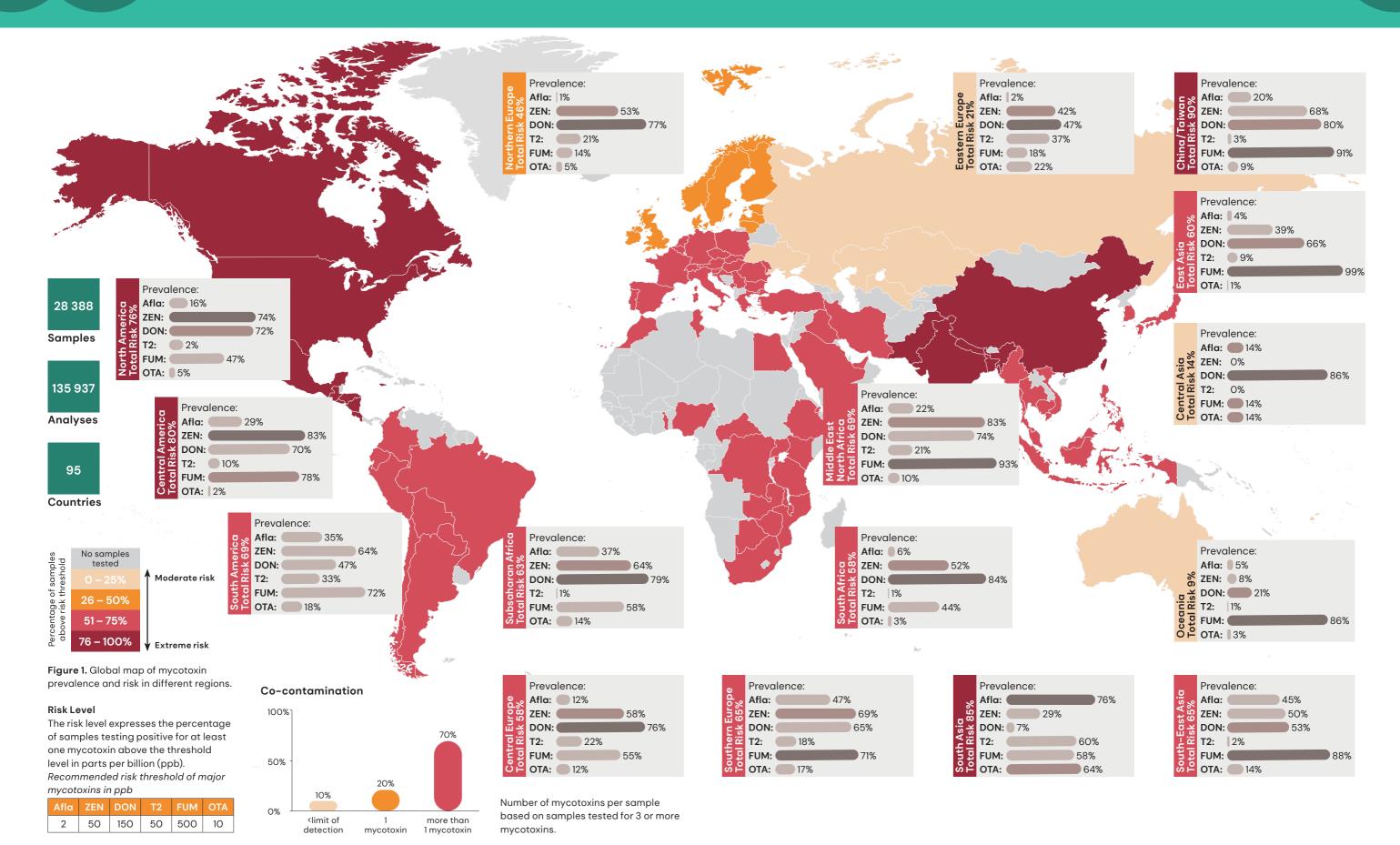
The Global Threat January – December 2024

A CANADA

# dsm-firmenich

# dsm-firmenich World Overview



3

## The Global Threat -January to December 2024

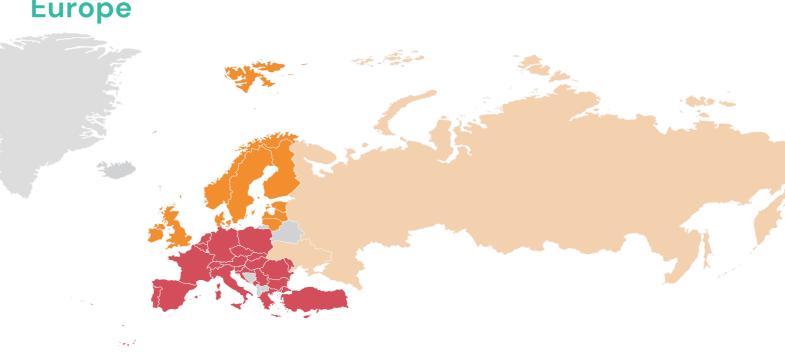
Comparison of development 2023 to 2024 of prevalence and average concentration levels based on all raw commodities and finished feed globally

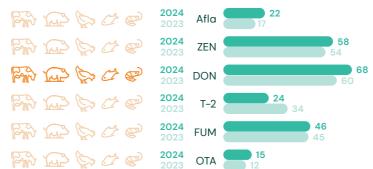
2024	Afla	ZEN	DON	T-2	FUM	ΟΤΑ
Prevalence	29%	60%	63%	23%	61%	17%
Average of positive (ppb)	18	110	730	32	1 516	11
2023	Afla	ZEN	DON	T-2	FUM	ΟΤΑ
Prevalence	24%	52%	56%	22%	55%	11%
Average of positive (ppb)	26	107	696	34	1 473	12

### Ruminant risk development 2023 to 2024 based on all raw commodities and finished feed globally Afla ZEN DON FUM OTA T-2 2023: 30% 2024: 1% 2024:13% 2024: 12% 2023: 11% 2024: 30% 2023: 1% 2024:09 Swine risk development 2023 to 2024 based on all raw commodities and finished feed globally Afla DON FUM OTA ZEN T-2 2023: 40% 2024: 3% **2024:** 27% 2024:1% 2024: 209 2024: 22% 2024: 43% 2023: 3% 2023: 23% Poultry risk development 2023 to 2024 based on all raw commodities and finished feed globally Afla ZEN DON T-2 FUM OTA **2023:** 37% **2024:** 3% 2024: 22% 2024: 37% 2024: 23% 2024:3% 023:20% 2023:3% Fish risk development 2023 to 2023 based on all raw commodities and finished feed globally Afla ZEN DON FUM OTA T-2 2024: 13% 2024: 22% 2024: 43% **2023**: 40% **2024**: 3% 2024:13% 2024: 2% 2023:3% 6 Shrimp risk development 2023 to 2023 based on all raw commodities and finished feed globally Afla ZEN DON T-2 FUM OTA 2024:13% 2024: 43% **2023**: 40% **2024**: 3% 2023: 3% 2024: 32%

2024:2%

### **Europe**



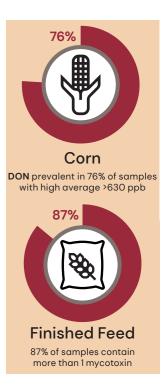


Animal colours indicate the risk posed to this species by the prevalence and concentration of each mycotoxin in all samples from this region (light orange=moderate to red=extreme see color code page 2). % Contaminated samples January-December 2024 and January-December 2023

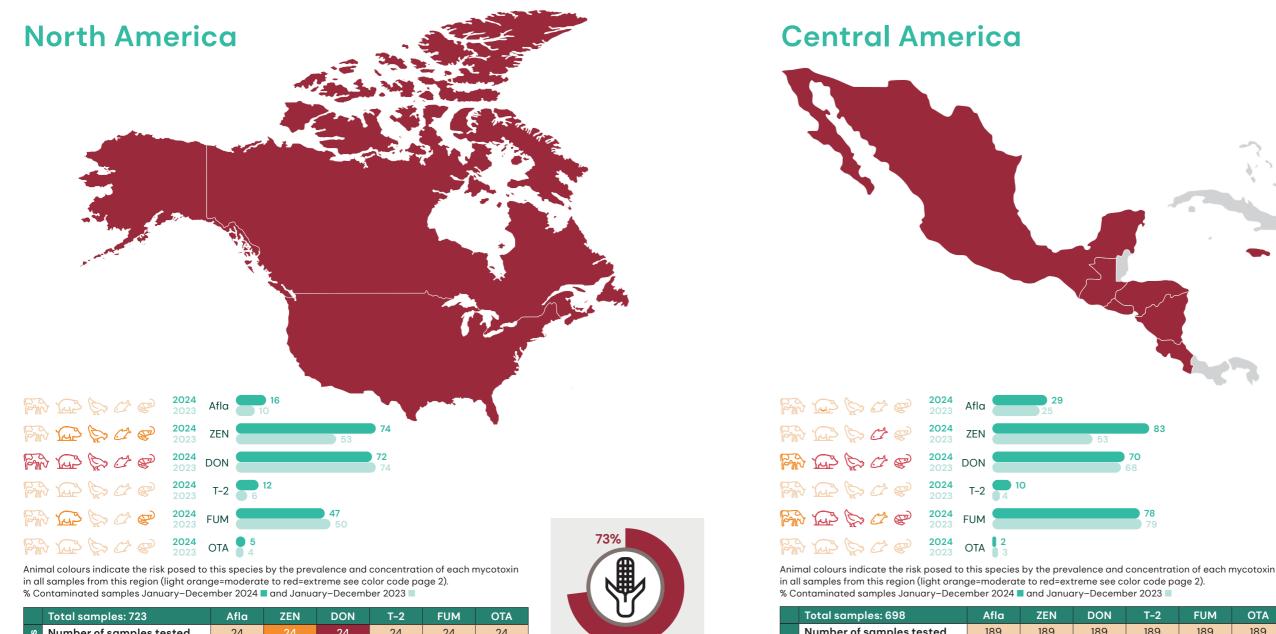
	Total samples: 3 664	Afla	ZEN	DON	T-2	FUM	ΟΤΑ
su	Number of samples tested	770	1338	1 425	957	758	713
grains	% Contaminated samples	11%	31%	61%	12%	6%	8%
at g	Average of positive (ppb)	7	31	383	13	61	28
Wheo	Median of positive (ppb)	7	11	99	10	23	4
≥	Maximum (ppb)	15	641	14 667	63	440	928
s	Number of samples tested	1 351	1 612	1 620	1064	1358	1 0 2 2
rnels	% Contaminated samples	30%	59%	76%	38%	77%	9%
<del>x</del>	Average of positive (ppb)	14	98	639	54	473	28
orn	Median of positive (ppb)	6	34	270	19	131	5
Ŭ	Maximum (ppb)	741	2 143	14 257	1 7 3 1	21 172	331
ed	Number of samples tested	3 144	3 501	3 487	2 860	2 874	2 848
Э́Ц	% Contaminated samples	28%	74%	75%	25%	64%	23%
bed	Average of positive (ppb)	5	39	284	17	234	4
inished	Median of positive (ppb)	3	14	148	11	87	2
i.	Maximum (ppb)	270	4 619	5 660	892	11 088	173

2024: 22%

023.20%



## The Global Threat -January to December 2024



	Total samples: 723	Atia	ZEN	DON	1-2	FUM	OTA
ns	Number of samples tested	24	24	24	24	24	24
grains	% Contaminated samples	0%	75%	88%	33%	4%	29%
at g	Average of positive (ppb)		59	1 214	142	153	5
Wheat	Median of positive (ppb)		45	820	78	153	3
≥	Maximum (ppb)	0	278	4 526	481	153	17
s	Number of samples tested	453	464	464	460	460	453
kernels	% Contaminated samples	6%	68%	73%	11%	68%	1%
ke	Average of positive (ppb)	16	92	1043	33	3 995	5
Corn	Median of positive (ppb)	2	18	383	16	1143	3
U	Maximum (ppb)	111	2 305	21 146	360	96 316	16
ed	Number of samples tested	723	723	723	723	723	723
Ъ.	% Contaminated samples	20%	78%	78%	9%	52%	4%
Jed	Average of positive (ppb)	14	91	1 185	15	2 865	3
nished	Median of positive (ppb)	1	30	610	9	1 2 3 5	2
Ë	Maximum (ppb)	349	2 310	20 963	131	31 557	14



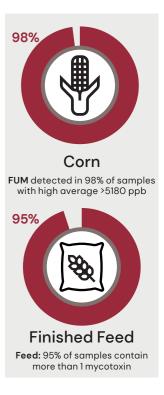
Corn DON detected in 73% of samples with high average >1 000 ppb



Corn FUM detected in 68% of samples with high average >3 990 ppb

Total samples: 698	Afla	ZEN	DON	T-
Number of samples tested	189	189	189	18
% Contaminated samples	8%	42%	2%	19
Average of positive (ppb)	1	5	317	10
Median of positive (ppb)	1	2	280	10
Maximum (ppb)	6	48	534	10
Number of samples tested	237	237	236	23
% Contaminated samples	16%	81%	82%	10
Average of positive (ppb)	8	32	572	2
Median of positive (ppb)	1	15	406	19
Maximum (ppb)	54	371	4 914	4
Number of samples tested	698	698	694	69
% Contaminated samples	35%	95%	83%	6
Average of positive (ppb)	2	43	441	ę
Median of positive (ppb)	1	28	333	7
Maximum (ppb)	45	1653	6 229	3
	Number of samples tested % Contaminated samples Average of positive (ppb) Median of positive (ppb) Maximum (ppb) Number of samples tested % Contaminated samples Average of positive (ppb) Median of positive (ppb) Number of samples tested % Contaminated samples Average of positive (ppb) Median of positive (ppb)	Number of samples tested189% Contaminated samples8%Average of positive (ppb)1Median of positive (ppb)1Maximum (ppb)6Number of samples tested237% Contaminated samples16%Average of positive (ppb)8Median of positive (ppb)1Maximum (ppb)54Number of samples tested698% Contaminated samples35%Average of positive (ppb)2Median of positive (ppb)1	Number of samples tested189189% Contaminated samples8%42%Average of positive (ppb)15Median of positive (ppb)12Maximum (ppb)648Number of samples tested237237% Contaminated samples16%81%Average of positive (ppb)832Median of positive (ppb)115Maximum (ppb)54371Number of samples tested698698% Contaminated samples35%95%Average of positive (ppb)243Median of positive (ppb)128	Number of samples tested189189% Contaminated samples8%42%2%Average of positive (ppb)15317Median of positive (ppb)12280Maximum (ppb)648534Number of samples tested237237236% Contaminated samples16%81%82%Average of positive (ppb)832572Median of positive (ppb)115406Maximum (ppb)543714 914Number of samples tested698698694% Contaminated samples35%95%83%Average of positive (ppb)243441Median of positive (ppb)128333





## The Global Threat -January to December 2024



% Contaminated samples January-December 2024 and January-December 2023

Total samples: 725	Afla	ZEN	DON	T-2	FUM	ΟΤΑ
2 Number of samples tested	77	98	76	81	70	29
Number of samples tested % Contaminated samples	36%	69%	74%	40%	51%	7%
Average of positive (ppb)	2	126	1259	45	444	4
Average of positive (ppb) Median of positive (ppb) Maximum (ppb)	2	67	940	42	315	4
Maximum (ppb)	5	1 174	4 070	104	1 810	6
<u>o</u> Number of samples tested	2 752	2 627	1605	1598	2 617	1102
Number of samples tested Contaminated samples Average of positive (ppb)	22%	51%	47%	26%	84%	11%
Average of positive (ppb)	13	60	412	34	2 413	28
Median of positive (ppb)	2	35	250	29	1859	2
O Maximum (ppb)	583	1 370	5 020	400	17 820	800
Number of samples tested	700	666	647	623	723	178
Number of samples tested% Contaminated samples	54%	76%	38%	13%	90%	13%
Average of positive (ppb)	7	61	491	25	1737	3
Median of positive (ppb) Maximum (ppb)	4	32	321	20	837	2
🗄 Maximum (ppb)	216	1084	6 675	84	66 390	6

Wheat grain DON detected in 74% of samples with high average >1250 ppb

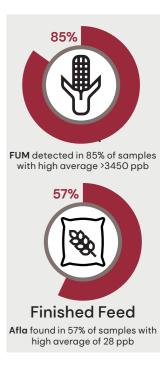


**Finished Feed** FUM present in 90% of samples with high average >1730 ppb

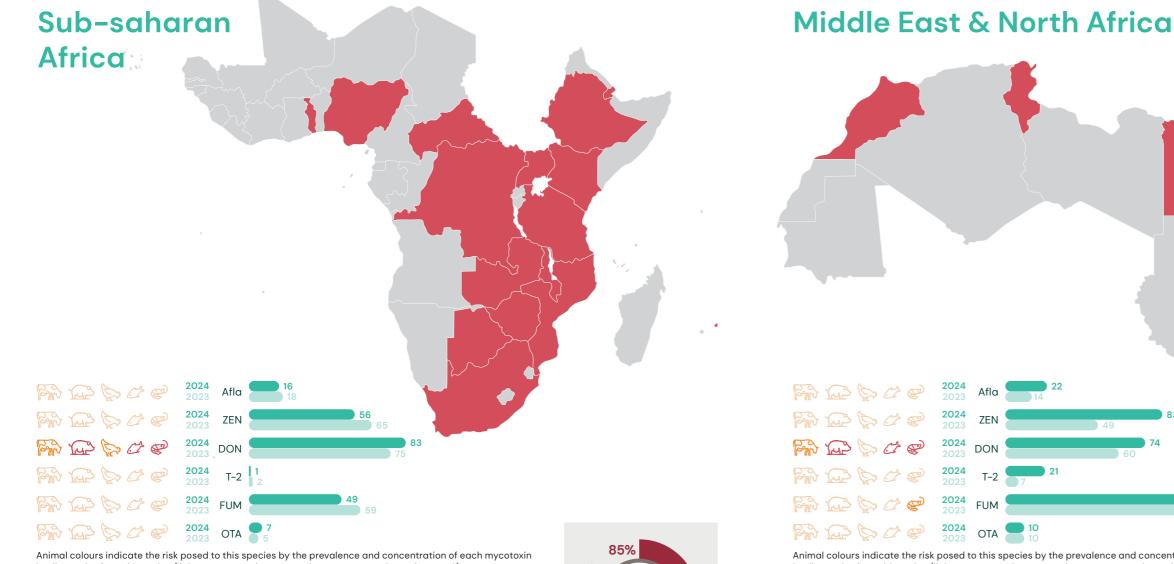
in all samples from this region (light orange=moderate to red=extreme see color code page 2). % Contaminated samples January-December 2024 and January-December 2023

	Total samples: 2 023	Afla	ZEN	DON	T-2	FUM	ΟΤΑ
su	Number of samples tested	189	192	195	84	187	84
rains	% Contaminated samples	2%	54%	45%	5%	76%	11%
at g	Average of positive (ppb)	5	71	667	31	354	3
Wheo	Median of positive (ppb)	4	62	259	17	330	2
≥	Maximum (ppb)	11	536	5 348	79	2 200	7
<u>s</u>	Number of samples tested	1 108	1 207	1235	331	1 129	320
kernels	% Contaminated samples	29%	43%	65%	29%	85%	14%
	Average of positive (ppb)	53	157	675	27	3 455	9
orn	Median of positive (ppb)	26	64	497	22	1740	2
ပ	Maximum (ppb)	517	3 750	13 614	96	489 698	133
ed	Number of samples tested	1 919	1996	2 019	1 919	1 919	1565
Ъе	% Contaminated samples	57%	52%	49%	28%	90%	43%
hed	Average of positive (ppb)	28	73	1542	28	1 131	9
Finisł	Median of positive (ppb)	15	42	318	25	790	5
ιĒ.	Maximum (ppb)	1160	1800	476 954	99	11 919	579





## The Global Threat – January to December 2024

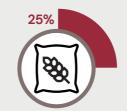


in all samples from this region (light orange=moderate to red=extreme see color code page 2). % Contaminated samples January-December 2024 and January-December 2023

	Total samples: 435	Afla	ZEN	DON	T-2	FUM	ΟΤΑ
ns	Number of samples tested	16	16	16	16	16	16
grains	% Contaminated samples	0%	75%	100%	0%	25%	31%
	Average of positive (ppb)		7	362		49	2
Wheat	Median of positive (ppb)		7	218		56	2
≥	Maximum (ppb)	0	14	1264	0	56	4
s	Number of samples tested	472	472	472	472	472	472
kernels	% Contaminated samples	10%	31%	85%	0%	47%	1%
ke	Average of positive (ppb)	62	44	374	15	439	6
Corn	Median of positive (ppb)	12	12	177	15	131	5
Ŭ	Maximum (ppb)	752	1058	5 272	16	5 361	11
şď	Number of samples tested	435	435	435	435	435	434
Feed	% Contaminated samples	25%	85%	89%	1%	67%	7%
hed	Average of positive (ppb)	43	30	389	10	194	3
Finish	Median of positive (ppb)	6	10	202	11	70	2
Ë	Maximum (ppb)	337	1 4 9 2	5 225	17	2 141	12



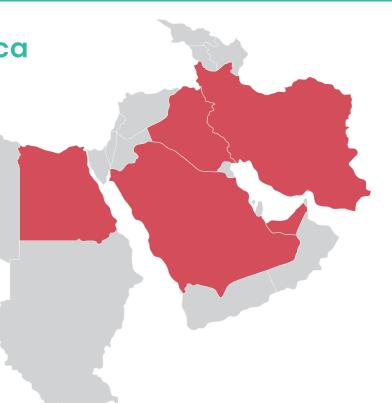
Corn DON found in 85% of samples



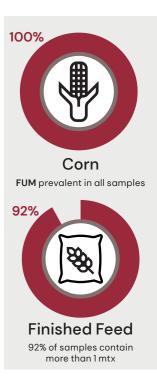
Finished Feed Afla in 25% of samples with high average of 43 ppb

Animal colours indicate the risk posed to this species by the prevalence and concentration of each mycotoxin in all samples from this region (light orange=moderate to red=extreme see color code page 2). % Contaminated samples January-December 2024 and January-December 2023

	Total samples: 10 188	Afla	ZEN	DON	T-2	FUM	ΟΤΑ
ies	Number of samples tested	198	198	198	194	198	194
odities	% Contaminated samples	22%	83%	74%	21%	93%	10%
Ĕ	Average of positive (ppb)	2	36	334	15	563	3
comm	Median of positive (ppb)	1	14	239	11	245	2
AII	Maximum (ppb)	13	863	4 028	95	22 030	11
ls	Number of samples tested	24	24	24	23	24	23
kernels	% Contaminated samples	13%	67%	83%	35%	100%	13%
	Average of positive (ppb)	4	111	636	39	553	5
Corn	Median of positive (ppb)	4	15	407	34	222	5
ပ	Maximum (ppb)	6	863	4 028	95	4 580	7
ed	Number of samples tested	157	157	157	157	157	157
Fe	% Contaminated samples	25%	90%	71%	19%	93%	8%
hed	Average of positive (ppb)	2	27	273	9	448	2
nish	Median of positive (ppb)	1	14	225	7	280	2
Ë	Maximum (ppb)	13	219	1 293	28	3 698	11







## The Global Threat -January to December 2024

### Focus: major grain & soy producing countries

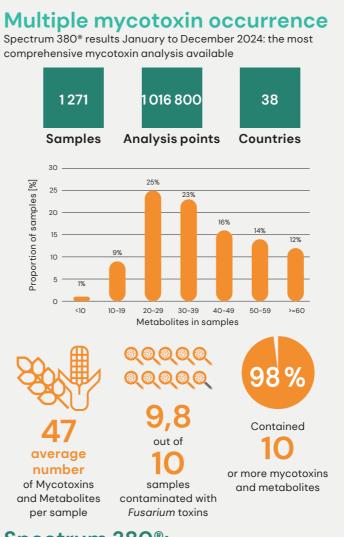
Country		Afla	ZEN	DON	T2	FUM	OTA
	Number of samples	246	240	246	245	246	46
	% Contaminated samples	22%	22%	14%	3%	69%	2%
Brazil	Average of positives (ppb)	14	100	417	55	1044	14
	Median of positives (ppb)	6	40	317	45	826	14
	Maximum (ppb)	212	1370	1961	109	6 959	14
	Number of samples	2 0 2 9	1 973	964	954	1836	676
	% Contaminated samples	15%	51%	42%	24%	81%	0%
Argentina	Average of positives (ppb)	3	61	482	40	2 392	
	Median of positives (ppb)	2	38	273	38	1850	
	Maximum (ppb)	50	1005	4 190	109	17 820	
	Number of samples	35	36	36	33	36	33
	% Contaminated samples	20%	22%	67%	21%	72%	6%
Ukraine	Average of positives (ppb)	16	20	143	21	463	12
	Median of positives (ppb)	14	10	93	11	267	12
	Maximum (ppb)	40	96	460	55	3 186	22
	Number of samples	419	419	419	419	419	419
	% Contaminated samples	7%	70%	71%	11%	73%	1%
USA	Average of positives (ppb)	16	87	1003	25	4 0 97	5
	Median of positives (ppb)	2	16	358	15	1209	3
	Maximum (ppb)	111	2 305	21146	97	96 316	16

Country		Afla	ZEN	DON	Т2	FUM	ΟΤΑ
	Number of samples	21	21	21	21	21	21
	% Contaminated samples	0%	81%	95%	38%	5%	33%
USA	Average of positives (ppb)		57	1064	142	153	5
	Median of positives (ppb)		36	814	78	153	3
	Maximum (ppb)	0	278	4 526	481	153	17
	Number of samples	44	44	44	44	44	44
	% Contaminated samples	2%	2%	7%	0%	77%	0%
Australia	Average of positives (ppb)	1	50	68		31	
	Median of positives (ppb)	1	50	41		25	
	Maximum (ppb)	1	50	140	0	95	0
	Number of samples	10	115	115	55	14	10
	% Contaminated samples	0%	30%	70%	4%	0%	10%
France	Average of positives (ppb)		41	250	4		2
	Median of positives (ppb)		13	91	4		2
	Maximum (ppb)	0	640	4 956	5	0	2

Wheat

	Country		Afla	ZEN	DON	T2	FUM	OTA
		Number of samples	1408	1544	548	1 2 0 1	390	353
		% Contaminated samples	42%	77%	55%	37%	4%	1%
	Argentina	Average of positives (ppb)	2	113	181	41	179	2
		Median of positives (ppb)	2	94	160	36	47	2
an		Maximum (ppb)	9	506	510	104	1530	2
	Brazil	Number of samples	123	123	123	123	123	22
		% Contaminated samples	14%	38%	4%	8%	19%	0%
		Average of positives (ppb)	5	93	657	29	393	
		Median of positives (ppb)	5	43	390	25	199	
		Maximum (ppb)	12	963	2 082	72	2 201	0
		Number of samples	53	53	53	53	53	53
		% Contaminated samples	6%	40%	2%	0%	23%	15%
	USA	Average of positives (ppb)	2	12	46		111	3
		Median of positives (ppb)	3	3	46		46	2
		Maximum (ppb)	4	48	46	0	684	11

### Total 980 samples from 38 countries; 784 000 points of analysis



### Spectrum 380<sup>®</sup>:

The most advanced and comprehensive mycotoxin analysis available. It detects > 800 different mycotoxins (including masked and modified forms and emerging mycotoxins), fungal metabolites as well as plant and bacterial toxins and metabolites. This is not a routine analysis but it is done in special cases and/or also of course as part of research of future objectives. Spectrum 380® is developed and conducted by the world's leading independent mycotoxin research lab at the Department of Agrobiotechnology (IFA-Tulln) at the University of Natural Resources and Life Sciences Vienna and offered through cooperation with Performance Solutions plus Biomin.

### Spectrum Top<sup>®</sup>50:

The most comprehensive mycotoxin analysis commercially available. It detects > 50 different mycotoxins (including masked and modified forms), emerging mycotoxins and fungal metabolites. The Spectrum Top® 50 method was developed by scientists of Romer Labs, a leading global supplier of diagnostic solutions for food and feed safety.

Corn

### **Mycotoxins & metabolites**

letabolite	Prevalence	Average	Maximum
ryptophol	91%	351	78 200
Aurofusarin	76%	413	17 329
inniatin B	71%	103	2 871
Abscisic acid	70%	301	7 685
Beauvericin	69%	18	1 016
iquisetin	69%	109	10 603
Culmorin	68%	116	3 800
Aoniliformin	68%	96	2 279
Brevianamid F	64%	86	1663
inniatin B1	64%	53	1283
nfectopyron	64%	8 394	631680
liccanol	63%	224	8 688
imodin	61%	40	2197
Bikaverin	61%	32	605
Asperglaucide	60%	190	25 781
Asperphenamate	60%	144	12 557
Deoxynivalenol	60%	499	22 354
lavoglaucin	59%	355	95 136
learalenone	59%	68	4 961
Altersetin	55%	48	5 0 5 2
5-Hydroxyculmori <mark>n</mark>	54%	482	14 770
Fellutanine A	53%	73	1288
Daidzein	52%	3 669	26 110
Genistin	52%	37 732	322 600
Rugulusovin	52%	92	3 0 4 4
Genistein	52%	2 795	22 649
Antibiotic Y	52%	457	108 480
leoechinulin A	51%	227	79 008
Daidzin	51%	3 669	26 110

Positive Samples [%] for metabolites present in >50% of samples (orange bars indicate regulated or guideline mycotoxins; red bar indicates a masked mycotoxin). Cut off for all metabolites 1 ppb (except for aflatoxins 0.5 ppb). Average of positives and Maximum are presented in ppb.

S

## The Global Threat -January to December 2024

### Overview of the most frequently found mycotoxins, their masked and modified forms as well as emerging mycotoxins in all samples and finished feed

Metabolite	Prevalence	Average	Maximum
Deoxynivalenol	75%	496	20 666
Beauvericin	70%	45	2 390
Enniatin B	66%	69	7 825
Enniatin B1	63%	26	1763
Fumonisin B1	61%	448	335 053
Fumonisin B2	58%	168	114 907
Zearalenone	57%	77	9 0 9 9
Moniliformin	55%	112	3 4 4 0
Enniatin A1	47%	14	575
Alternariol	44%	36	4 723
Fumonisin <mark>B</mark> 3	39%	97	39 738
Deoxynivalenol-3-Glucoside	31%	111	3 967
Enniatin A	30%	7	377
Aflatoxin B1	21%	12	2 945
Ochratoxin A	17%	6	579
15-Acetyl-Deoxynivalenol	16%	192	4 335
HT-2 Toxin	14%	84	3 081
Sterigmatocystin	12%	8	435
T-2 Toxin	10%	42	1255
Nivalenol	10%	198	5 319
Mycophenolic Acid	7%	286	26 974
Ergometrine	6%	34	521
Ergosine	6%	31	751
Beta-Zearalenol	5%	35	2834
Alpha-Zearalenol	4%	24	151

67	/01		355 153		77
am	ples	An	alysis poin	its	Countries
	Erge	ot alka	loids		
	Reg	ulated	d or guidelir	ne my	cotoxins
	Mas	sked a	nd modified	d myo	octoxins
	DON	l; show	<b>-DON:</b> fung on to be con cract of pigs	verte	d to DON in
	of D thar DON	ON (m n DON,	ucoside: pla asked DON) but it conve gastrointes	; less erted	toxic back to
			<b>B2 and G1:</b> A Aflatoxin B1		
	cyto	otoxic 1	Type B trich than DON in d ruminants	intes	tinal cells
	Zea	ralenc	one metabo	lites	

Emerging myotoxins	FINISH
<b>Emerging myotoxins:</b> frequently found on agricultural commodities,	Metabolit
not regulated; toxicity is under investigation, but toxic effects	Deoxyniv Fumonisi
suggested in some scientific literature; EFSA started to publish	Enniatin I
reports to do a risk assessment for these toxins.	Enniatin I
Moniliformin: broiler very susceptible,	Beauveri
genotoxic, immunosuppressive; causes heart damage, muscular	Fumonisi
weakness, respiratory distress	Zearalen
Alternariol: no acute toxicity, cytotoxic	Monilifor
and mutagenic <i>in vitro</i> , effects on reproductive & immune system <i>in vitro</i> .	Alternari
Beauvericin and Enniatins: effects	Enniatin
on immune system: accumulation in fat-rich tissue.	Fumonisi
Sterigmatocystin: precursor of	Enniatin Aflatoxin
aflatoxins; causes similar effects as aflatoxin B <sub>1</sub> in animals, but lower	Deoxyni
acute toxicity; negative effects incl. bloody diarrhea, less milk production,	Ochratox
less feed intake, hepatotoxicity,	15-Acety
nephrotoxicity	Serigma
<b>Mycophenolic acid:</b> shows a low acute toxicity in animals but may	HT-2 To
cause immunosuppression.	T-2 Tox
	Ergome
	Mycop
	beta-Z
	Nivaler
	Aflatox
	Aflatox

0%

Top25 metabolites are presented according to their prevalence. Cut off for all metabolites 1 ppb (except for aflatoxins 0.5 ppb). Average of positive samples and maximum levels found are reported in ppb.

Top25 metabolites are presented according to their prevalence. Cut off for all metabolites 1 ppb (except for aflatoxins 0.5 ppb). Average of positive samples and maximum levels found are reported in ppb.

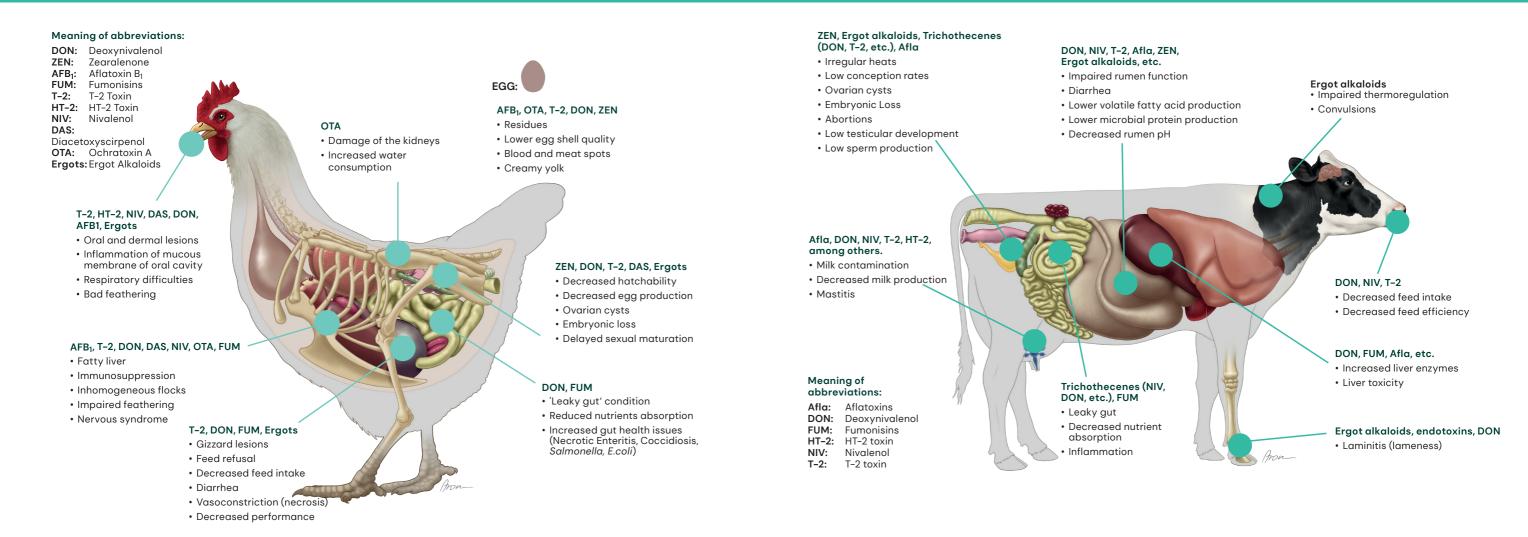
Positive Samples (%)

### FINISHED FEED (n=2 534)

81% 77% 76% 73% 72% 71% 69%	314 198 37 16 24 80 31 69	14 532     7 853     1 532     448     537     2 862     1728     1 348
77% 76% 73% 72% 71% 69%	37 16 24 80 31	1532 448 537 2862 1728
76% 73% 72% 71% 69%	16 24 80 31	448 537 2 862 1728
73% 72% 71% 69%	24 80 31	537 2 862 1728
72% 71% 69%	80 31	2 862 1 728
71% 69%	31	1728
69%		
	69	13/18
58%		1340
0070	25	1 161
54%	9	274
47%	56	1204
35%	5	61
31%	7	150
30%	75	2 363
25%	4	579
12%	126	2 061
11%	6	77
8%	56	973
8%	37	892
8%	33	144
7%	119	9 083
6%	24	220
6%	122	2 436
5%	20	234
5%	4	16
	47% 35% 31% 30% 25% 12% 12% 11% 8% 8% 8% 8% 8% 6% 6% 6% 5%	54%   9     47%   56     35%   5     31%   7     30%   75     25%   4     12%   126     11%   6     8%   56     8%   33     7%   119     6%   24     6%   122     5%   20     5%   4

Positive Samples (%)

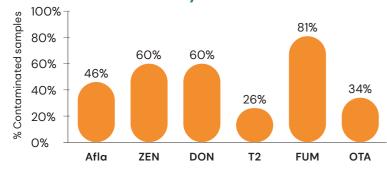
## The Global Threat -January to December 2024



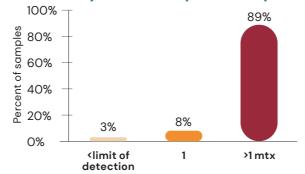
### Summary for Finished Feed Poultry in World from Jan 2024 to Dec 2024

Total samples: 2 841	Afla	ZEN	DON	T-2	FUM	ΟΤΑ
Number of samples	2 834	2 821	2 841	2 777	2 776	2 477
% Contaminated samples	46%	60%	60%	26%	81%	34%
Average of positive (ppb)	22	52	821	25	833	8
Median of positive (ppb)	8	21	208	21	410	4
Maximum (ppb)	1160	1800	476 954	186	11 919	579

### Prevalence of Mycotoxin Detected



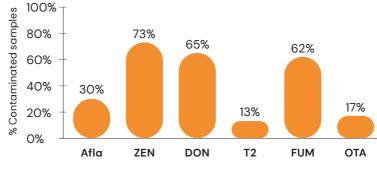
### No. of Mycotoxins per sample



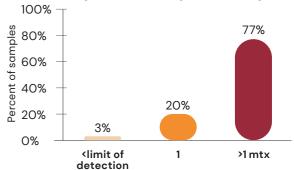
### Summary for Finished Feed Ruminants in World from Jan 2024 to Dec 2024

	Afla	ZEN	DON	T-2	FUM	ΟΤΑ
Number of samples	1 5 9 3	1623	1605	1 4 5 8	1 471	1 168
% Contaminated samples	30%	73%	65%	13%	62%	17%
Average of positive (ppb)	33	94	825	43	985	13
Median of positive (ppb)	10	41	470	21	307	5
Maximum (ppb)	461	4 619	16 061	914	31 722	198

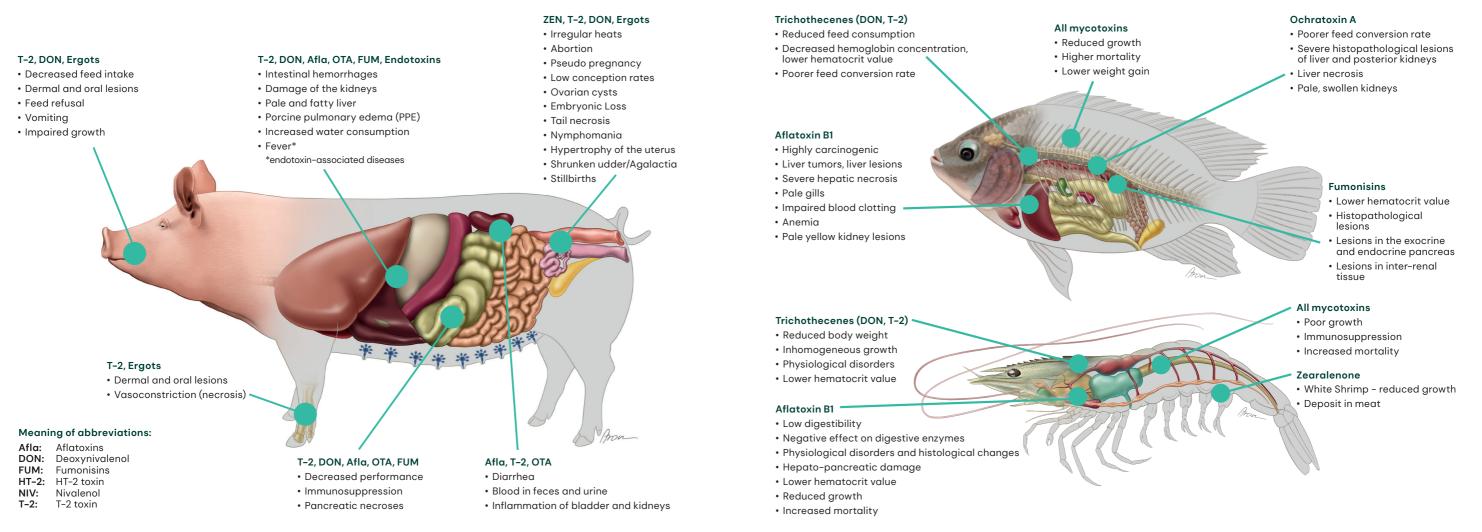
### Prevalence of Mycotoxin Detected



### No. of Mycotoxins per sample



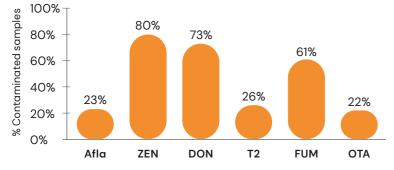
## The Global Threat -January to December 2024



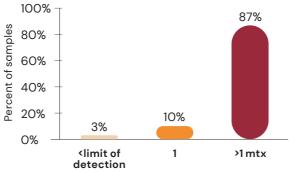
### Summary for Finished Feed Swine in World from Jan 2024 to Dec 2024

	Afla	ZEN	DON	T-2	FUM	ΟΤΑ
Number of samples	1656	1904	1902	1 512	1 530	1362
% Contaminated samples	23%	80%	73%	26%	61%	22%
Average of positive (ppb)	7	33	466	15	442	5
Median of positive (ppb)	5	20	160	9	145	2
Maximum (ppb)	270	580	155 878	892	7 842	173

### Prevalence of Mycotoxin Detected



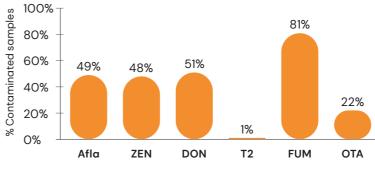
### No. of Mycotoxins per sample



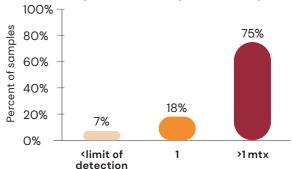
### Summary for Finished Feed Agua in World from Jan 2024 to Dec 2024

-						
	Afla	ZEN	DON	T-2	FUM	ΟΤΑ
Number of samples	166	166	166	166	166	166
% Contaminated samples	49%	48%	51%	1%	81%	22%
Average of positive (ppb)	9	28	170	26	167	2
Median of positive (ppb)	2	10	101	26	121	2
Maximum (ppb)	105	329	733	26	1 193	6

### Prevalence of Mycotoxin Detected



### No. of Mycotoxins per sample



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