					3				0.02	0.0054
Isoxaflutole					2.32				--	0.0018
Linuron	Yes	25	10(↓)		3.2	Y (1)	*	NP	0.02	0.0334
Malathion	Yes	40	4(↓)	Yes	2.89				0.004	0.0015
Malathion oxygen analog				Yes (Parent Compound)	2.89				--	0.0075
Metalaxyl/Mefenoxam	Yes	10	1.5(↓)		1.65	Y (1)	*	NP	0.04	0.0012
Methamidophos	Yes	10	6(↓)		-1.74				--	0.006
Methidathion					2.2				0.012	0.0104
Methiocarb					2.92				0.004	0.0038
Methomyl	Yes	30	4(↓)		0.8	Y (1)	NT	*	0.024	0.0029
Metolachlor	Yes	10	2.5(↓)		3.13				0.008	0.0009
Metribuzin	Yes	50	6(↓)		1.7				0.004	0.0045
MGK-326				Yes	2.12				--	0.0009
Myclobutanil	Yes	10	3(↓)		2.94	Y (1)	*	NP	0.04	0.0018
Nitrapyrin					3.35				--	0.0009
Norflurazon	Yes	10			2.3				0.008	0.0003
Omethoate	Yes	10			-0.74				--	0.006
Oxydemeton methyl					-0.74				--	--
Oxydemeton methyl sulfone					-0.74				--	--

FSIS edits (LQAS and WL): June 17, 2015

Commodity/Pesticide [A, B]	Screened in Current FSIS LC/MS/MS and GC/MS/MS Methods[BB]	Current FSIS MLA (ppb)[C]	Proposed FSIS MLA for Analytes in the Extension (ppb)	Established Direct Animal Use[D]	Log K_{ow} [E]	FSIS Detects[J]			PDP LOD (ppm)[H]	
						FSIS Detect FY 2013 (Total Detects)	Ratio (MLA/ Tol)[F]	CS (%aPAD) [G]	Beef	Poultry
Parathion methyl					2.86				0.004	0.0094
Phosmet	Removed; may add back later			Yes	2.95				0.012	0.009
Pronamide	Yes	5			3.43	Y (2)	NT	NP	0.004	0.0003
Propachlor	Yes	10	3.6(↓)		2.18				0.012	0.0036
Propachlor oxanylic acid (OA)					2.18				--	--
Propanil	Yes	25 (6)	8(↓)		3.07	Y (9)	*	NP	0.1	0.0012
Propham					2.6				0.0017	0.0056
Sethoxydim					1.65				--	0.0003
Simazine	Yes	10	5(↓)		2.3	Y (1)	*	NP	0.012	0.00195
Tebuthiuron					1.79				0.008	--
Terbacil					1.89				--	--
Tetrahydrophthalimide (THPI)					0.3				0.012	0.006
Thiacloprid					1.26				0.008	--
Thiamethoxam	Yes	10	4(↓)		-0.13				0.08	--
Thiobencarb	Yes	50	2(↓)		3.4				0.04	0.0006
Triadimefon					2.3				0.008	0.0015
Triadimenol					3.2				--	0.0024
Triflumizole					1.4				--	0.0009
Vinclozolin					3.1				0.002	0.0003