



Feedstock Type

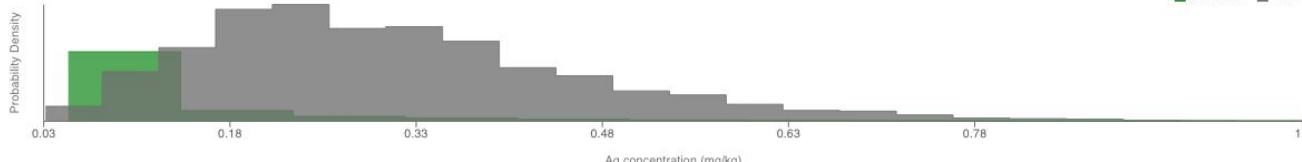
Basalt

Element

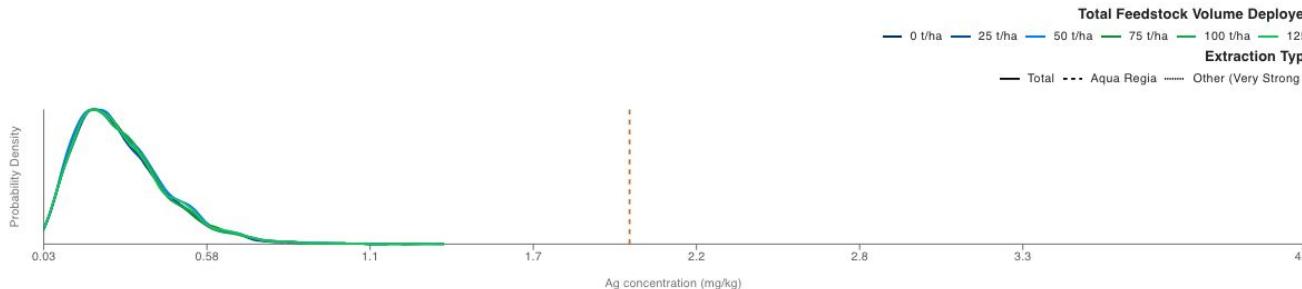
Ag

CALCULATE

Feedstock and soil Ag distributions ⓘ



Soil Ag after basalt application ⓘ



Regulations ⓘ

-- Lithuania, agricultural soils (2 mg/kg) --- EPA, plants (560 mg/kg)



Feedstock Type

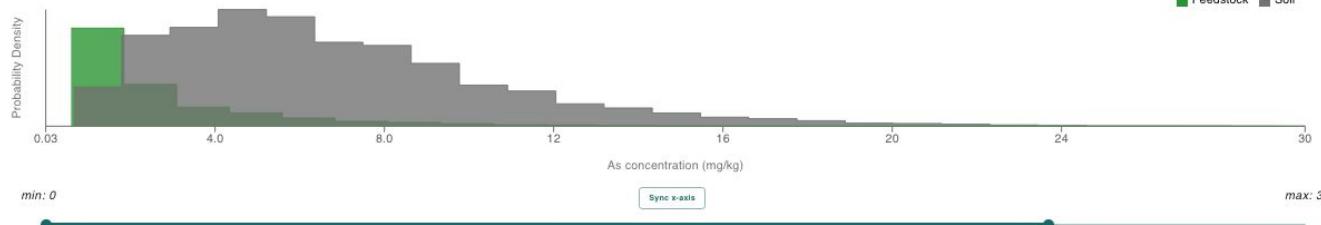
Basalt

Element

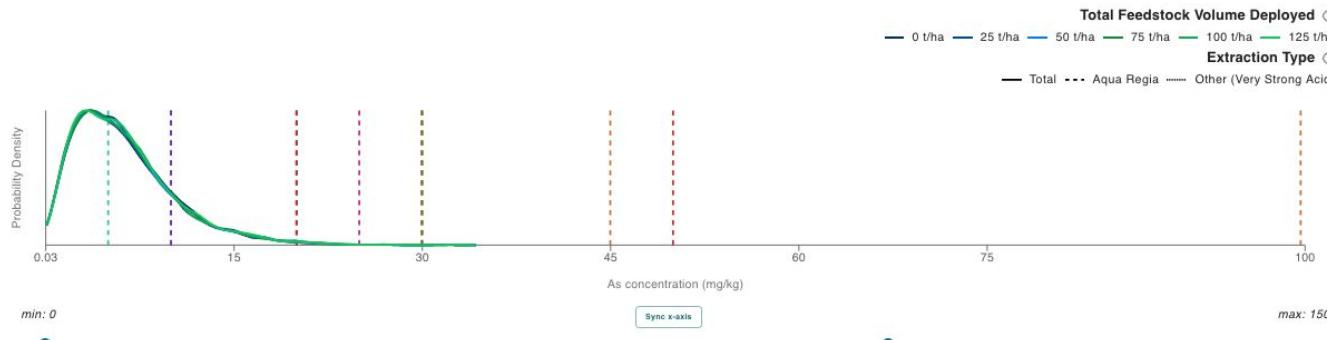
As

CALCULATE

Feedstock and soil As distributions ⓘ



Soil As after basalt application ⓘ



Regulations ⓘ

--- Finland, threshold value (5 mg/kg) --- Lithuania, agricultural soils (10 mg/kg) --- Slovakia, agricultural soils, sand (10 mg/kg) --- Australia (20 mg/kg) --- Austria, agricultural soils (20 mg/kg)

--- Slovakia, agricultural soils, loam (25 mg/kg) --- Czech Republic, agricultural light soils (30 mg/kg) --- Czech Republic, agricultural other soils (30 mg/kg) --- Slovakia, agricultural soils, clay (30 mg/kg)

--- Belgium (45 mg/kg) --- Finland, ecological risks (50 mg/kg) --- Finland, health risks (100 mg/kg)



Feedstock Type

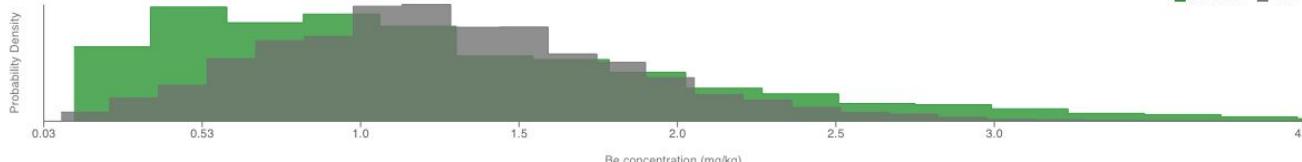
Basalt

Element

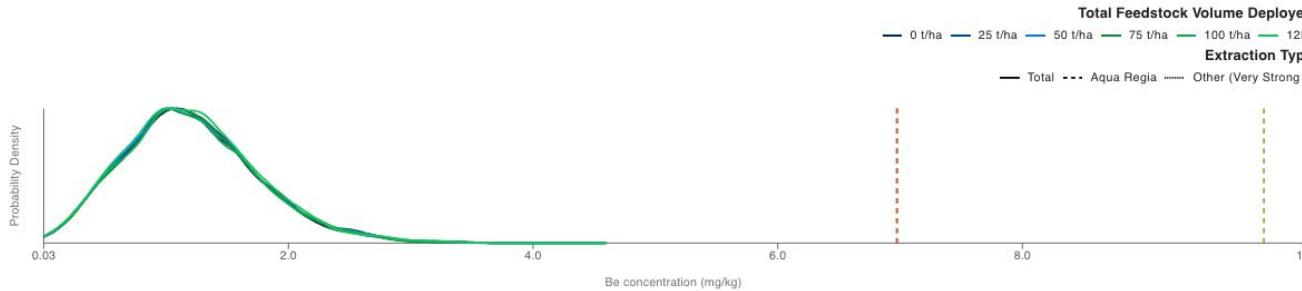
Be

CALCULATE

Feedstock and soil Be distributions ⓘ



Soil Be after basalt application ⓘ



Regulations ⓘ

--- Czech Republic, agricultural light soils (7 mg/kg) --- Czech Republic, agricultural other soils (7 mg/kg) --- Lithuania, agricultural soils (10 mg/kg)



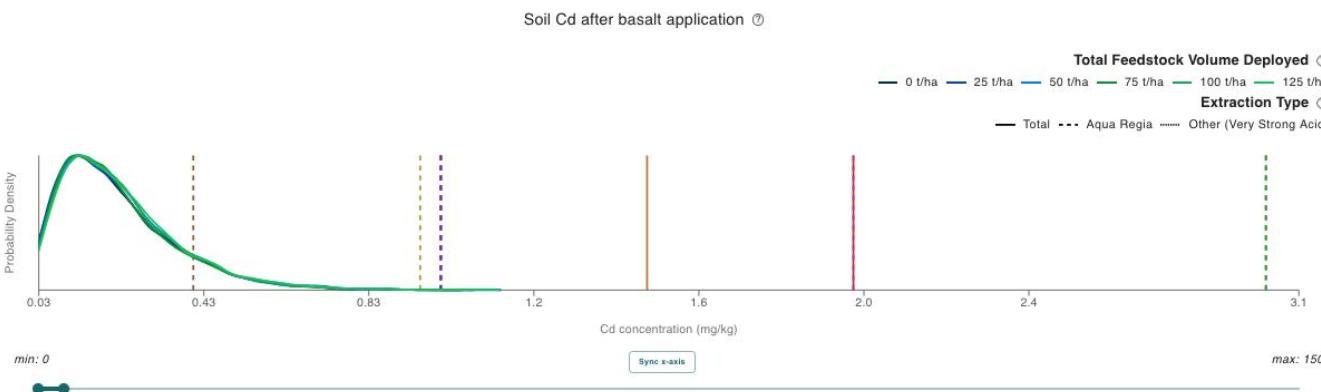
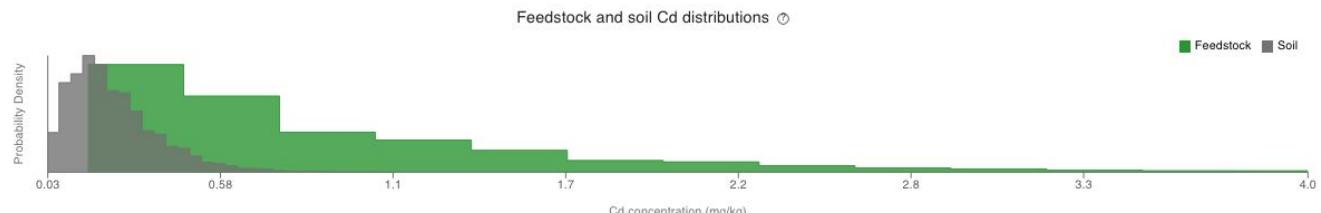
Feedstock Type

Basalt

Element

Cd

CALCULATE



Regulations ⓘ

--- Czech Republic, agricultural light soils (0.4 mg/kg) --- Germany (0.95 mg/kg) --- Czech Republic, agricultural other soils (1 mg/kg) --- Portugal, soil pH < 5.5 (1 mg/kg) --- Finland, threshold value (1 mg/kg)

--- Austria, agricultural soils (1 mg/kg) --- Italy (1.5 mg/kg) --- France (2 mg/kg) --- Belgium (2 mg/kg) --- Lithuania, agricultural soils (3 mg/kg) --- Portugal, soil pH 5.5 - 7 (3 mg/kg) --- Australia (3 mg/kg)

--- Portugal, soil pH > 7 (4 mg/kg) --- Finland, ecological risks (10 mg/kg) --- Finland, health risks (20 mg/kg) --- EPA, plants (32 mg/kg)



Feedstock Type

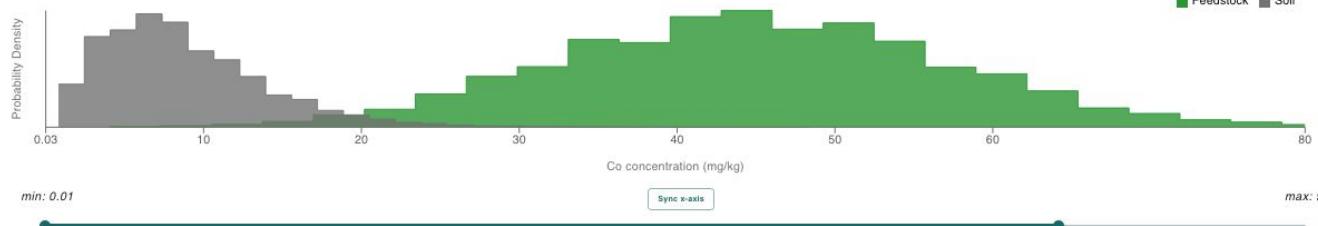
Basalt

Element

Co

CALCULATE

Feedstock and soil Co distributions ⓘ

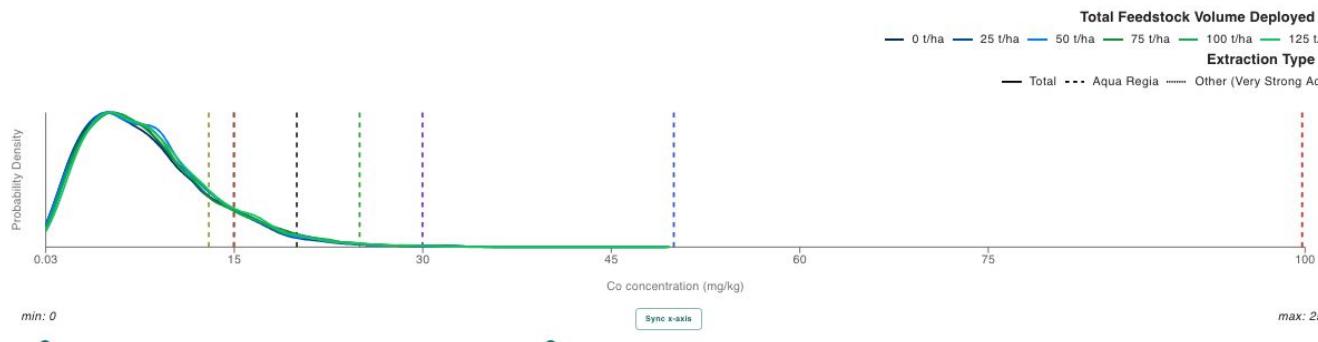


min: 0.01

Sync x-axis

max: 99

Soil Co after basalt application ⓘ



Regulations ⓘ

--- EPA, plants (13 mg/kg) --- Slovakia, agricultural soils, sand (15 mg/kg) --- Slovakia, agricultural soils, loam (15 mg/kg) --- Slovakia, agricultural soils, clay (20 mg/kg)

--- Czech Republic, agricultural light soils (25 mg/kg) --- Lithuania, agricultural soils (30 mg/kg) --- Czech Republic, agricultural other soils (50 mg/kg) --- Finland, ecological risks (100 mg/kg)

--- Finland, health risks (250 mg/kg)



Feedstock Type

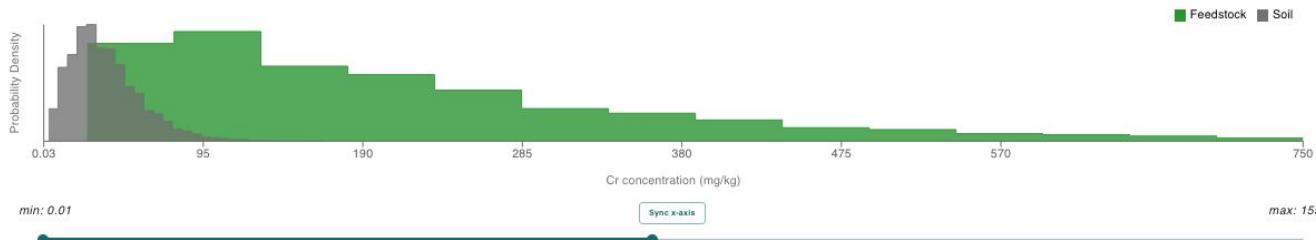
Basalt

Element

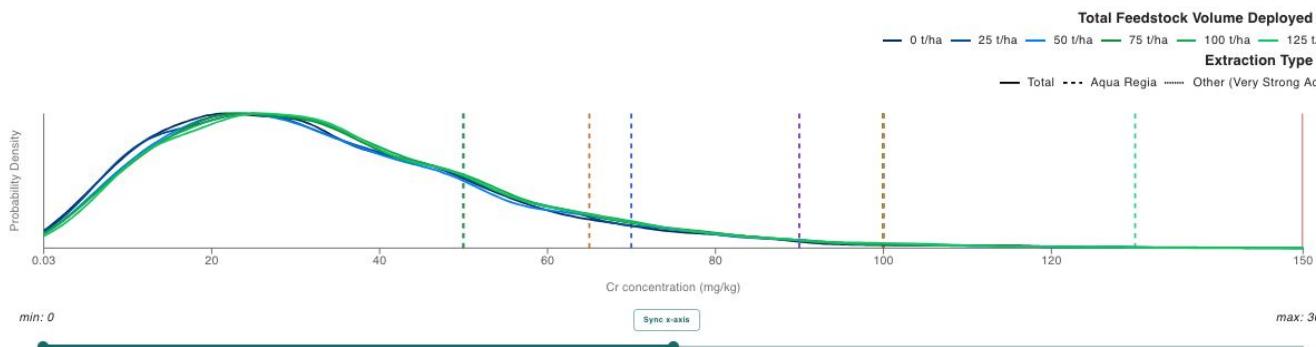
Cr

CALCULATE

Feedstock and soil Cr distributions ⓘ



Soil Cr after basalt application ⓘ



Regulations ⓘ

--- Portugal, soil pH <5.5 (50 mg/kg) --- Slovakia, agricultural soils, sand (50 mg/kg) --- Germany (65 mg/kg) --- Slovakia, agricultural soils, loam (70 mg/kg) --- Slovakia, agricultural soils, clay (90 mg/kg)

--- Finland, threshold value (100 mg/kg) --- Austria, agricultural soils (100 mg/kg) --- Czech Republic, agricultural light soils (100 mg/kg) --- Lithuania, agricultural soils (100 mg/kg) --- Belgium (130 mg/kg)

--- France (150 mg/kg) --- Finland, ecological risks (200 mg/kg) --- Portugal, soil pH 5.5 - 7 (200 mg/kg) --- Czech Republic, agricultural other soils (200 mg/kg) --- Finland, health risks (300 mg/kg)



Feedstock Type

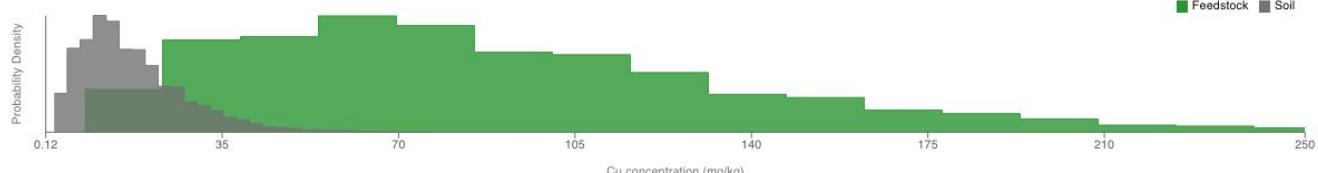
Basalt

Element

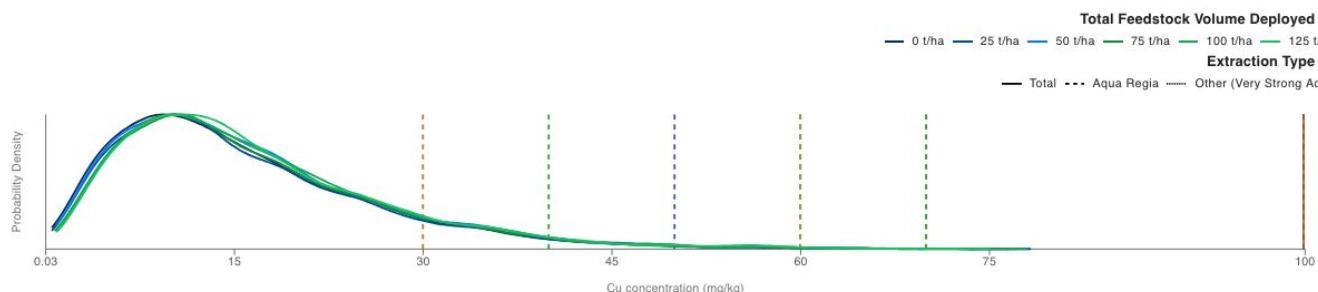
Cu

CALCULATE

Feedstock and soil Cu distributions ⓘ



Soil Cu after basalt application ⓘ



Regulations ⓘ

--- Slovakia, agricultural soils, sand (30 mg/kg) --- Germany (40 mg/kg) --- Portugal, soil pH < 5.5 (50 mg/kg) --- Czech Republic, agricultural light soils (60 mg/kg) --- Slovakia, agricultural soils, loam (60 mg/kg)

--- EPA, plants (70 mg/kg) --- Slovakia, agricultural soils, clay (70 mg/kg) --- France (100 mg/kg) --- Italy (100 mg/kg) --- Austria, agricultural soils (100 mg/kg)

--- Czech Republic, agricultural other soils (100 mg/kg) --- Lithuania, agricultural soils (100 mg/kg) --- Portugal, soil pH 5.5 - 7 (100 mg/kg) --- Australia (100 mg/kg) --- Finland, ecological risks (150 mg/kg)



Feedstock Type

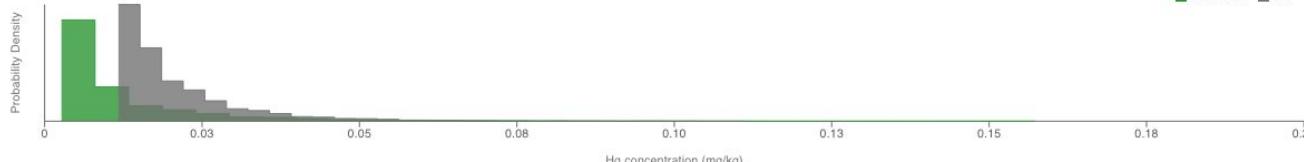
Basalt

Element

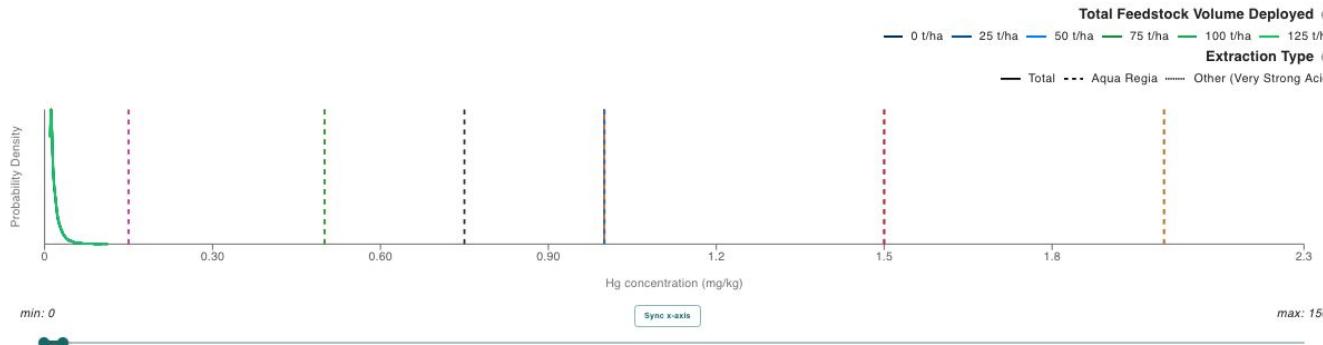
Hg

CALCULATE

Feedstock and soil Hg distributions ⓘ



Soil Hg after basalt application ⓘ



Regulations ⓘ

--- Slovakia, agricultural soils, sand (0.15 mg/kg) --- Slovakia, agricultural soils, loam (0.5 mg/kg) --- Finland, threshold value (0.5 mg/kg) --- Slovakia, agricultural soils, clay (0.75 mg/kg) --- France (1 mg/kg)

— Italy (1 mg/kg) --- Portugal, soil pH <5.5 (1 mg/kg) --- Australia (1 mg/kg) --- Austria, agricultural soils (1 mg/kg) --- Lithuania, agricultural soils (1.5 mg/kg) --- Portugal, soil pH 5.5 - 7 (1.5 mg/kg)

--- Finland, ecological risks (2 mg/kg) --- Portugal, soil pH >7 (2 mg/kg) --- Finland, health risks (5 mg/kg) --- Belgium (10 mg/kg)

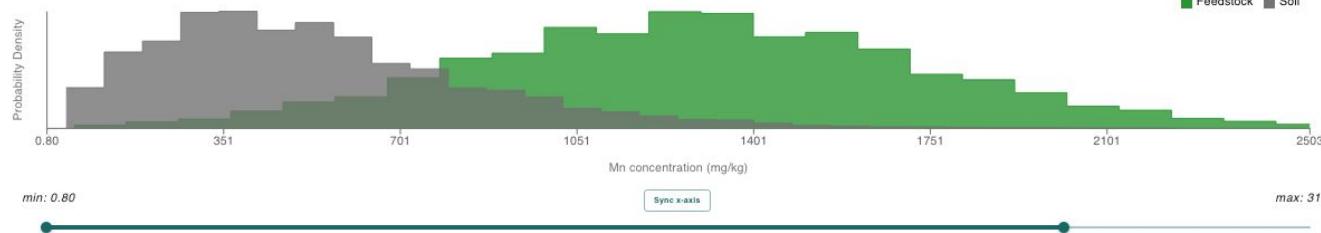


Feedstock Type

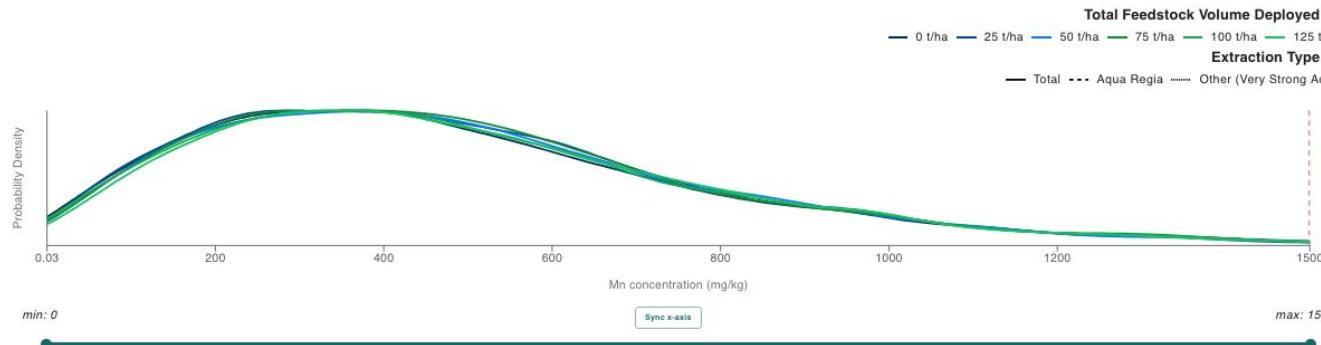
Element

CALCULATE

Feedstock and soil Mn distributions ⓘ



Soil Mn after basalt application ⓘ



Regulations ⓘ

--- Lithuania, agricultural soils (1500 mg/kg)



Feedstock Type

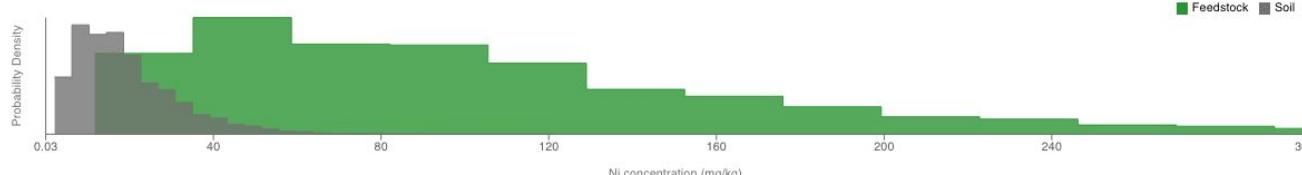
Basalt

Element

Ni

CALCULATE

Feedstock and soil Ni distributions ⓘ



min: 0.01

Sync x-axis



Feedstock Type

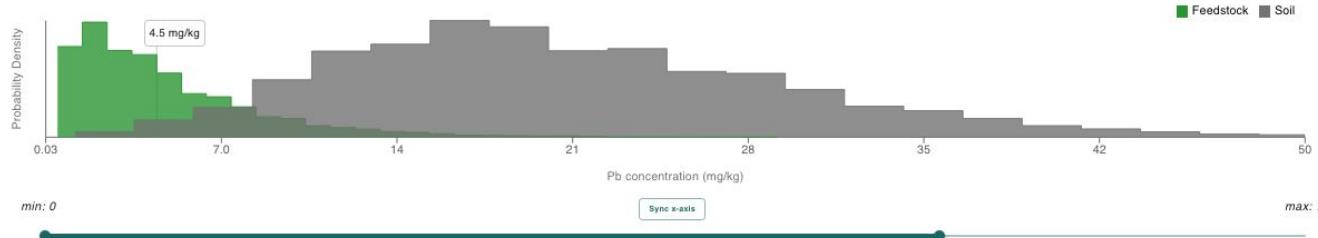
Basalt

Element

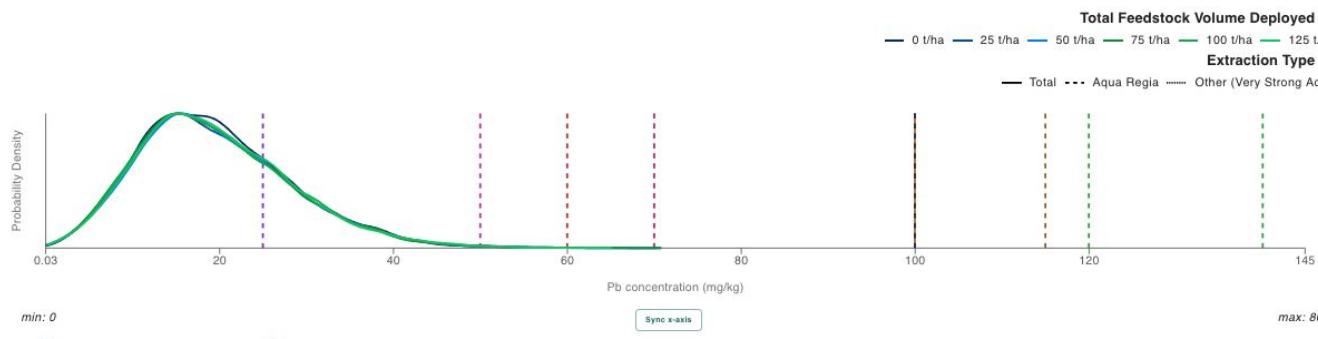
Pb

CALCULATE

Feedstock and soil Pb distributions ⓘ



Soil Pb after basalt application ⓘ



Regulations ⓘ

--- Slovakia, agricultural soils, sand (25 mg/kg) --- Portugal, soil pH <5.5 (50 mg/kg) --- Finland, threshold value (60 mg/kg) --- Germany (70 mg/kg) --- Slovakia, agricultural soils, loam (70 mg/kg)

--- France (100 mg/kg) --- Italy (100 mg/kg) --- Czech Republic, agricultural light soils (100 mg/kg) --- Lithuania, agricultural soils (100 mg/kg) --- Austria, agricultural soils (100 mg/kg)

--- Slovakia, agricultural soils, clay (115 mg/kg) --- EPA, plants (120 mg/kg) --- Czech Republic, agricultural other soils (140 mg/kg) --- Finland, ecological risks (200 mg/kg) --- Belgium (200 mg/kg)



Feedstock Type

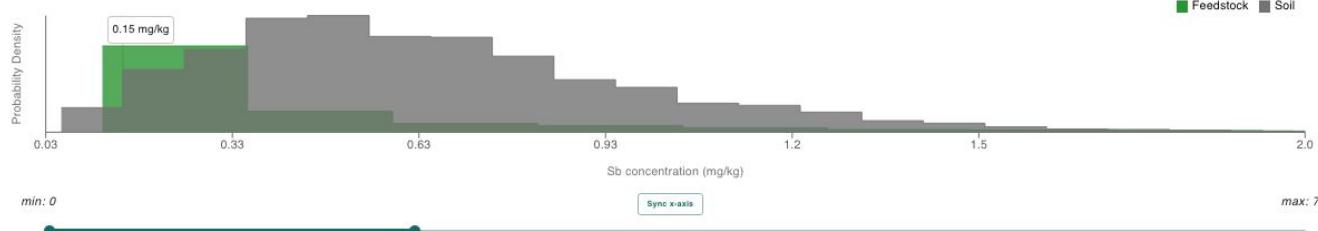
Basalt

Element

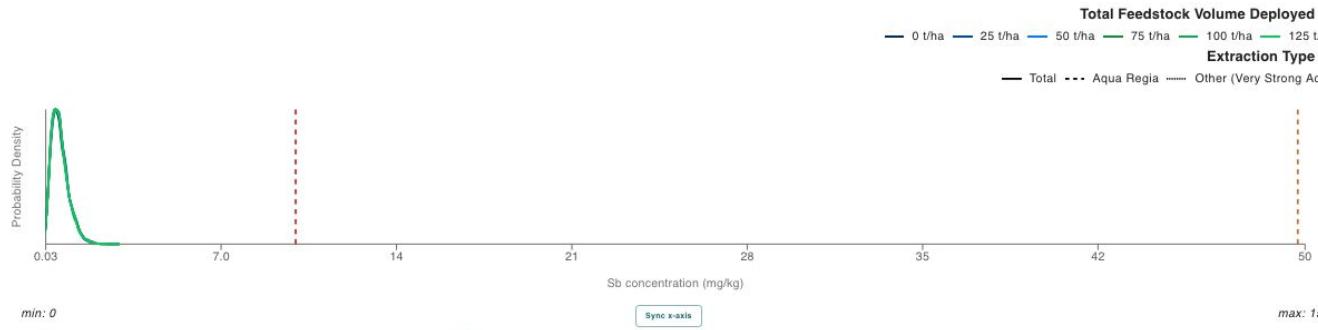
Sb

CALCULATE

Feedstock and soil Sb distributions ⓘ



Soil Sb after basalt application ⓘ



Regulations ⓘ

--- Finland, ecological risks (10 mg/kg) --- Finland, health risks (50 mg/kg)



Feedstock Type

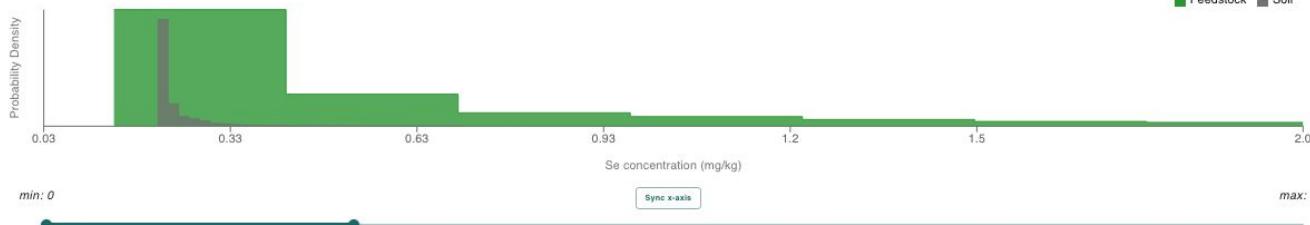
Basalt

Element

Se

CALCULATE

Feedstock and soil Se distributions ⓘ

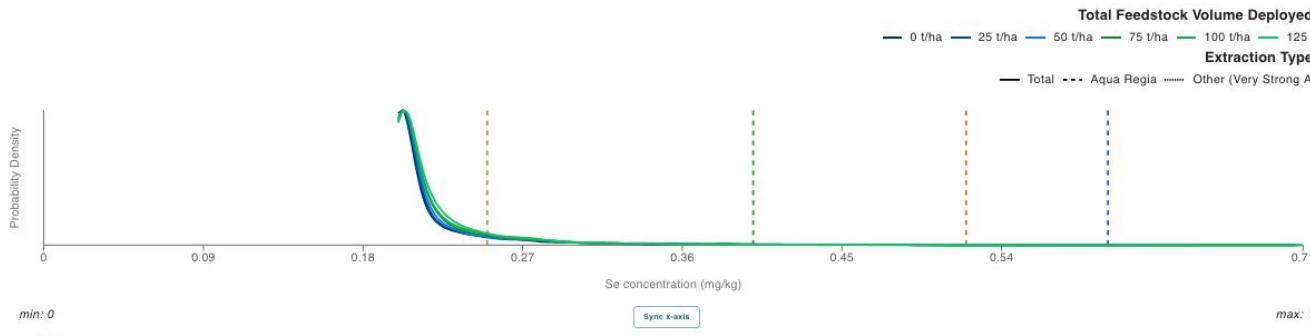


min: 0

Sync x-axis

max: 8.3

Soil Se after basalt application ⓘ



min: 0

Sync x-axis

max: 150

Regulations ⓘ

--- Slovakia, agricultural soils, sand (0.25 mg/kg) --- Slovakia, agricultural soils, loam (0.4 mg/kg) --- EPA, plants (0.52 mg/kg) --- Slovakia, agricultural soils, clay (0.6 mg/kg) --- Lithuania, agricultural soils (5 mg/kg)



Feedstock Type

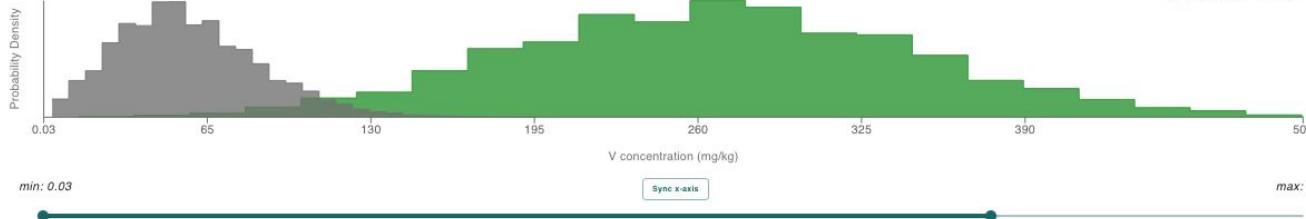
Basalt

Element

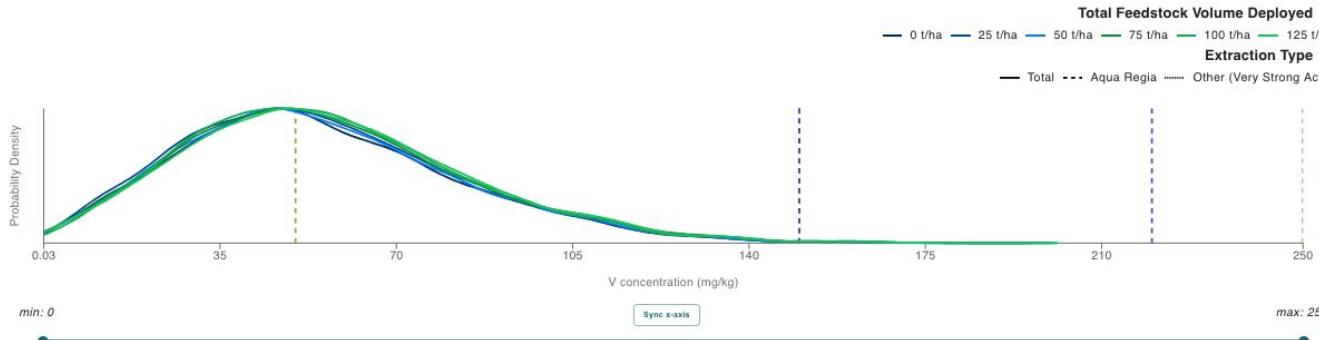
V

CALCULATE

Feedstock and soil V distributions ⓘ



Soil V after basalt application ⓘ



Regulations ⓘ

--- Austria, agricultural soils (50 mg/kg) --- Finland, ecological risks (150 mg/kg) --- Czech Republic, agricultural light soils (150 mg/kg) --- Lithuania, agricultural soils (150 mg/kg)

--- Czech Republic, agricultural other soils (220 mg/kg) --- Finland, health risks (250 mg/kg)



Feedstock Type

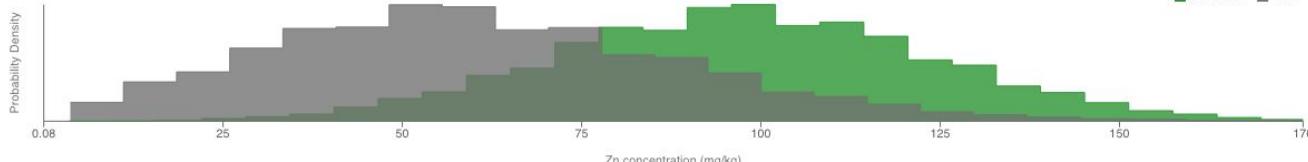
Basalt

Element

Zn

CALCULATE

Feedstock and soil Zn distributions ⓘ



min: 0.08

Sync x-axis

max: 222

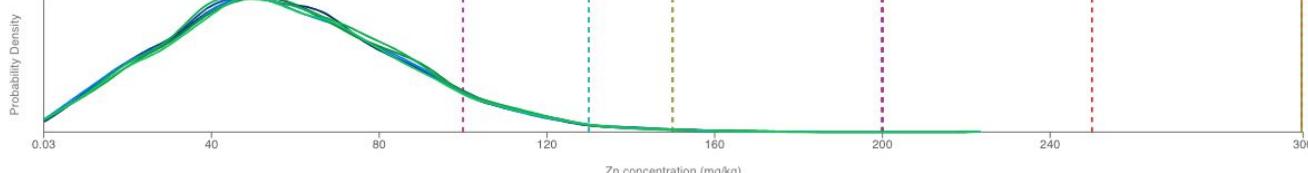
Soil Zn after basalt application ⓘ

Total Feedstock Volume Deployed ⓘ

— 0 t/ha — 25 t/ha — 50 t/ha — 75 t/ha — 100 t/ha — 125 t/ha

Extraction Type ⓘ

— Total — Aqua Regia — Other (Very Strong Acid)



min: 0

Sync x-axis

max: 600

Regulations ⓘ

--- Slovakia, agricultural soils, sand (100 mg/kg) --- Czech Republic, agricultural light soils (130 mg/kg) --- Germany (130 mg/kg) --- Slovakia, agricultural soils, loam (150 mg/kg)

--- Portugal, soil pH <5.5 (150 mg/kg) --- Czech Republic, agricultural other soils (200 mg/kg) --- Slovakia, agricultural soils, clay (200 mg/kg) --- Australia (200 mg/kg) --- Finland, threshold value (200 mg/kg)

--- Finland, ecological risks (250 mg/kg) — France (300 mg/kg) — Italy (300 mg/kg) --- Austria, agricultural soils (300 mg/kg) --- Portugal, soil pH 5.5 - 7 (300 mg/kg) --- Austria, agricultural soils (300 mg/kg)



Feedstock Type

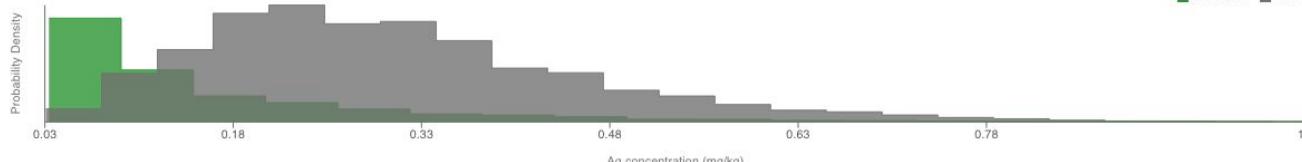
Peridotite

Element

Ag

CALCULATE

Feedstock and soil Ag distributions ⓘ



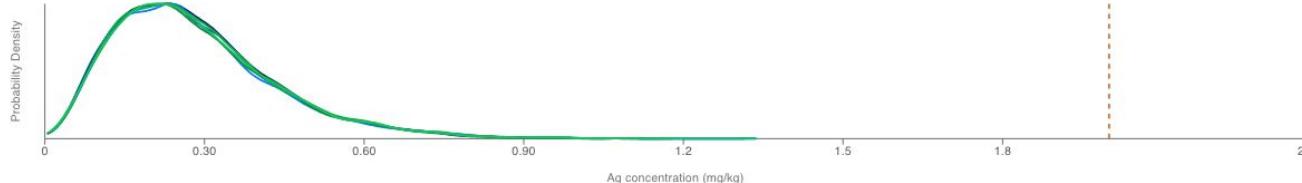
Feedstock Soil

min: 0

Sync x-axis

max: 1.7

Soil Ag after peridotite application ⓘ



Total Feedstock Volume Deployed ⓘ

— 0 t/ha — 5 t/ha — 10 t/ha — 15 t/ha — 20 t/ha — 25 t/ha

Extraction Type ⓘ

— Total --- Aqua Regia ---- Other (Very Strong Acid)

min: 0

Sync x-axis

max: 600

Regulations ⓘ

--- Lithuania, agricultural soils (2 mg/kg) --- EPA, plants (560 mg/kg)



Feedstock Type

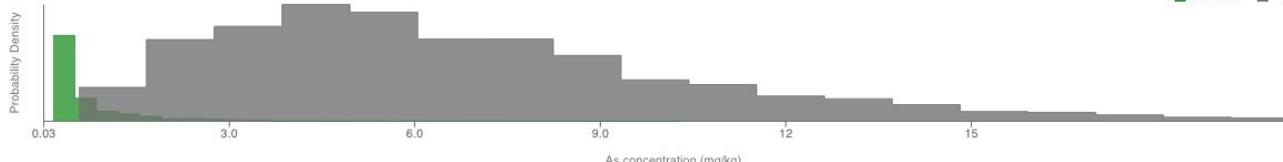
Peridotite

Element

As

CALCULATE

Feedstock and soil As distributions ⓘ

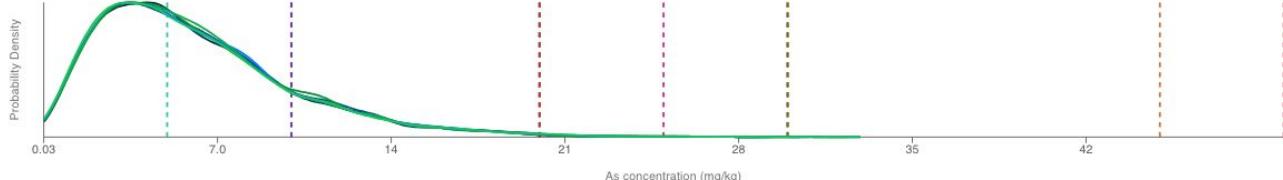


min: 0

Sync x-axis

max: 33

Soil As after peridotite application ⓘ



min: 0

Sync x-axis

max: 150

Regulations ⓘ

--- Finland, threshold value (5 mg/kg) --- Lithuania, agricultural soils (10 mg/kg) --- Slovakia, agricultural soils, sand (10 mg/kg) --- Australia (20 mg/kg) --- Austria, agricultural soils (20 mg/kg)

--- Slovakia, agricultural soils, loam (25 mg/kg) --- Czech Republic, agricultural light soils (30 mg/kg) --- Czech Republic, agricultural other soils (30 mg/kg) --- Slovakia, agricultural soils, clay (30 mg/kg)

--- Belgium (45 mg/kg) --- Finland, ecological risks (50 mg/kg) --- Finland, health risks (100 mg/kg)

Total Feedstock Volume Deployed ⓘ

--- 0 t/ha --- 5 t/ha --- 10 t/ha --- 15 t/ha --- 20 t/ha --- 25 t/ha

Extraction Type ⓘ

--- Total --- Aqua Regia --- Other (Very Strong Acid)



Feedstock Type

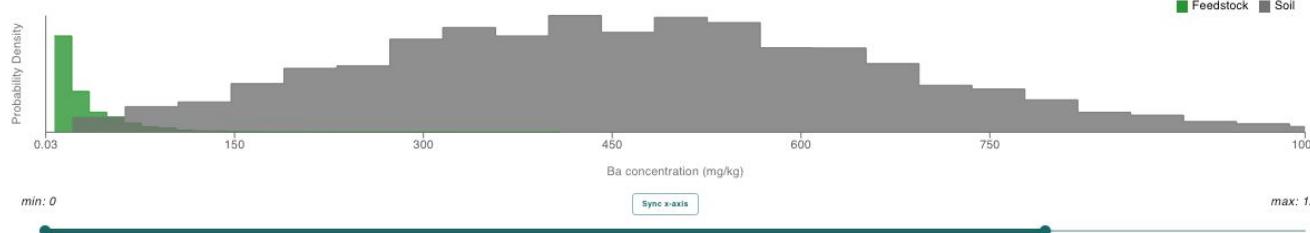
Peridotite

Element

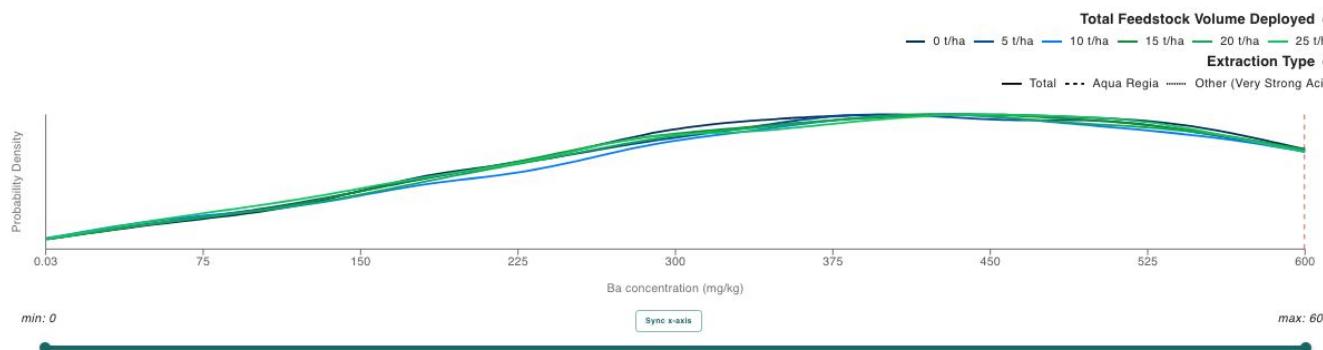
Ba

CALCULATE

Feedstock and soil Ba distributions ⓘ



Soil Ba after peridotite application ⓘ



Regulations ⓘ

--- Lithuania, agricultural soils (600 mg/kg)



Feedstock Type

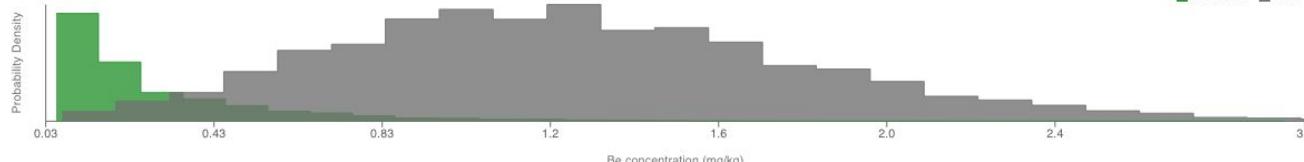
Peridotite

Element

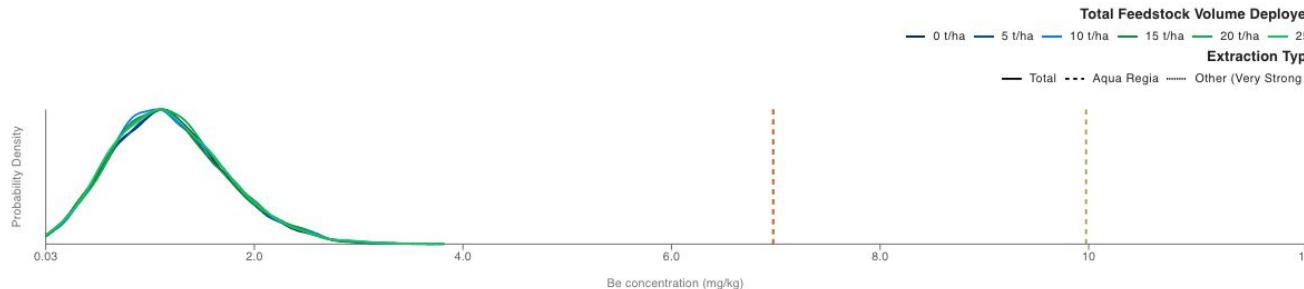
Be

CALCULATE

Feedstock and soil Be distributions ⓘ



Soil Be after peridotite application ⓘ



Regulations ⓘ

--- Czech Republic, agricultural light soils (7 mg/kg) --- Czech Republic, agricultural other soils (7 mg/kg) --- Lithuania, agricultural soils (10 mg/kg)



Feedstock Type

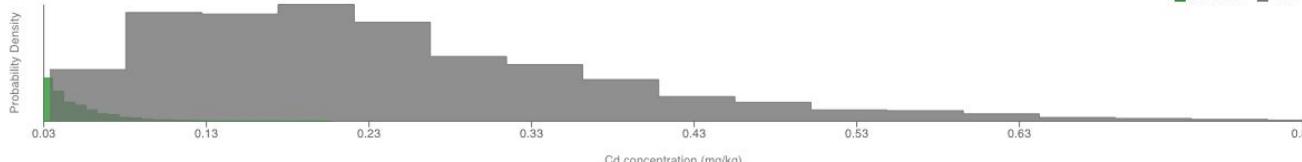
Peridotite

Element

Cd

CALCULATE

Feedstock and soil Cd distributions ⓘ



min: 0

Sync x-axis



Feedstock Type

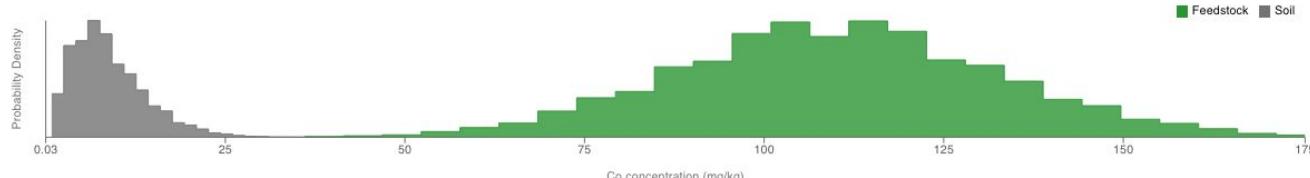
Peridotite

Element

Co

CALCULATE

Feedstock and soil Co distributions ⓘ

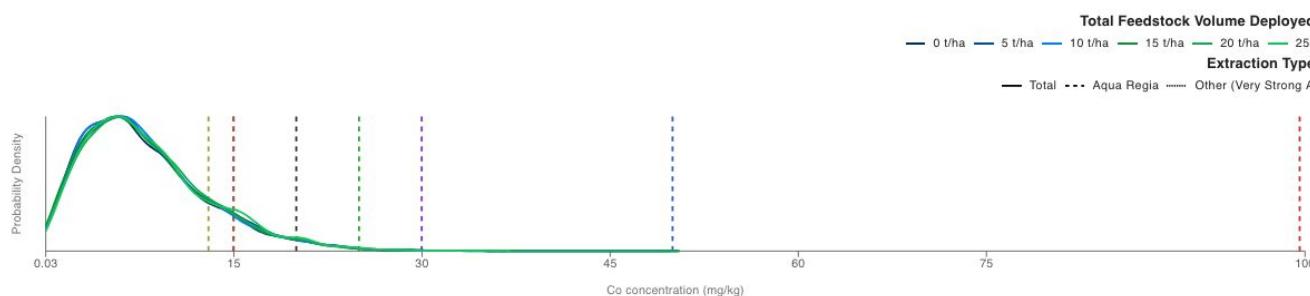


min: 0.01

Sync x-axis

max: 196

Soil Co after peridotite application ⓘ



Regulations ⓘ

--- EPA, plants (13 mg/kg) --- Slovakia, agricultural soils, sand (15 mg/kg) --- Slovakia, agricultural soils, loam (15 mg/kg) --- Slovakia, agricultural soils, clay (20 mg/kg)

--- Czech Republic, agricultural light soils (25 mg/kg) --- Lithuania, agricultural soils (30 mg/kg) --- Czech Republic, agricultural other soils (50 mg/kg) --- Finland, ecological risks (100 mg/kg)

--- Finland, health risks (250 mg/kg)

Total Feedstock Volume Deployed ⓘ

— 0 t/ha — 5 t/ha — 10 t/ha — 15 t/ha — 20 t/ha — 25 t/ha

Extraction Type ⓘ

— Total --- Aqua Regia ----- Other (Very Strong Acid)



Feedstock Type

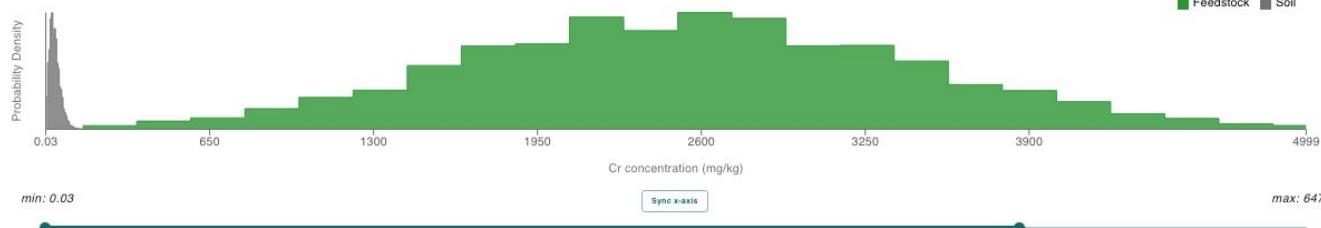
Peridotite

Element

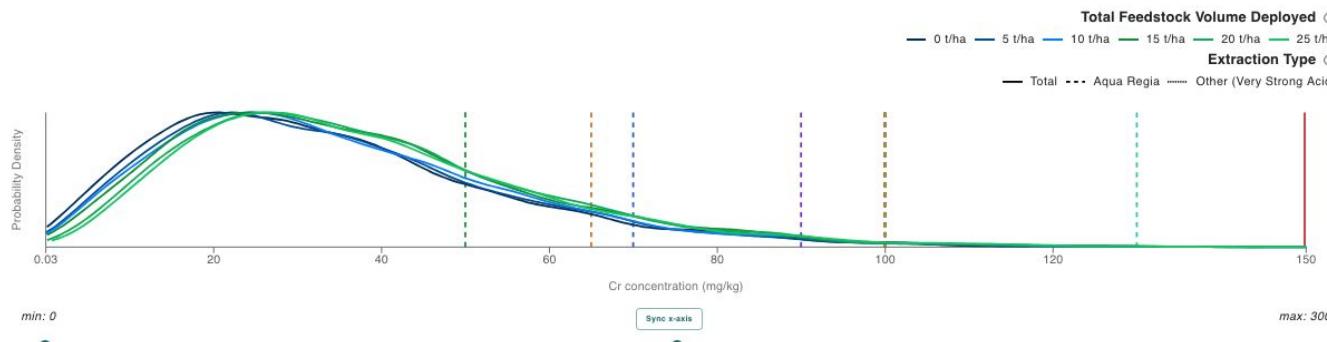
Cr

CALCULATE

Feedstock and soil Cr distributions ⓘ



Soil Cr after peridotite application ⓘ



Regulations ⓘ

Portugal, soil pH <5.5 (50 mg/kg) --- Slovakia, agricultural soils, sand (50 mg/kg) --- Germany (65 mg/kg) --- Slovakia, agricultural soils, loam (70 mg/kg) --- Slovakia, agricultural soils, clay (90 mg/kg)

Finland, threshold value (100 mg/kg) --- Austria, agricultural soils (100 mg/kg) --- Czech Republic, agricultural light soils (100 mg/kg) --- Lithuania, agricultural soils (100 mg/kg) --- Belgium (130 mg/kg)

France (150 mg/kg) --- Finland, ecological risks (200 mg/kg) --- Portugal, soil pH 5.5 - 7 (200 mg/kg) --- Czech Republic, agricultural other soils (200 mg/kg) --- Finland, health risks (300 mg/kg)



Feedstock Type

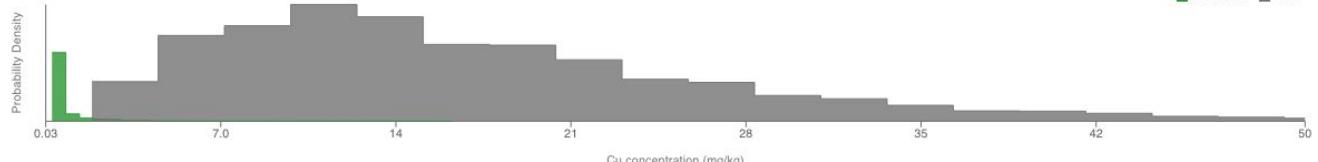
Peridotite

Element

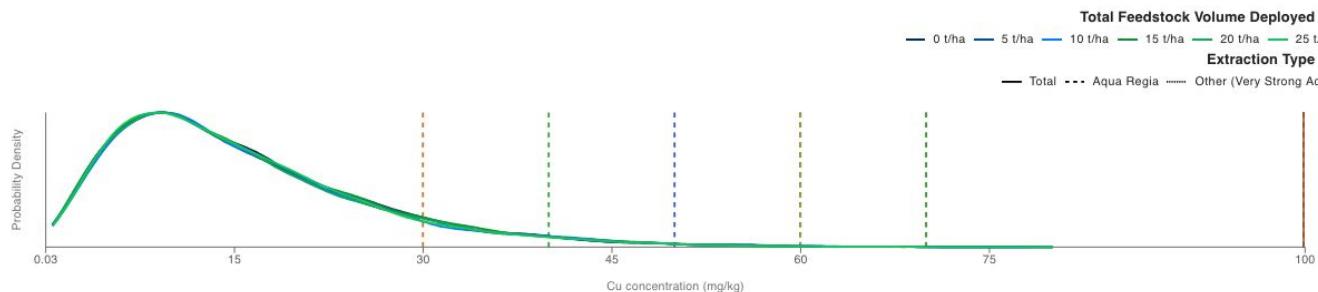
Cu

CALCULATE

Feedstock and soil Cu distributions ⓘ



Soil Cu after peridotite application ⓘ



Regulations ⓘ

--- Slovakia, agricultural soils, sand (30 mg/kg) --- Germany (40 mg/kg) --- Portugal, soil pH < 5.5 (50 mg/kg) --- Czech Republic, agricultural light soils (60 mg/kg) --- Slovakia, agricultural soils, loam (60 mg/kg)

--- EPA, plants (70 mg/kg) --- Slovakia, agricultural soils, clay (70 mg/kg) --- France (100 mg/kg) --- Italy (100 mg/kg) --- Austria, agricultural soils (100 mg/kg)

--- Czech Republic, agricultural other soils (100 mg/kg) --- Lithuania, agricultural soils (100 mg/kg) --- Portugal, soil pH 5.5 - 7 (100 mg/kg) --- Australia (100 mg/kg) --- Finland, ecological risks (150 mg/kg)



Feedstock Type

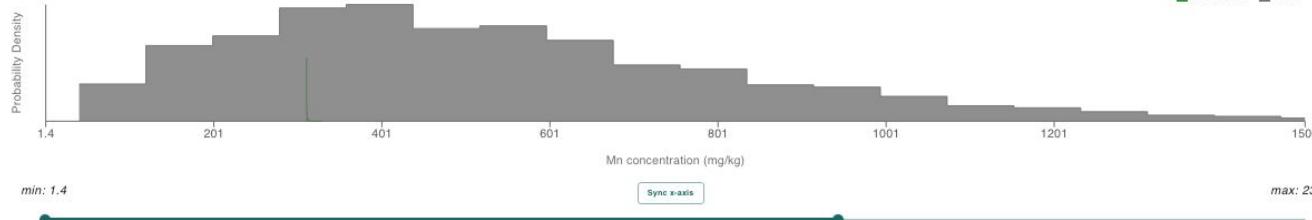
Peridotite

Element

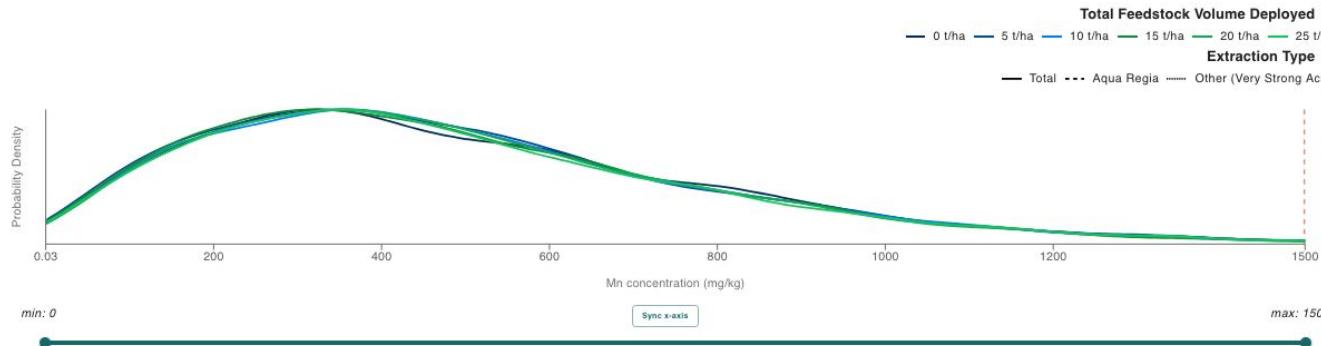
Mn

CALCULATE

Feedstock and soil Mn distributions ⓘ



Soil Mn after peridotite application ⓘ



Regulations ⓘ

--- Lithuania, agricultural soils (1500 mg/kg)



Feedstock Type

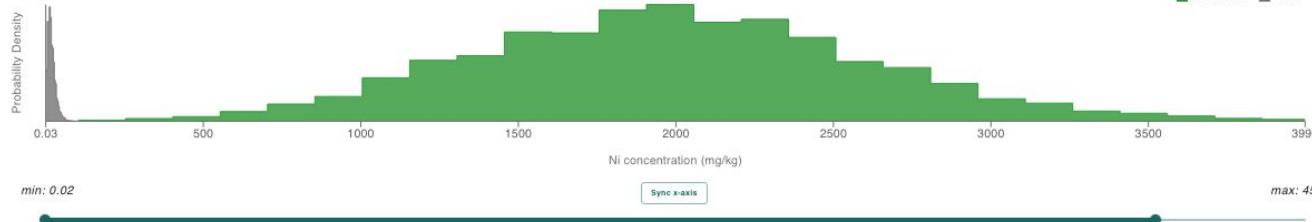
Peridotite

Element

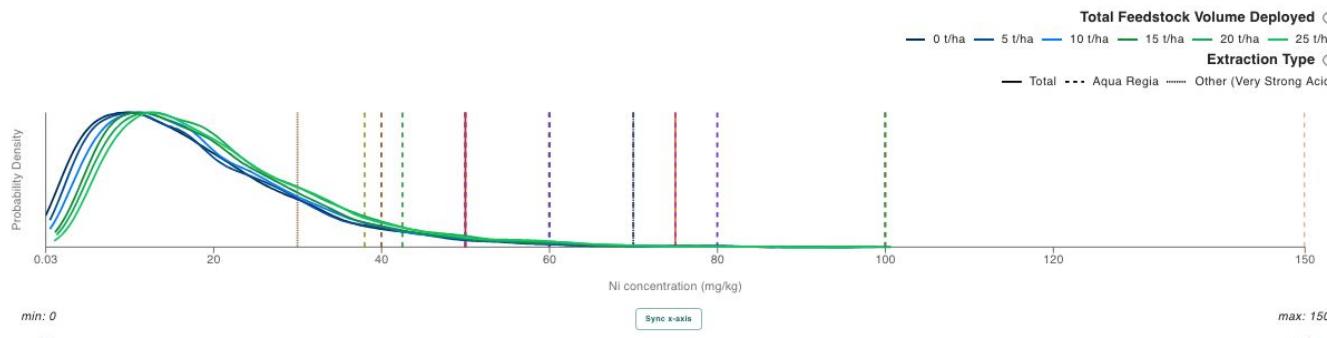
Ni

CALCULATE

Feedstock and soil Ni distributions ⓘ



Soil Ni after peridotite application ⓘ



Regulations ⓘ

..... Brazil, prevention value (30 mg/kg) --- EPA, plants (38 mg/kg) --- Slovakia, agricultural soils, sand (40 mg/kg) --- Germany (42.5 mg/kg) — France (50 mg/kg) --- Slovakia, agricultural soils, loam (50 mg/kg)

--- Finland, threshold value (50 mg/kg) --- Czech Republic, agricultural light soils (60 mg/kg) --- Slovakia, agricultural soils, clay (60 mg/kg) --- Austria, agricultural soils (60 mg/kg) --- Australia (60 mg/kg)

--- Portugal (70 mg/kg) ----- Brazil, threshold value (70 mg/kg) — Italy (75 mg/kg) --- Lithuania, agricultural soils (75 mg/kg) --- Czech Republic, agricultural other soils (80 mg/kg)



Feedstock Type

Peridotite

Element

Pb

CALCULATE

Feedstock and soil Pb distributions ⓘ



min: 0

Sync x-axis

max: 66

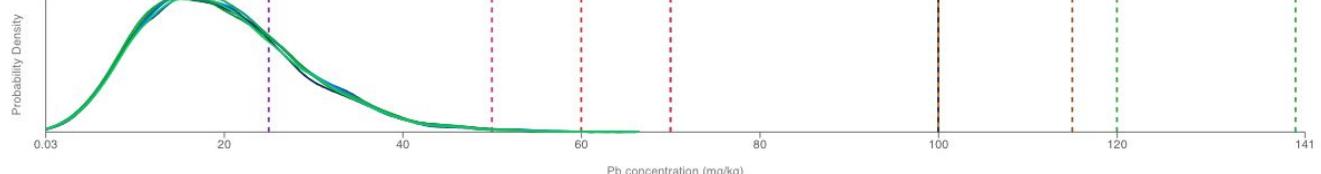
Soil Pb after peridotite application ⓘ

Total Feedstock Volume Deployed ⓘ

— 0 t/ha — 5 t/ha — 10 t/ha — 15 t/ha — 20 t/ha — 25 t/ha

Extraction Type ⓘ

— Total --- Aqua Regia ----- Other (Very Strong Acid)



Regulations ⓘ

--- Slovakia, agricultural soils, sand (25 mg/kg) --- Portugal, soil pH <5.5 (50 mg/kg) --- Finland, threshold value (60 mg/kg) --- Germany (70 mg/kg) --- Slovakia, agricultural soils, loam (70 mg/kg)

--- France (100 mg/kg) --- Italy (100 mg/kg) --- Czech Republic, agricultural light soils (100 mg/kg) --- Lithuania, agricultural soils (100 mg/kg) --- Austria, agricultural soils (100 mg/kg)

--- Slovakia, agricultural soils, clay (115 mg/kg) --- EPA, plants (120 mg/kg) --- Czech Republic, agricultural other soils (140 mg/kg) --- Finland, ecological risks (200 mg/kg) --- Belgium (200 mg/kg)



Feedstock Type

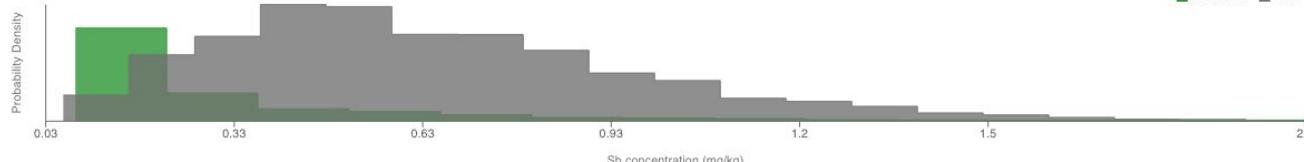
Peridotite

Element

Sb

CALCULATE

Feedstock and soil Sb distributions ⓘ

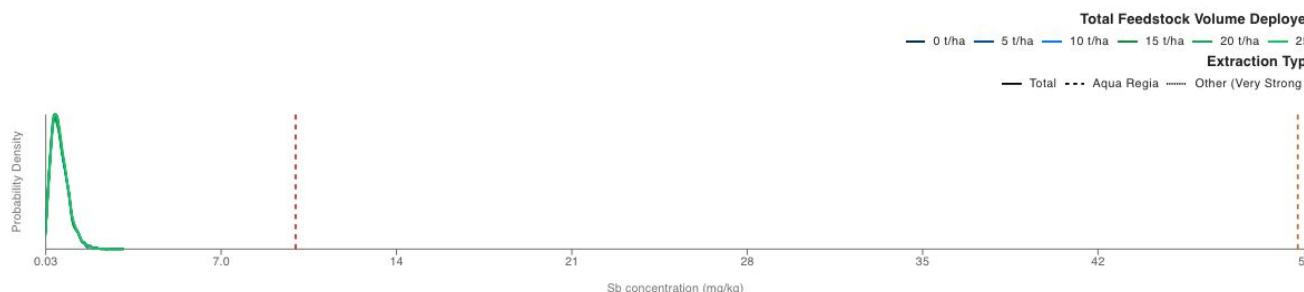


min: 0

Sync x-axis

max: 4.4

Soil Sb after peridotite application ⓘ



min: 0

Sync x-axis

max: 150

Regulations ⓘ

--- Finland, ecological risks (10 mg/kg) --- Finland, health risks (50 mg/kg)

Total Feedstock Volume Deployed ⓘ

— 0 t/ha — 5 t/ha — 10 t/ha — 15 t/ha — 20 t/ha — 25 t/ha

Extraction Type ⓘ

— Total --- Aqua Regia ----- Other (Very Strong Acid)

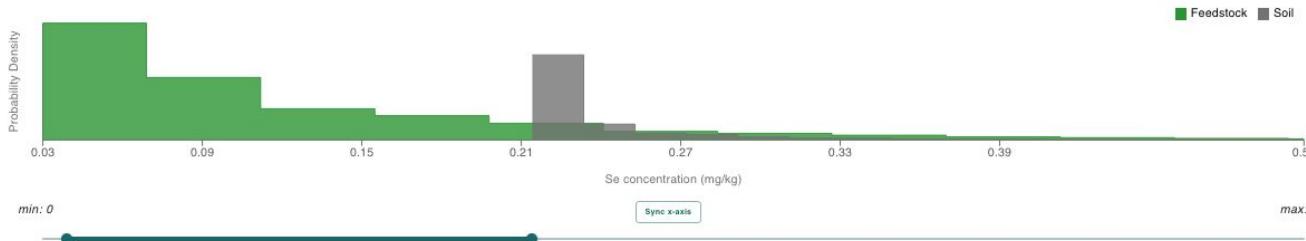


- Feedstock Type -

Element
Se

CALCULATE

Feedstock and soil Se distributions



Soil Se after peridotite application

Total Feedstock Volume Deployed

— 0 t/ha — 5 t/ha — 10 t/ha — 15 t/ha — 20 t/ha — 25 t/ha

Extraction Type

— Total --- Aqua Regia Other (Very Strong Acid)



Regulations ?

--- Slovakia, agricultural soils, sand (0.25 me/ha) --- Slovakia, agricultural soils, loam (0.4 me/ha) --- EPA, plants (0.52 me/ha) --- Slovakia, agricultural soils, clay (0.6 me/ha) --- Lithuania, agricultural soils (5 me/ha)



Feedstock Type

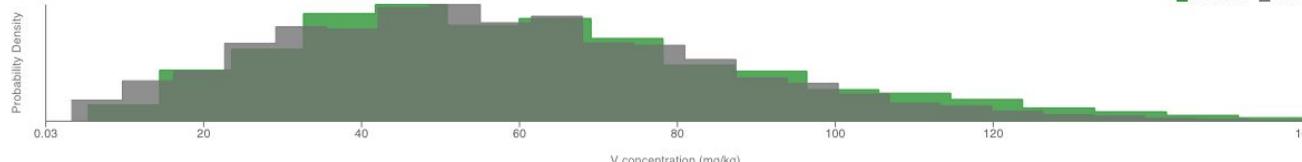
Peridotite

Element

V

CALCULATE

Feedstock and soil V distributions ⓘ



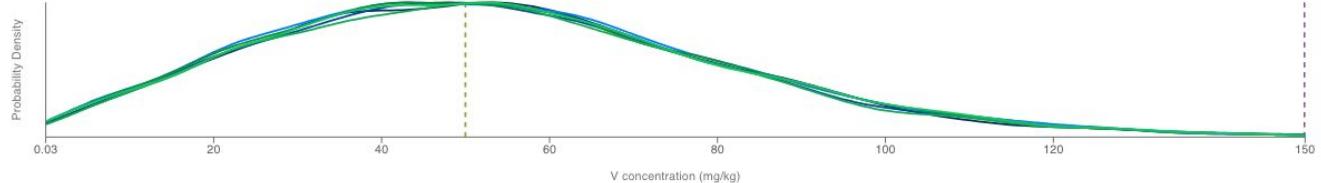
Soil V after peridotite application ⓘ

Total Feedstock Volume Deployed ⓘ

0 t/ha 5 t/ha 10 t/ha 15 t/ha 20 t/ha 25 t/ha

Extraction Type ⓘ

Total --- Aqua Regia ----- Other (Very Strong Acid)



Regulations ⓘ

--- Austria, agricultural soils (50 mg/kg) --- Finland, ecological risks (150 mg/kg) --- Czech Republic, agricultural light soils (150 mg/kg) --- Lithuania, agricultural soils (150 mg/kg)

--- Czech Republic, agricultural other soils (220 mg/kg) --- Finland, health risks (250 mg/kg)



Feedstock Type

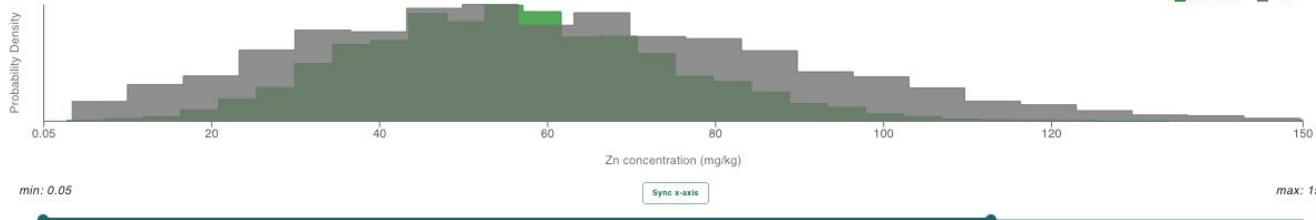
Peridotite

Element

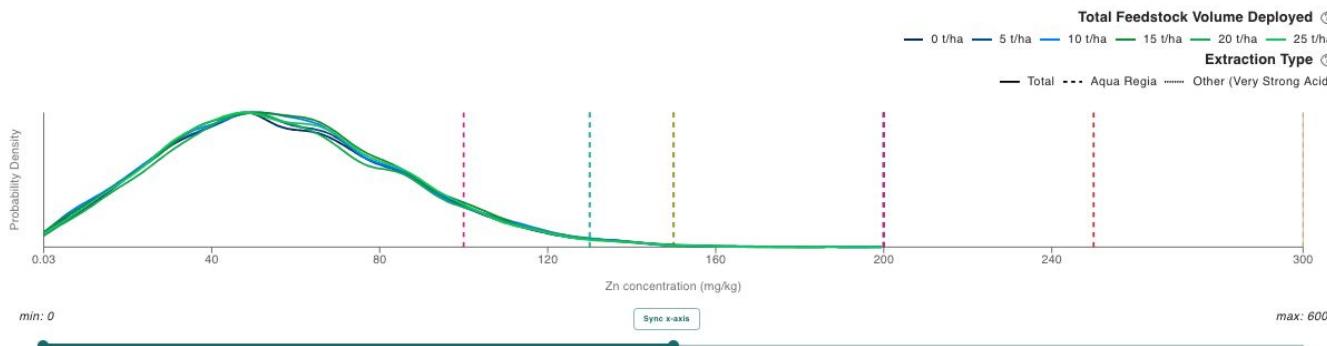
Zn

CALCULATE

Feedstock and soil Zn distributions ⓘ



Soil Zn after peridotite application ⓘ



Regulations ⓘ

--- Slovakia, agricultural soils, sand (100 mg/kg) --- Czech Republic, agricultural light soils (130 mg/kg) --- Germany (130 mg/kg) --- Slovakia, agricultural soils, loam (150 mg/kg)

--- Portugal, soil pH <5.5 (150 mg/kg) --- Czech Republic, agricultural other soils (200 mg/kg) --- Slovakia, agricultural soils, clay (200 mg/kg) --- Australia (200 mg/kg) --- Finland, threshold value (200 mg/kg)

--- Finland, ecological risks (250 mg/kg) --- France (300 mg/kg) --- Italy (300 mg/kg) --- Austria, agricultural soils (300 mg/kg) --- Portugal, soil pH 5.5 - 7 (300 mg/kg) --- Austria, agricultural soils (300 mg/kg)