



Sectoraal BMP 2023

WG Voedselveiligheid & Kwaliteit

11/6/2024

7.363.427 ton
mengvoeder

Mycotoxines

What goes in...
70% analyses op
grondstoffen

Pesticiden

3 NC

2149
monsters

Dioxines en PCB's

Salmonella

99%
uitgevoerd

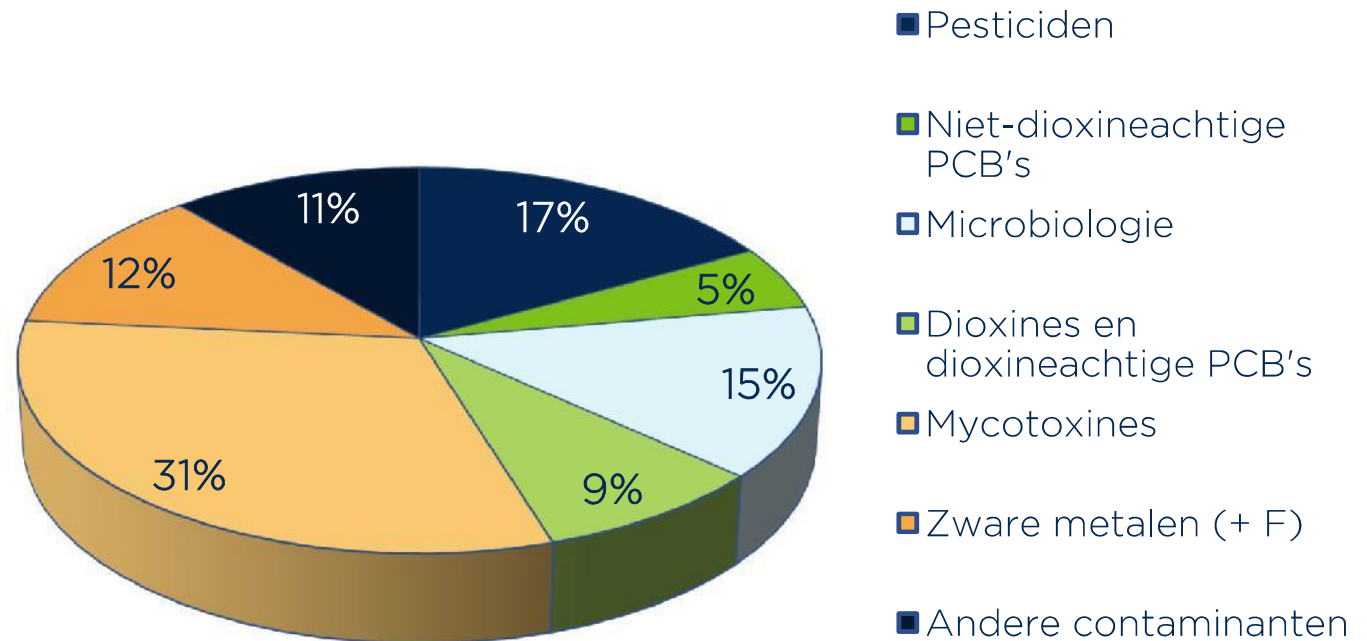
206
vestigingen

8.381.853 ton
grondstoffen

PFAS

Verdeling analyses

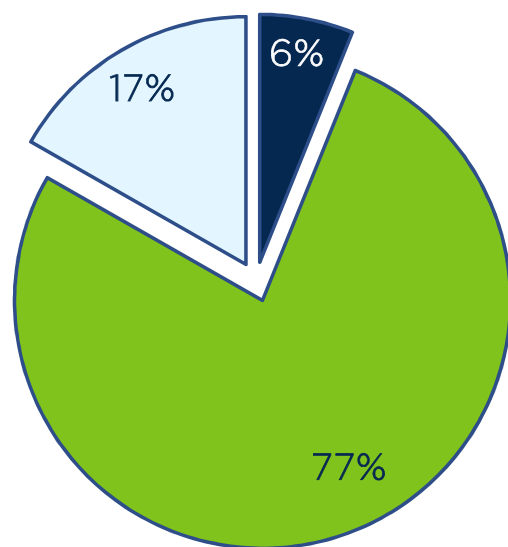
Per contaminant



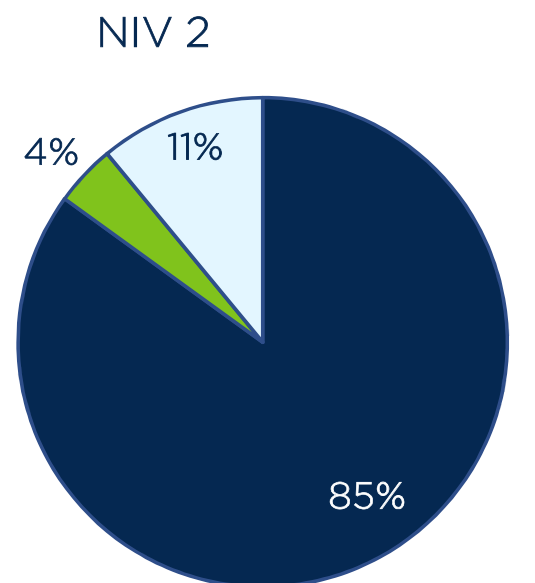
Andere contaminanten: melamine, GGO, blauwzuur, theobromine, antibiotica, chloramphenicol, ambrosia, moederkoren

Verdeling analyses

Per niveau



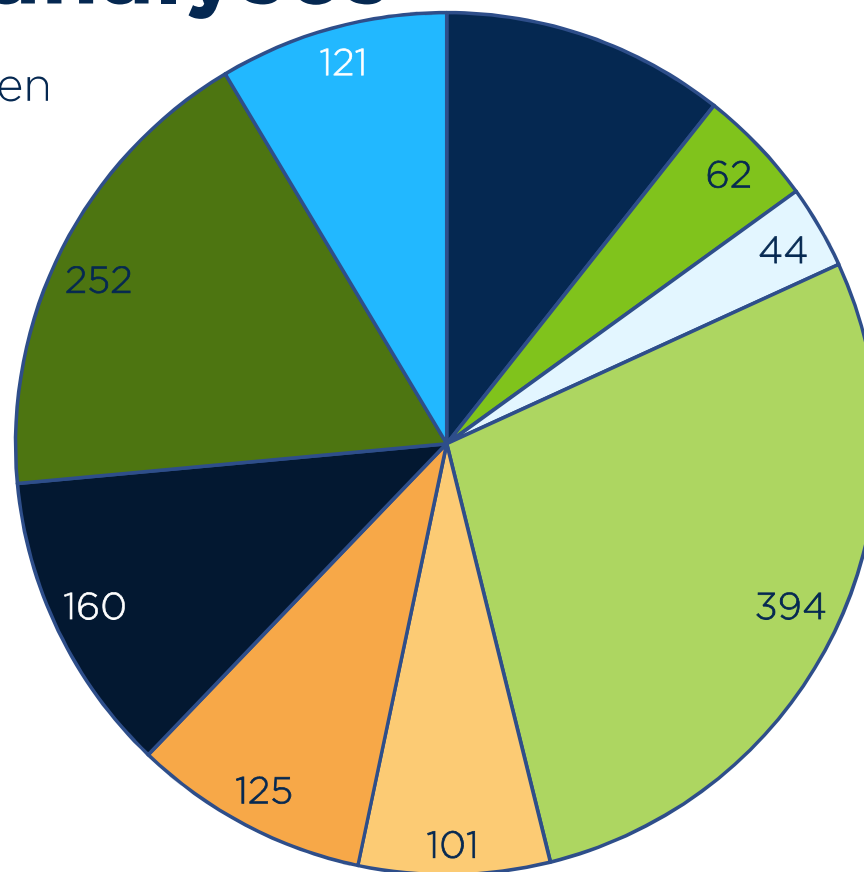
■ NIV 1 ■ NIV 2 ■ NIV 3



■ Voederm.
■ Voorm. / aanv. voeders
■ TVM

Verdeling analyses

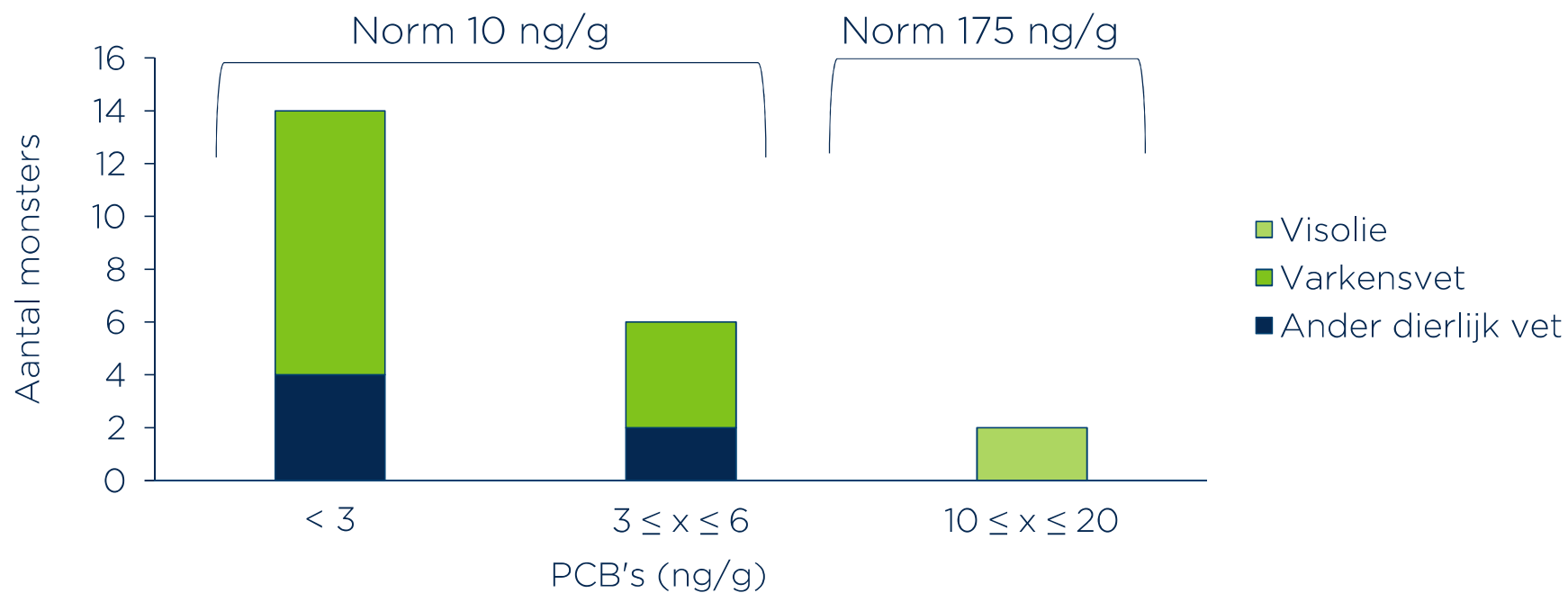
NIV 2 – Voedermiddelen



- BP olieholdende zaden
- DBP
- Gedroogde voedergewassen
- Granen
- Macromineralen
- Oliehoudende zaden
- Oliën & vetten
- BP granen
- Andere voederm.

Niet-dioxineachtige PCB's

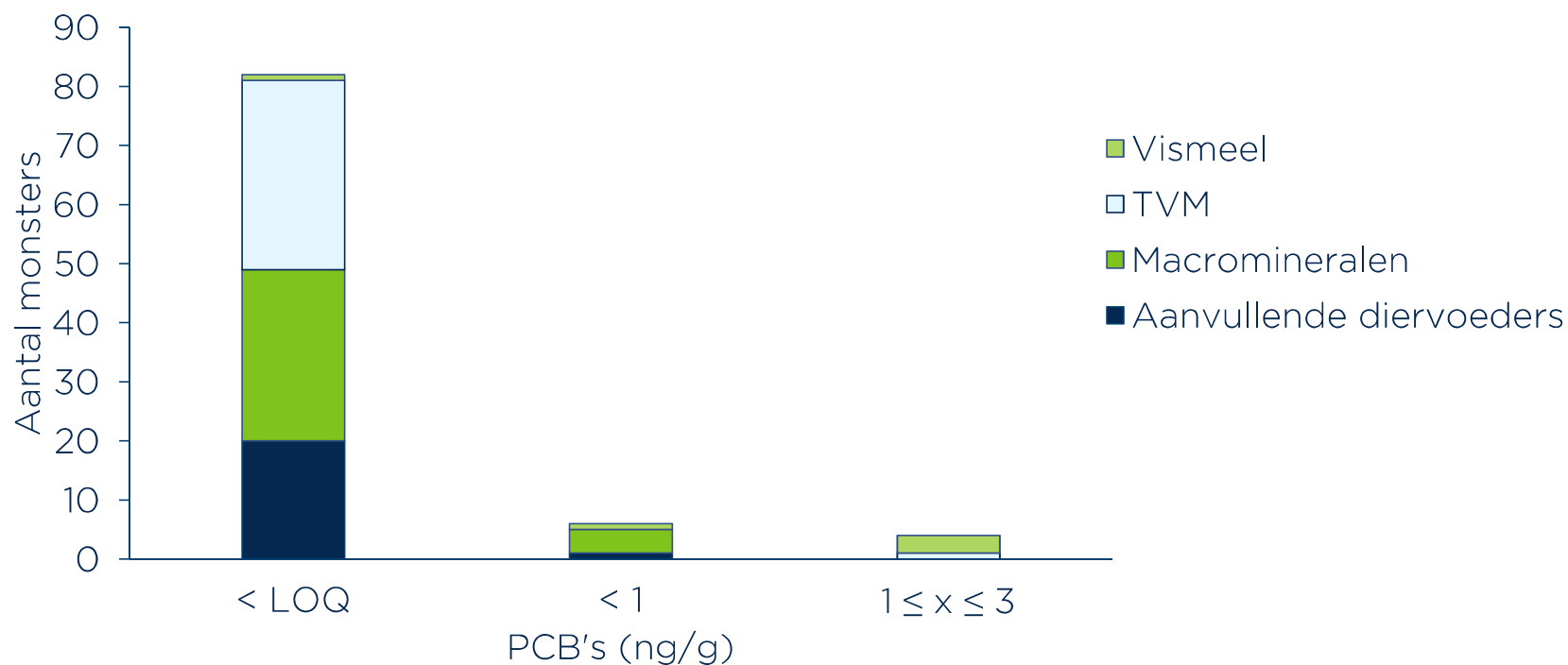
Dierlijke vetten + visolie



Niet-dioxineachtige PCB's: PCB 28, PCB52, PCB101, PCB138, PCB153, PCB180
Ander dierlijk vet: kippen-, meng- of rundsvet

Niet-dioxineachtige PCB's

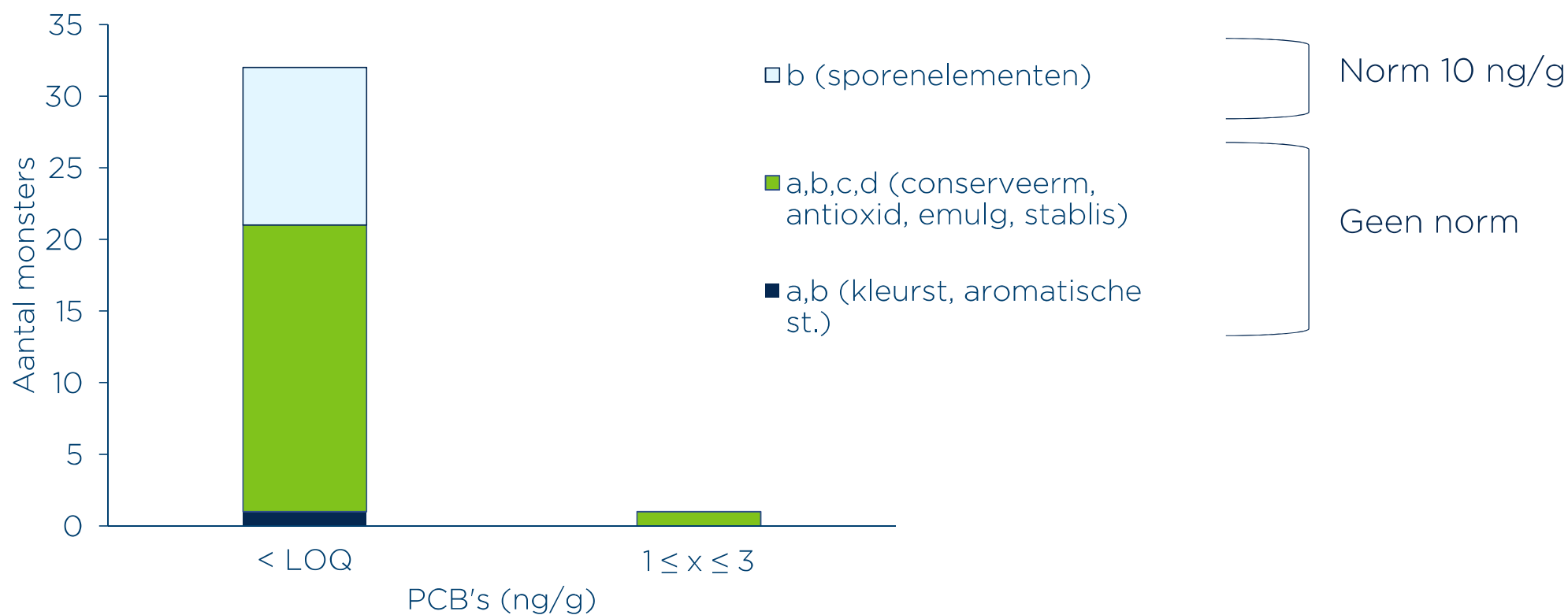
Andere matrices



Niet-dioxineachtige PCB's: PCB 28, PCB52, PCB101, PCB138, PCB153, PCB180 (LOQ = 0,5 ppb)

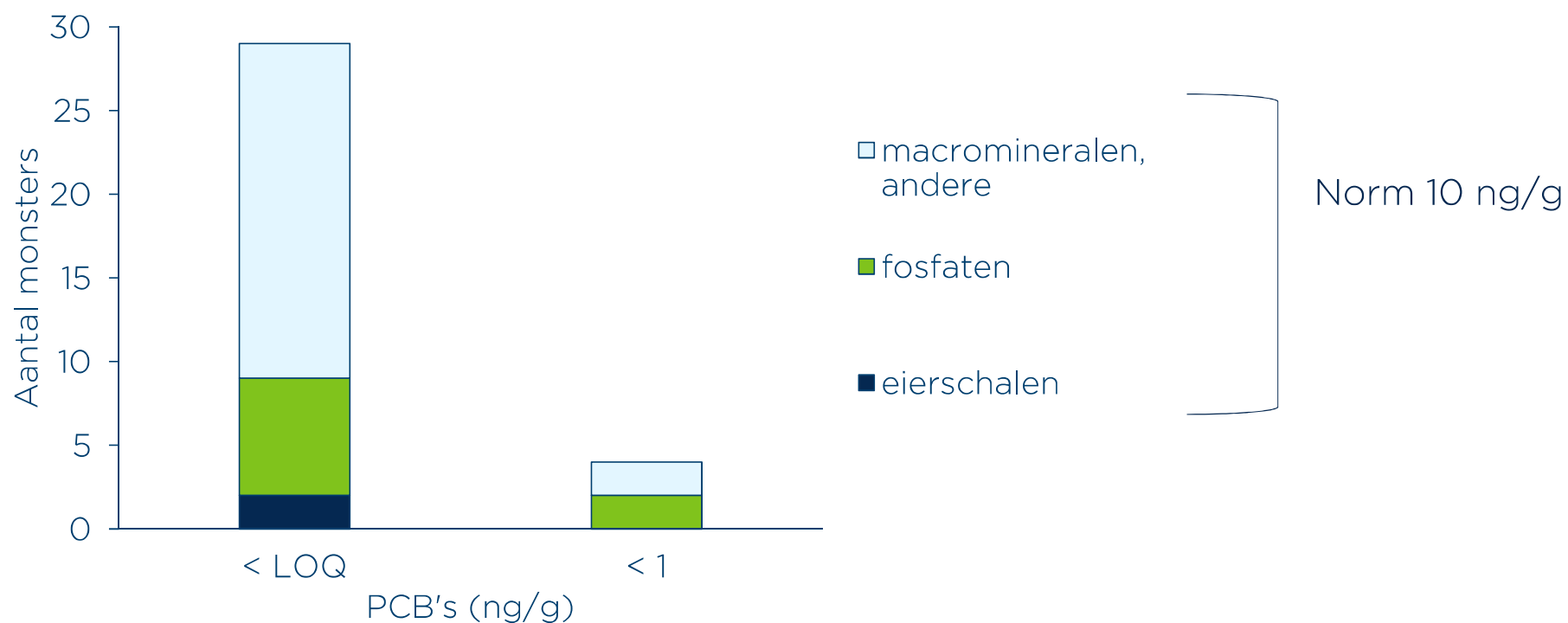
Niet-dioxineachtige PCB's

Toevoegingsmiddelen



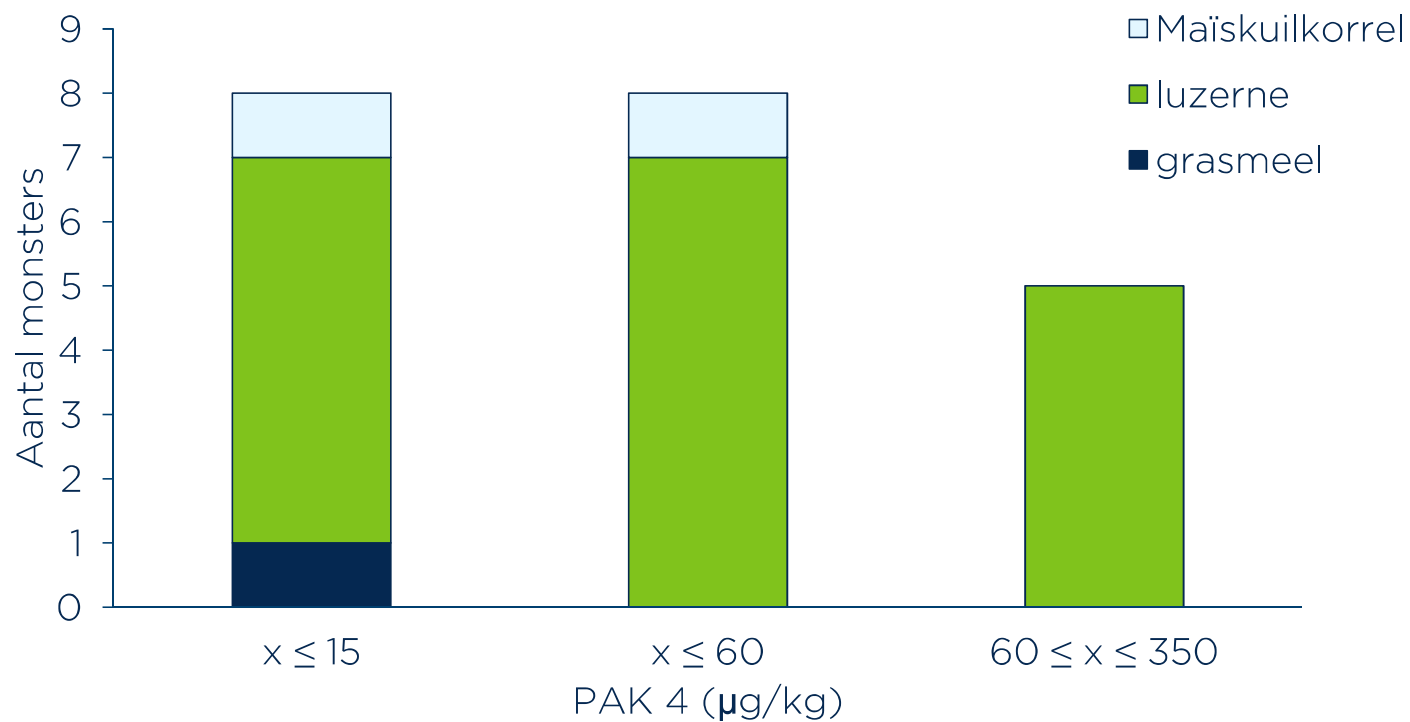
Niet-dioxineachtige PCB's

Toevoegingsmiddelen



PAK's

Droge voedergewassen

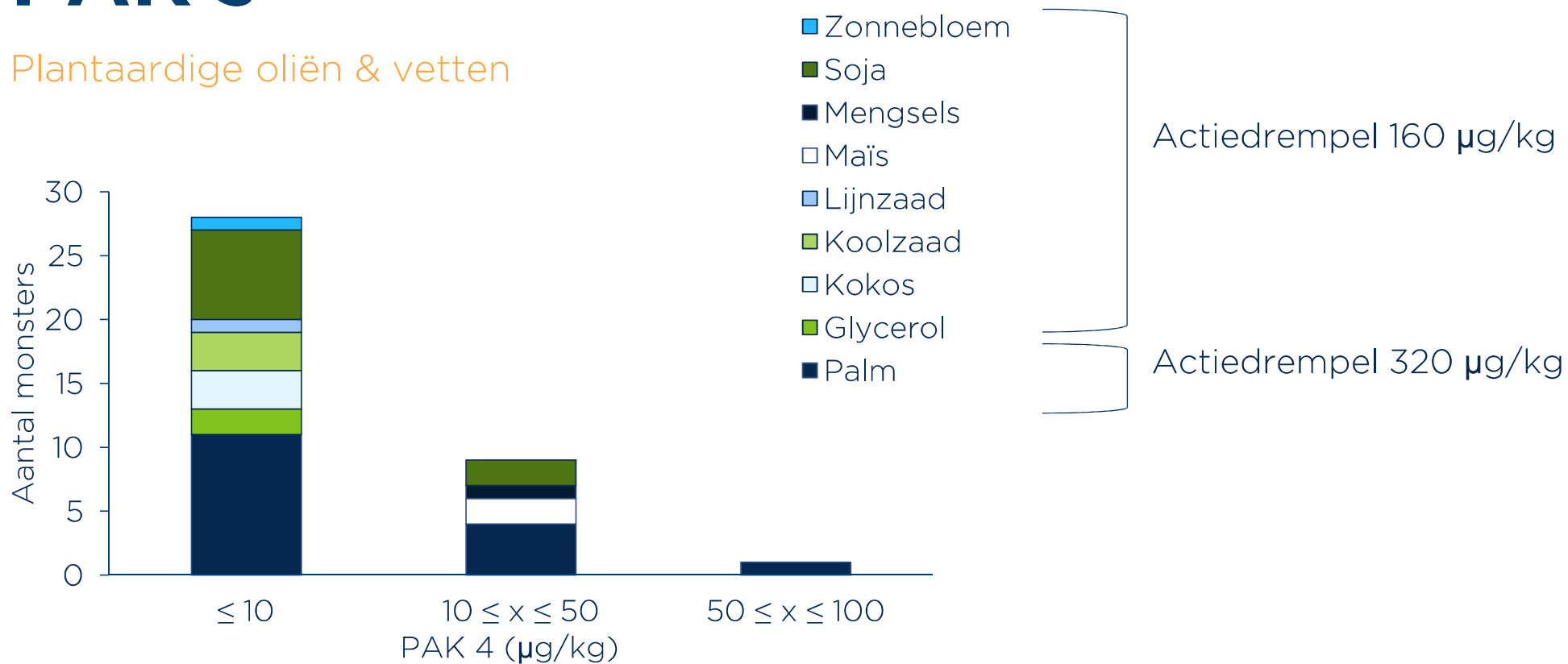


PAK 4 = benzo(b)fluorantheen, benzo(a)pyreen, benzo(a)anthraceen, chryseen

LOQ = 0,2 µg/kg

PAK's

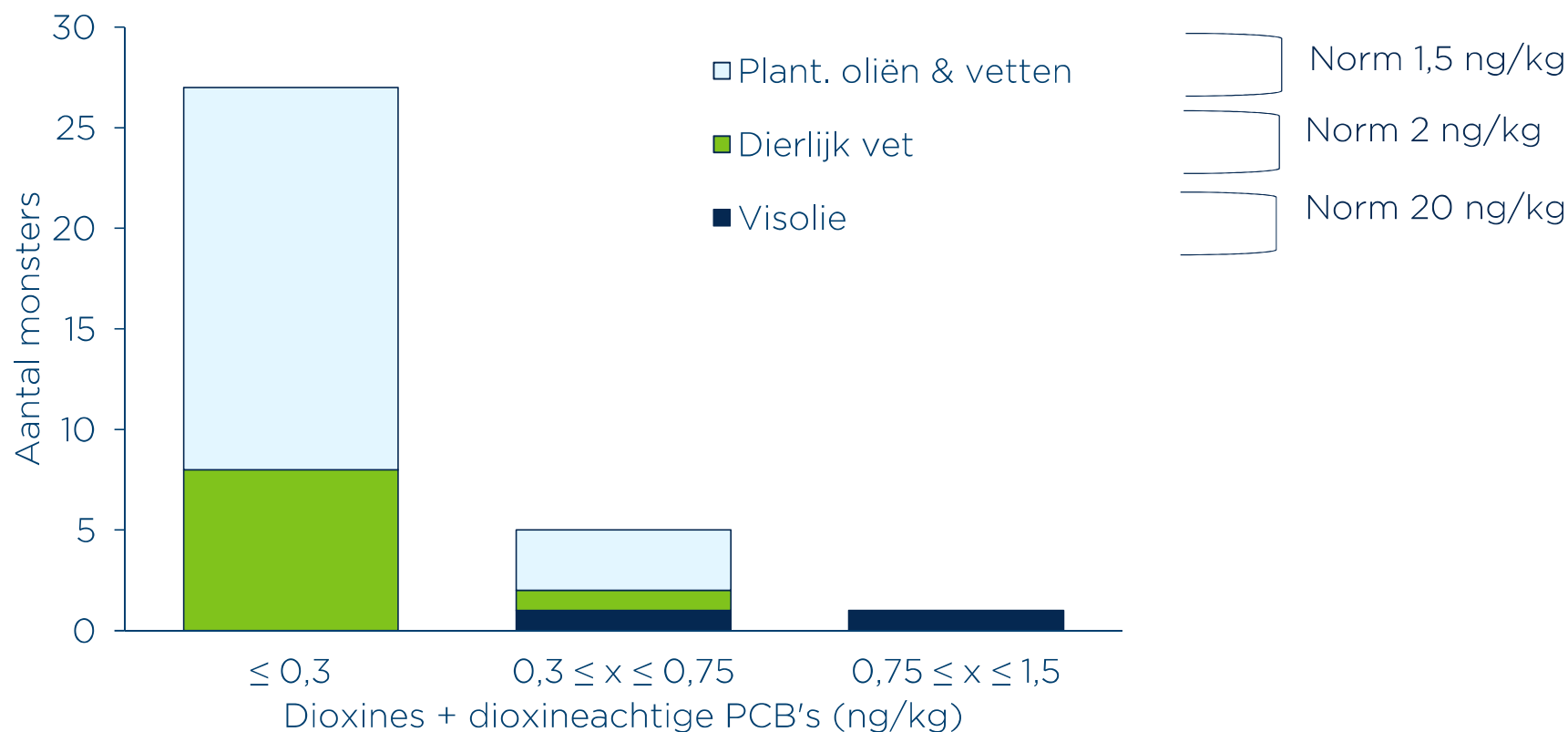
Plantaardige oliën & vetten



PAK 4 = benzo(b)fluorantheen, benzo(a)pyreen, benzo(a)anthraceen, chryseen
LOQ = 0,2 µg/kg

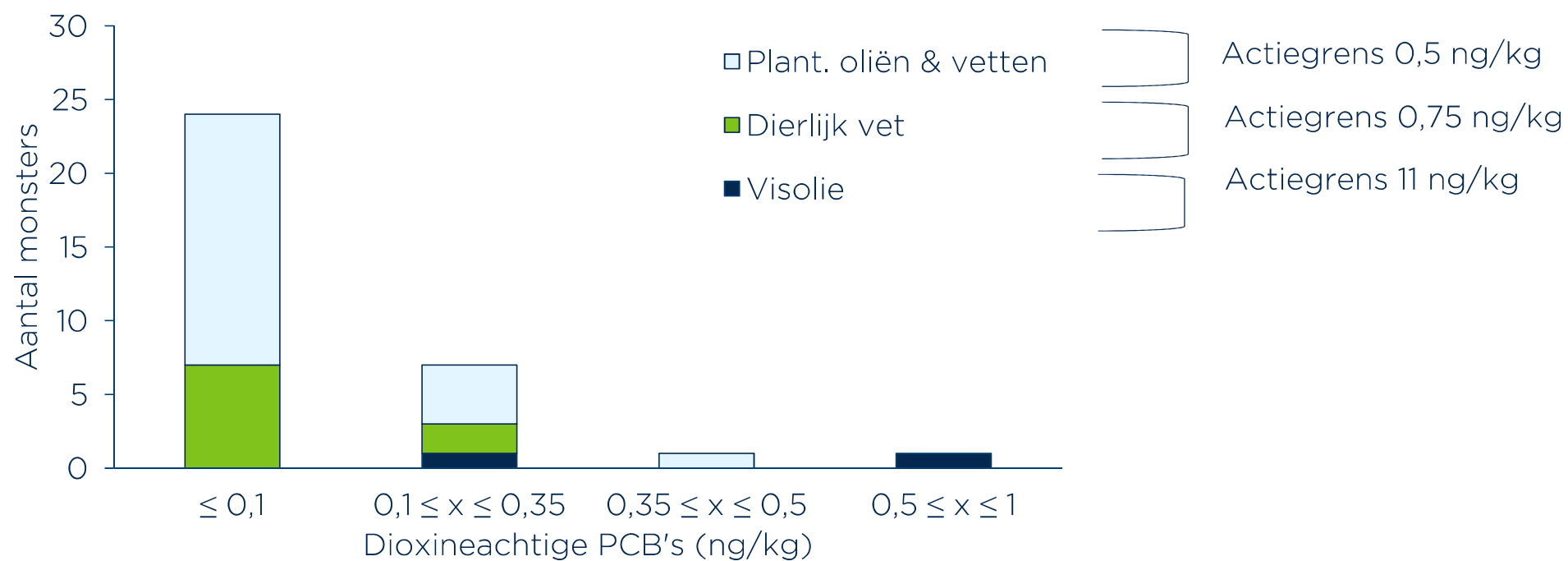
Dioxines & dioxineachtige PCB's

Oliën en vetten



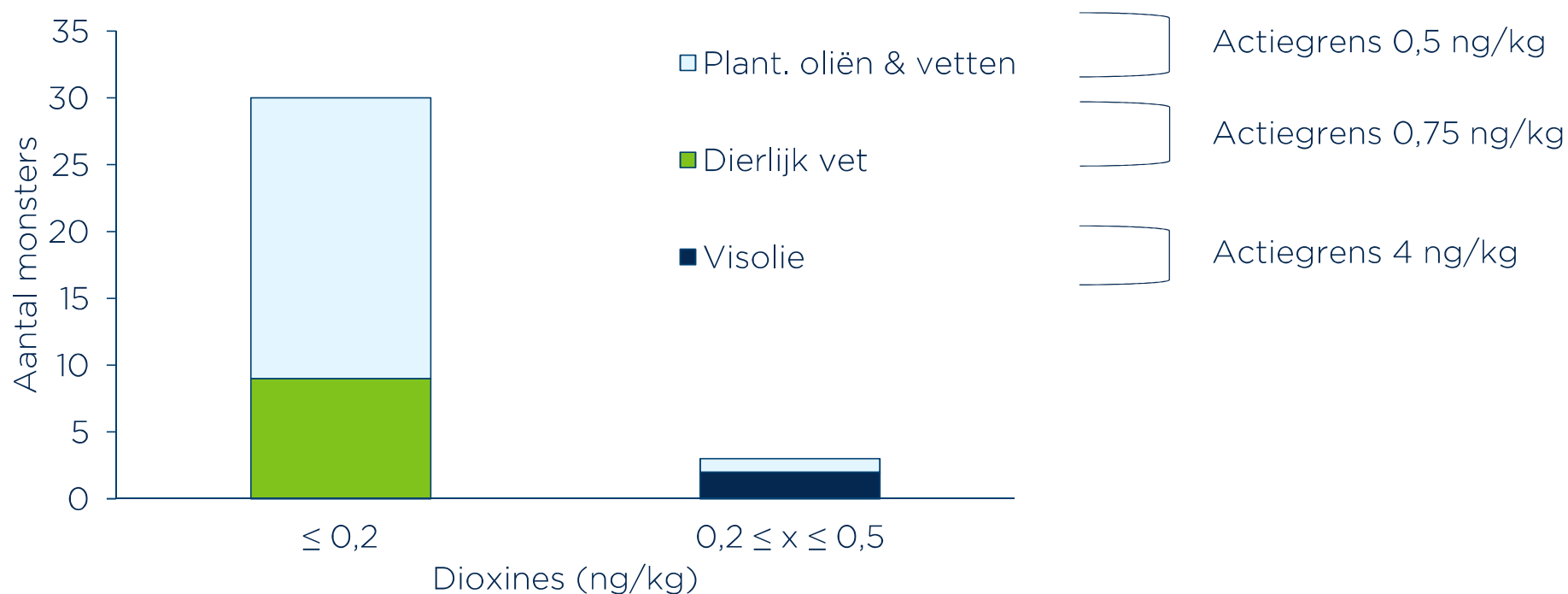
Dioxines & dioxineachtige PCB's

Oliën en vetten



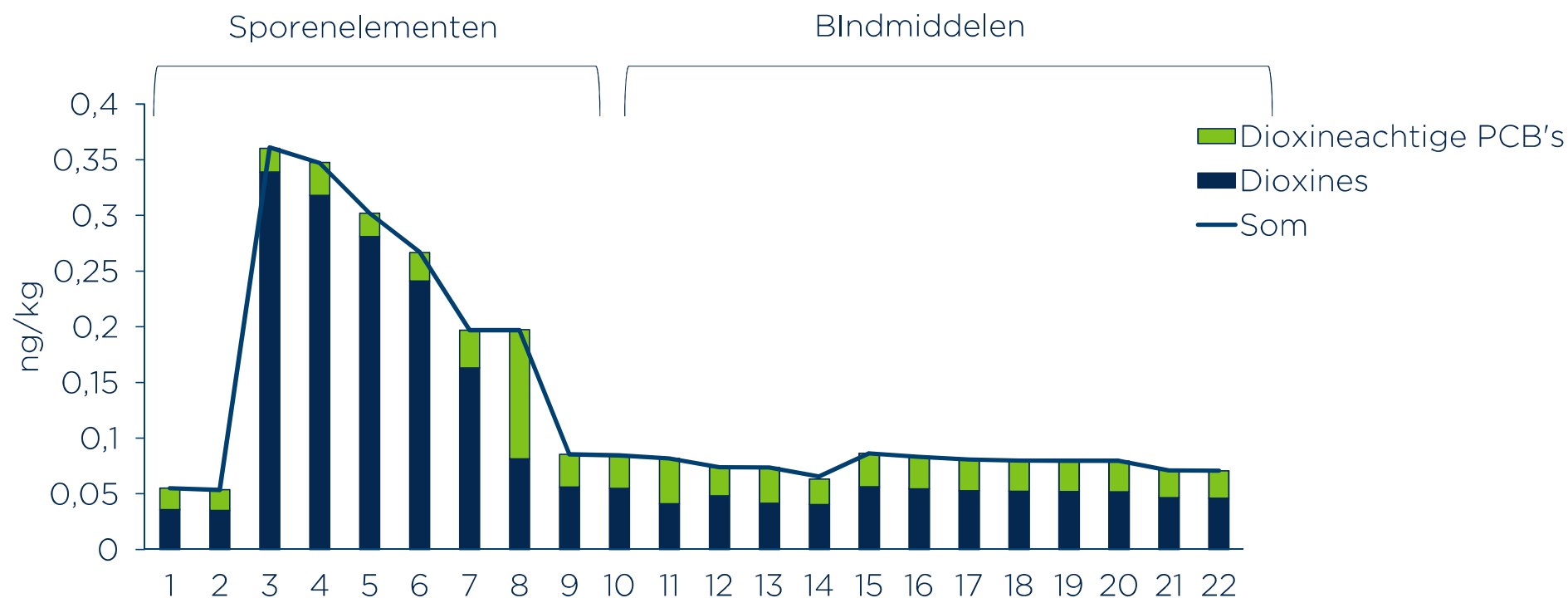
Dioxines & dioxineachtige PCB's

Oliën en vetten



Dioxines & dioxineachtige PCB's

Toevoegingsmiddelen



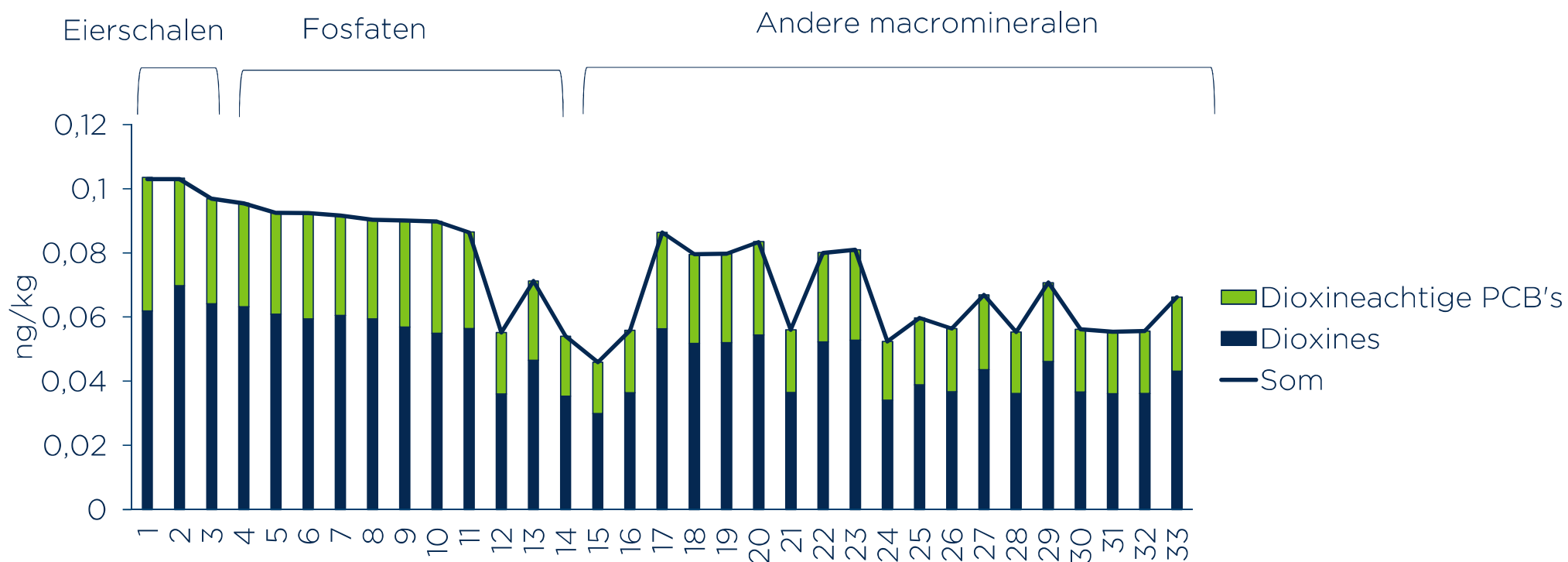
Actiegrens dioxines: 0,5 ng/kg (sporenelementen / bindmiddelen)

Actiegrens dioxineachtige PCB's: 0,35 ng/kg (sporenelementen), 0,5 ng/kg (bindmiddelen)

Norm som dioxines en dioxineachtige PCB's: 1,5 ng/kg (sporenelementen / bindmiddelen)

Dioxines & dioxineachtige PCB's

Macromineralen



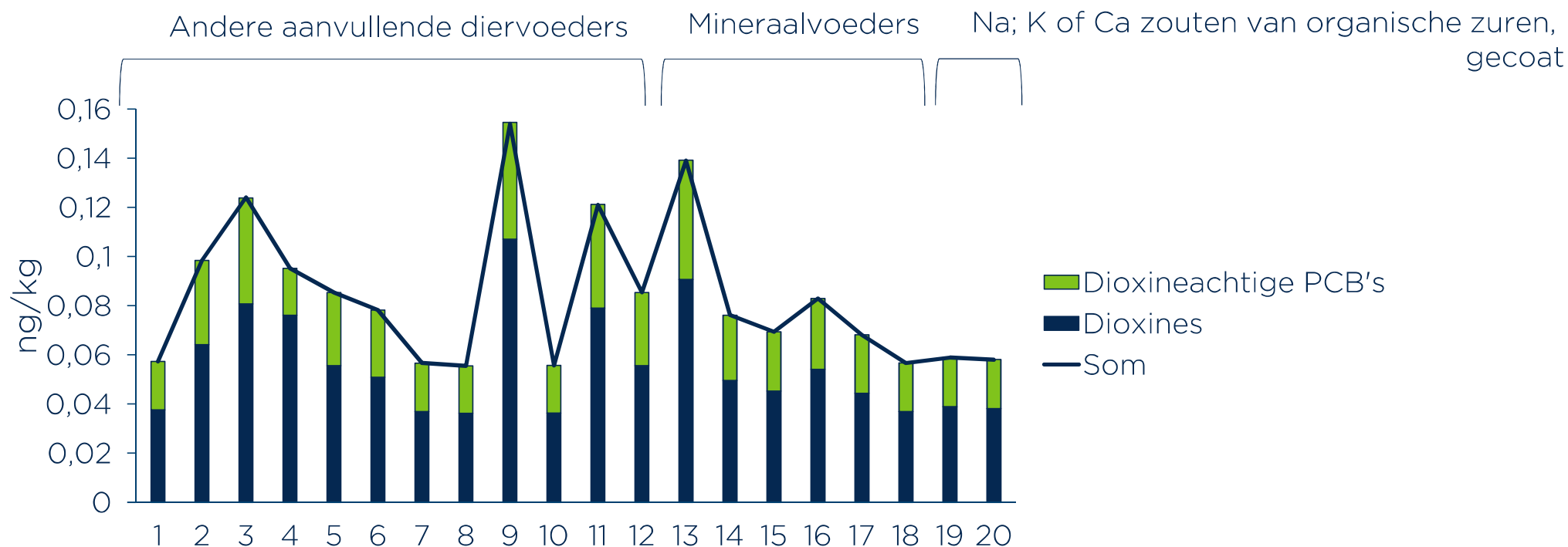
Actiegrens dioxines: 0,5 ng/kg

Actiegrens dioxineachtige PCB's: 0,35 ng/kg

Norm som dioxines en dioxineachtige PCB's: 1,25 ng/kg eierschalen, 1 ng/kg (fosfaten, andere macromineralen)

Dioxines & dioxineachtige PCB's

Aanvullende diervoeders



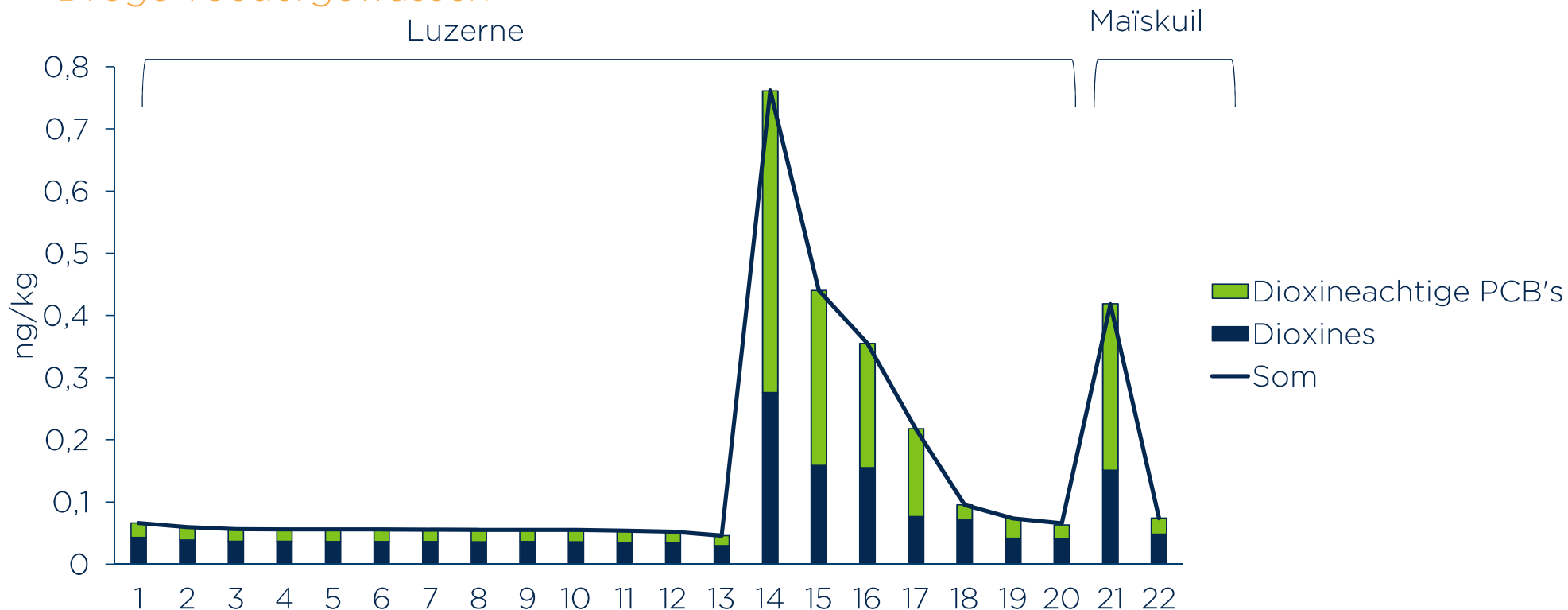
Actiegrens dioxines: 1,25 ng/kg

Actiegrens dioxineachtige PCB's: 0,5 ng/kg

Norm som dioxines en dioxineachtige PCB's: 1,5 ng/kg

Dioxines & dioxineachtige PCB's

Droge voedergewassen



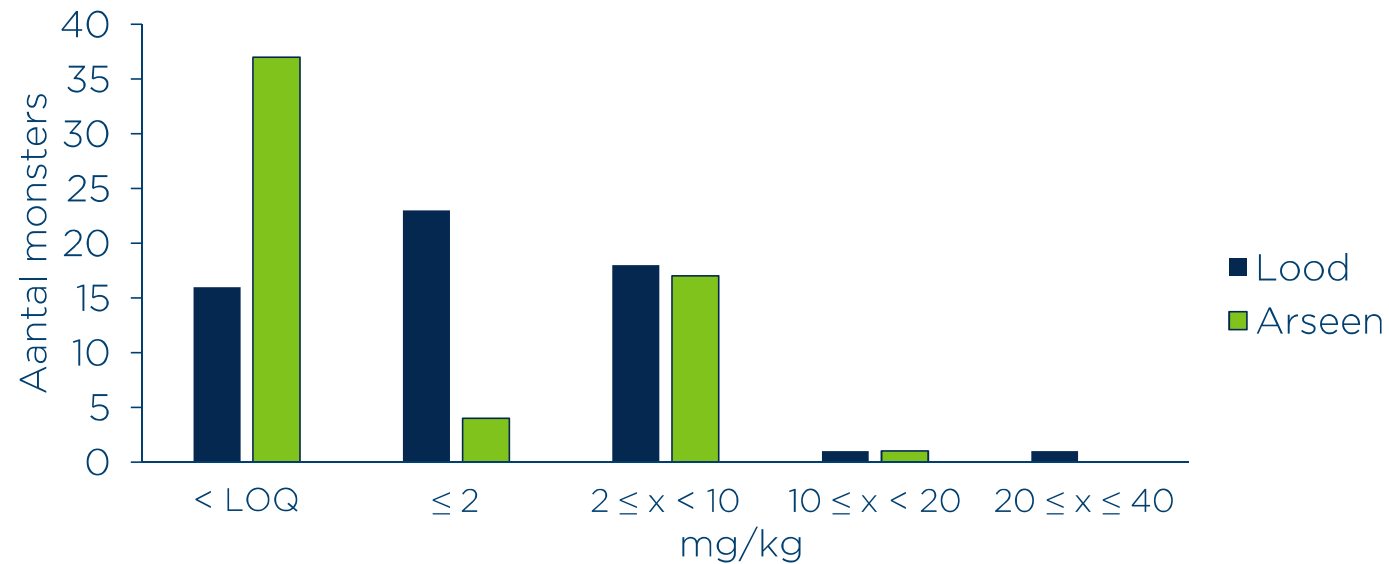
Actiegrens dioxines: 0,5 ng/kg

Actiegrens dioxineachtige PCB's: 0,35 ng/kg

Norm som dioxines en dioxineachtige PCB's: 1,25 ng/kg

Zware metalen

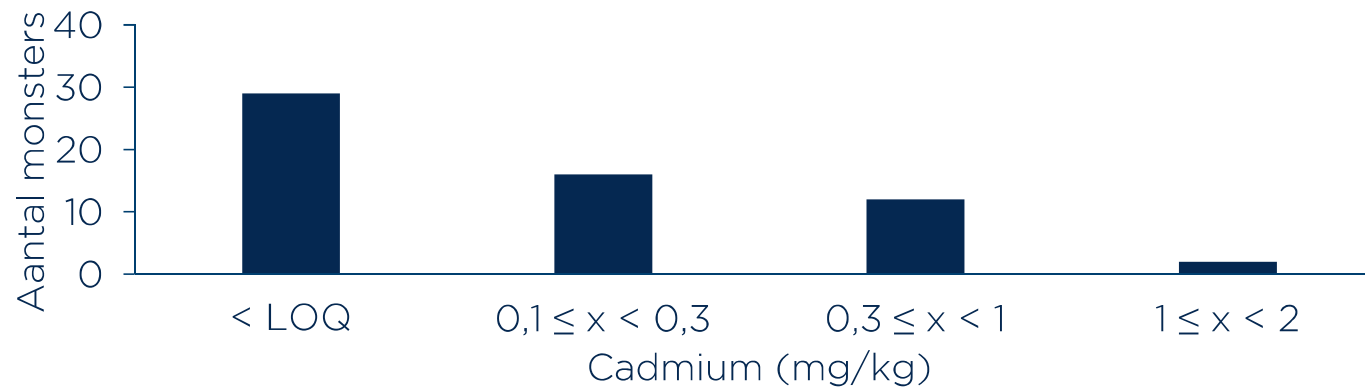
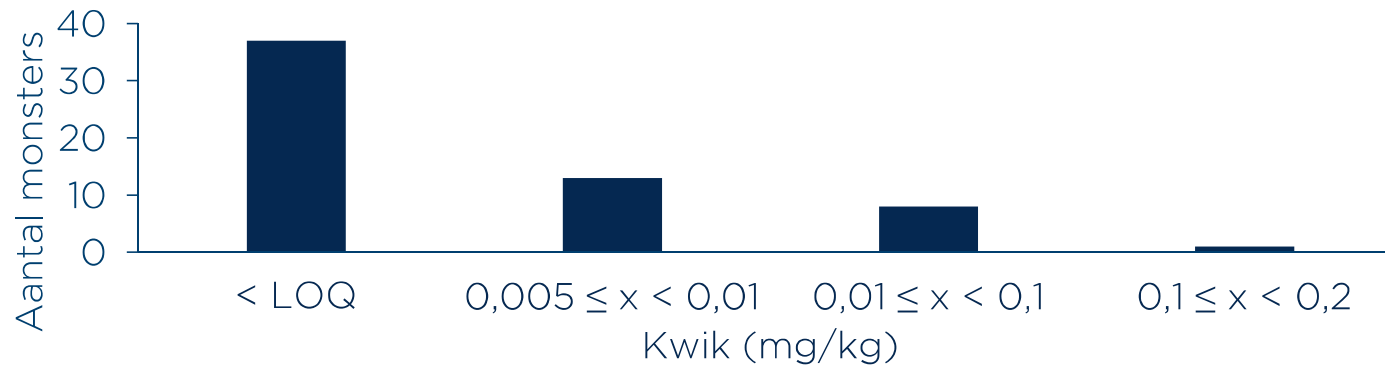
Voormengsels – Niveau 1



*LOQ lood = 0,40 mg/kg, LOQ arseen = 1 mg/kg
Norm lood: 200 mg/kg; norm arseen = 20 mg/kg*

Zware metalen

Voormengsels – Niveau 1

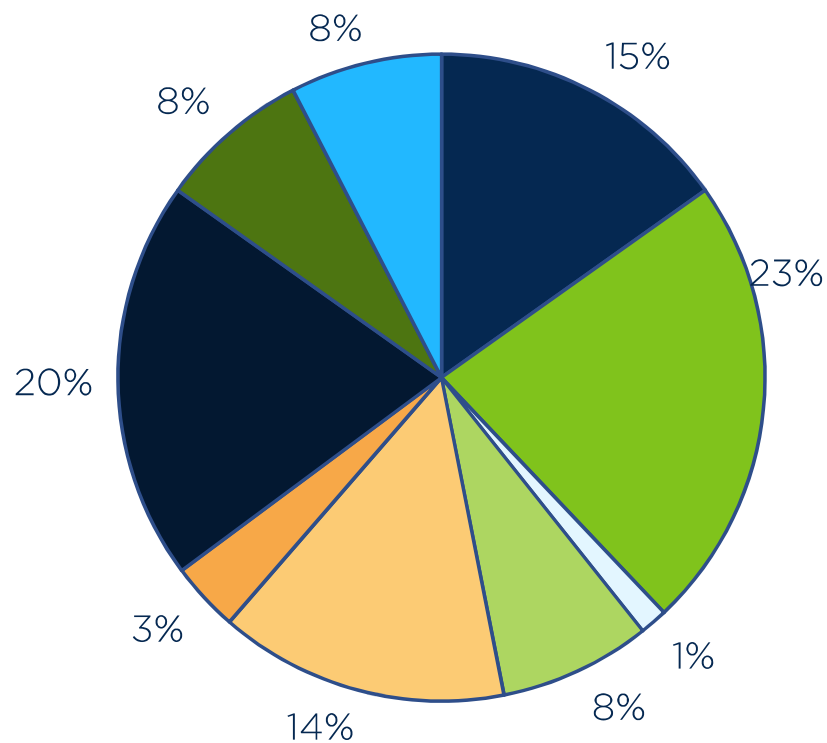


*LOQ kwik = 0,005 mg/kg
LOQ cadmium = 0,1 mg/kg*

*Norm kwik = 0,2 mg/kg
Norm cadmium = 15 mg/kg*

Zware metalen

Niveau 2



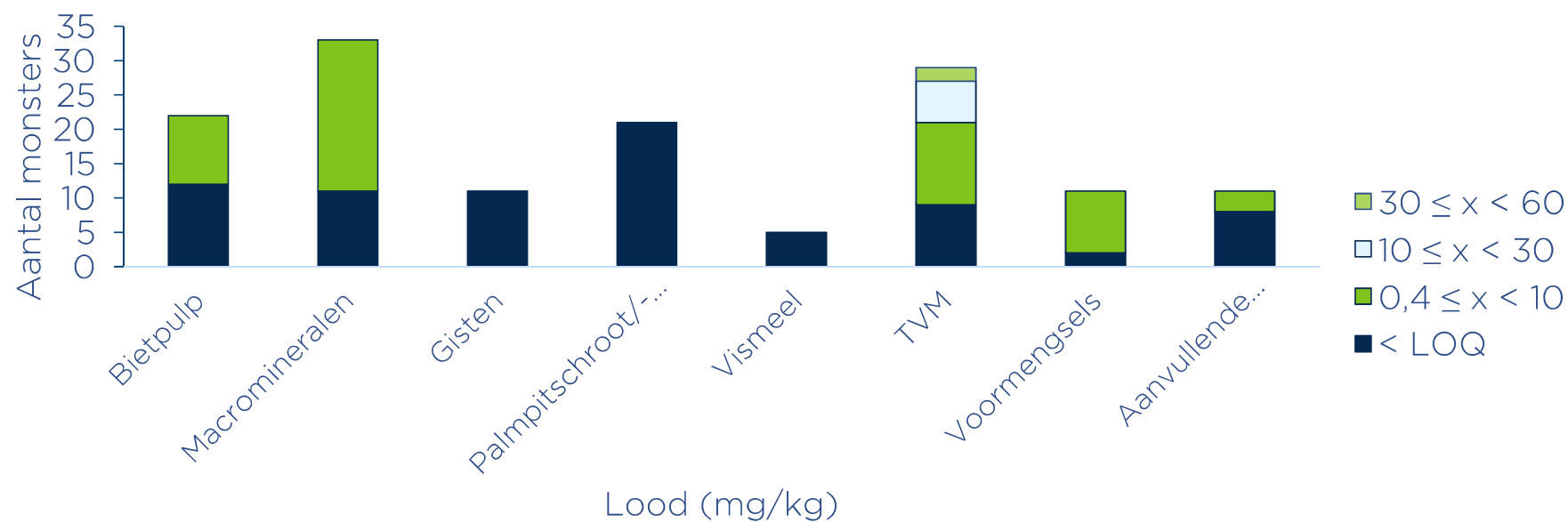
- Bietpulp
- Macromineralen
- Andere voedermiddelen
- Gisten
- Palmpitschroot / -schilfer
- Vismeel
- TVM
- Voormengsels
- Aanvullende diervoeders

Incl. fluor

Zware metalen

Niveau 2

Lood

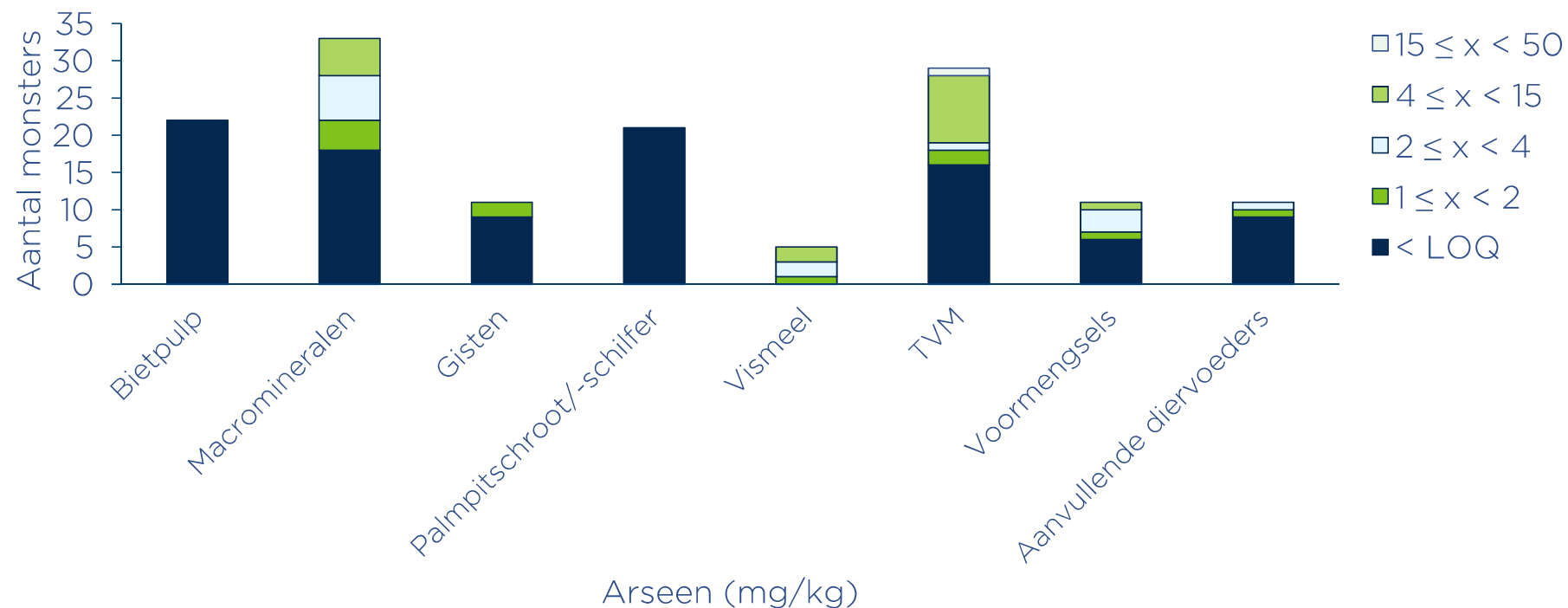


LOQ lood= 0,40 mg/kg
Norm: AT-03, p 47

Zware metalen

Niveau 2

Arseen

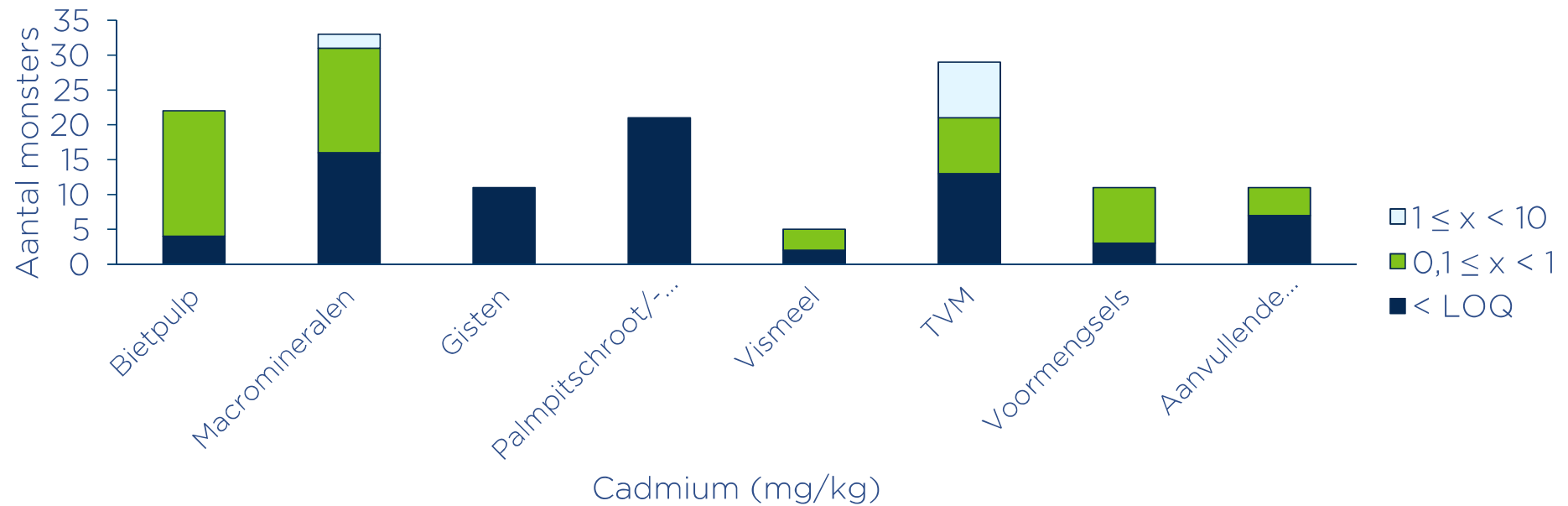


LOQ arseen = 1 mg/kg
Norm arseen: AT-03, p 39

Zware metalen

Niveau 2

Cadmium



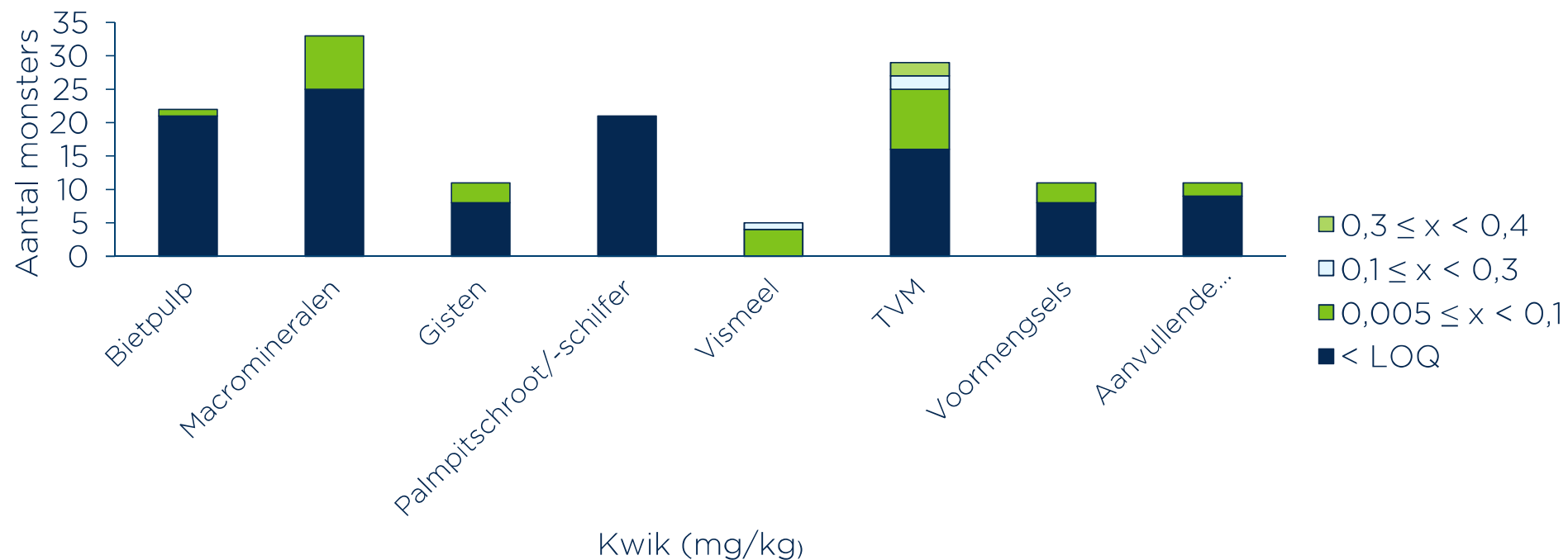
LOQ cadmium = 0,1 mg/kg

Norm cadmium: AT-03, p 42

Zware metalen

Niveau 2

Kwik

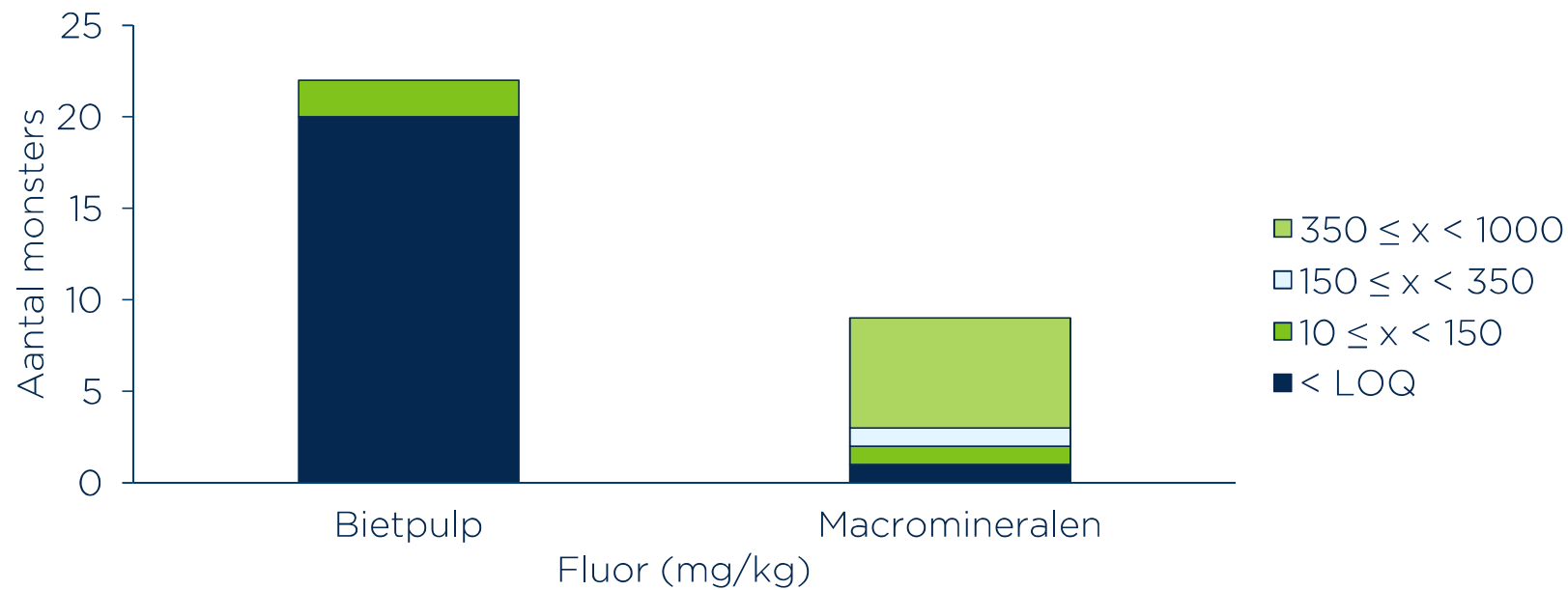


LOQ kwik = 0,005 mg/kg
Norm kwik: AT-03, p 45

Zware metalen

Niveau 2

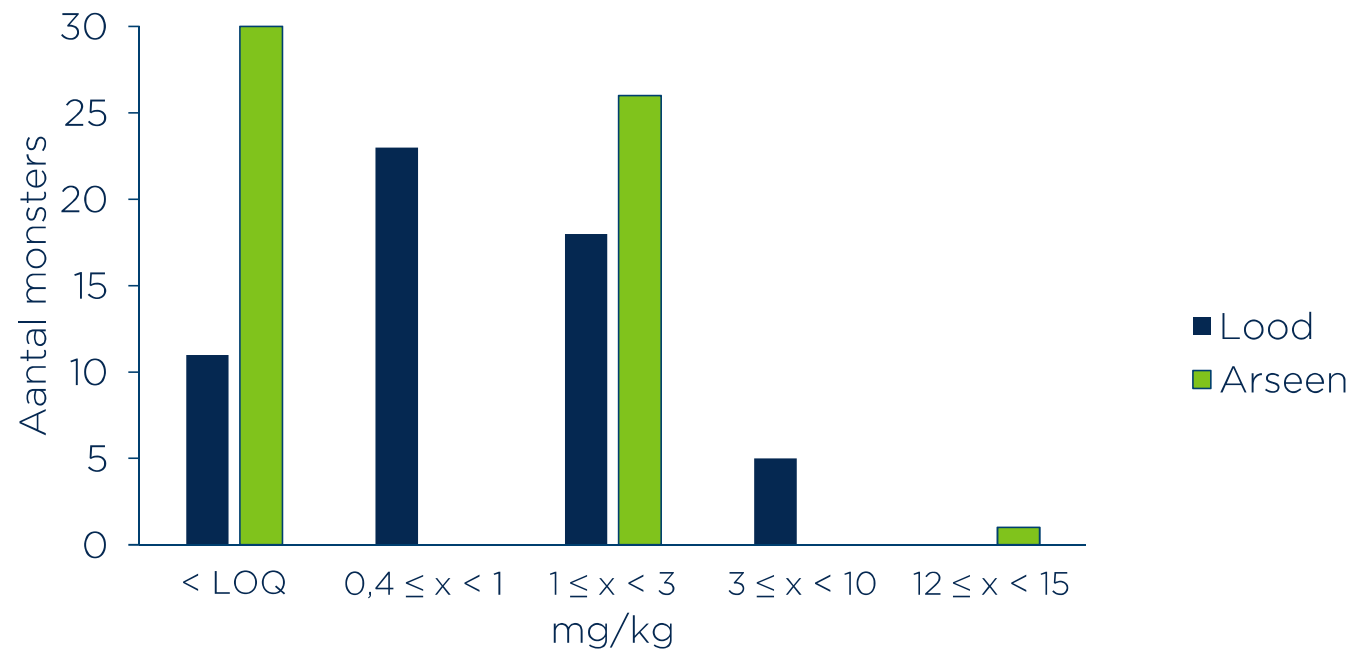
Fluor



LOQ fluor = 10 mg/kg
Norm fluor: AT-03, p 44

Zware metalen

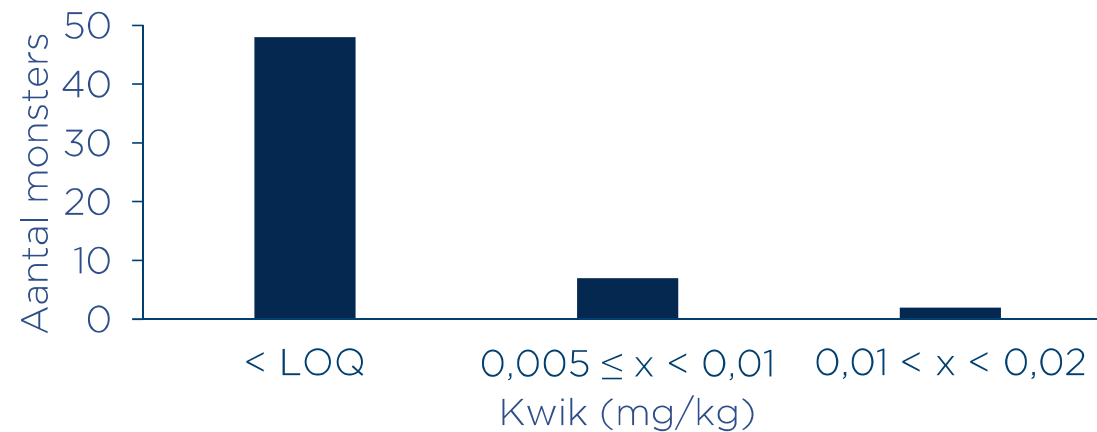
Mineraalvoeders - Niveau 3



LOQ lood = 0,40 mg/kg, LOQ arseen = 1 mg/kg
Norm lood: 15 mg/kg; norm arseen = 12 mg/kg

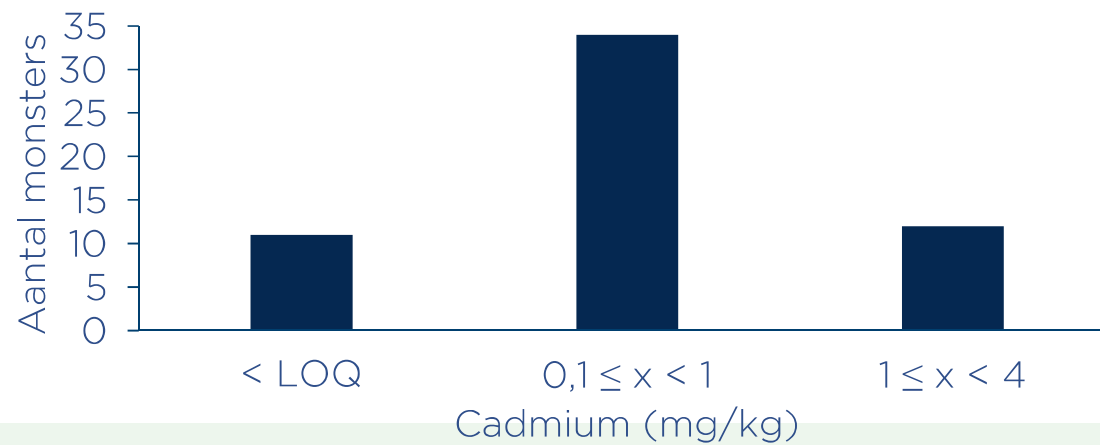
Zware metalen

Mineraalvoeders - Niveau 3



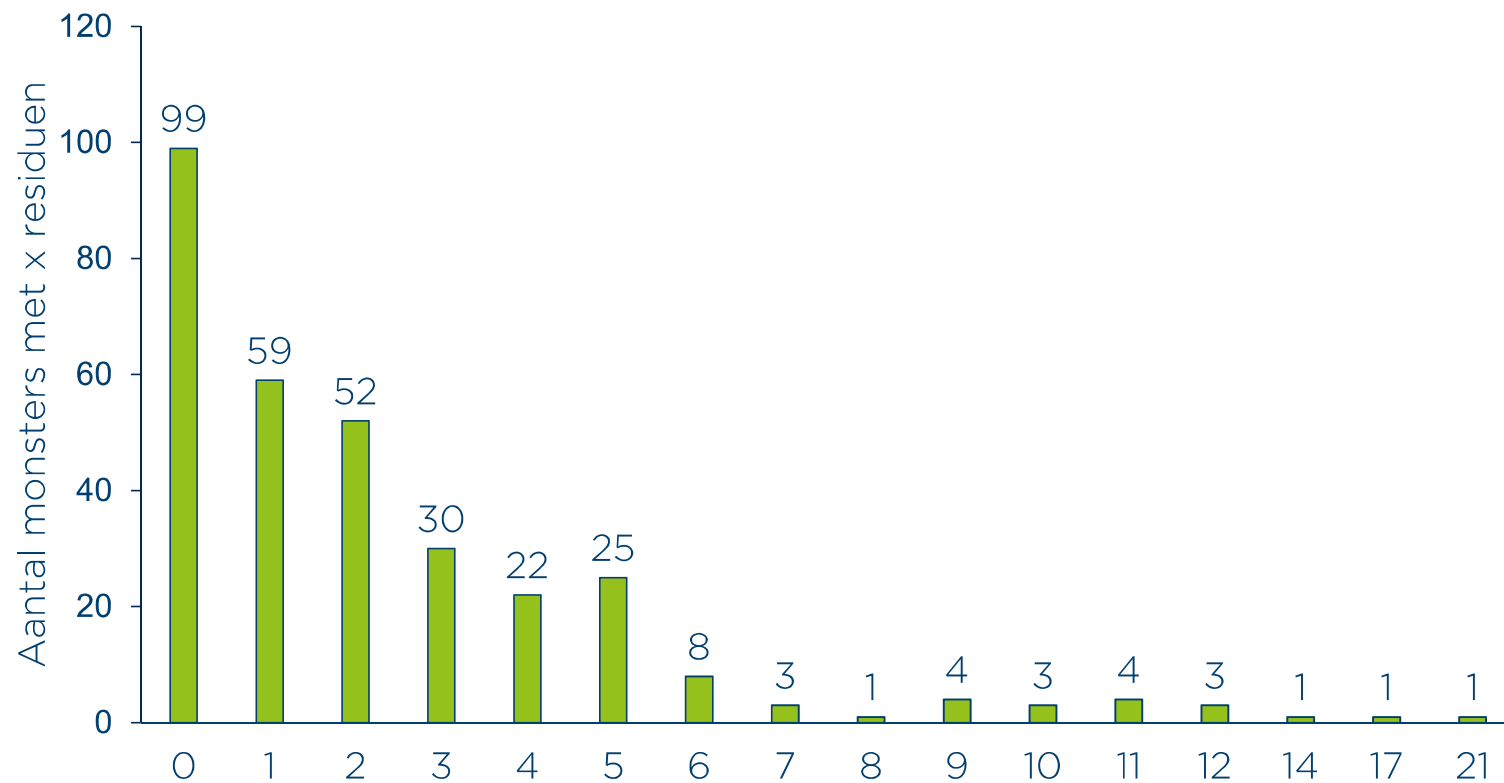
LOQ kwik = 0,005 mg/kg
LOQ cadmium = 0,1 mg/kg

Norm kwik = 0,2 mg/kg
Norm cadmium = 5 mg/kg

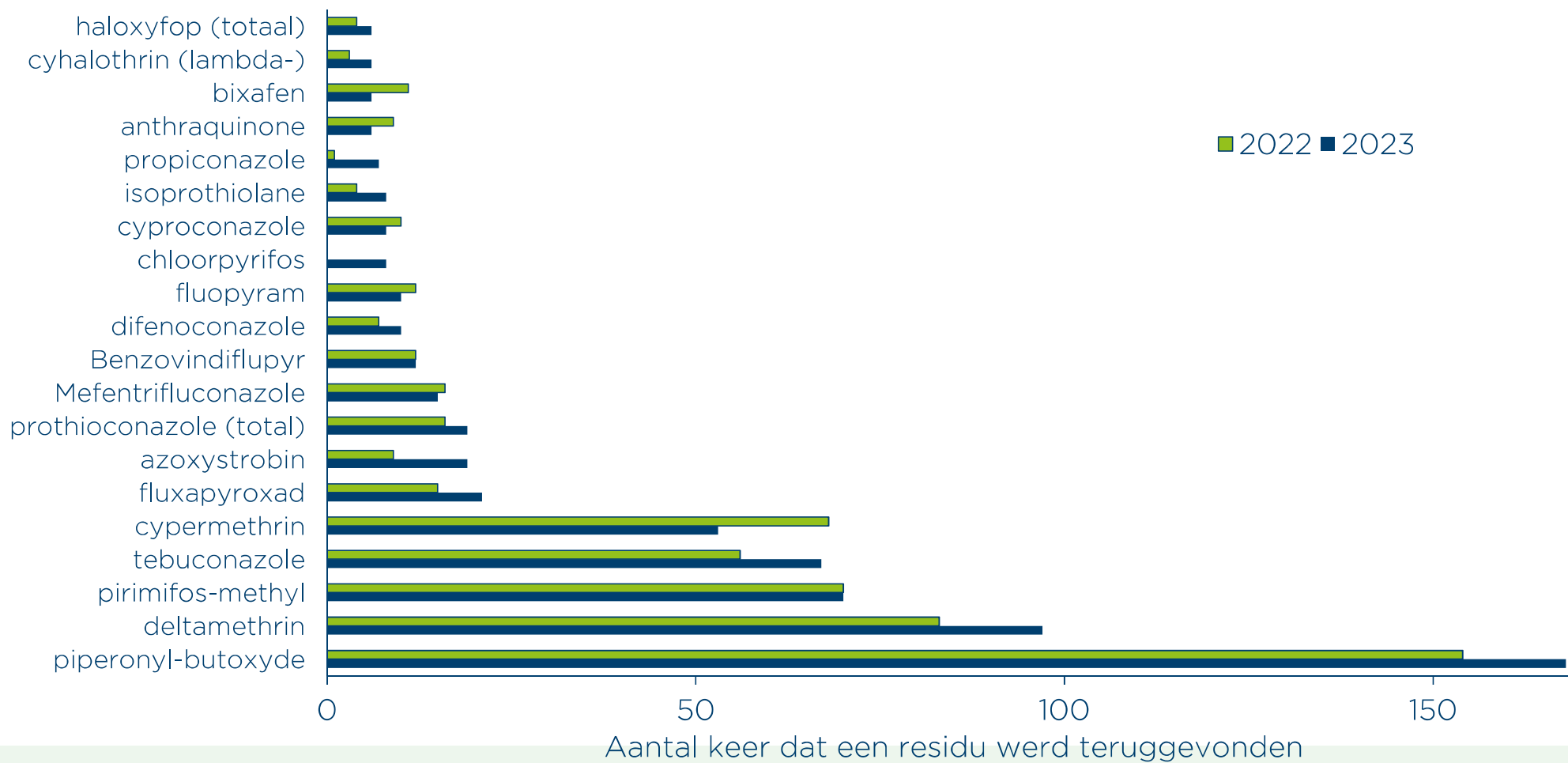


Pesticiden

Multiresidu screening

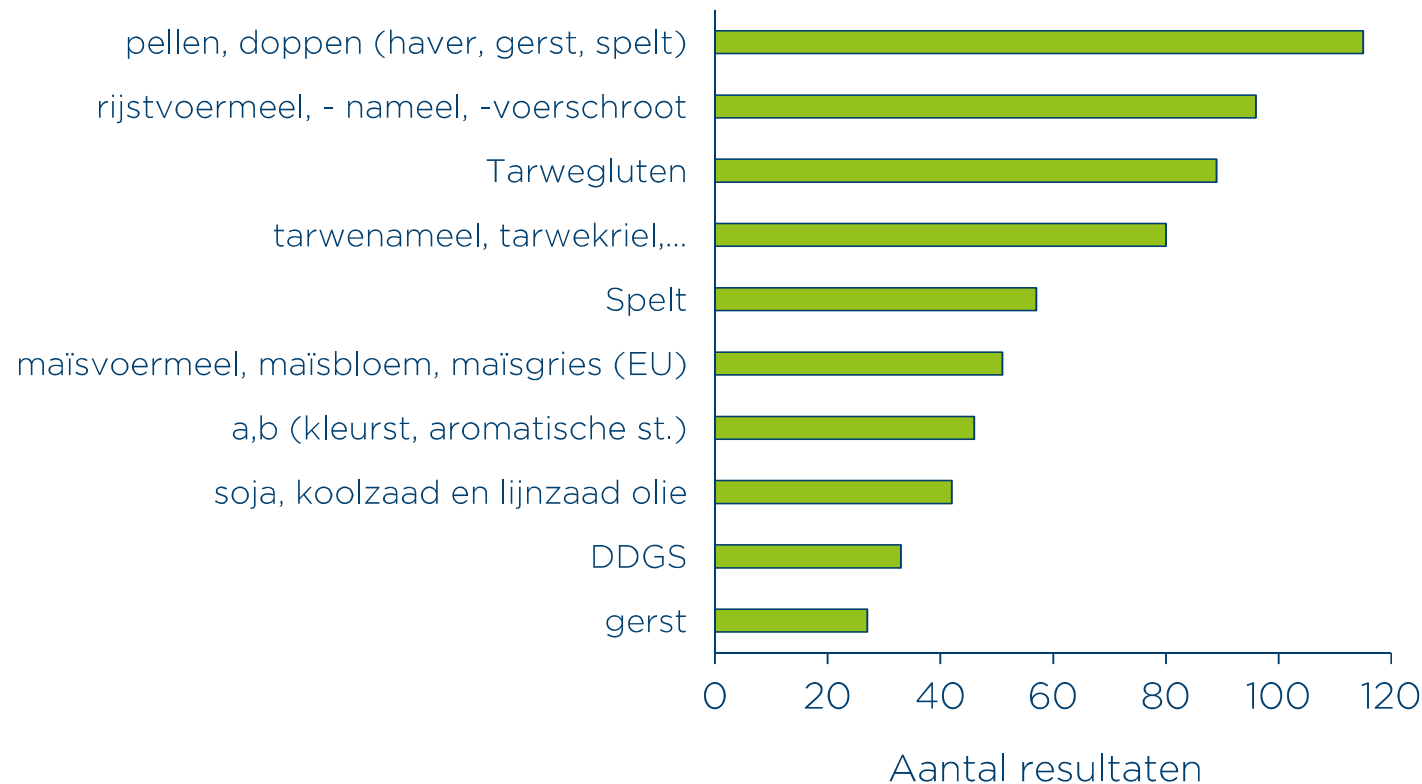


Pesticiden



Pesticiden

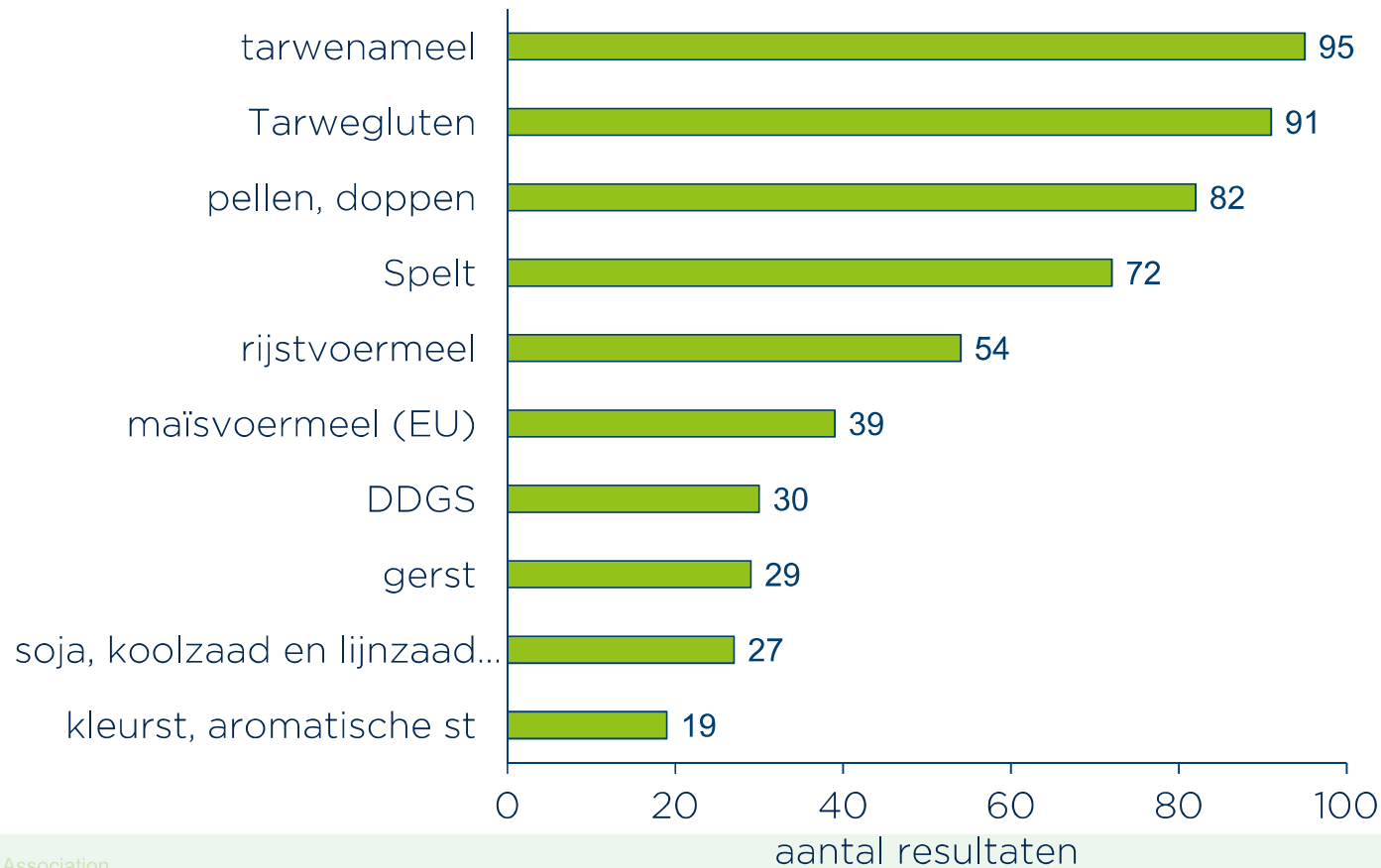
Multiresidu screening – BMP 2023



Categorieën van voedermiddelen waarvoor het frequentst pesticideresiduen worden vastgesteld

Pesticiden

Multiresidu screening – BMP 2022



Categorieën van voedermiddelen waarvoor het frequentst pesticideresiduen worden vastgesteld

Pesticiden

Multiresidu screening

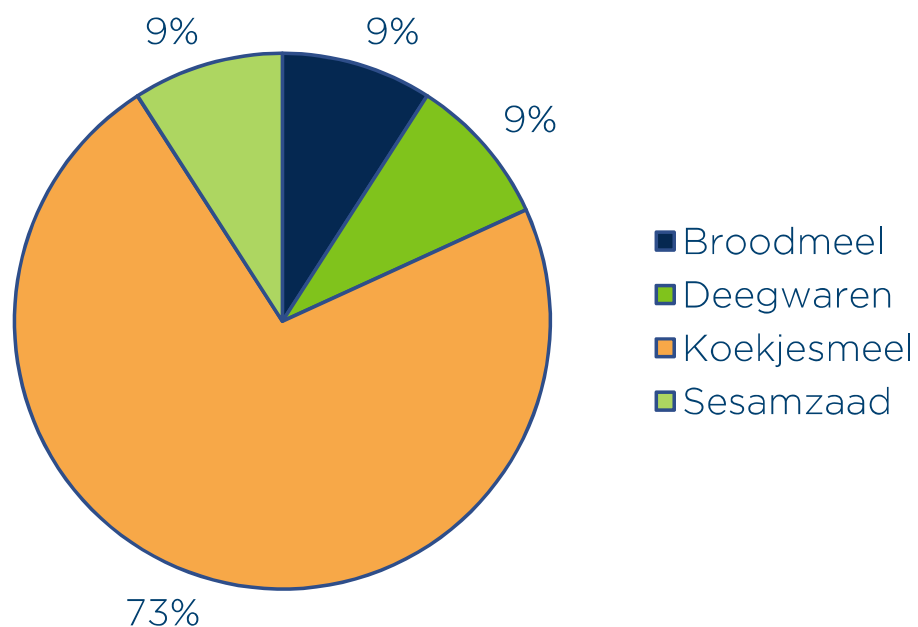
Alle resultaten conform
behalve:

NC: 2,6 mg/kg flutolanil in tarwe (MRL = 0,01 mg/kg)

Conform: $\leq$ MRL, eventueel met in rekening brengen van verwerkingsfactor, of risico-evaluatie m.b.v. PSTI -tool OK

Pesticiden

Specifieke screening: ethyleenoxide



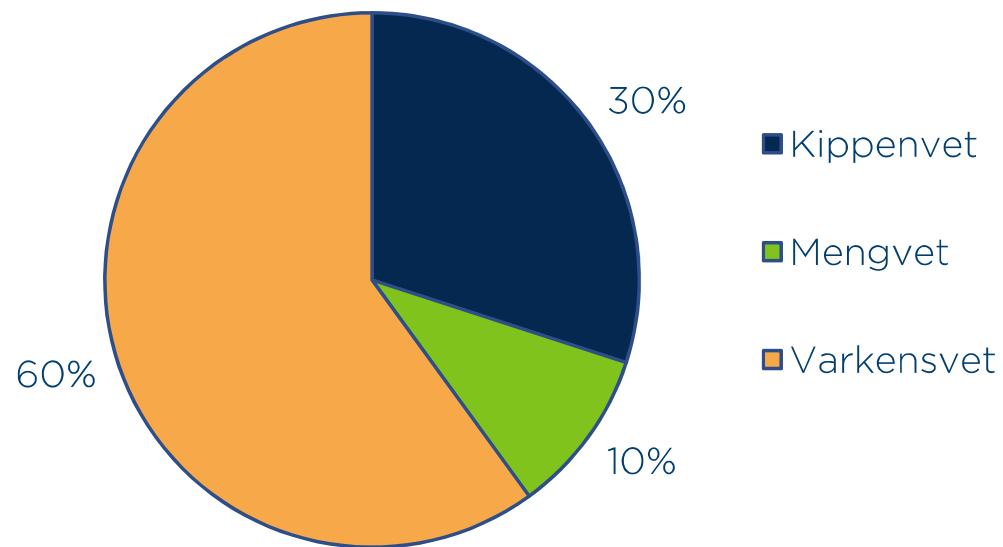
11 monsters: alle resultaten < LOQ

LOQ = 0,01 mg/kg

MRL tarwe = 0,02 mg/kg; MRL sesam = 0,05 mg/kg

Pesticiden

Specifieke screening: amitraz



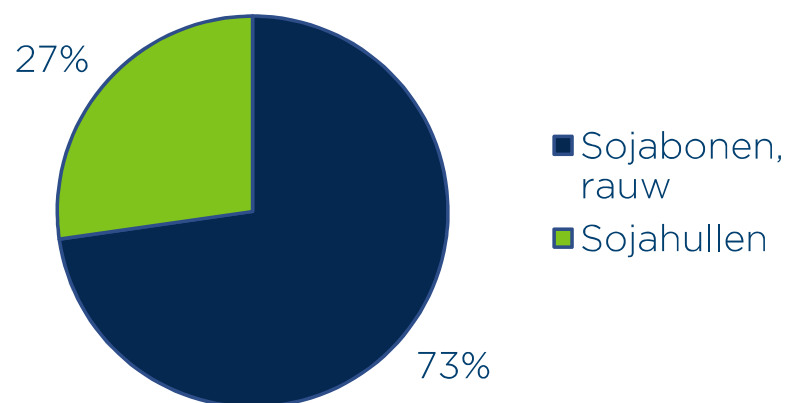
10 monsters: alle resultaten < LOQ

LOQ = 0,01 mg/kg

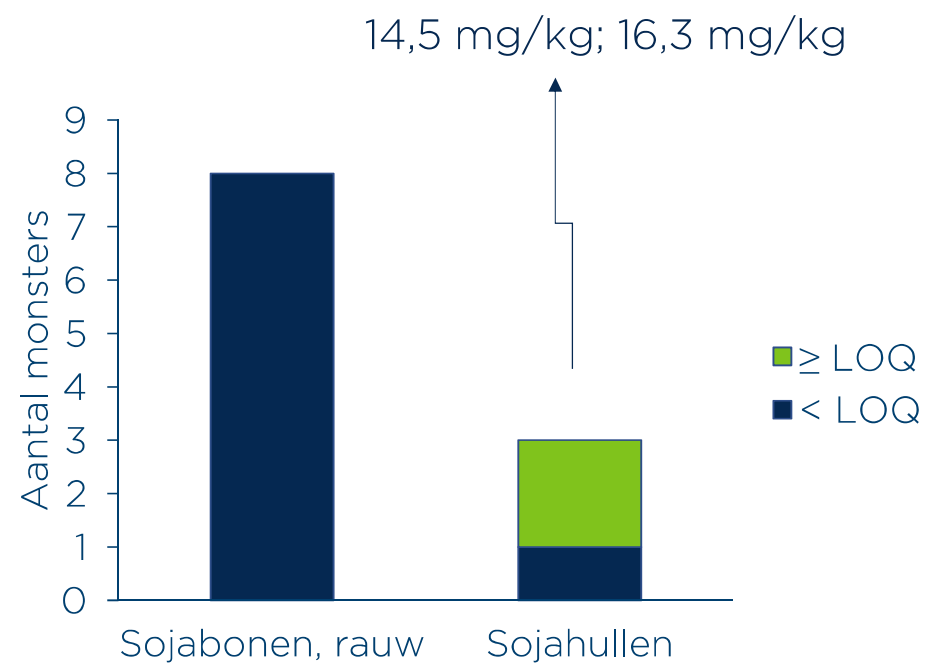
MRL varkensvet = 0,4 mg/kg; MRL kippenvet = 0,05 mg/kg

Pesticiden

Specifieke screening: glyfosaat



LOQ = 2,5 mg/kg
MRL soja: 20 mg/kg



Pesticiden

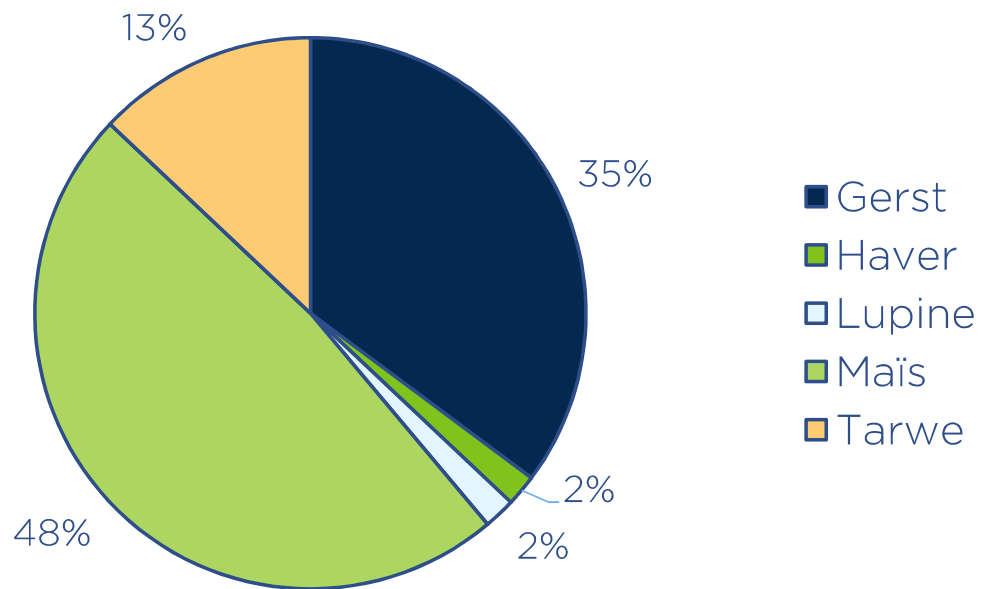
Specifieke screening: paraquat & diquat

11 monsters van rauwe sojabonen: alle resultaten < LOQ

*LOQ paraquat = 0,01 mg/kg; LOQ diquat = 0,01 mg/kg
MRL paraquat soja: 0,02 mg/kg; MRL diquat soja: 0,3 mg/kg*

Mycotoxines

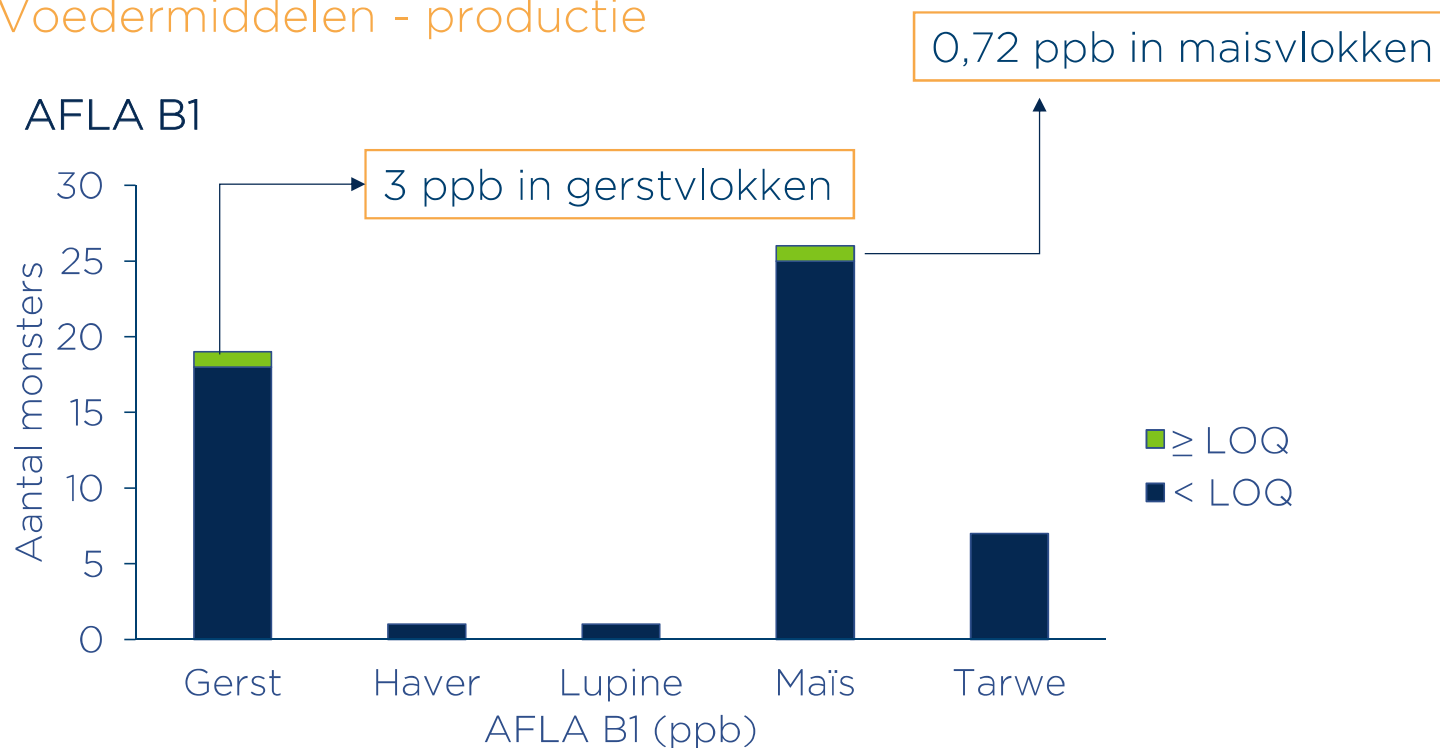
Voedermiddelen - productie



LOQ AFLA B1 = 0,5 ppb; LOQ T2 = 5 ppb; LOQ HT2 = 5 ppb; LOQ DON = 100 ppb; LOQ ZEA = 25 ppb; LOQ OTA = 0,5 ppb; LOQ FUM B1 = 25 ppb; LOQ FUM B2 = 25 ppb

Mycotoxines

Voedermiddelen - productie



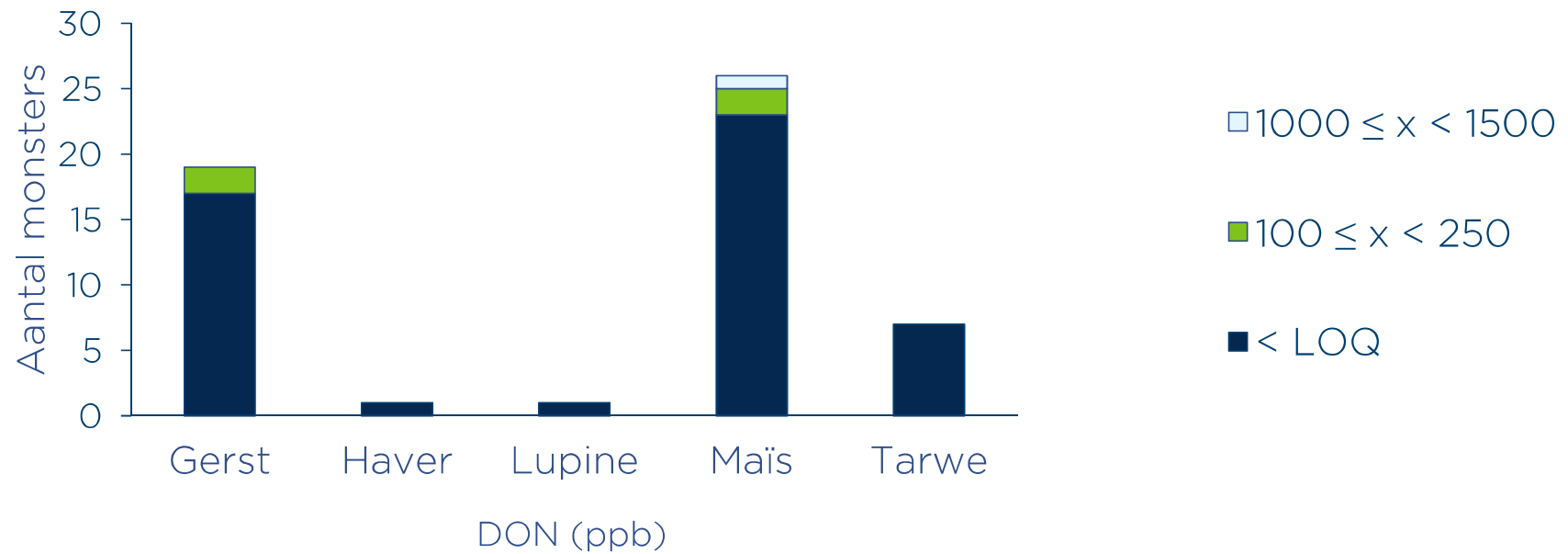
LOQ AFLA B1 = 0,5 ppb

Norm AFLA B1 = 20 ppb

Mycotoxines

Voedermiddelen - productie

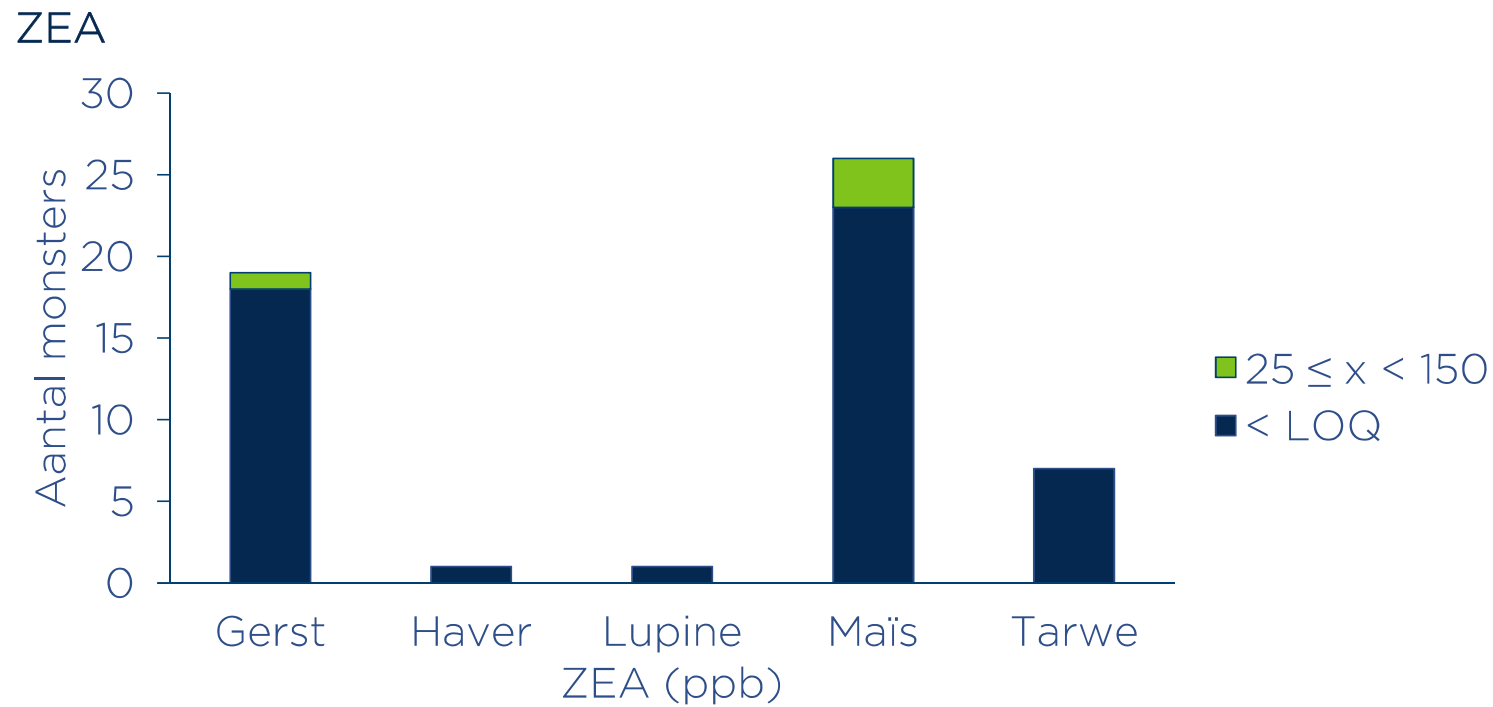
DON



LOQ DON = 100 ppb
Actiegrens DON: AT-03, p8

Mycotoxines

Voedermiddelen - productie

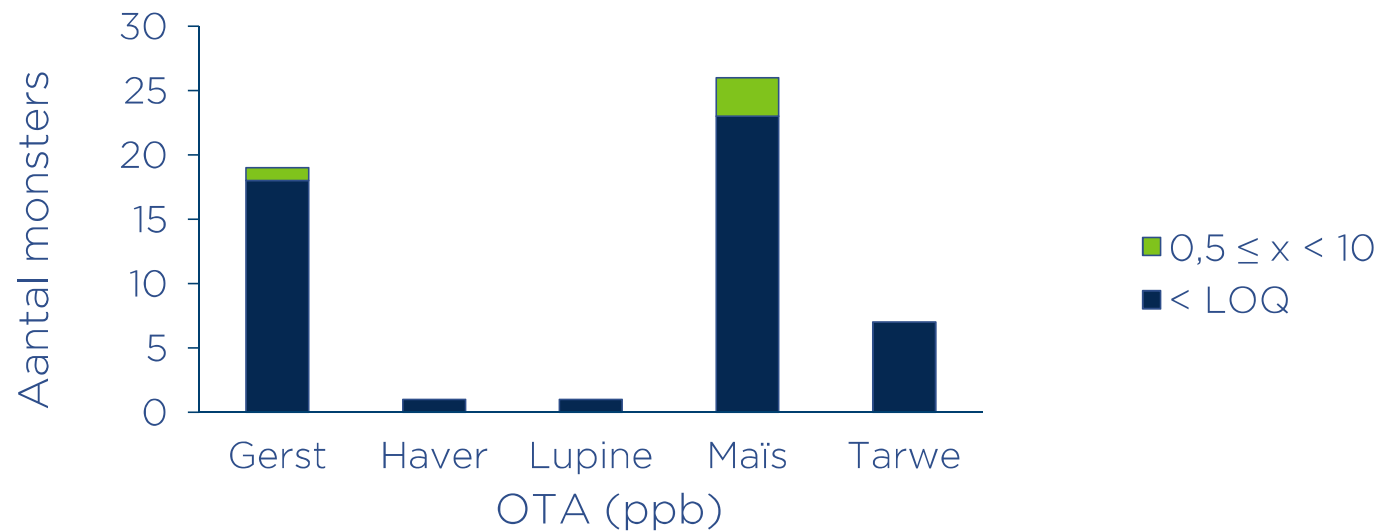


LOQ ZEA = 25 ppb
Actiegrens ZEA: AT-03, p 9

Mycotoxines

Voedermiddelen - productie

OTA

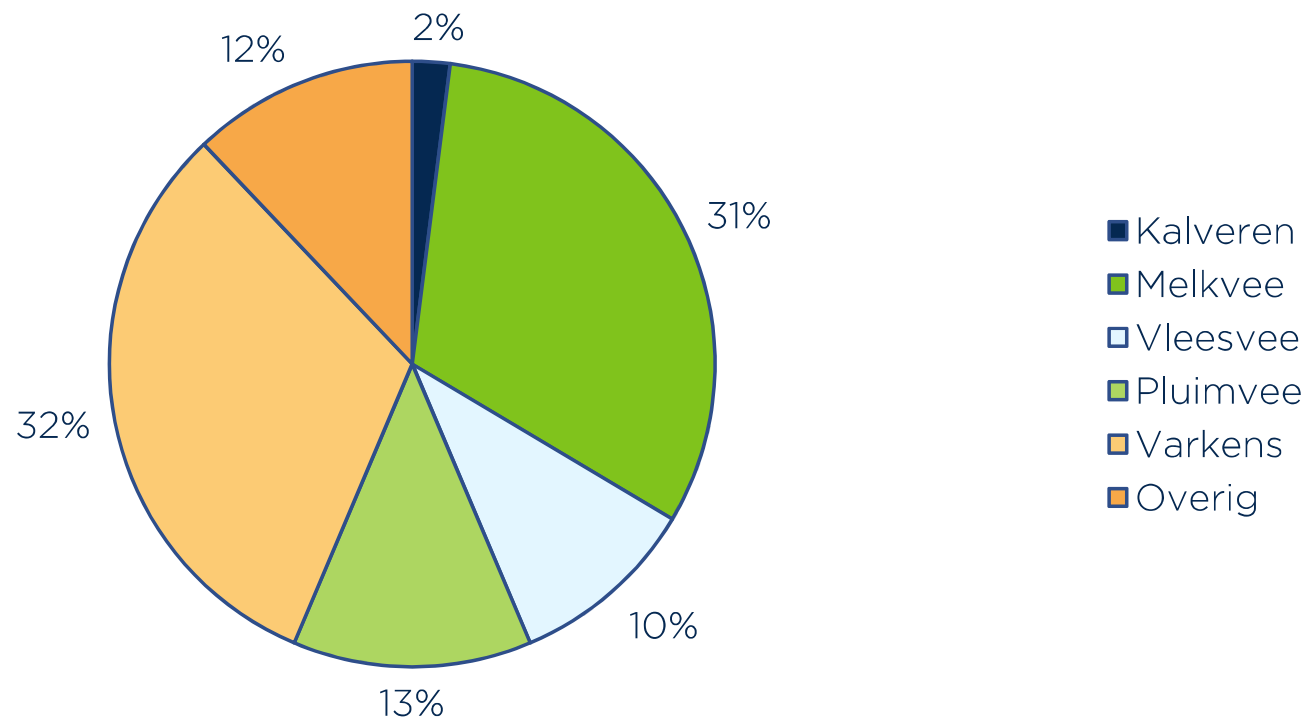


LOQ OTA = 0,5 ppb

Actiegrens OTA: AT-03, p 10

Mycotoxines

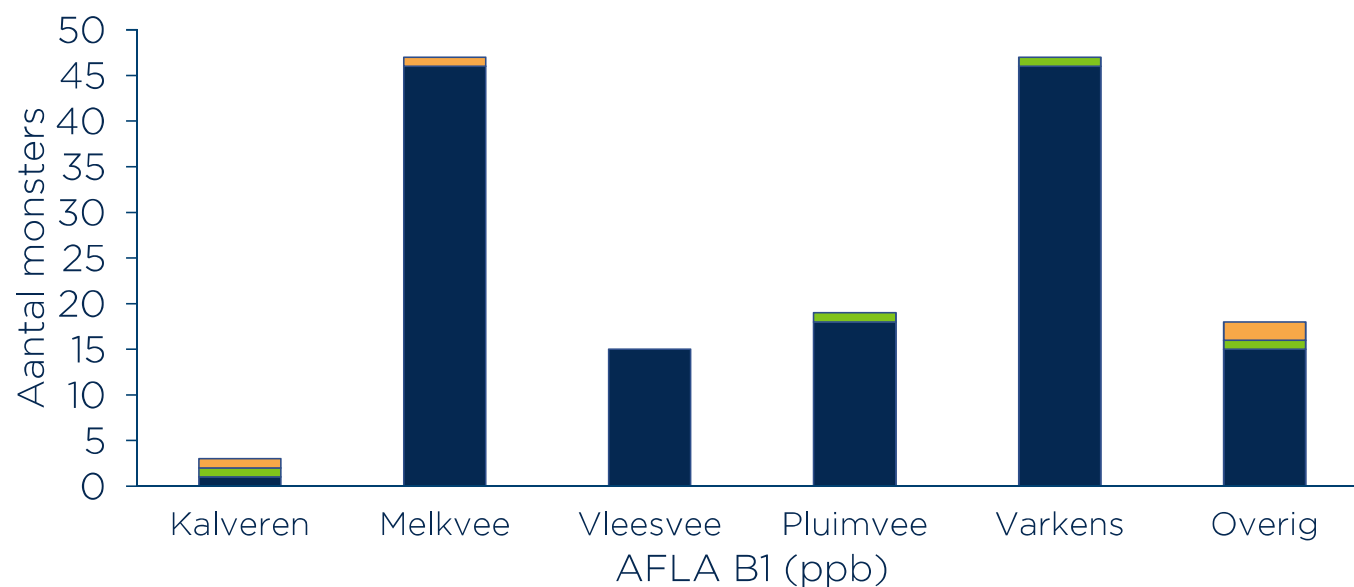
Mengvoerders



Mycotoxines

Mengvoerders

AFLA B1



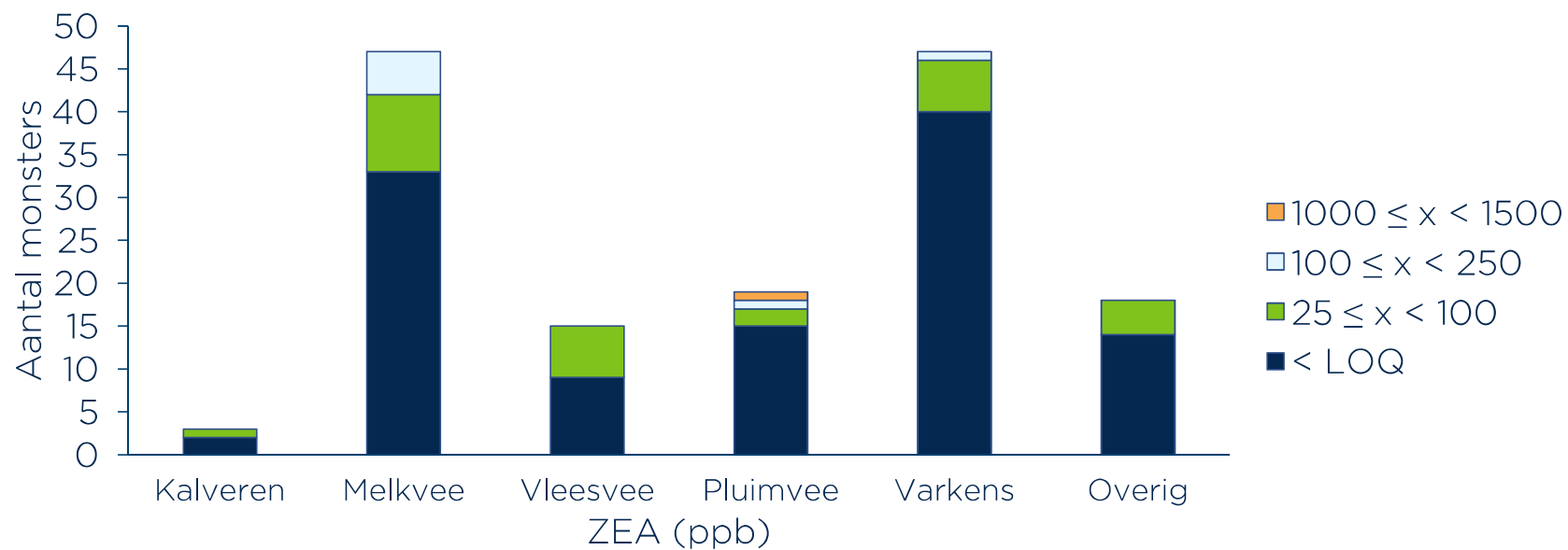
- 1,3 ppb in paardenvoeder
- 1,2 ppb in kalvervoeder
- 1,1 ppb in melkveevoeder

LOQ AFLA B1 = 0,5 ppb
Norm AFLA B1: AT-03, p 7

Mycotoxines

Mengvoerders

ZEA

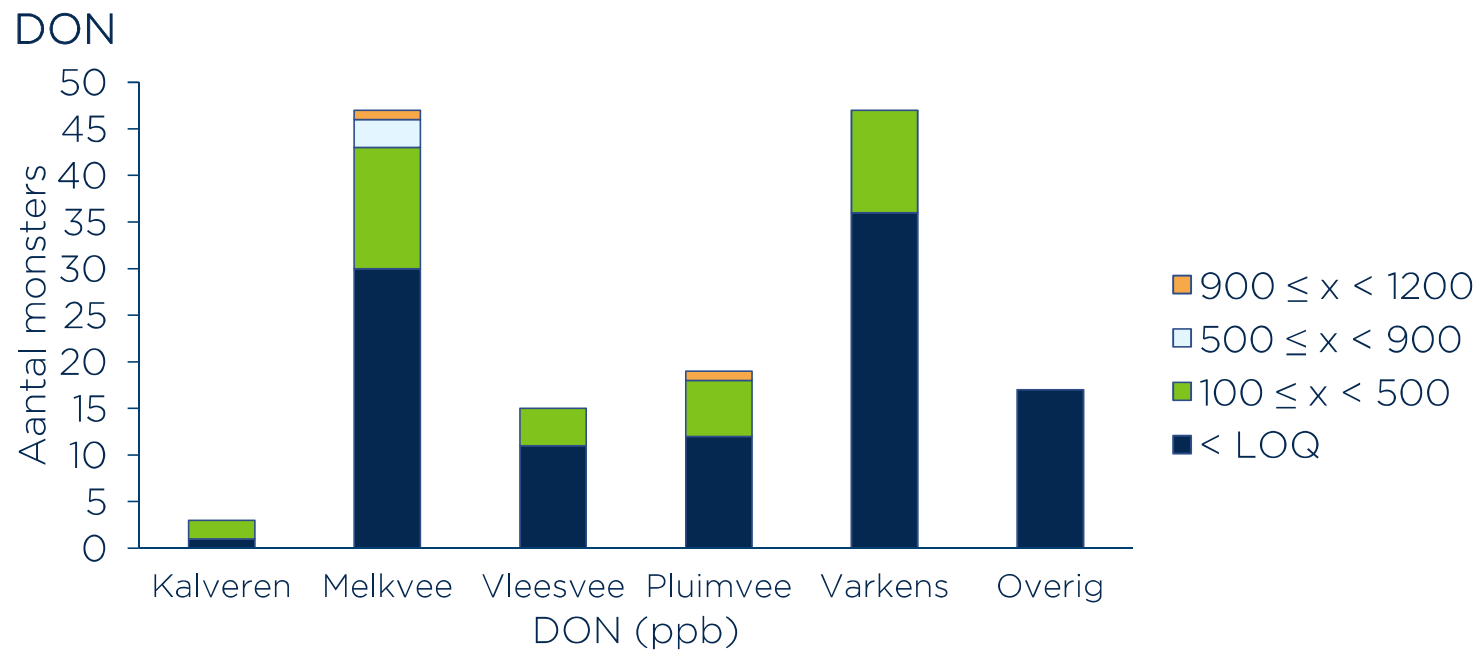


LOQ ZEA = 25 ppb

Actiegrens ZEA: AT-03, p 9

Mycotoxines

Mengvoerders

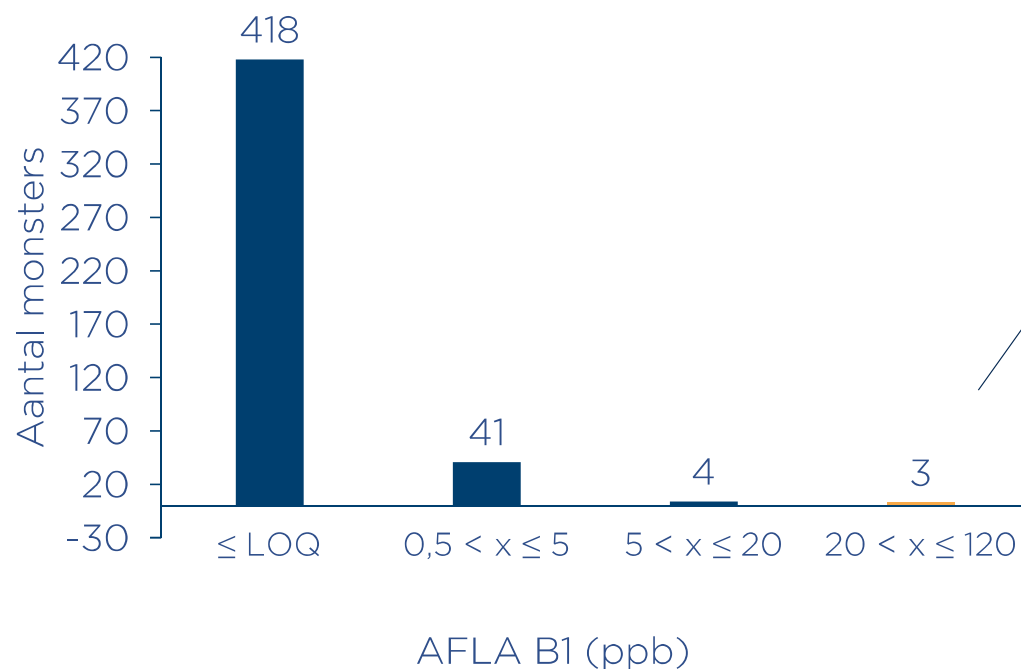


LOQ DON = 100 ppb
Actiegrens DON: AT-03, p8

Mycotoxines

Voedermiddelen – Niveau 2

AFLA B1



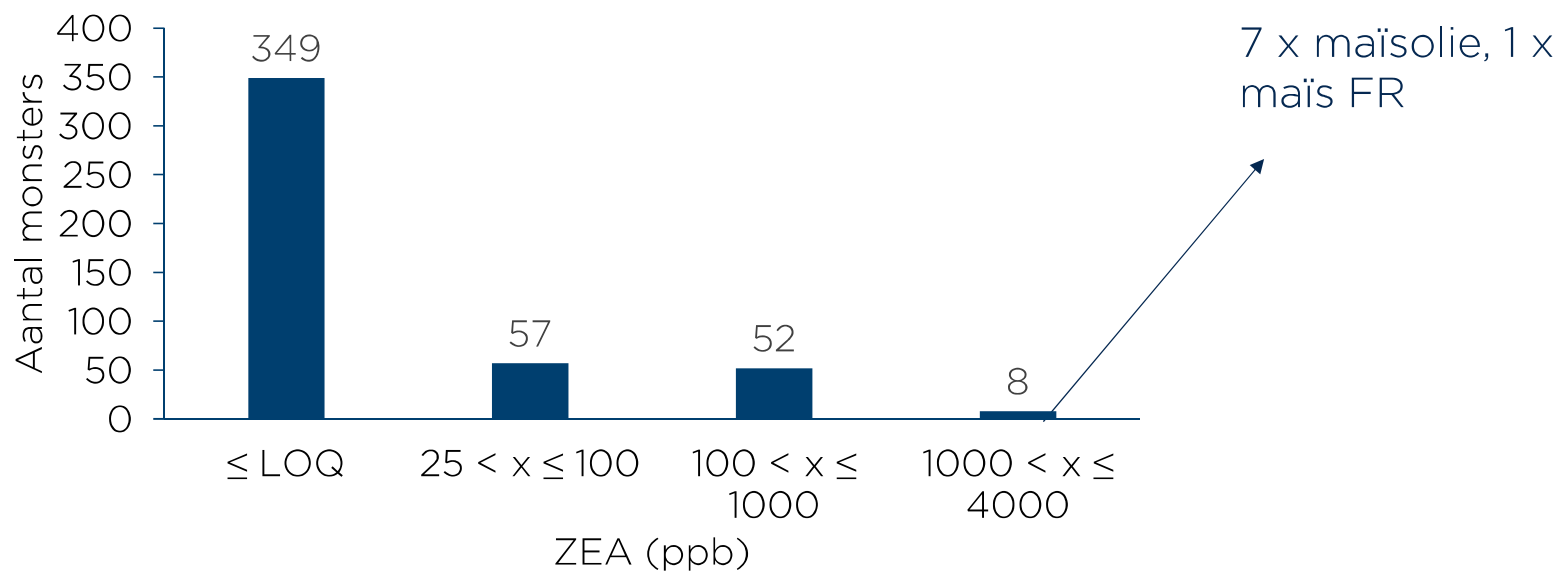
- NC: 2 x zonnebloempitten → 102 ppb (origine niet gekend); 27,7 ppb (Egypte)
- Conform mits MO: Rijstvoermeel → 22,1 ppb

LOQ AFLA B1 = 0,5 ppb
Norm AFLA B1: 20 ppb

Mycotoxines

Voedermiddelen – Niveau 2

ZEA



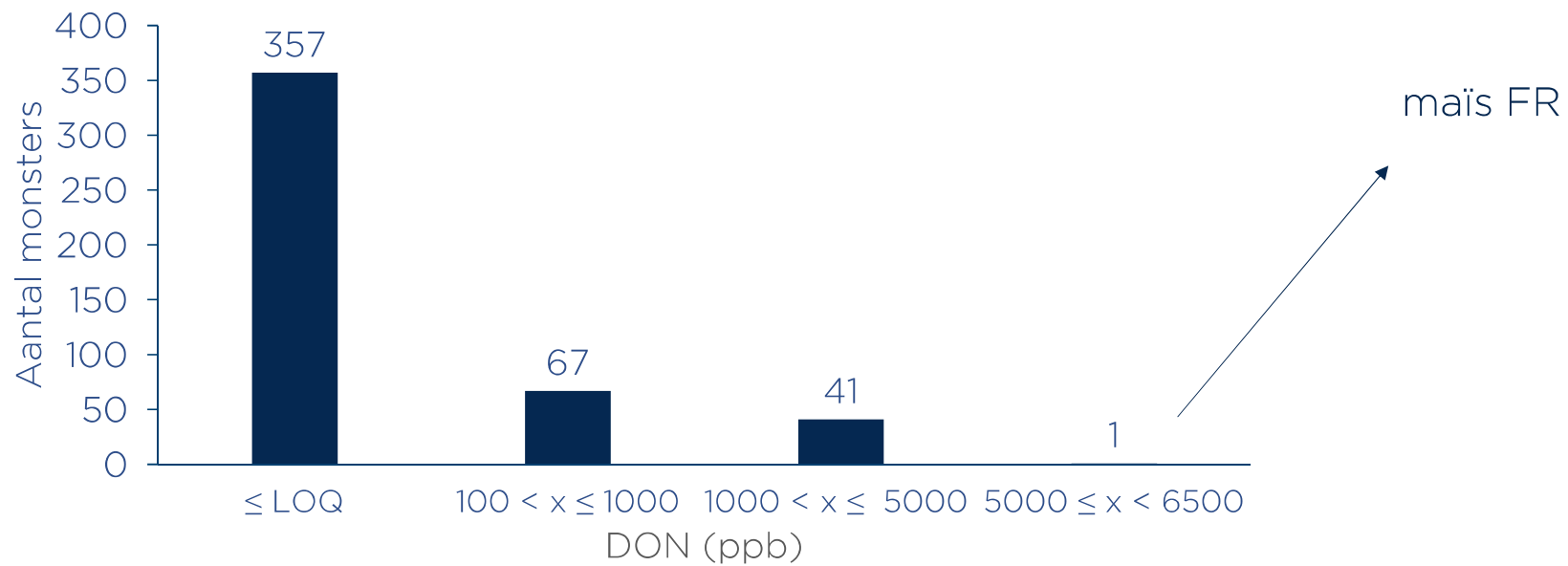
LOQ ZEA = 25 ppb

Actiegrens ZEA: AT-03, p 9

Mycotoxines

Voedermiddelen – Niveau 2

DON

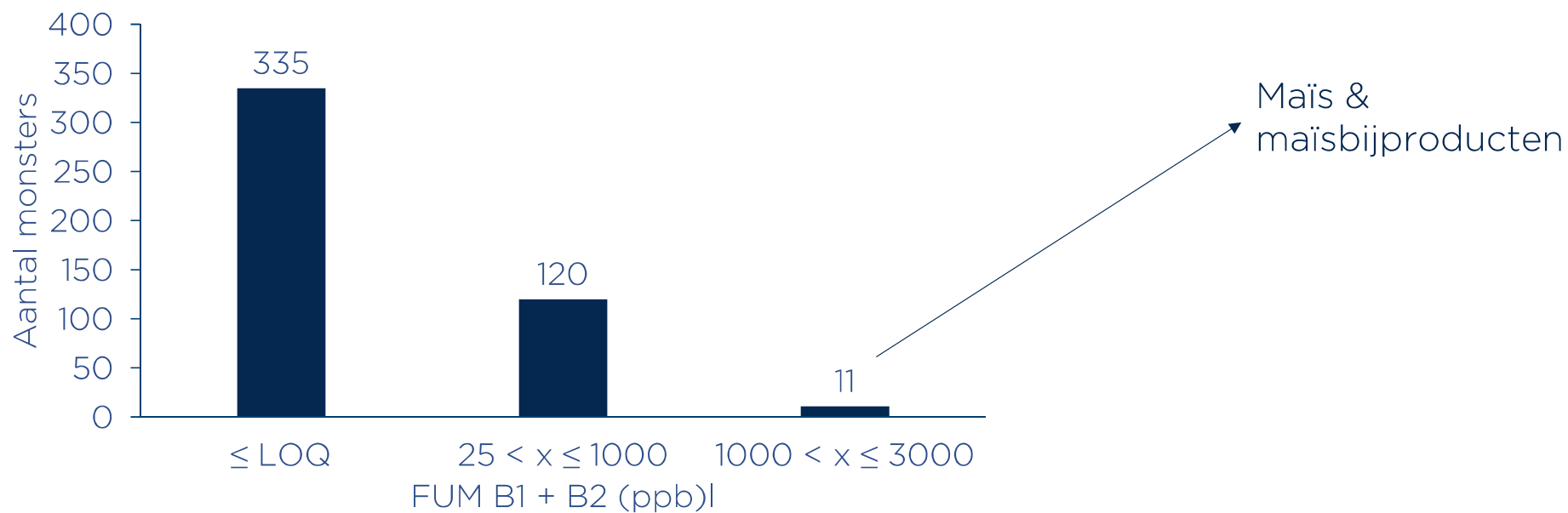


LOQ DON = 100 ppb
Actiegrens DON: AT-03, p8

Mycotoxines

Voedermiddelen – Niveau 2

FUM B1 + B2



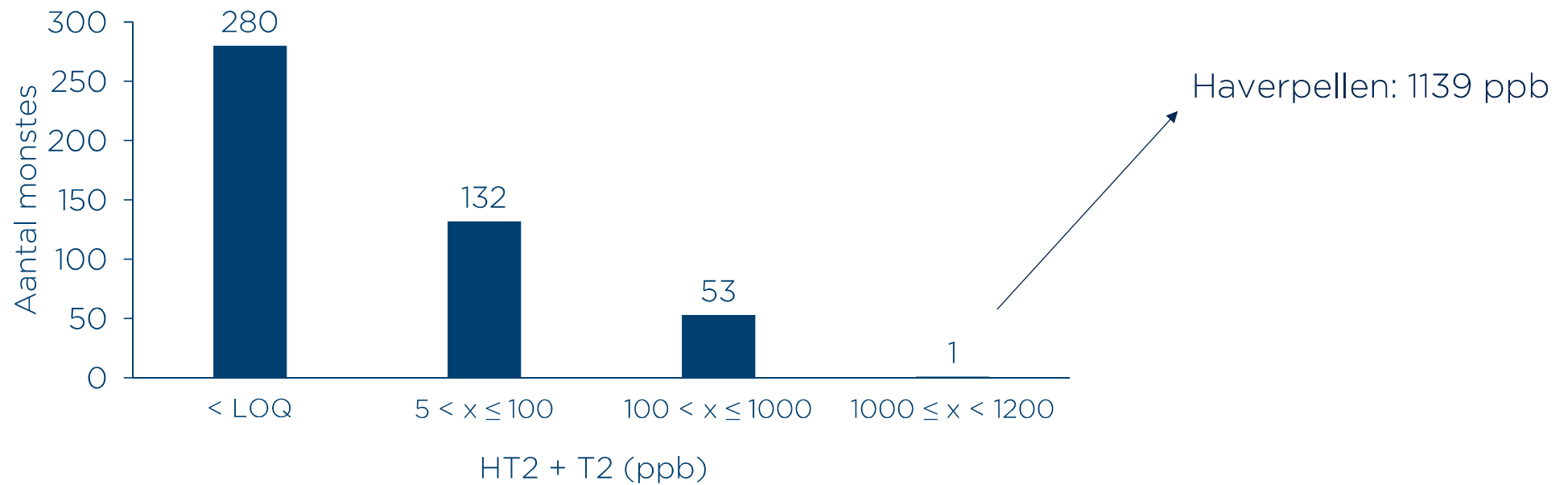
LOQ FUM B1 = 25 ppb; LOQ FUM B2 = 25 ppb

Actiegrens FUM B1 + B2: AT-03, p 10

Mycotoxines

Voedermiddelen – Niveau 2

T2 + HT2



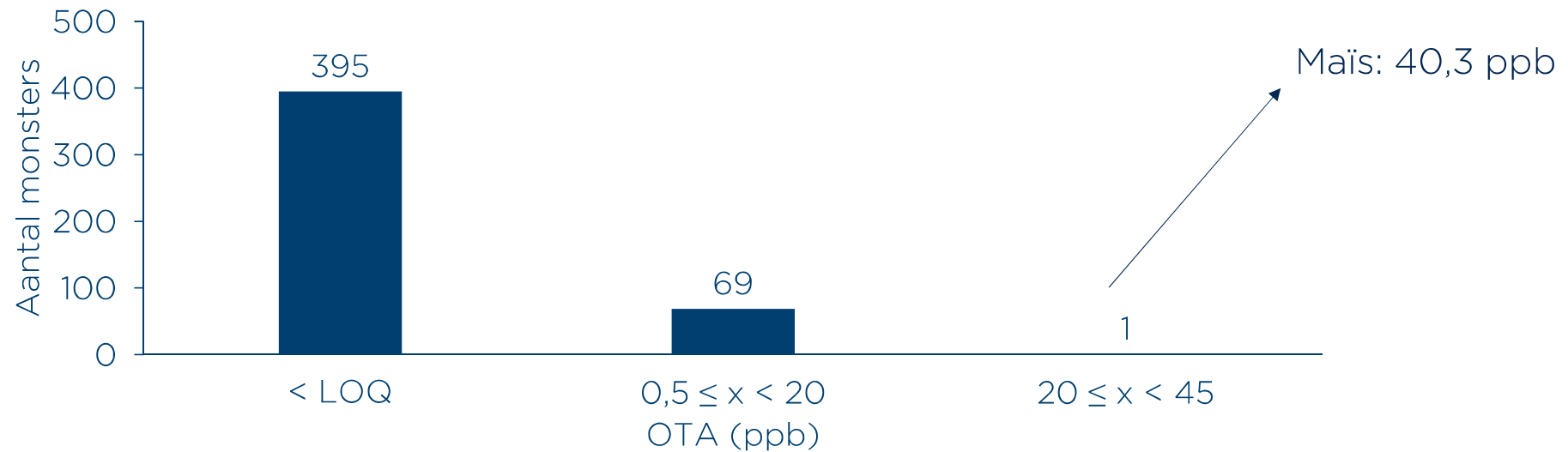
LOQ T2 = 5 ppb; LOQ HT2 = 5 ppb

Actiegrens T2 + HT2: AT-03, p 11

Mycotoxines

Voedermiddelen – Niveau 2

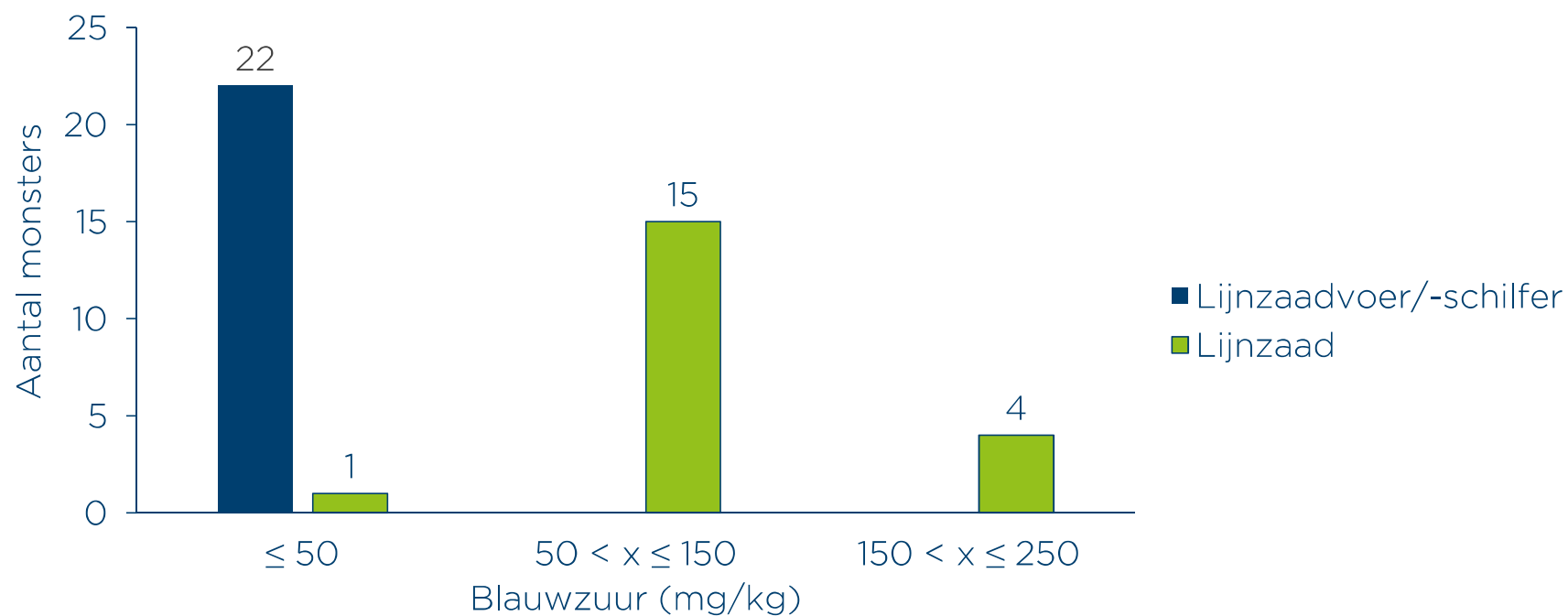
OTA



LOQ OTA = 0,5 ppb
Actiegrens OTA: AT-03, p 10

Blauwzuur

Lijnzaad(bijproducten)

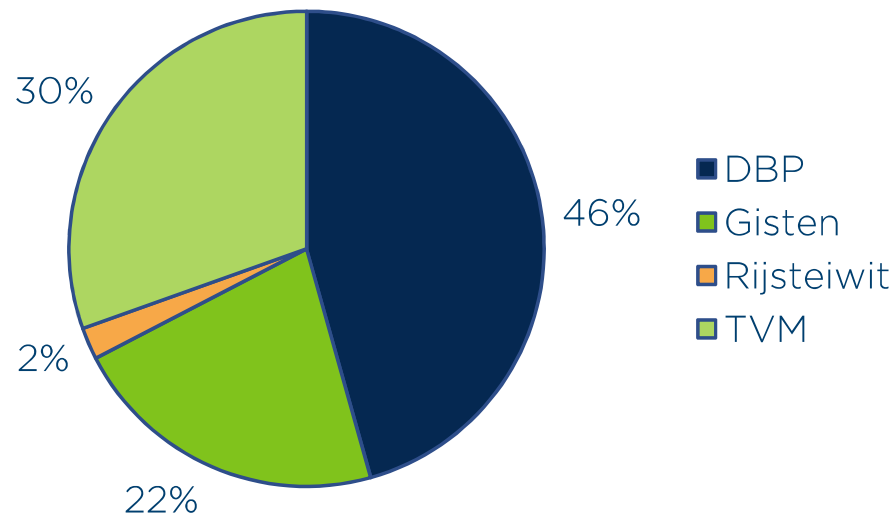


Norm lijnzaad: 250 mg/kg

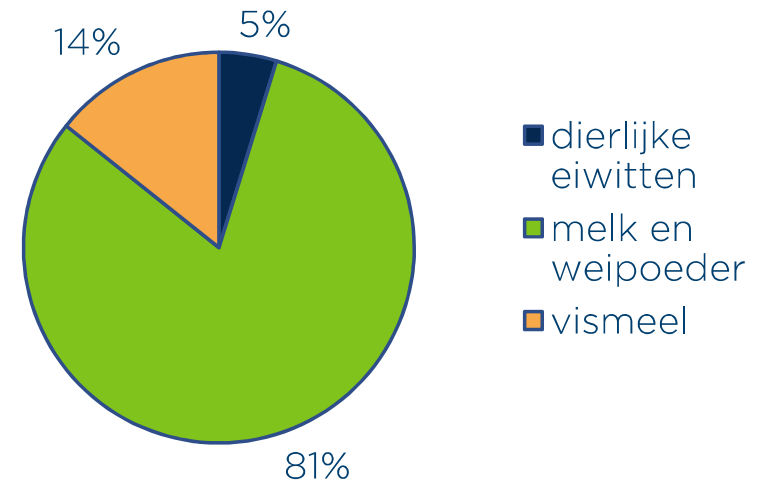
Norm lijnzaadkoeken: 350 mg/kg

Melamine

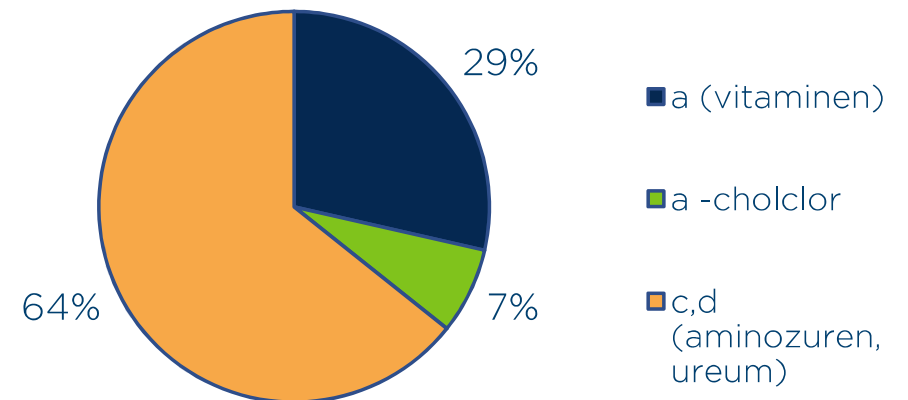
Voedermiddelen & TVM



Dierlijke bijproducten

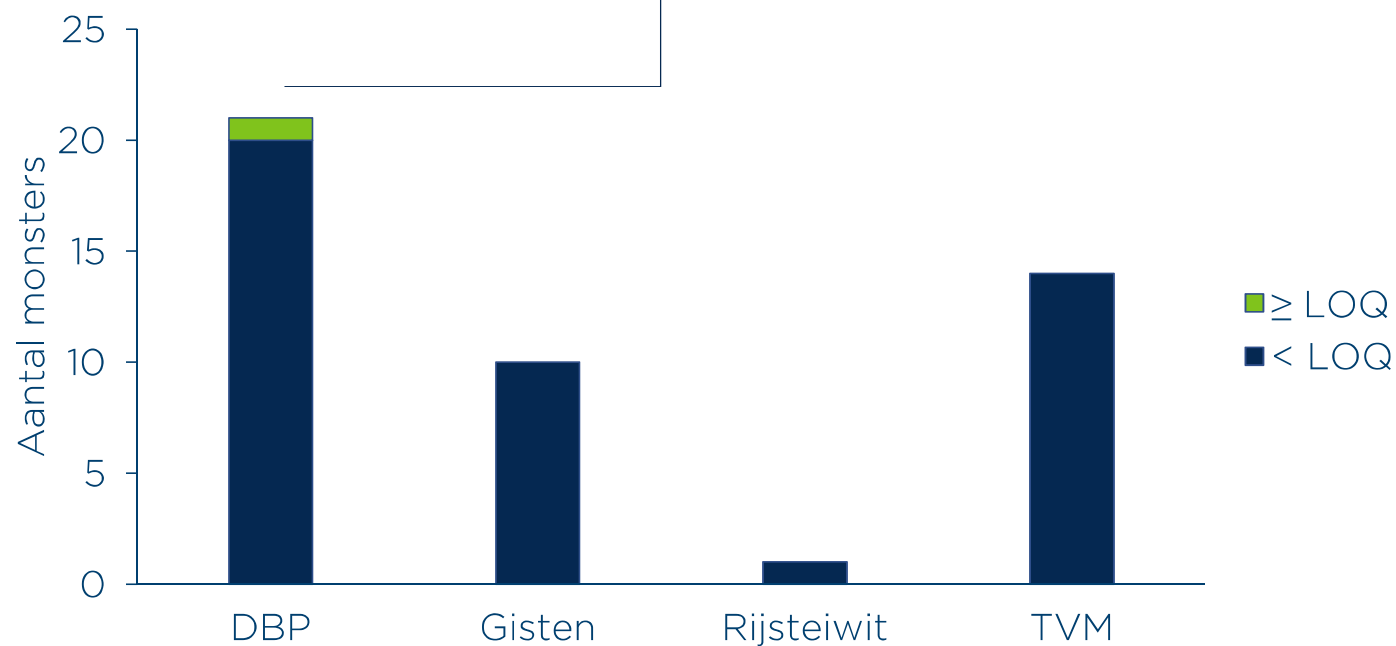


TVM



Melamine

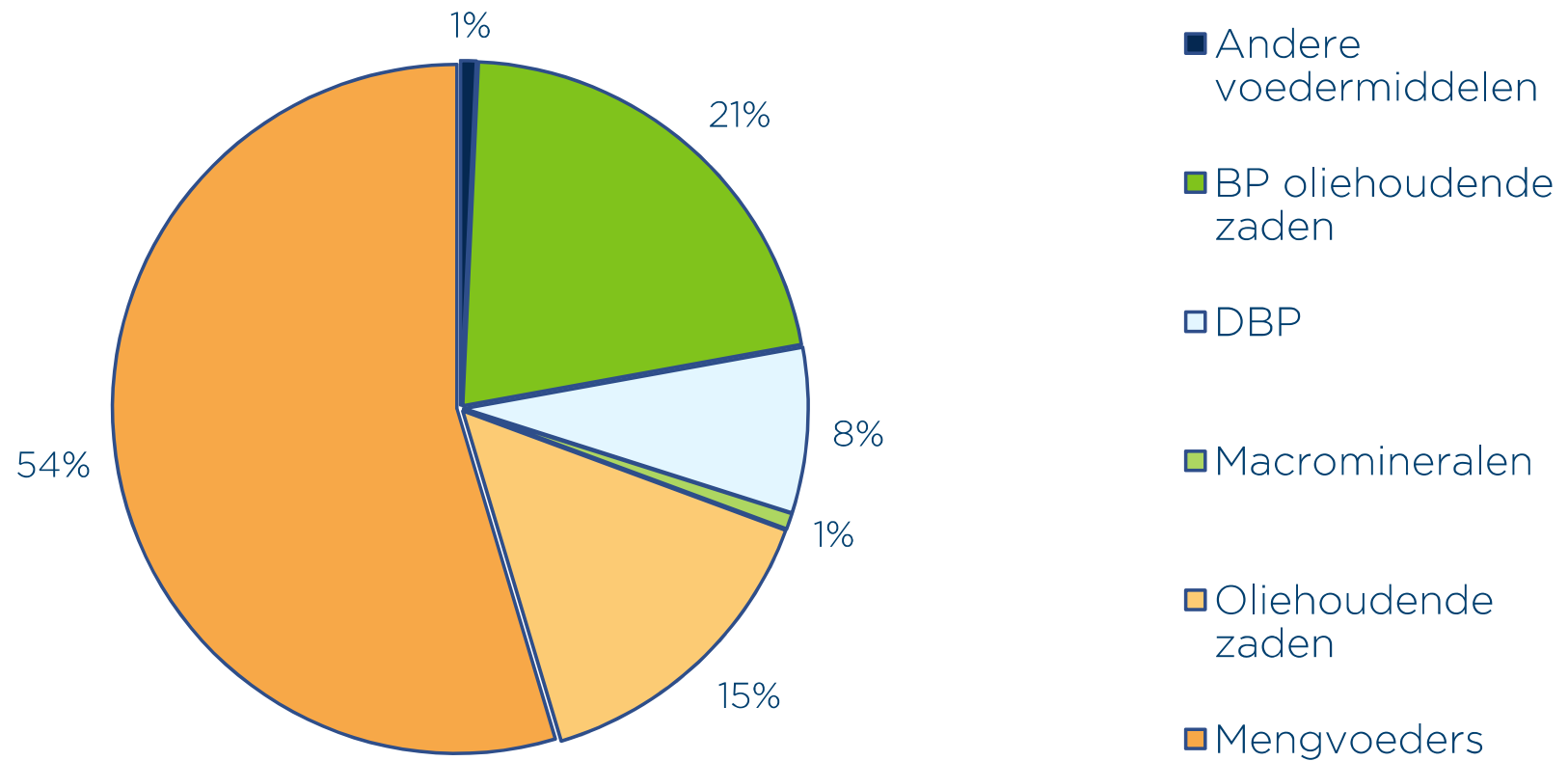
Voedermiddelen & TVM



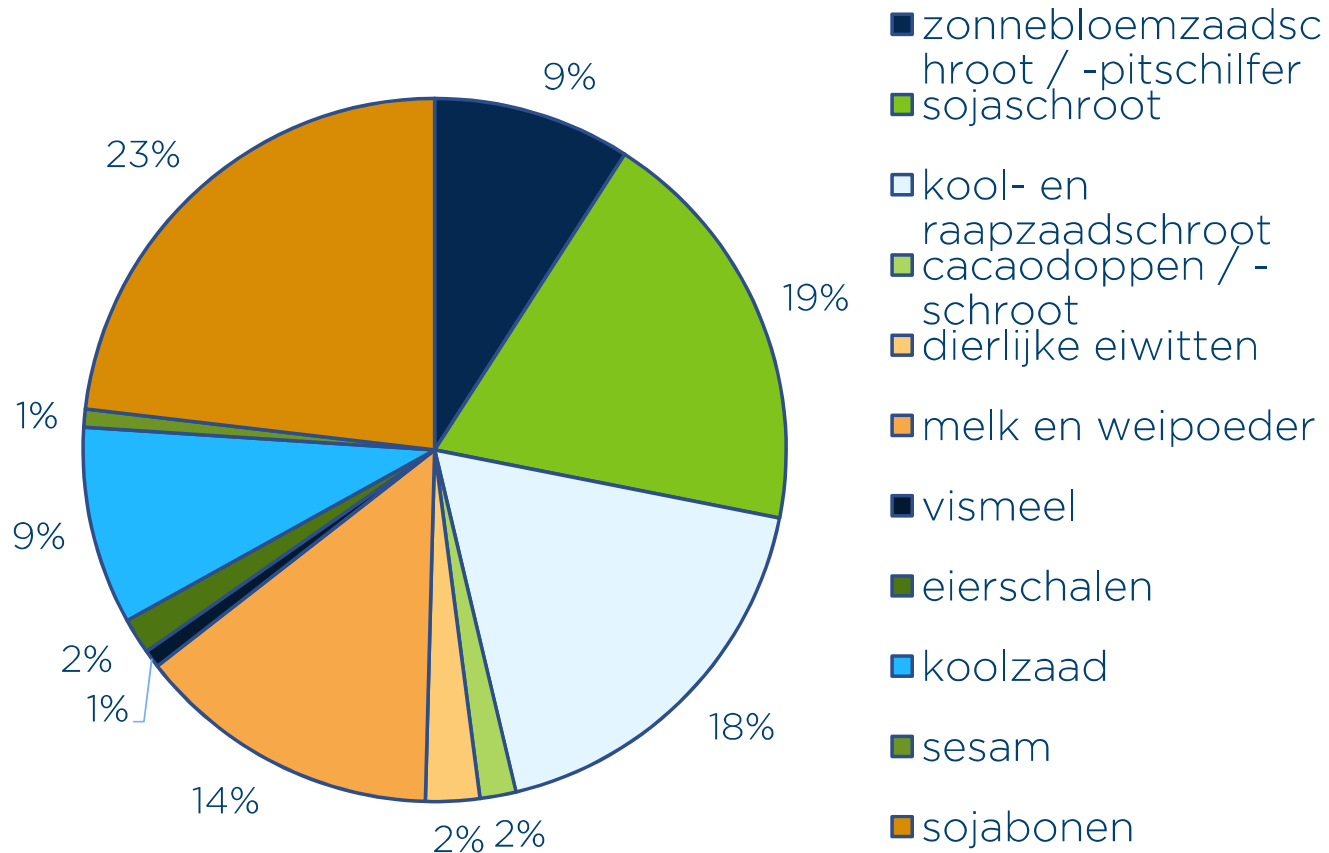
LOQ = 0,01 mg/kg

Norm: 2,5 mg/kg voor diervoeders

Salmonella

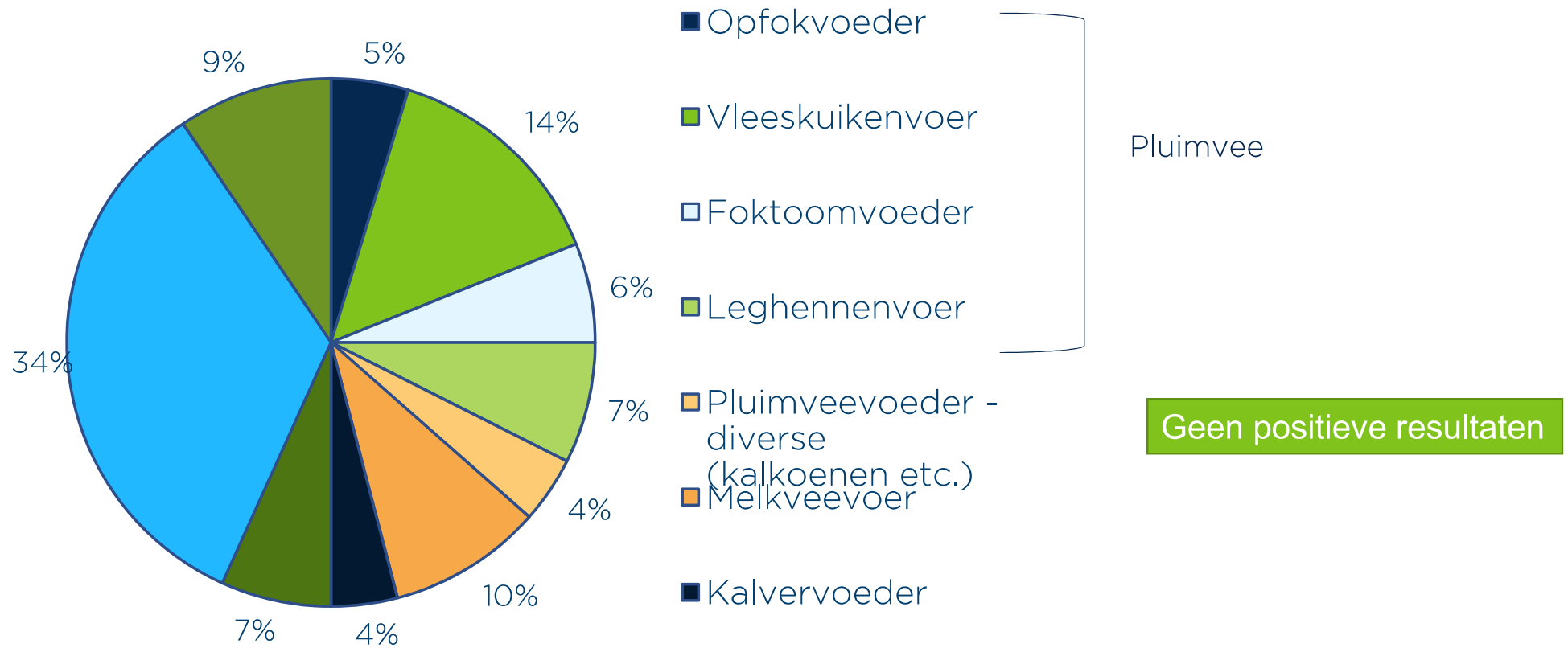


Salmonella



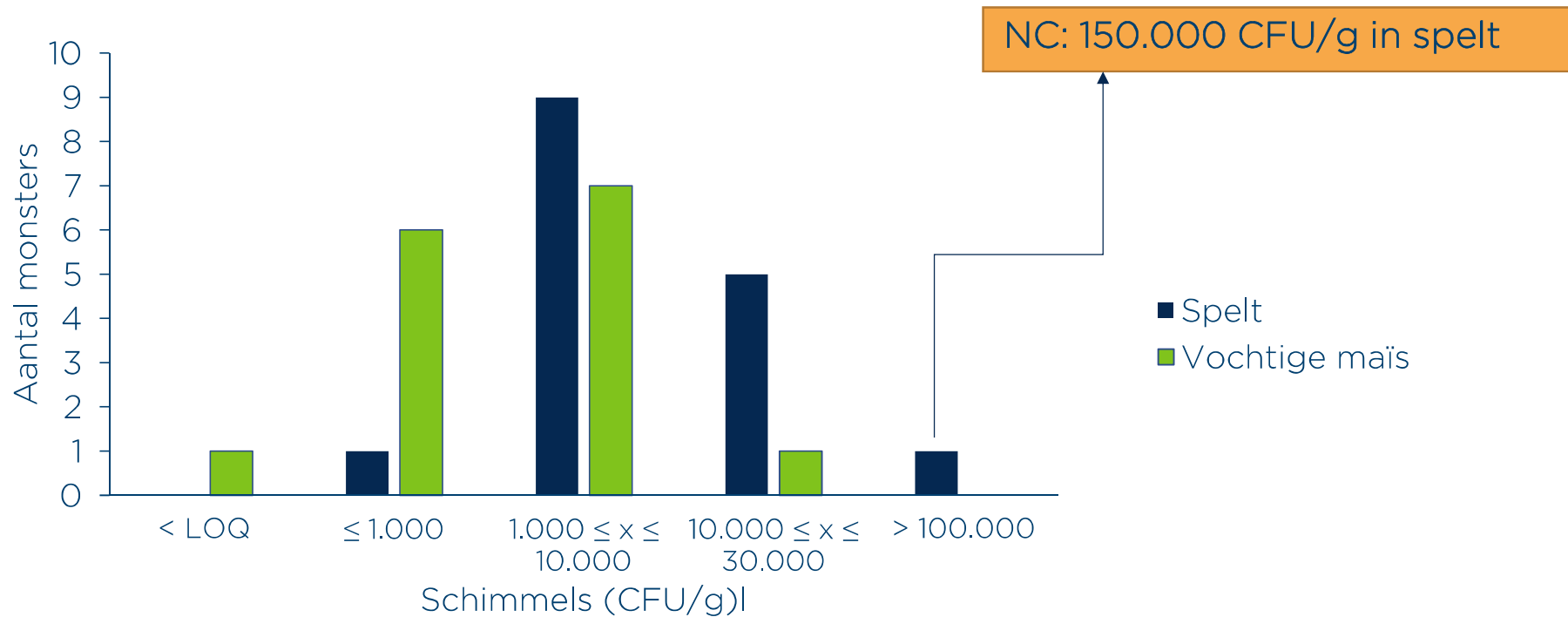
Geen positieve resultaten

Salmonella



Schimmels

Spelt & vochtige maïs

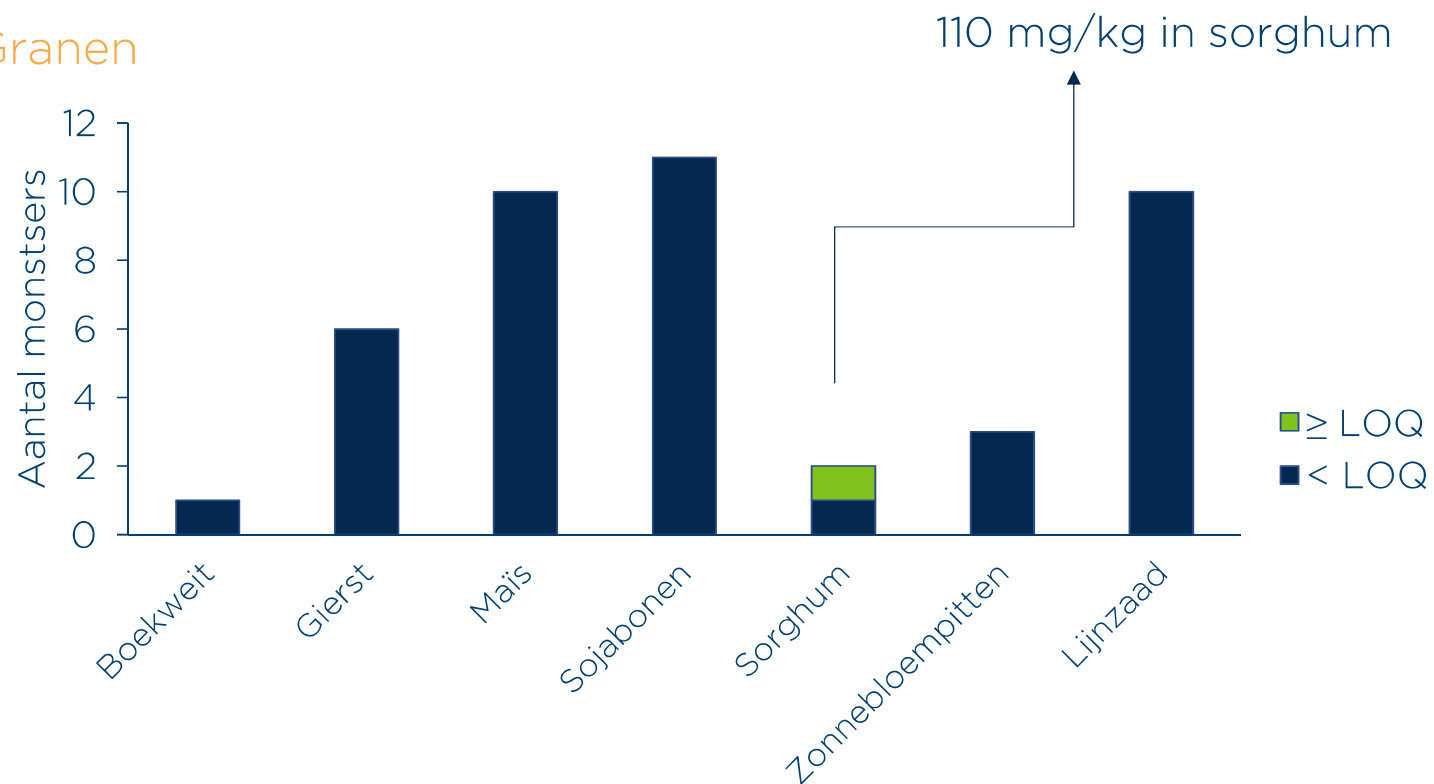


LOQ = 100 CFU/g

Actiegrens = 100.000 CFU/g

Ambrosia

Granen

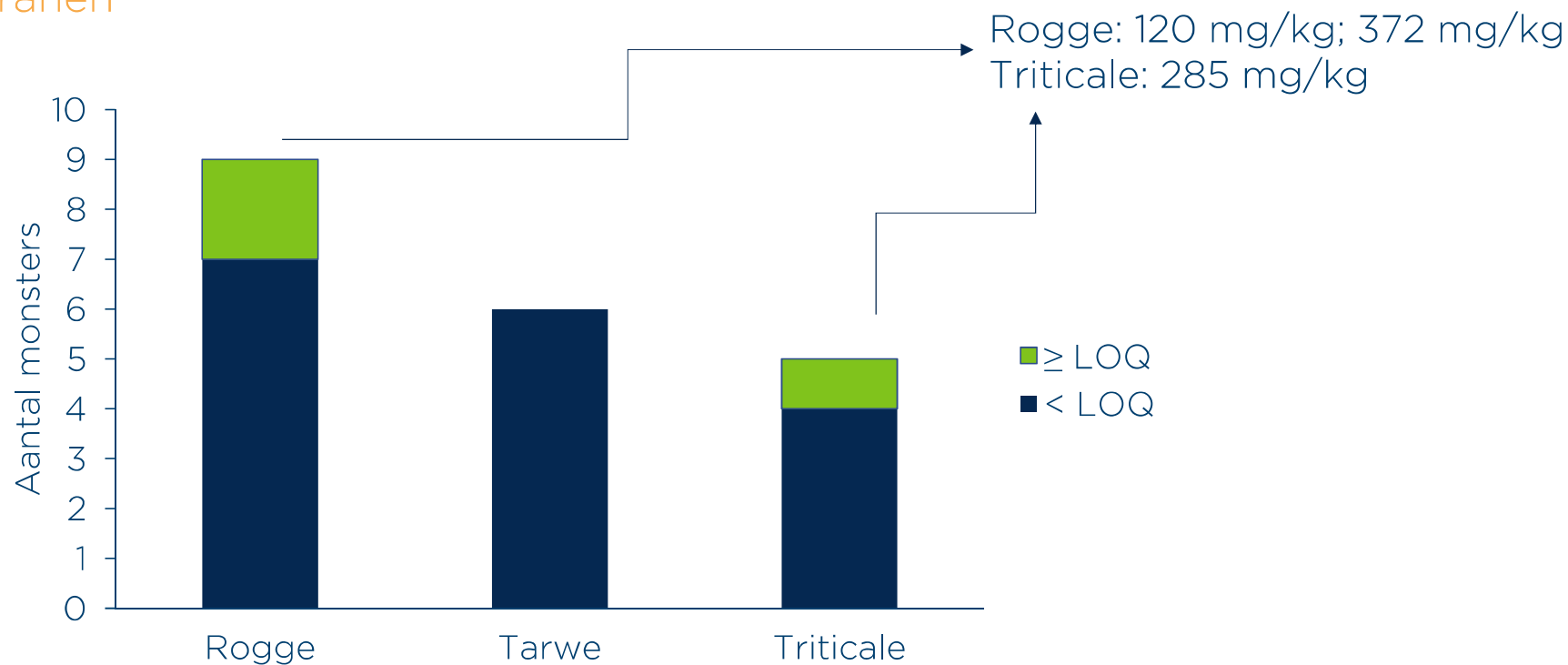


LOQ = 50 mg/kg

Norm: 50 mg/kg voor voedermiddelen, m.u.v. gierst / sorghum: 200 mg/kg

Moederkoren

Granen



LOQ = 80 mg/kg

Norm: 1000 mg/kg voor voedermiddelen