

Provincia Autonoma di Trento



# Comune di Levico Terme

MAPPATURA AMBIENTALE DEL CONTENUTO  
IN METALLI DEL TERRENO  
AL FINE DELLA DEFINIZIONE DEL FONDO NATURALE  
IN PARTE DEL TERRITORIO COMUNALE DI LEVICO TERME

## Allegato 1

Report grafici relativi alle concentrazioni di metalli

Dicembre 2007



Studio di Geologia – dott. Paolo Passardi

WSCstudio – ing. Giorgio Marcazzan – ing. Mirko  
Tovazzi

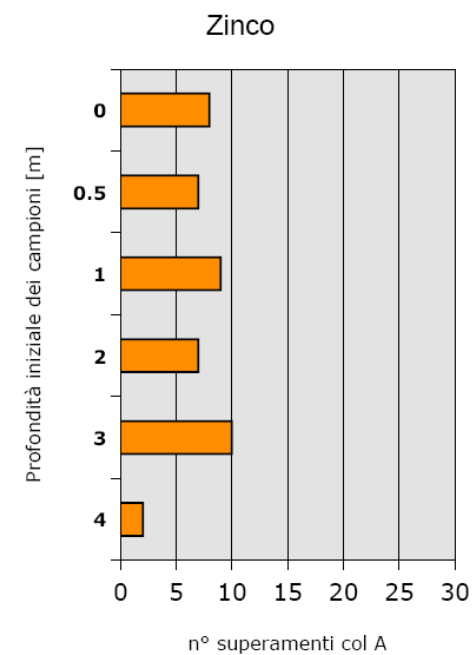
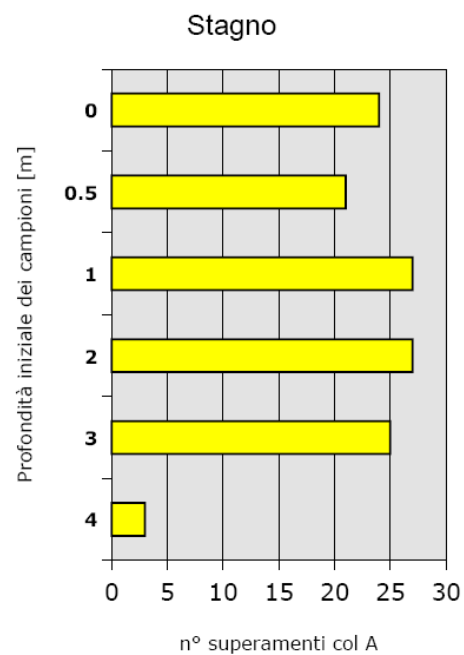
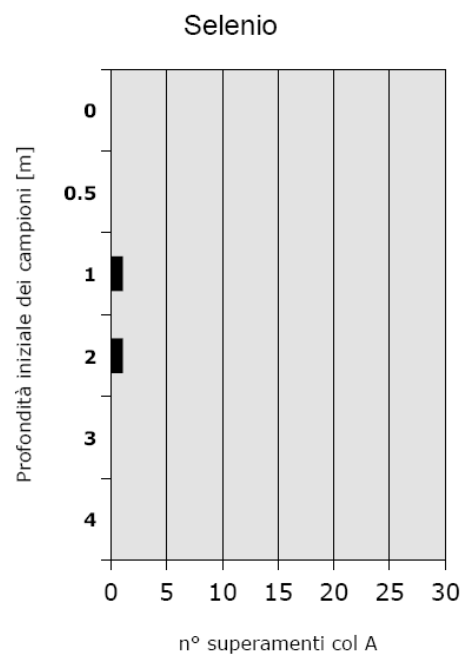
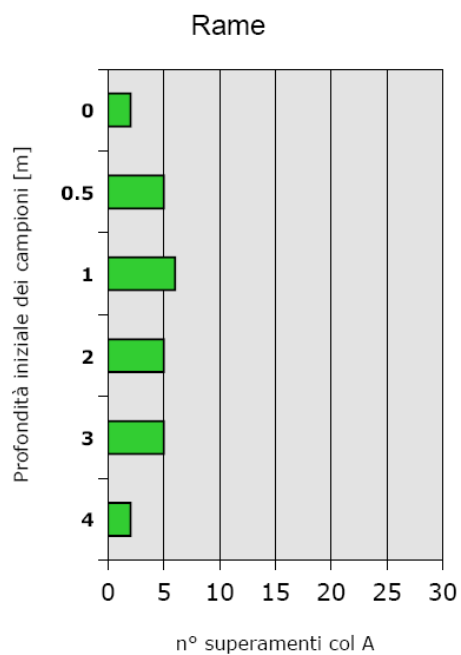
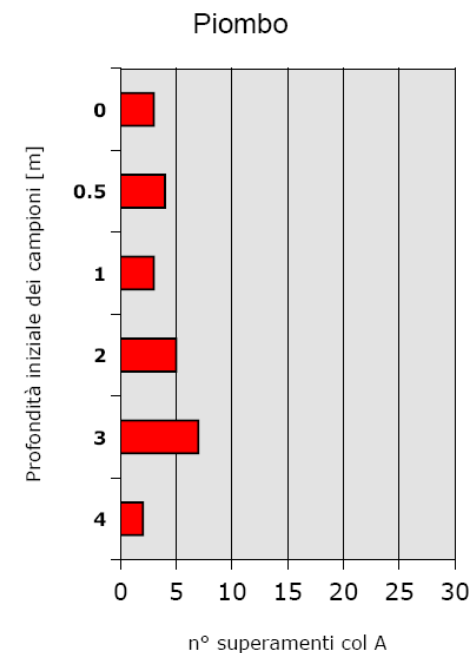
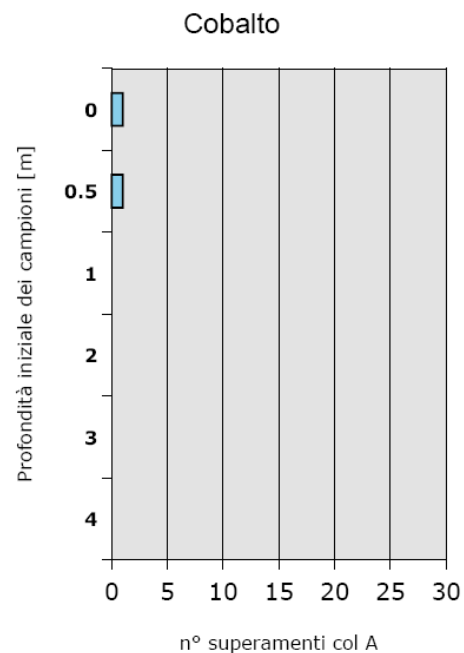
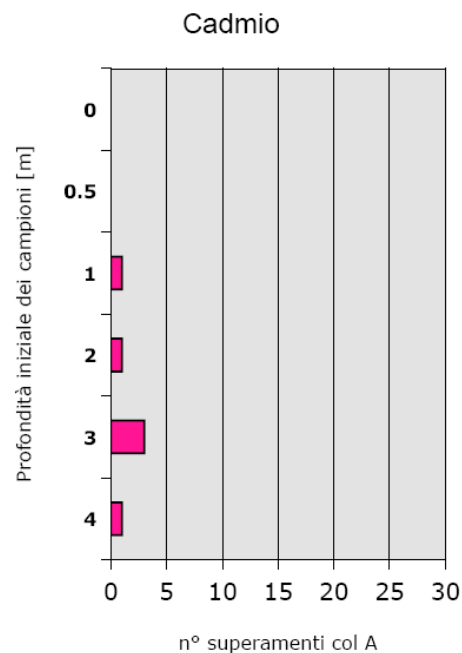
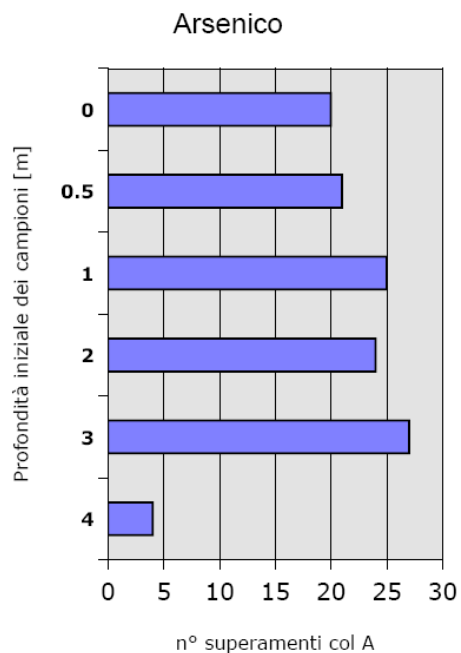
## Contenuti

I grafici successivamente riportati rappresentano la sintesi dei dati analitici relativi alla definizione del fondo naturale del comune di Levico per i 32 sondaggi effettuati. Sono rappresentate le sole sostanze che hanno fatto rilevare (almeno in un campione analitico) superamenti delle concentrazioni soglia di contaminazione (CSC) per i terreni previste dal d.lgs. 152/06 colonna A, ovvero: **Arsenico, Cadmio, Cobalto, Piombo, Rame, Selenio, Stagno, Zinco**. Le concentrazioni rilevate e i dati elaborati sono rappresentati in funzione delle profondità dei sondaggi (nei grafici sono indicate sulla verticale le profondità iniziali). Nei grafici rappresentati non sono stati considerati i valori risultati al di sotto dei limiti di rilevabilità, peraltro relativi al solo caso del selenio. Si segnala inoltre che, tra i 4 ed i 5 metri di profondità, sono stati analizzati solo 4 campioni e che quindi i dati per tale strato non sono rappresentativi.

I grafici riportati rappresentano:

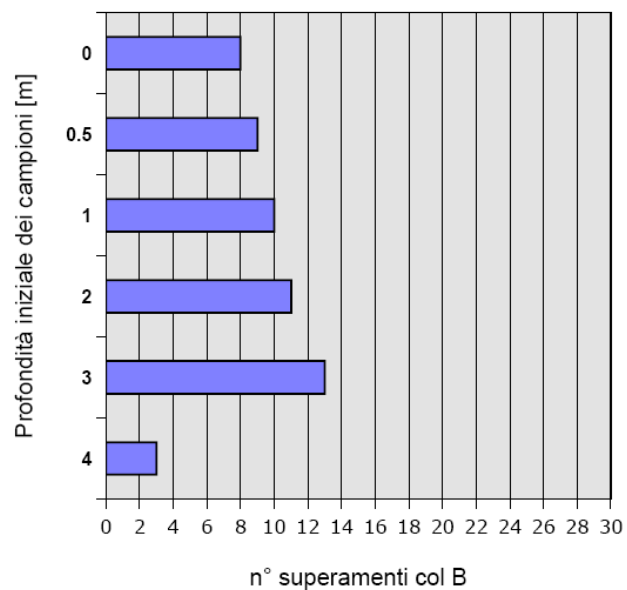
- il numero di superamenti per sostanza e per profondità per colonna A e B della tabella relativa alle concentrazioni soglia di contaminazione per i terreni (d.lgs. 152/06), (pag. 3-4).;
- i valori di concentrazione medi e massimi per sostanza e per profondità, (pag. 5-6);
- per ogni sostanza e per ogni sondaggio le concentrazioni rilevate alle differenti profondità Arsenico (pag. 7), Cadmio (pag. 11), Cobalto (pag. 15), Piombo (pag. 19), Rame (pag. 23), Selenio (pag. 27), Stagno (pag. 28), Zinco (pag. 32);
- curve cumulative di frequenza relative al set di dati utile alla definizione del fondo naturale (pag. 36);
- concentrazioni medie in funzione del substrato di origine del campione analitico (pag. 44).

# Numero di superamenti sulla colonna rispetto alle CSC di colonna A (d.lgs 152/06)

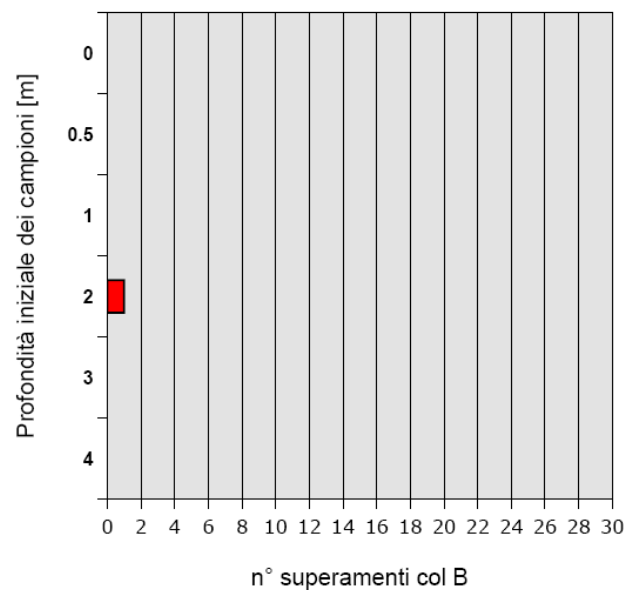


Numero di superamenti sulla colonna rispetto alle CSC di colonna B (d.lgs 152/06)

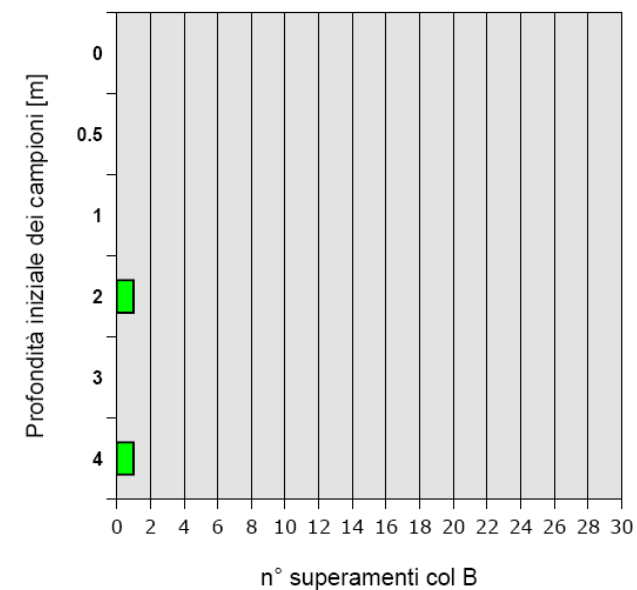
**Arsenico**



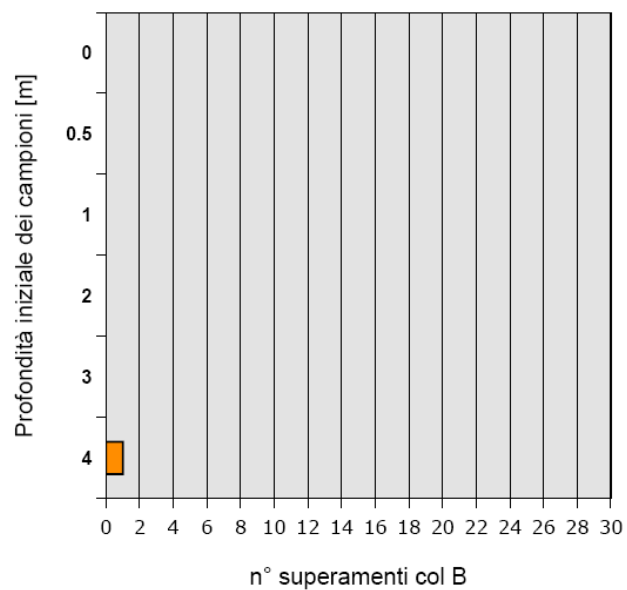
**Piombo**



**Rame**

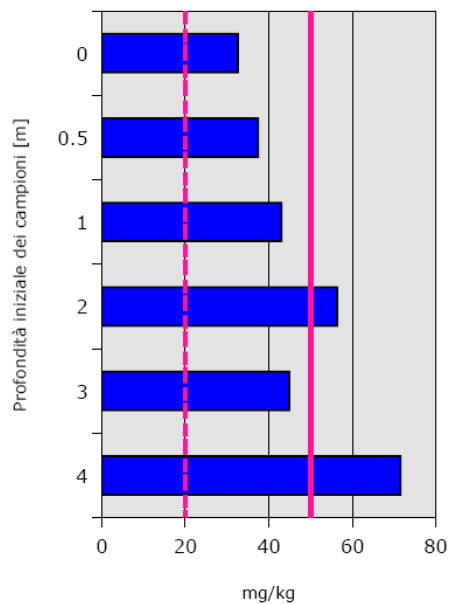


**Zinco**

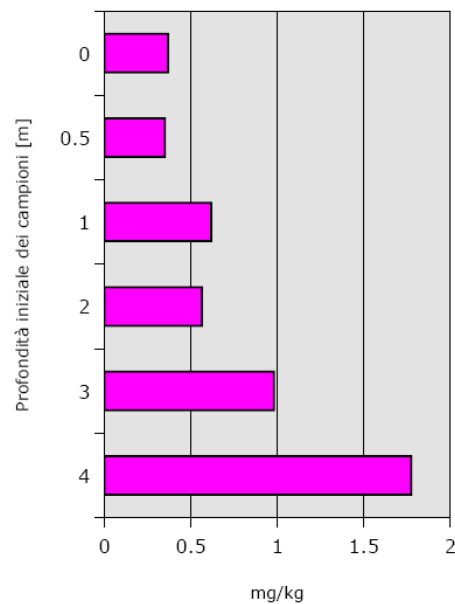


## Valori medi sulla colonna per sostanze oggetto di superamenti delle CSC di colonna A (d.lgs. 152/06)

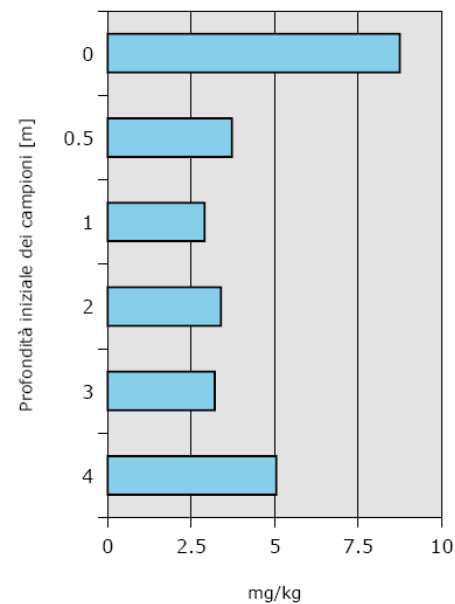
**Arsenico (limA 20mg/kg, limB 50mg/kg)**



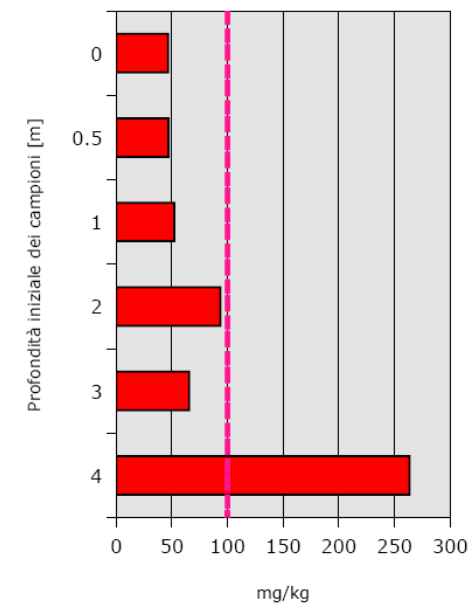
**Cadmio (limA 2mg/kg, limB 15mg/kg)**



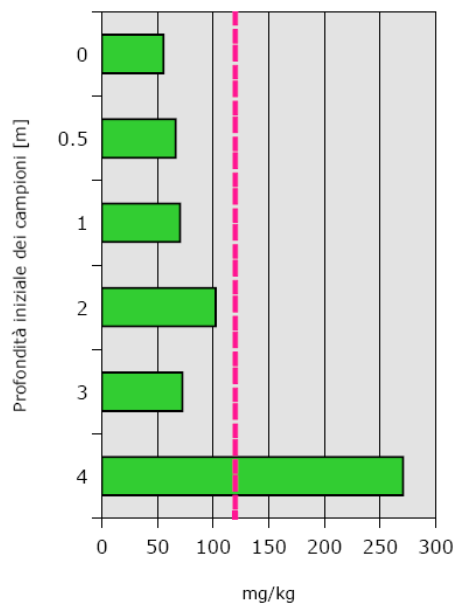
**Cobalto (limA 20mg/kg, limB 250mg/kg)**



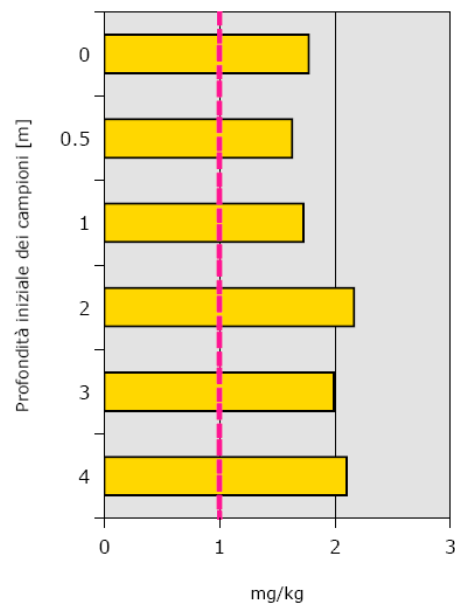
**Piombo (limA 100mg/kg, limB 1000mg/kg)**



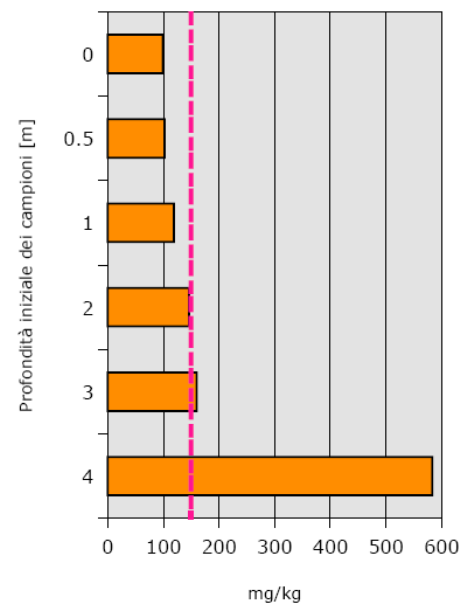
**Rame (limA 120mg/kg, limB 600mg/kg)**



**Stagno (limA 1 mg/kg, limB 350 mg/kg)**

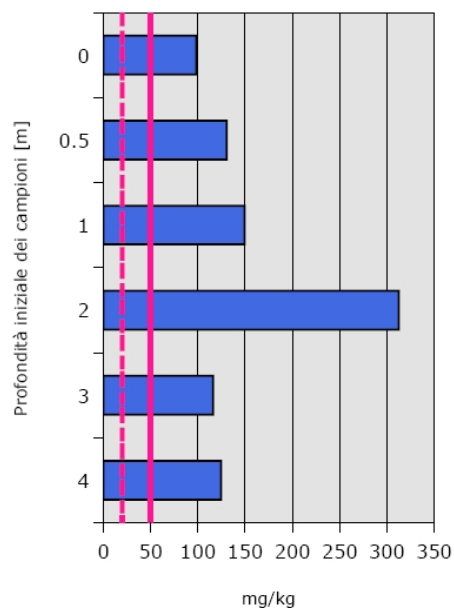


**Zinco (limA 150mg/kg, limB 1500mg/kg)**

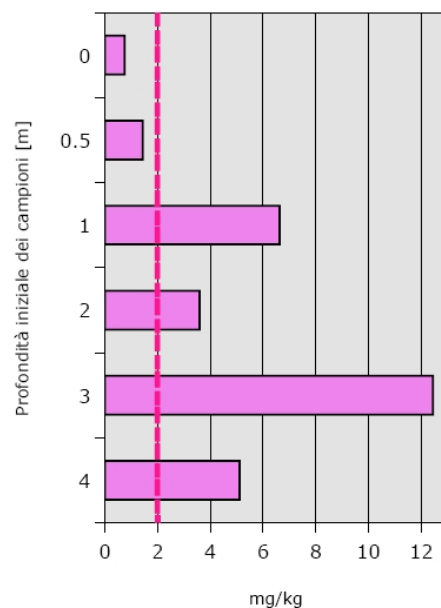


## Valori massimi sulla colonna per sostanze oggetto di superamenti delle CSC colonna A (d.lgs. 152/06)

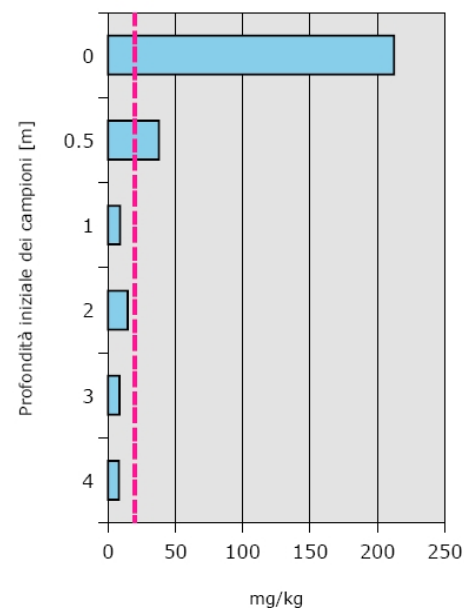
**Arsenico (limA 20mg/kg, limB 50mg/kg)**



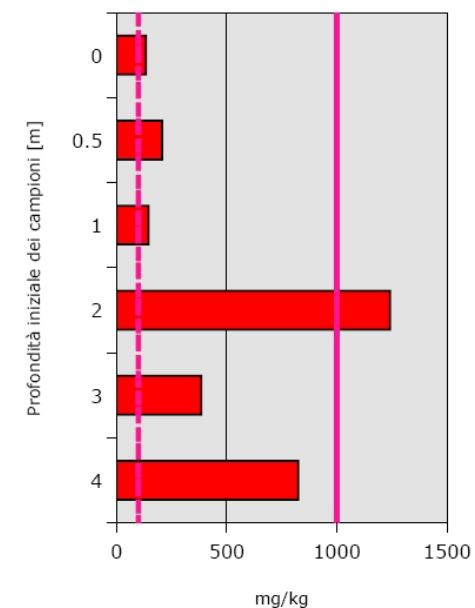
**Cadmio (limA 2mg/kg, limB 15mg/kg)**



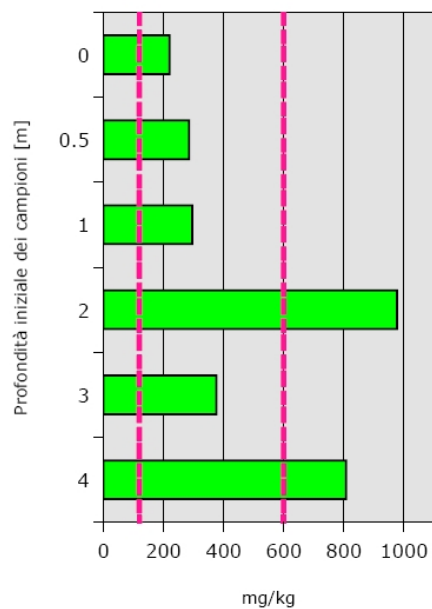
**Cobalto (limA 20mg/kg, limB 250mg/kg)**



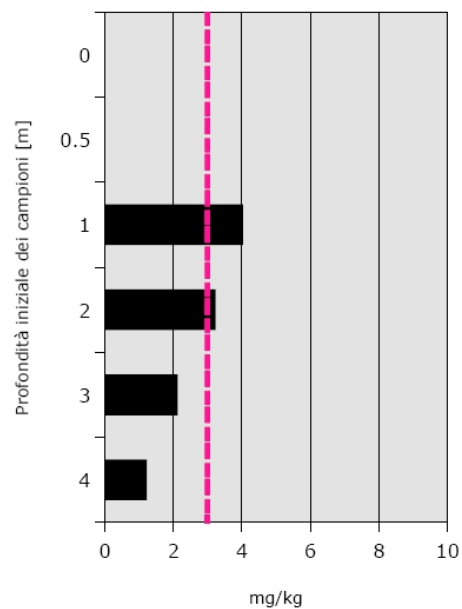
**Piombo (limA 100mg/kg, limB 1000mg/kg)**



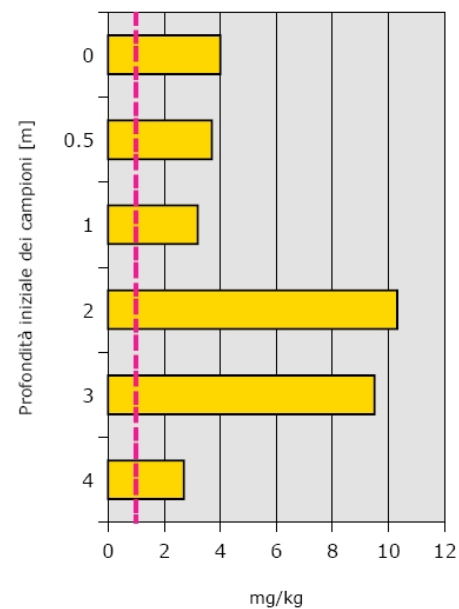
**Rame (limA 120mg/kg, limB 600mg/kg)**



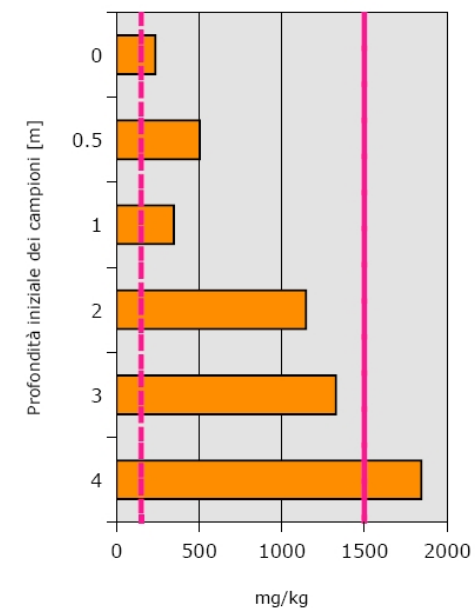
**Selenio (limA 3mg/kg, limB 15mg/kg)**



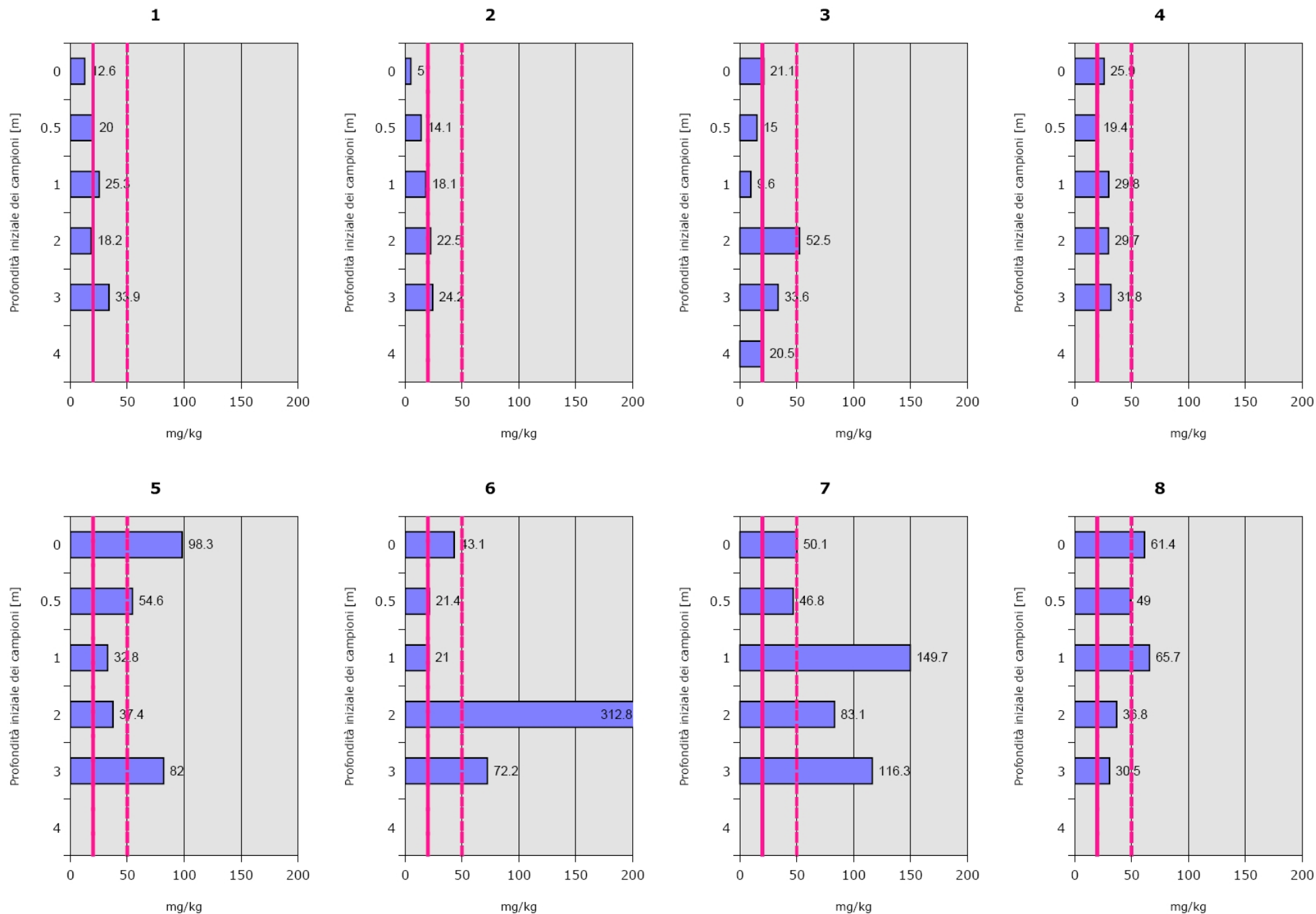
**Stagno (limA 1mg/kg, limB 350mg/kg)**



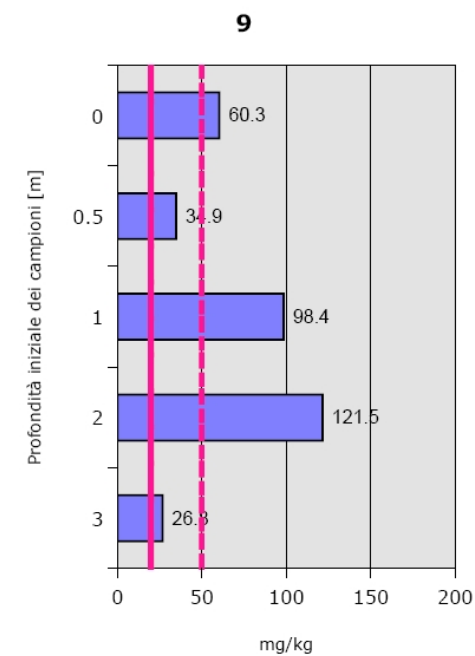
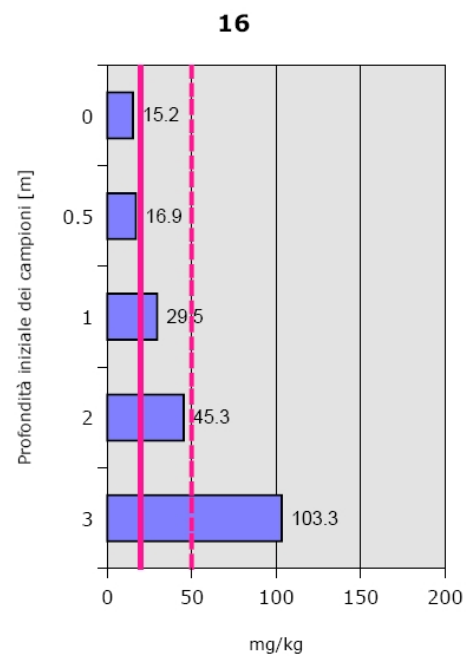
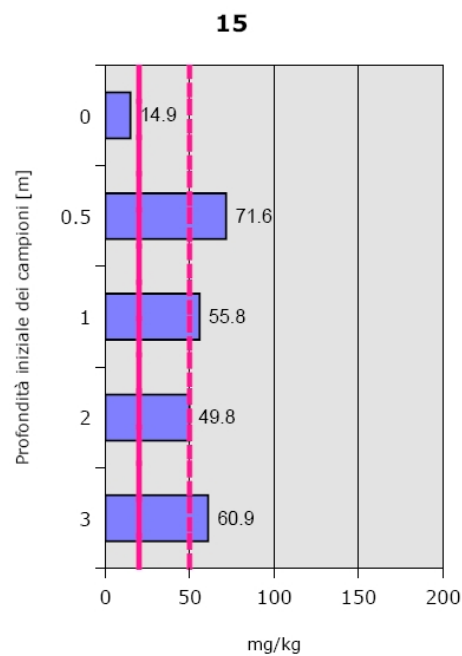
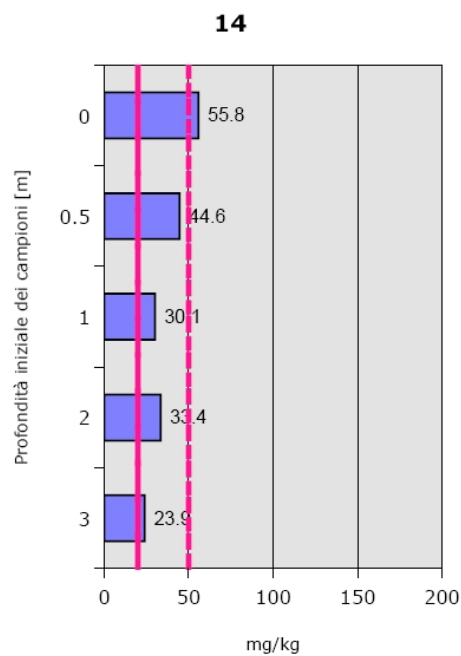
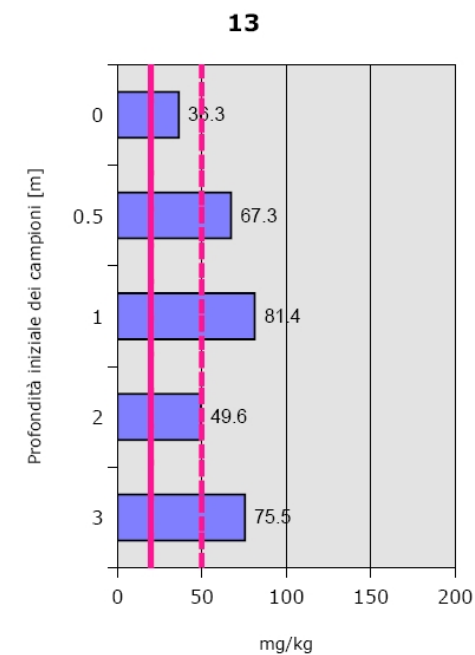
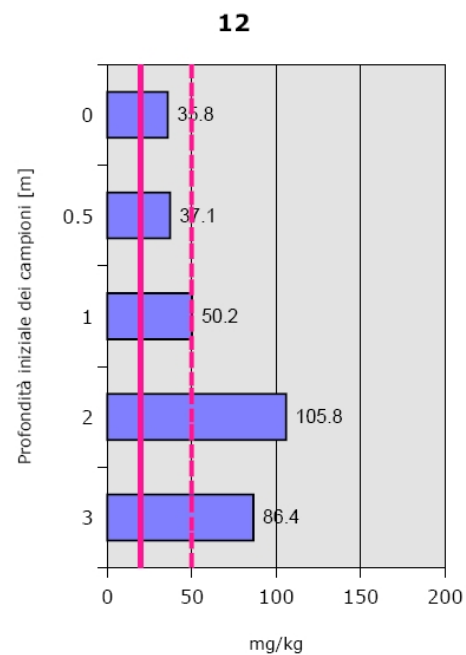
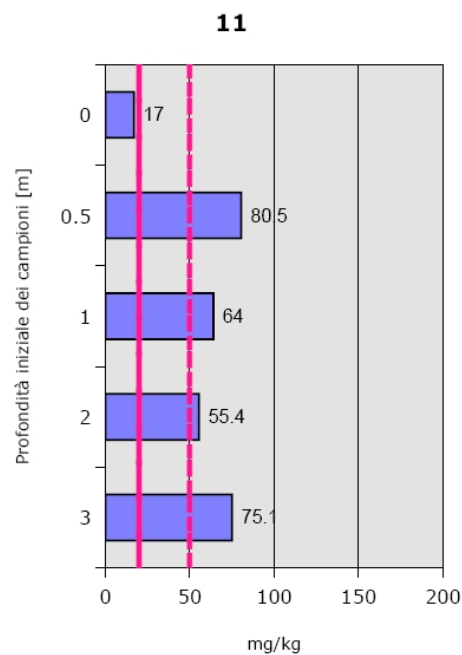
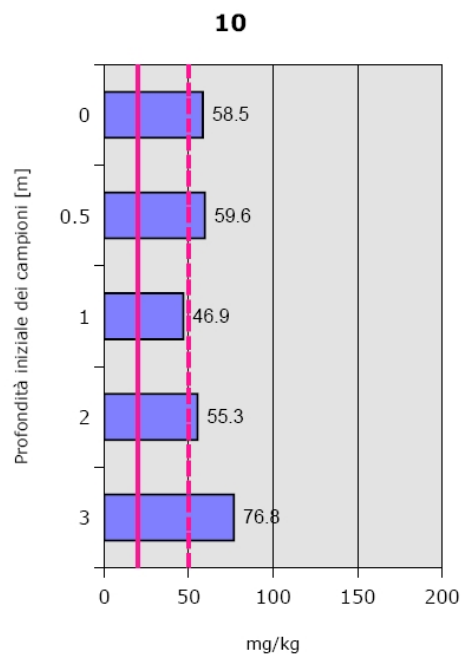
**Zinco (limA 150mg/kg, limB 1500mg/kg)**



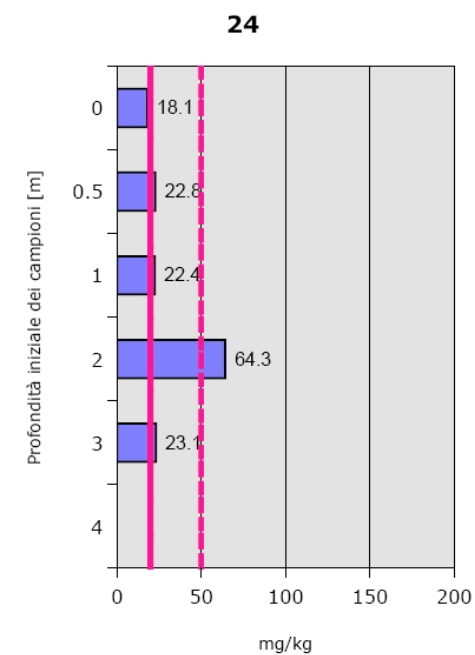
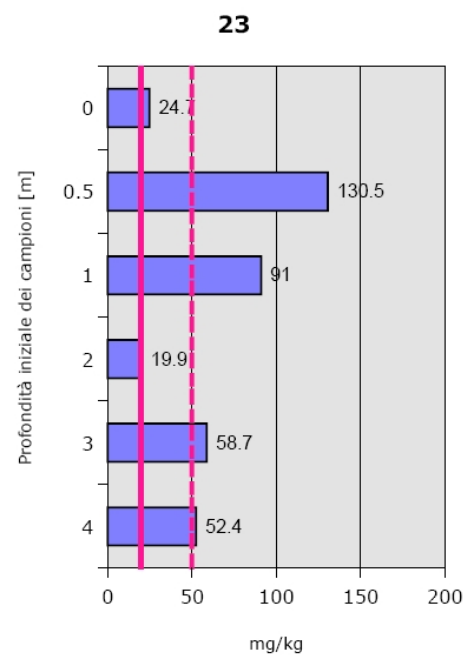
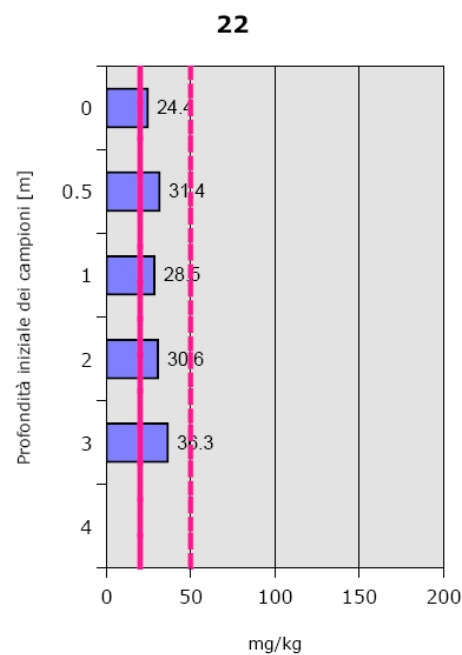
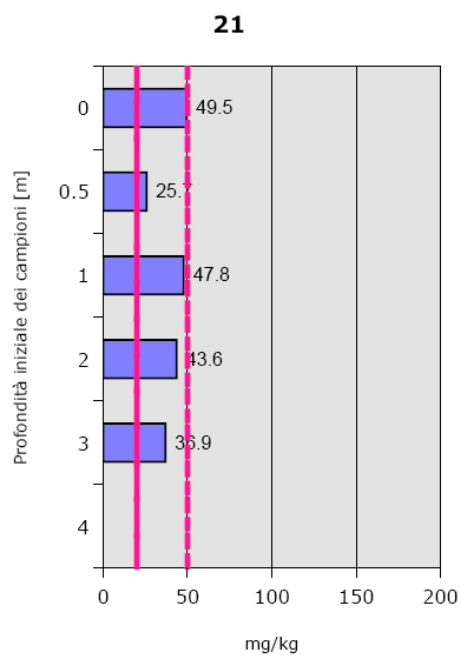
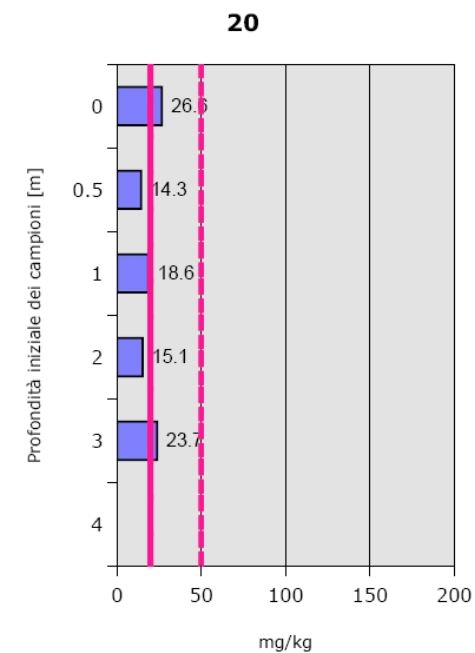
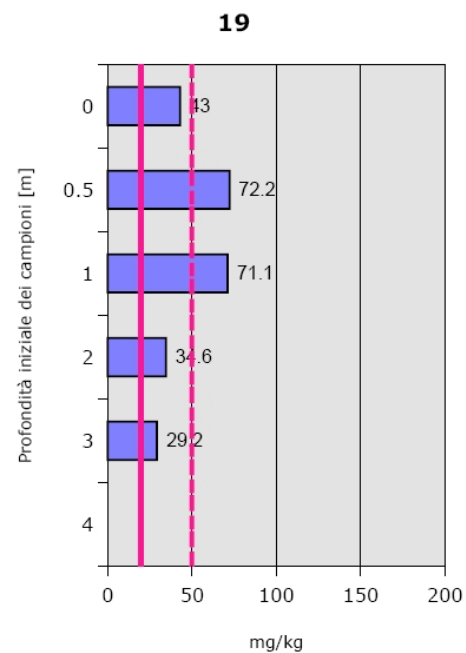
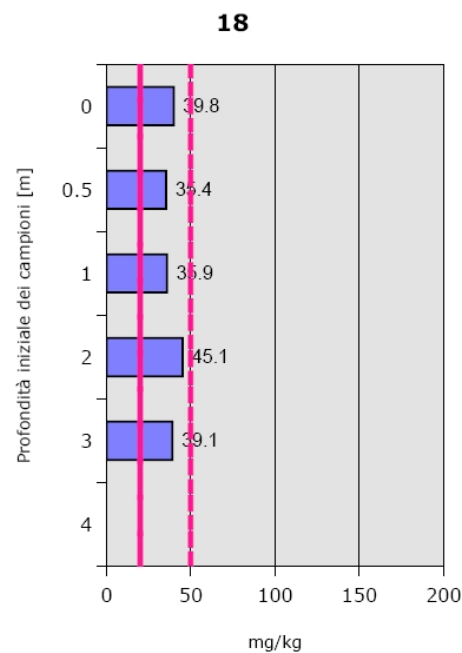
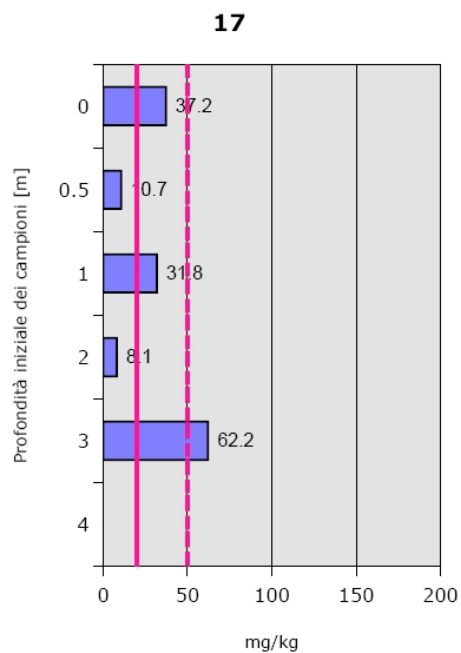
# Concentrazioni di arsenico riscontrate per i diversi sondaggi a differenti profondità (lim A 20mg/kg, B 50mg/kg)



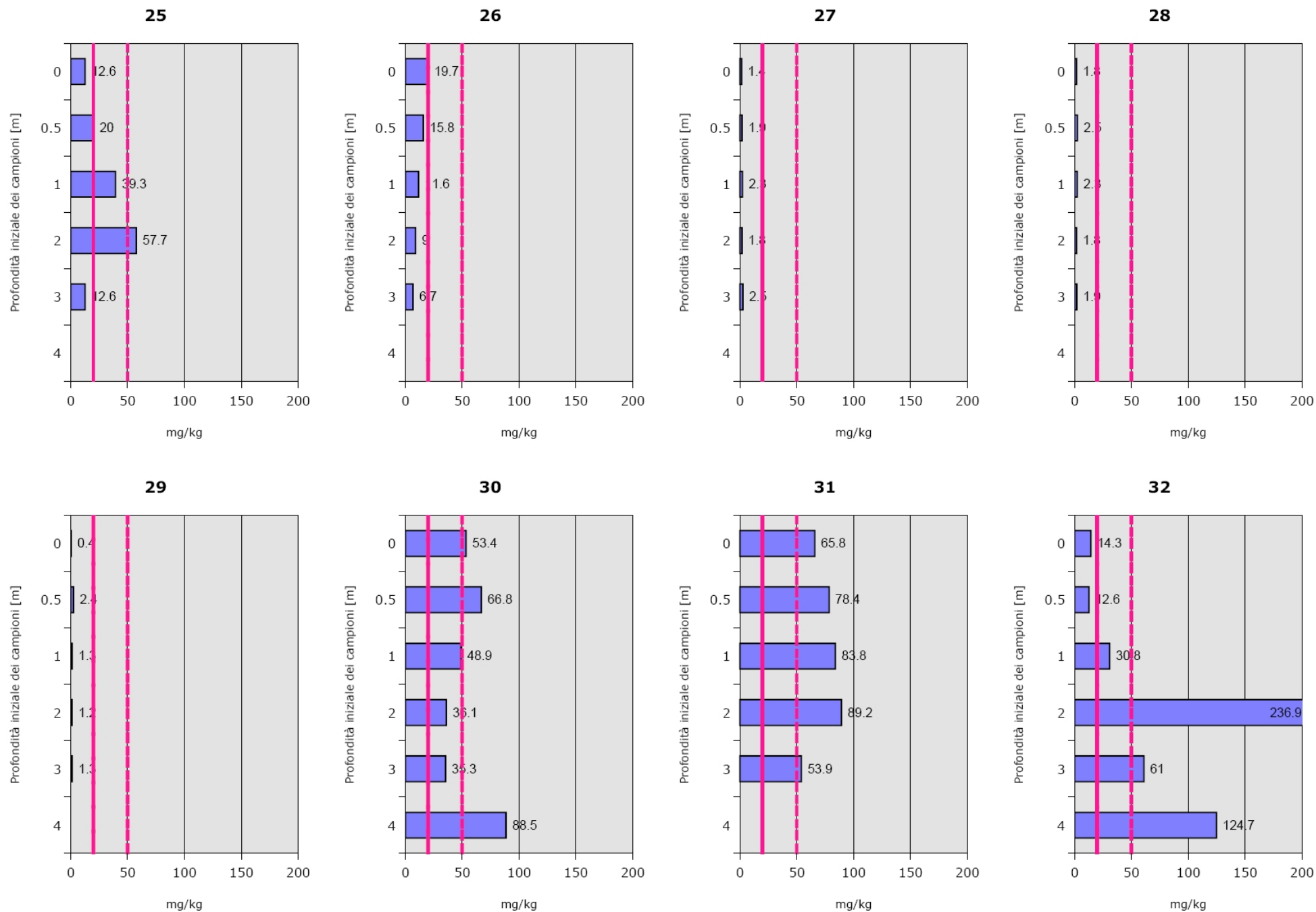
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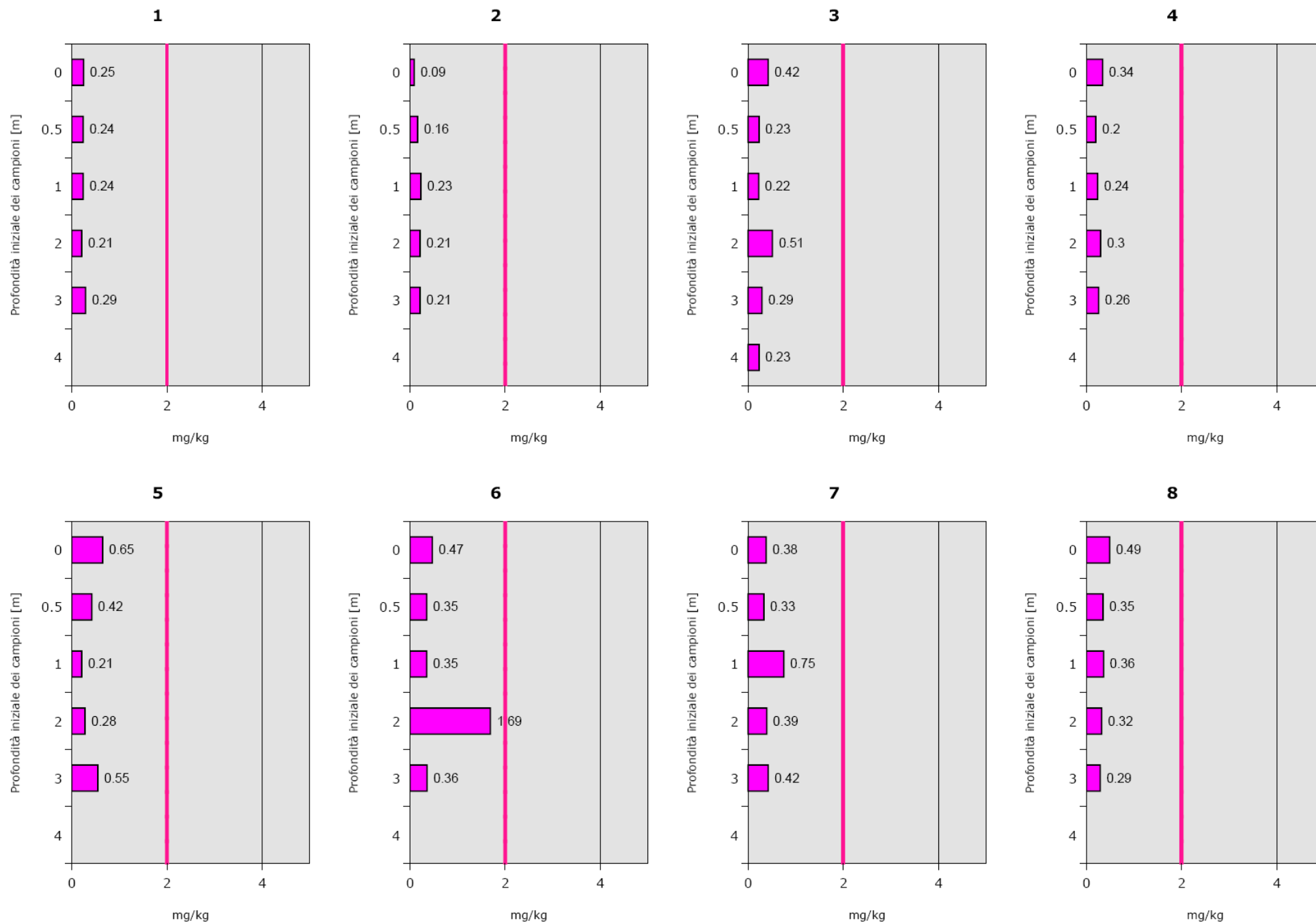
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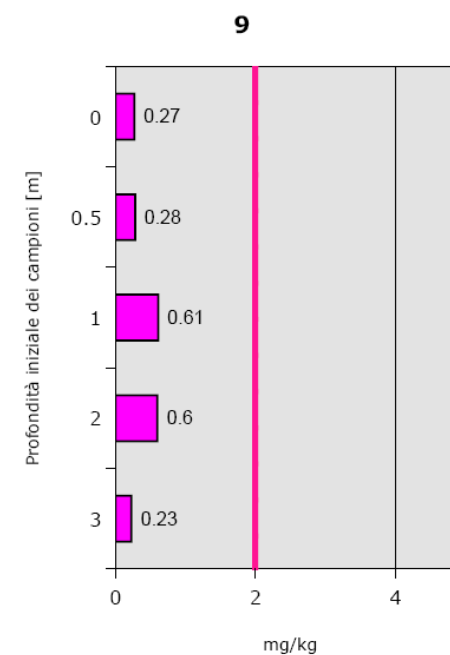
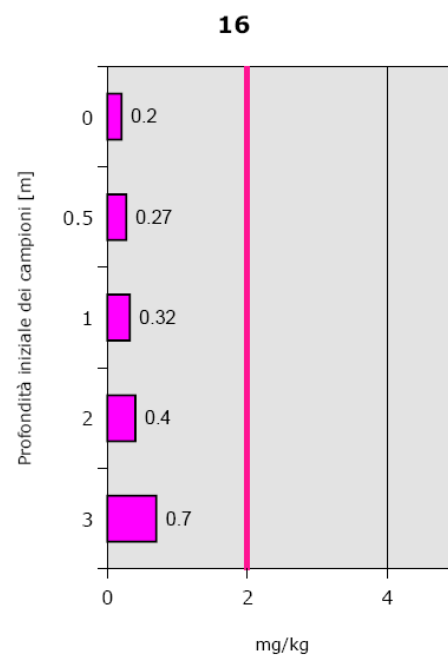
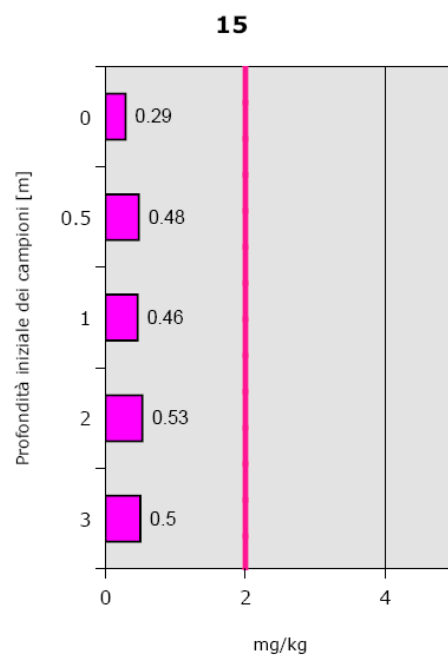
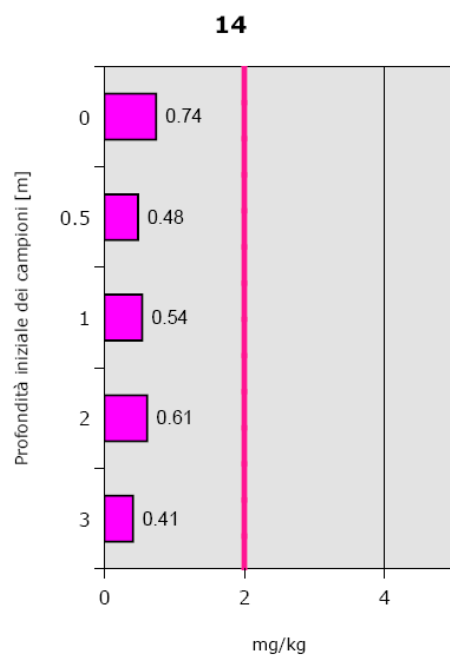
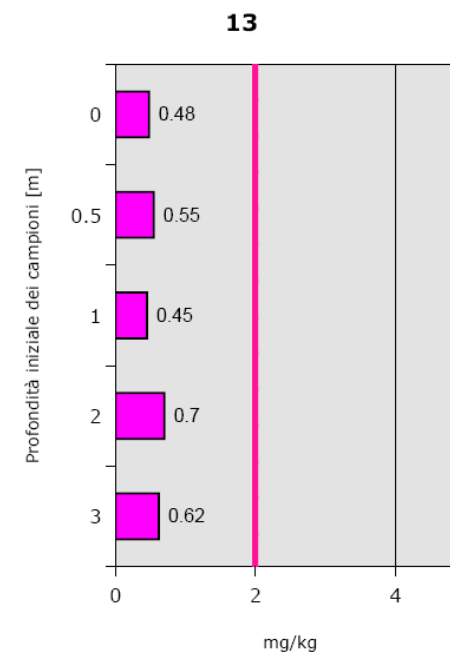
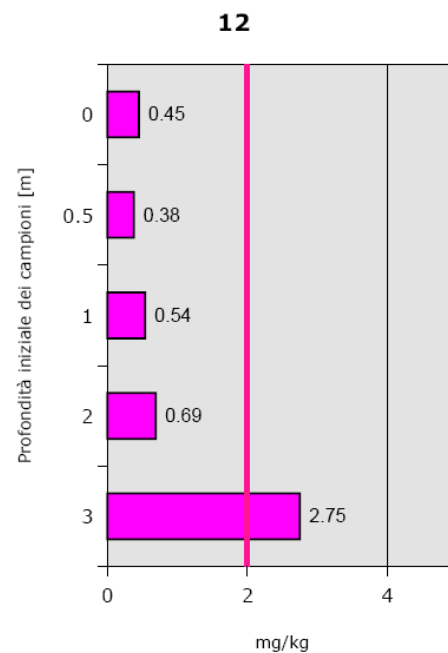
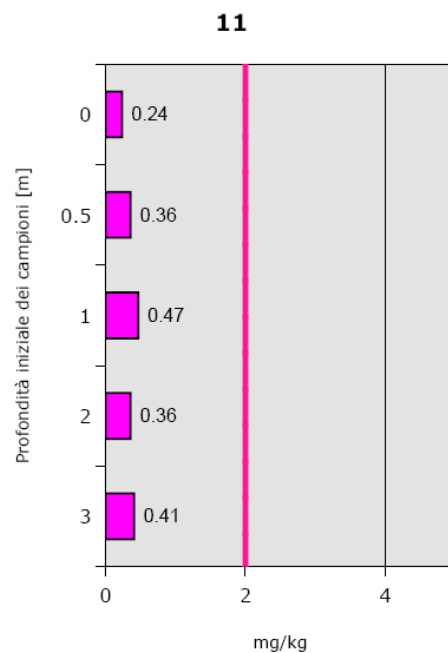
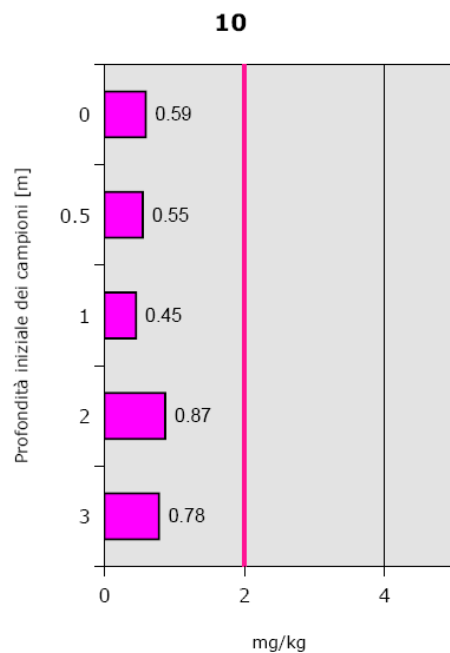
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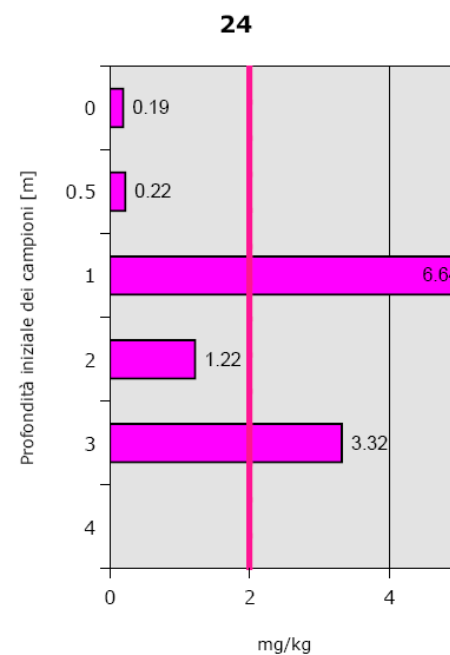
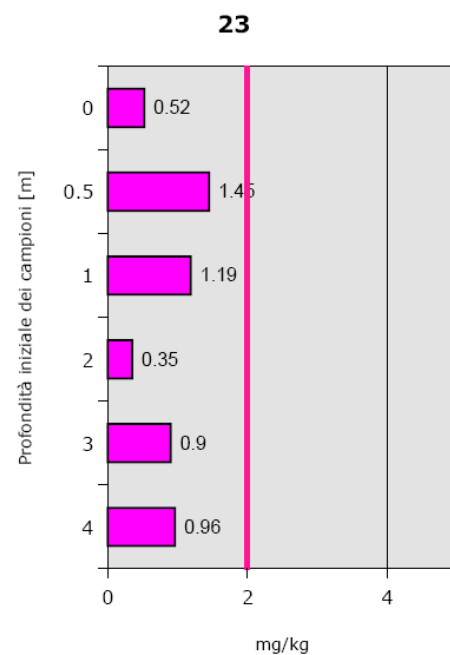
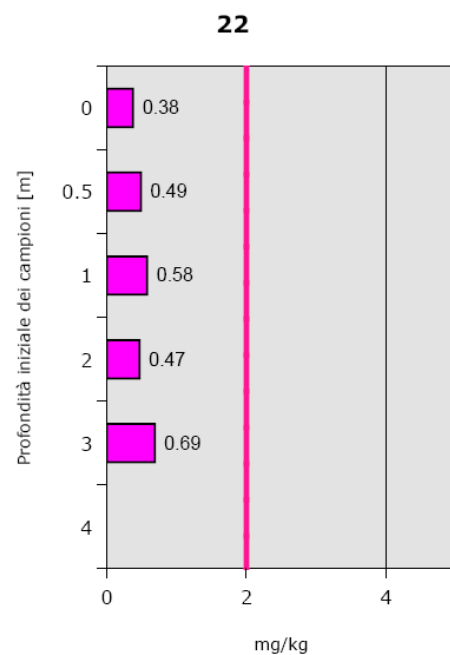
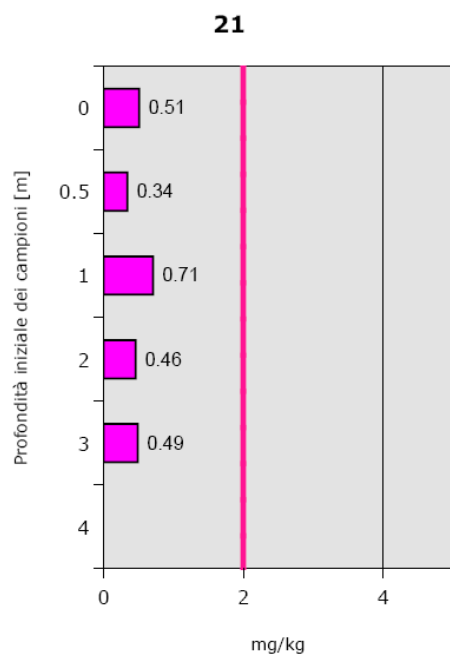
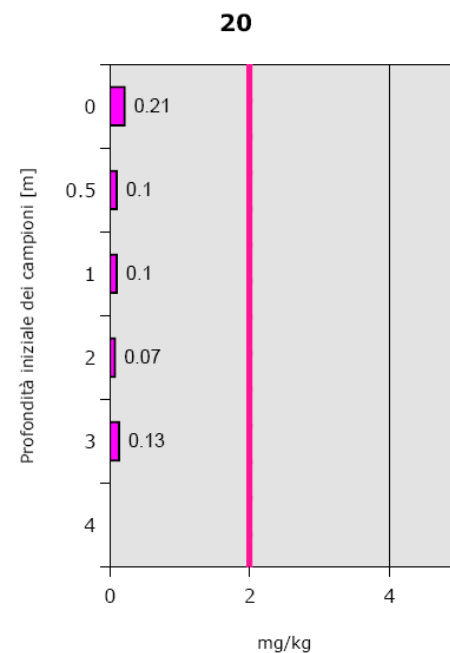
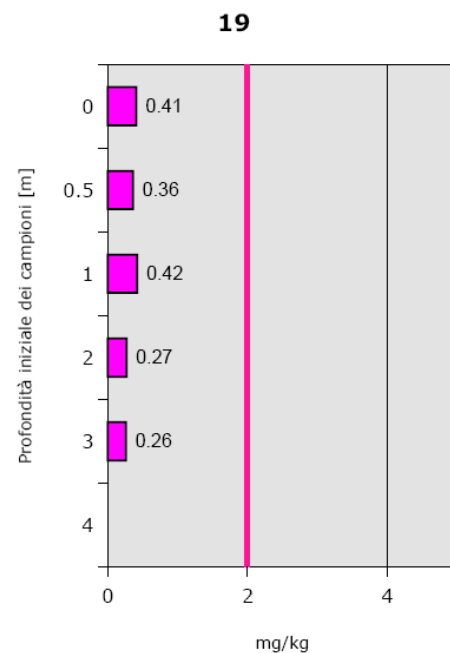
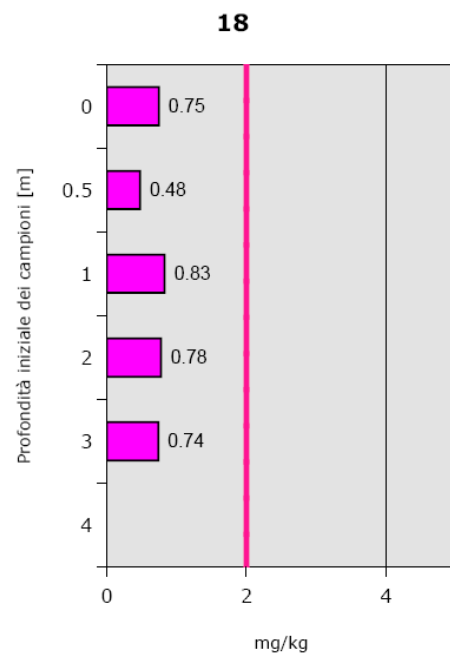
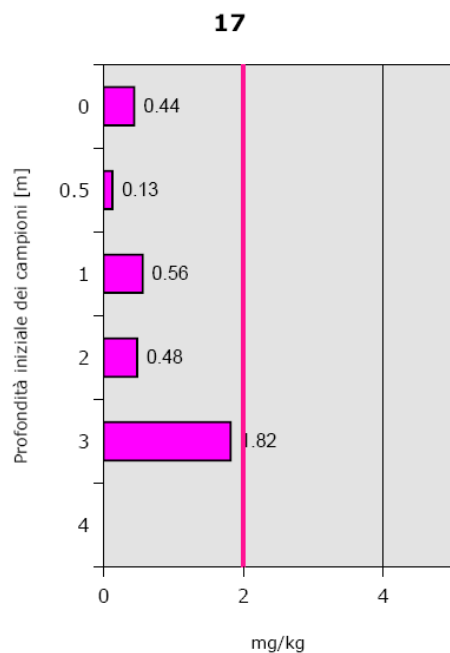
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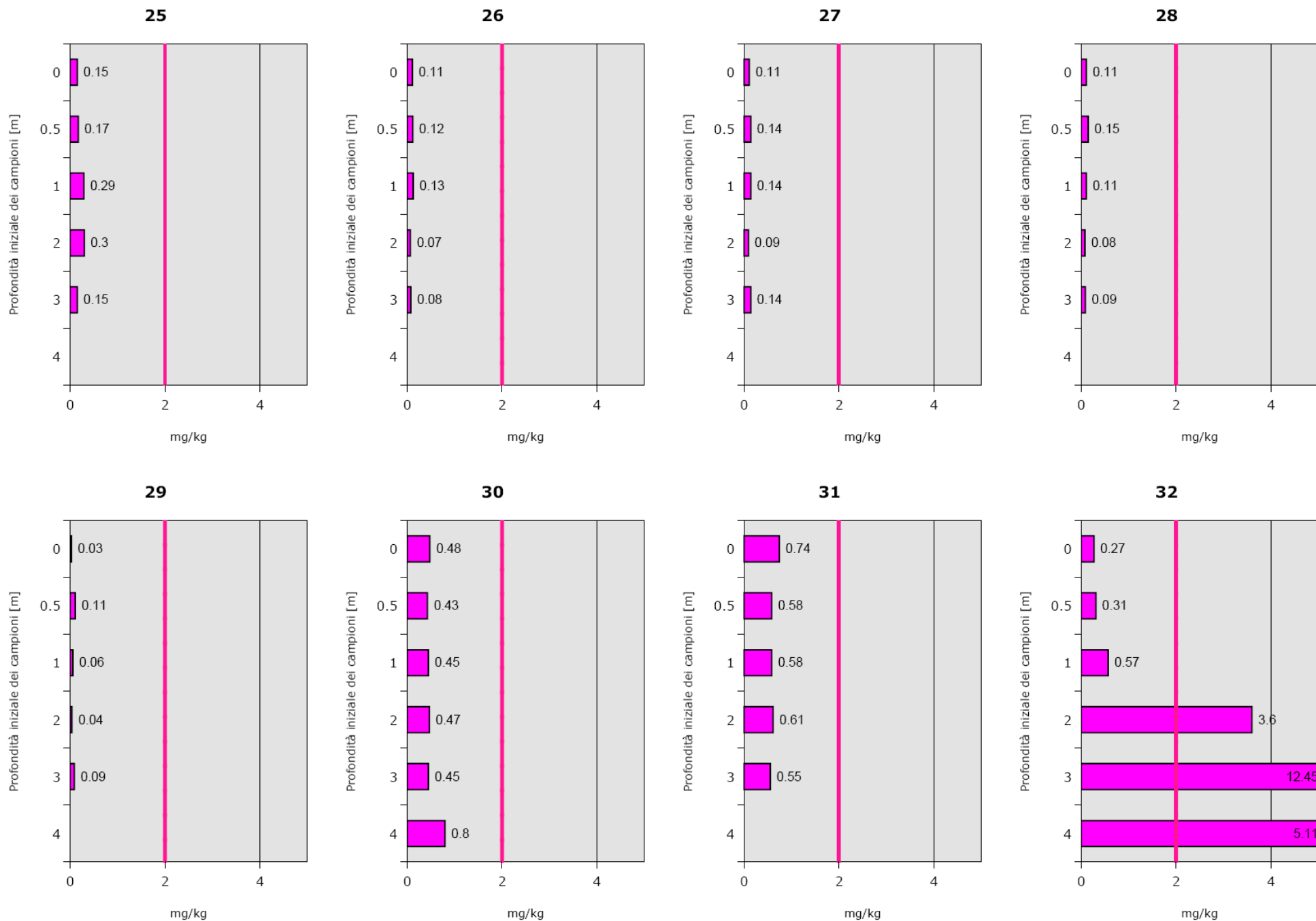
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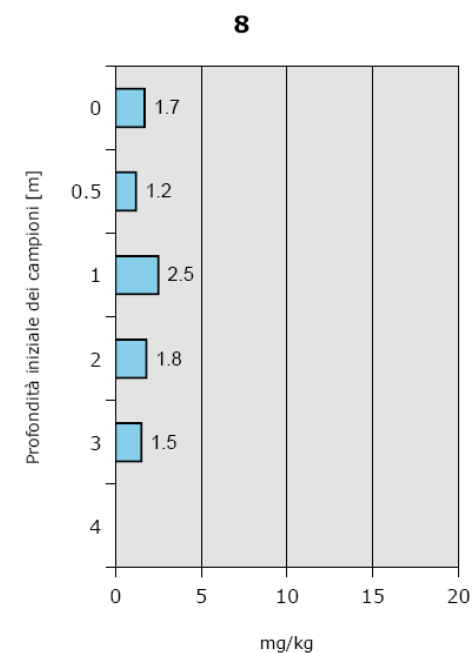
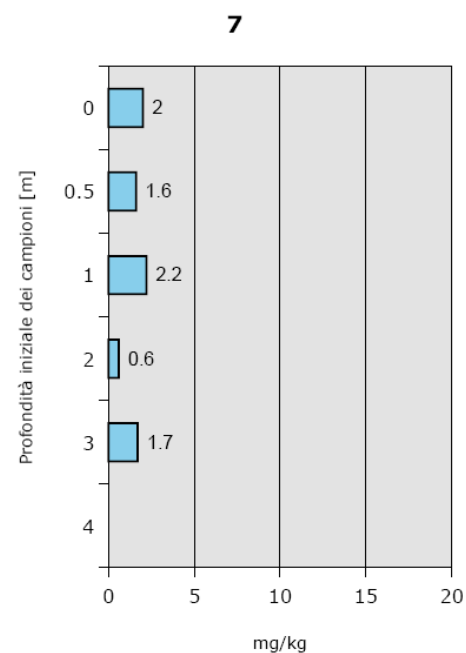
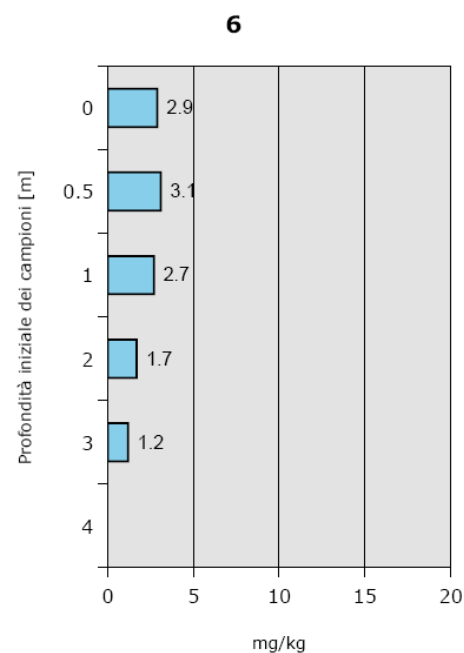
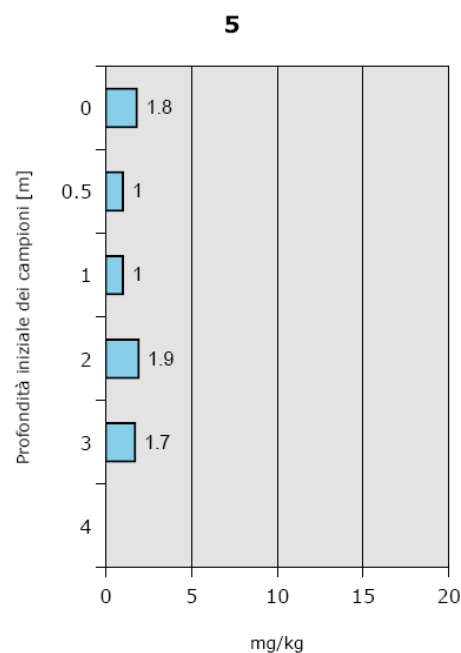
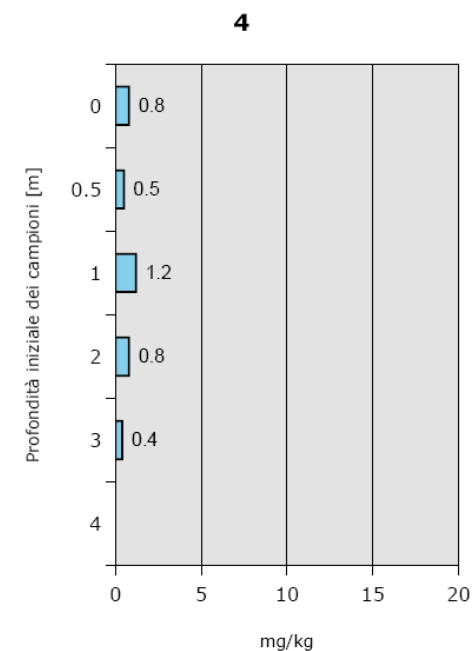
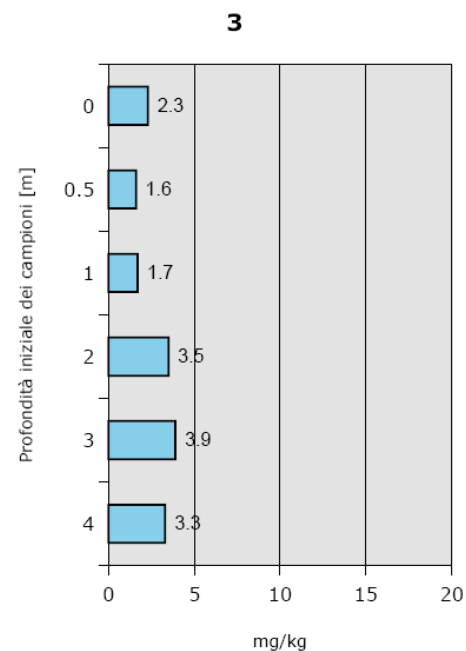
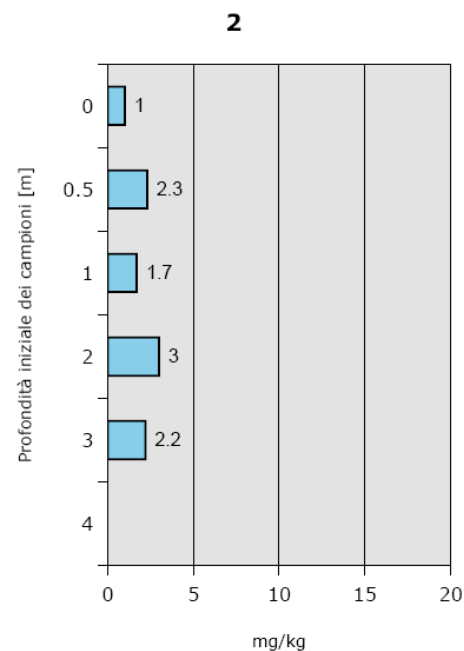
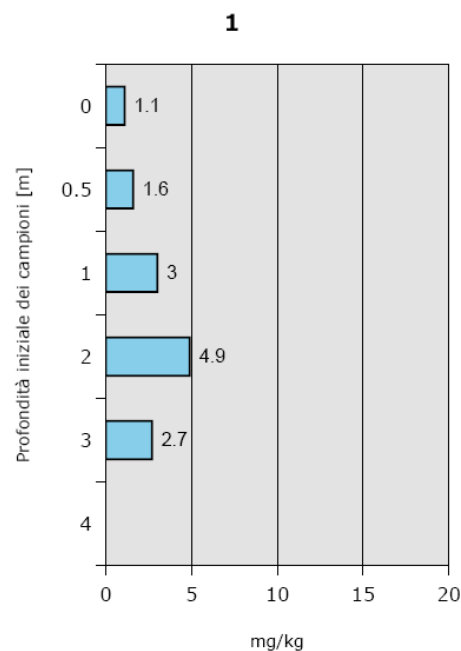
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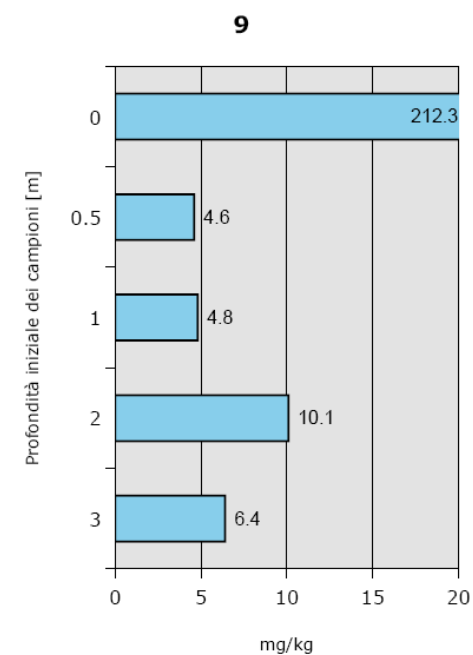
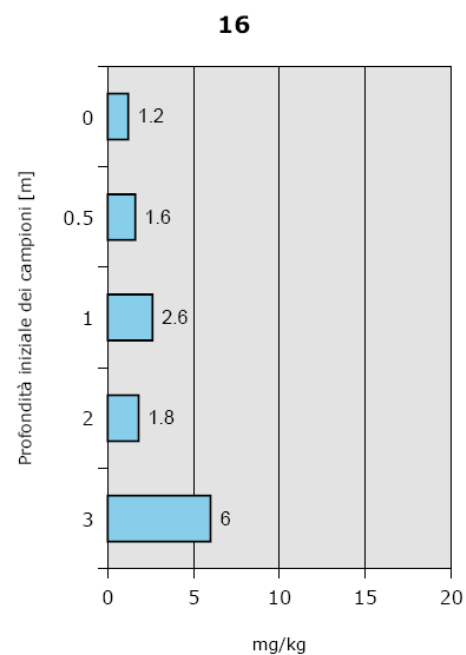
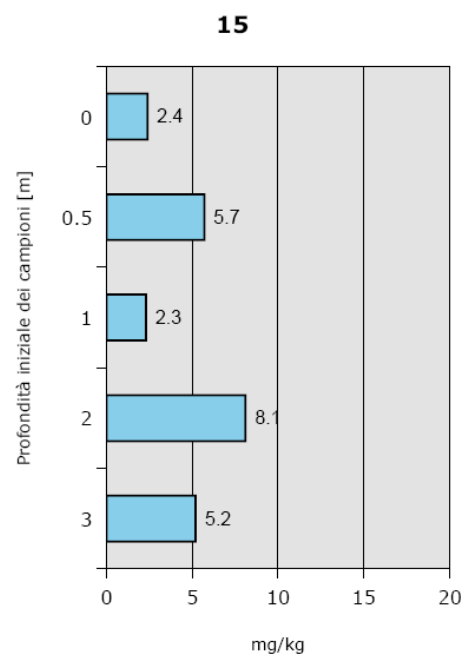
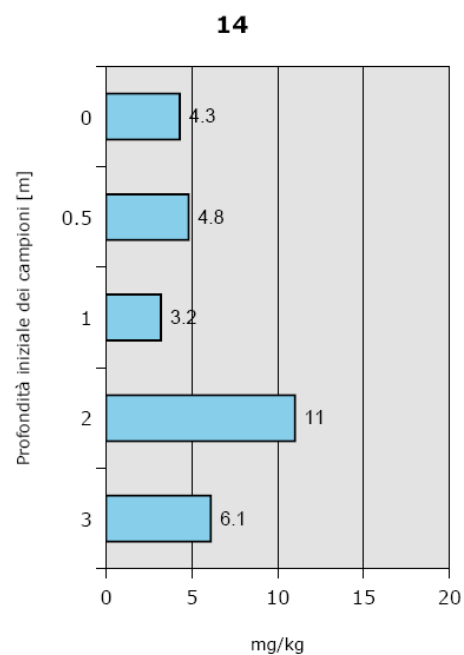
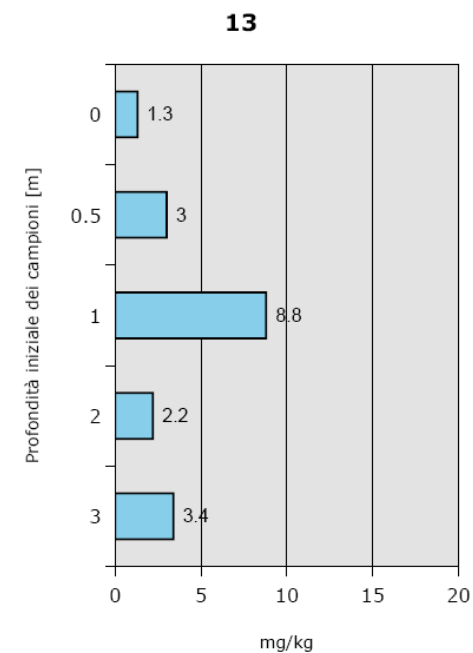
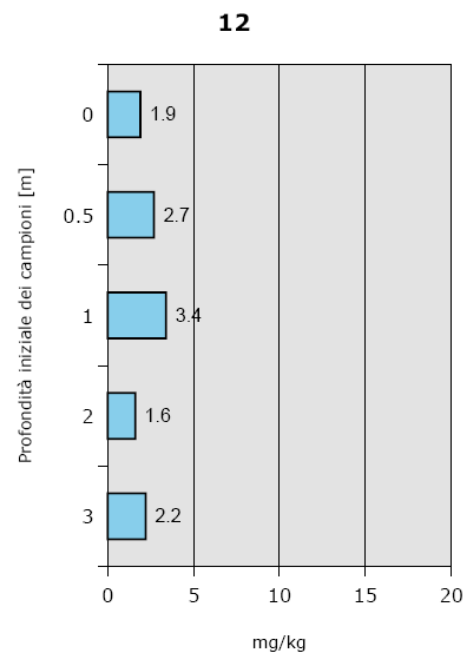
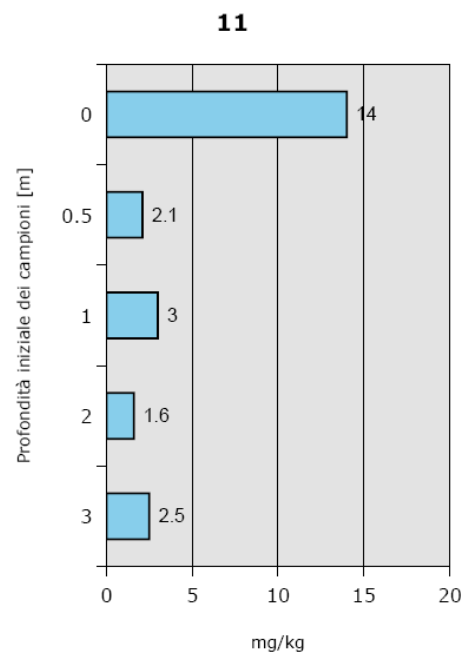
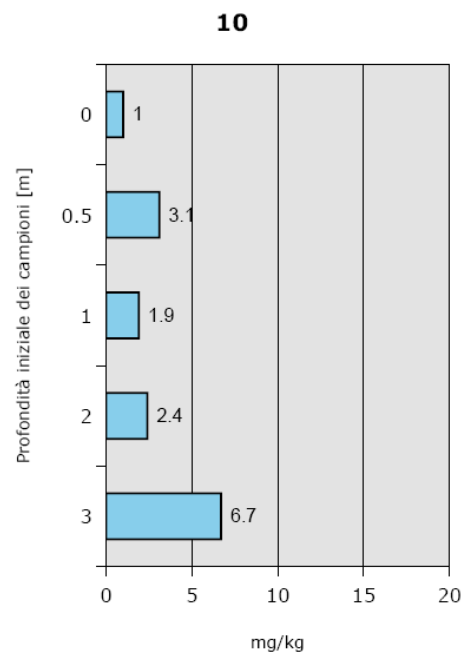
# Concentrazioni di cadmio riscontrate per i diversi sondaggi a differenti profondità (lim A 2mg/kg, B 15mg/kg)



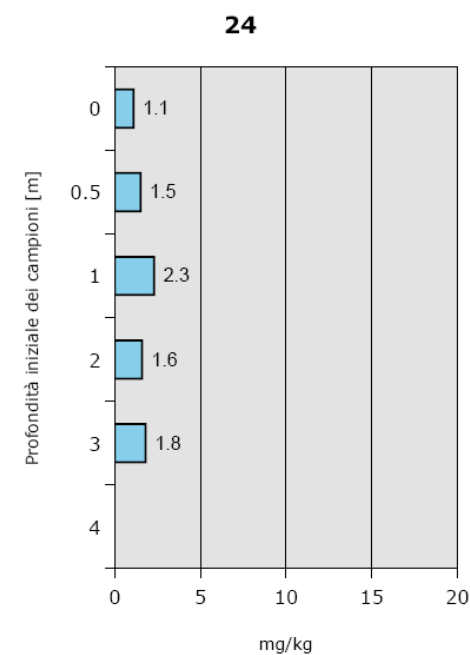
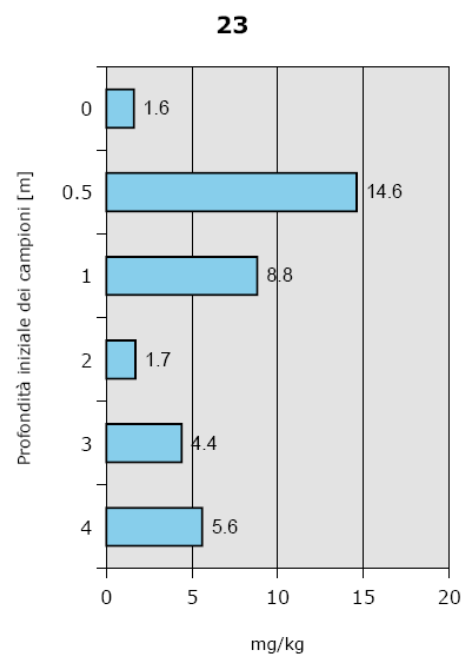
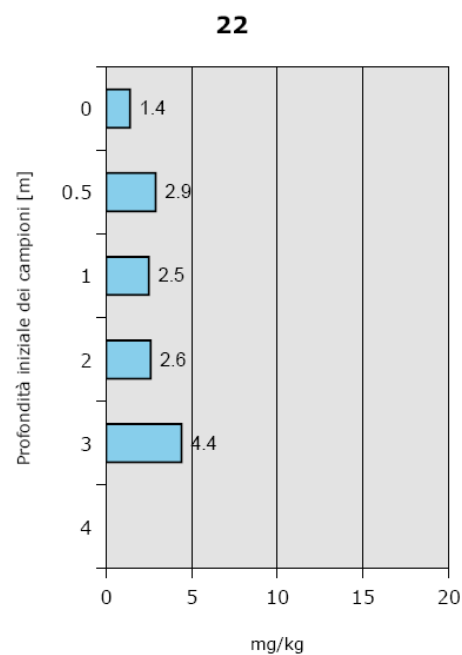
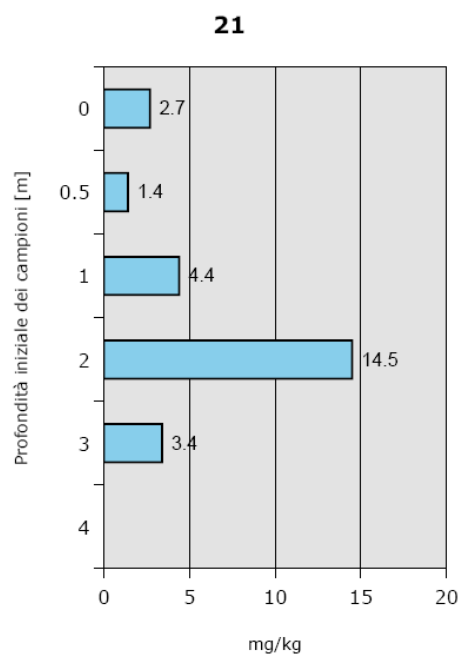
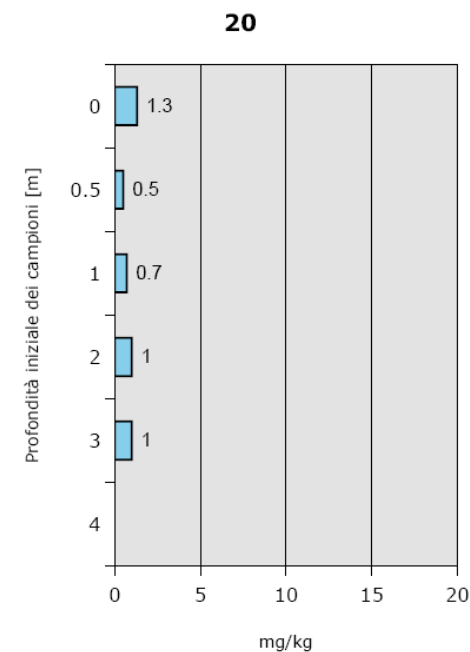
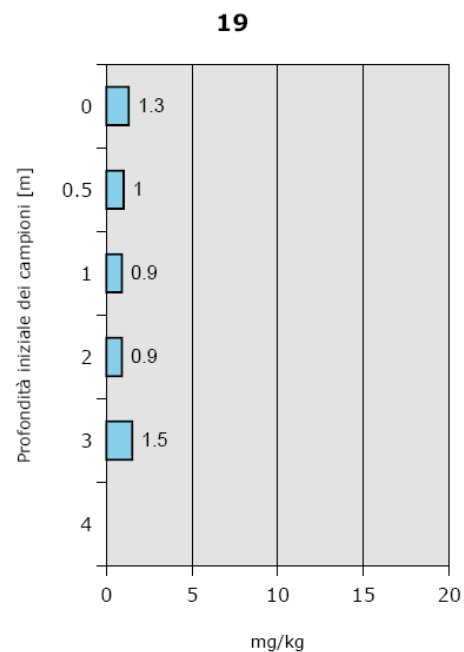
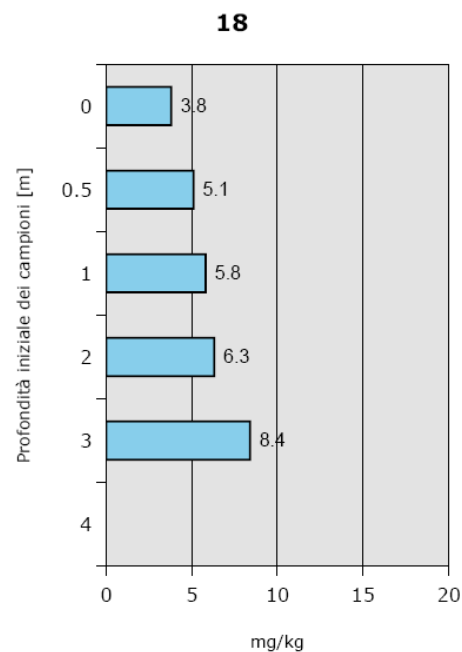
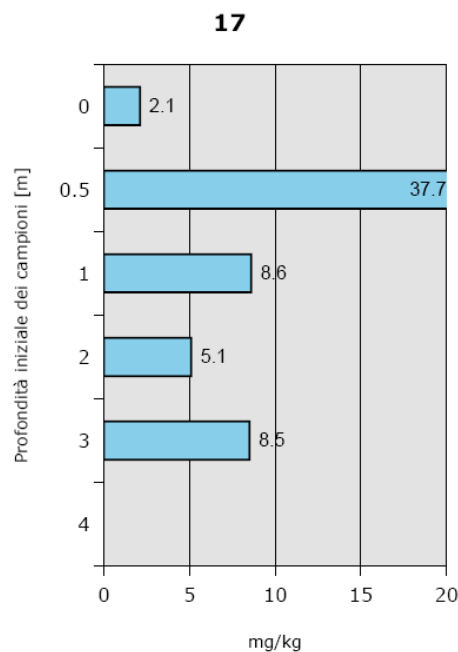
# Concentrazioni di cobalto riscontrate per i diversi sondaggi a differenti profondità (lim A 20mg/kg, B 250mg/kg)



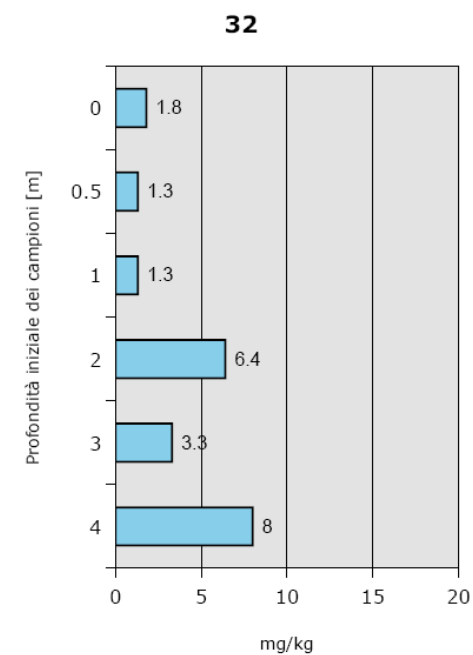
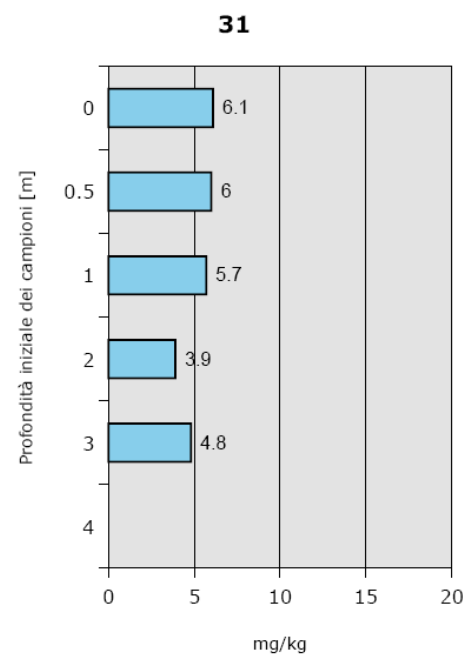
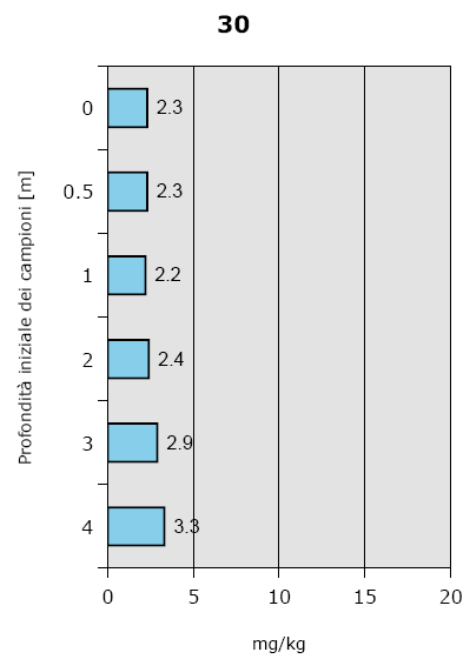
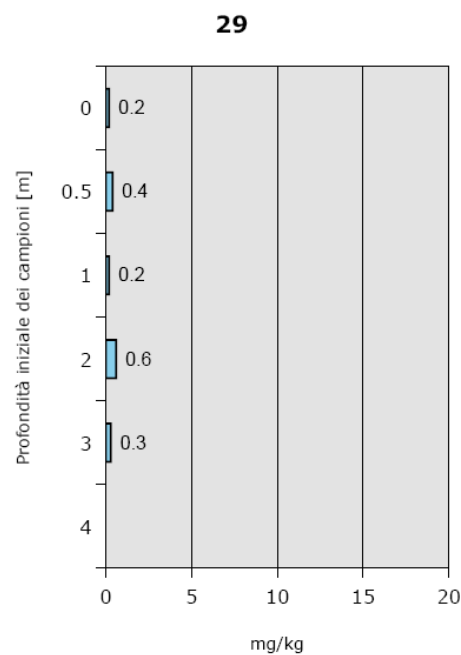
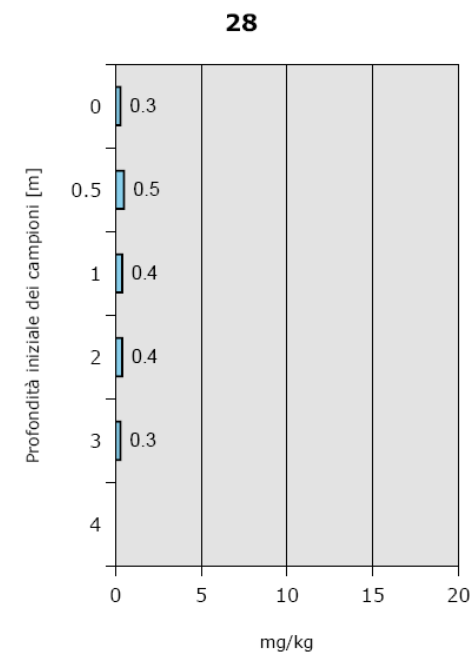
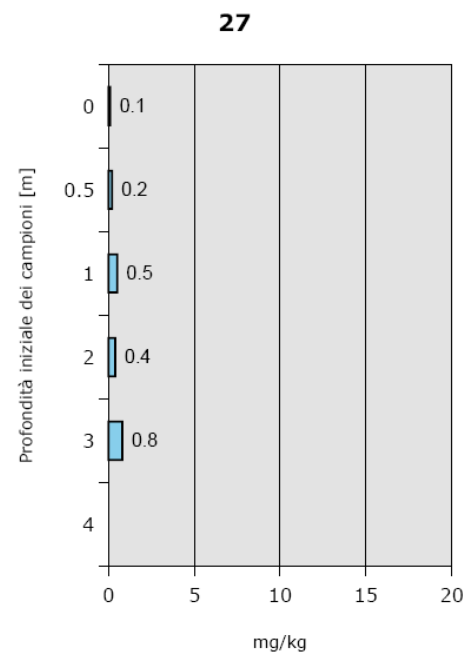
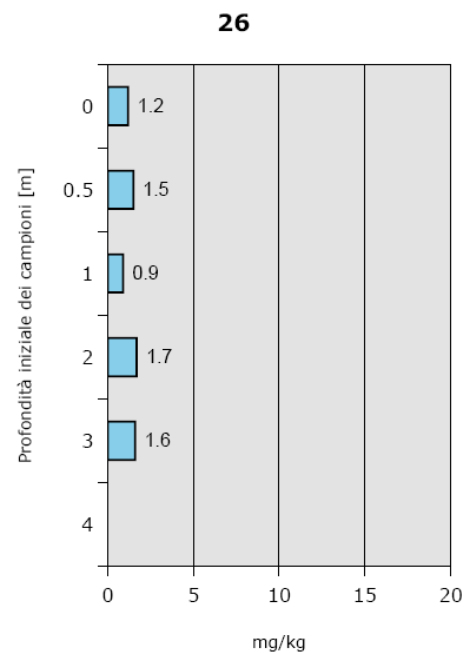
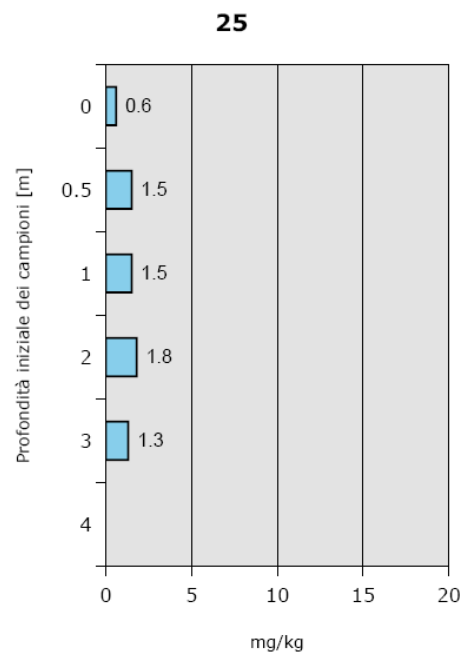
# Concentrazioni di cobalto riscontrate per i diversi sondaggi a differenti profondità (lim A 20mg/kg, B 250mg/kg)



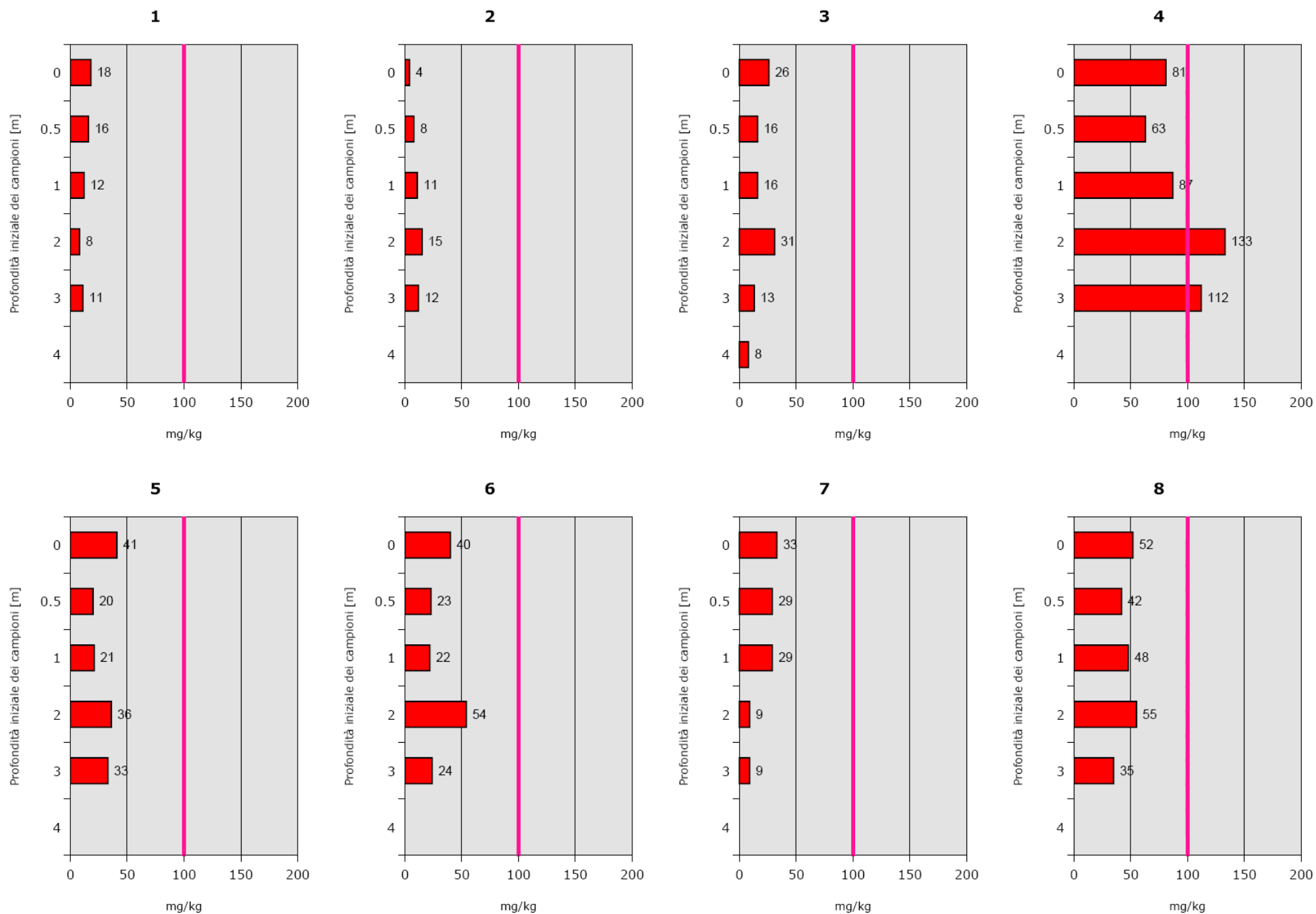
# Concentrazioni di cobalto riscontrate per i diversi sondaggi a differenti profondità (lim A 20mg/kg, B 250mg/kg)



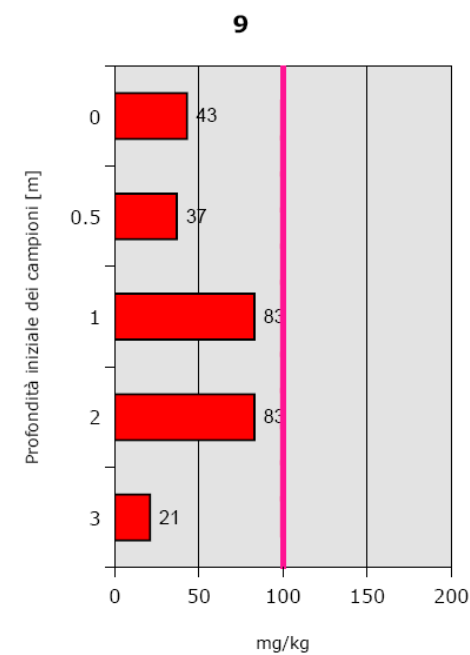
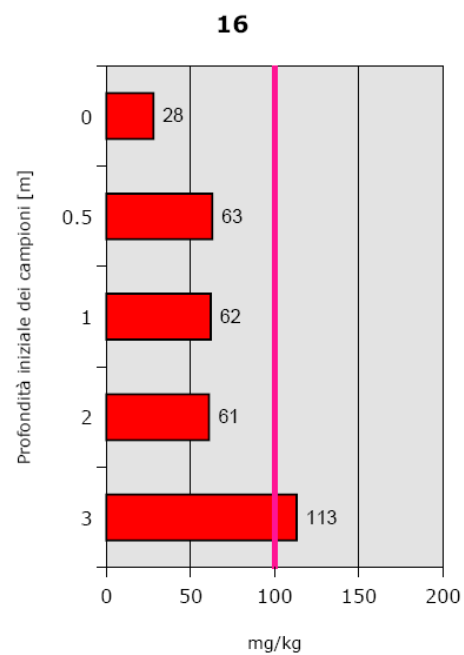
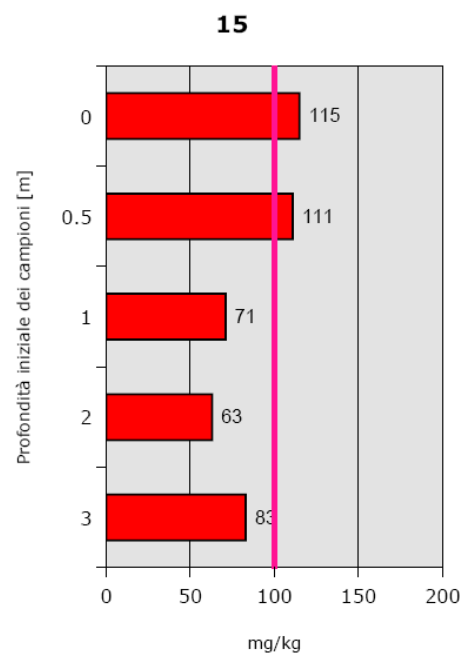
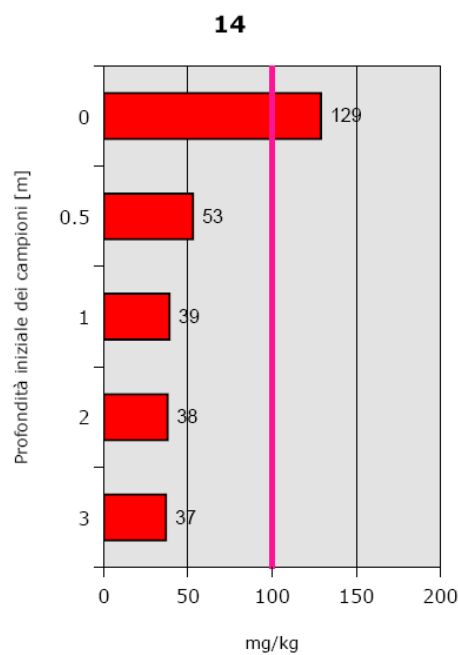
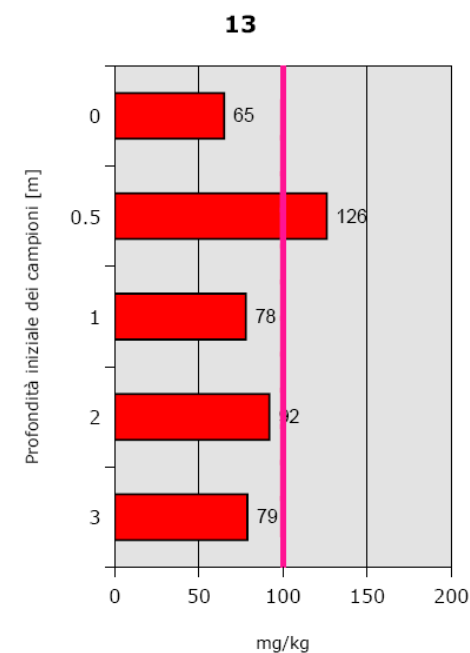
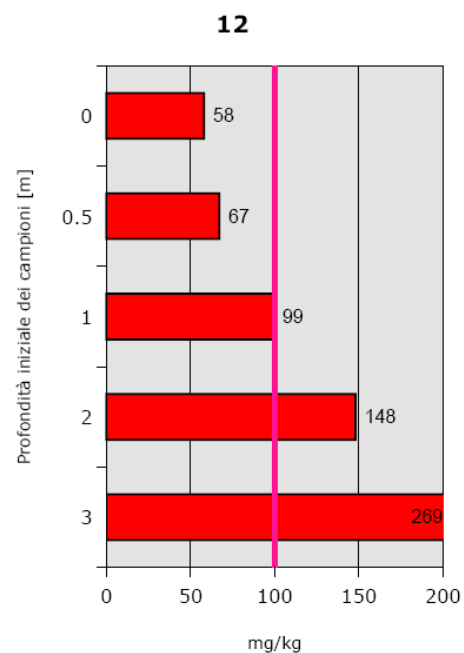
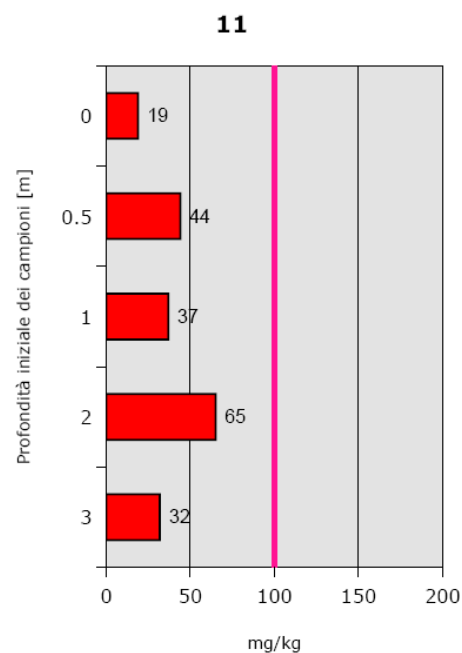
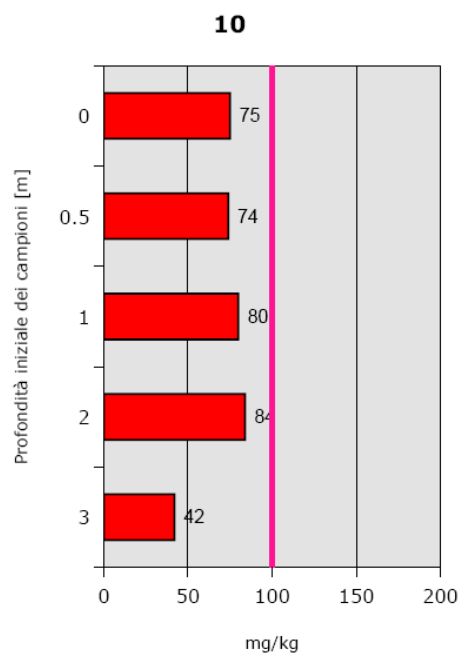
# Concentrazioni di cobalto riscontrate per i diversi sondaggi a differenti profondità (lim A 20mg/kg, B 250mg/kg)



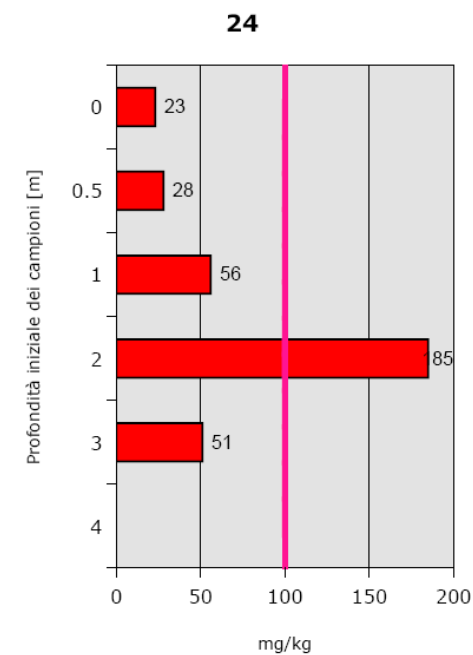
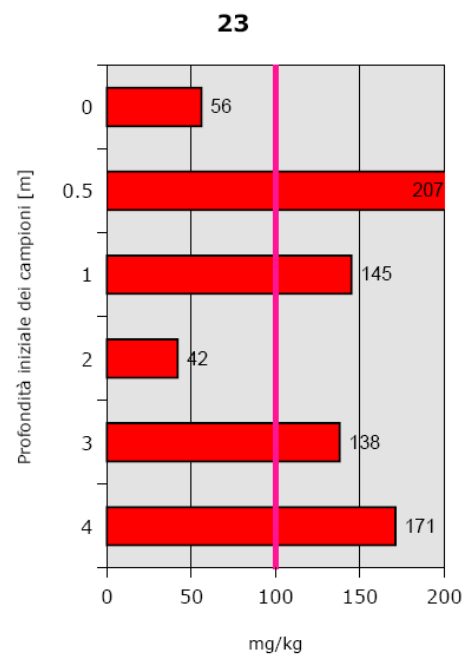
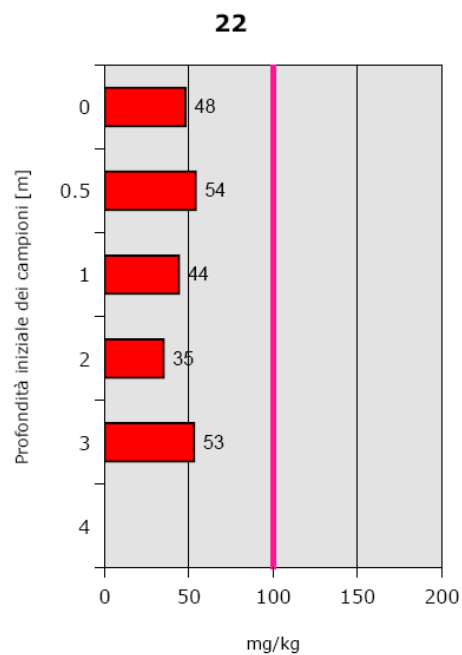
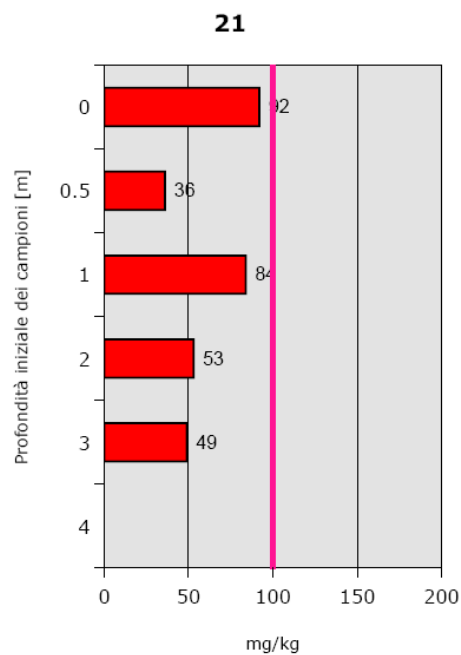
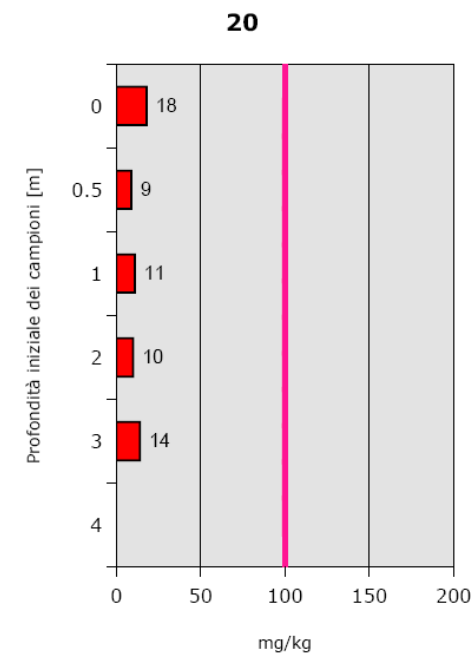
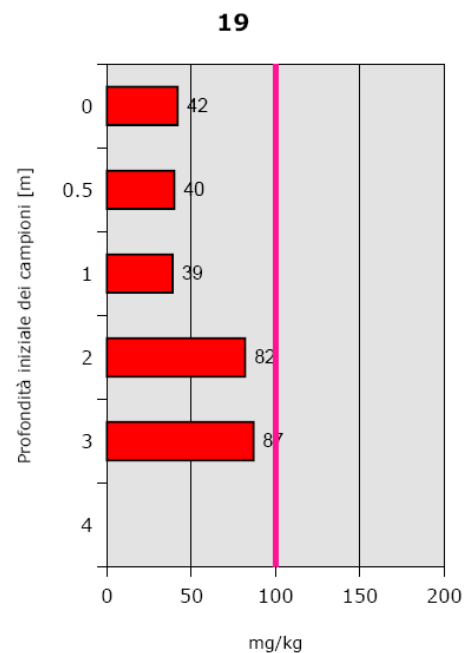
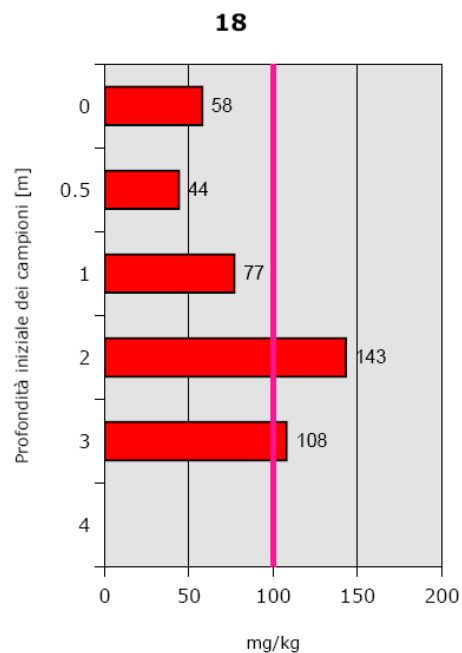
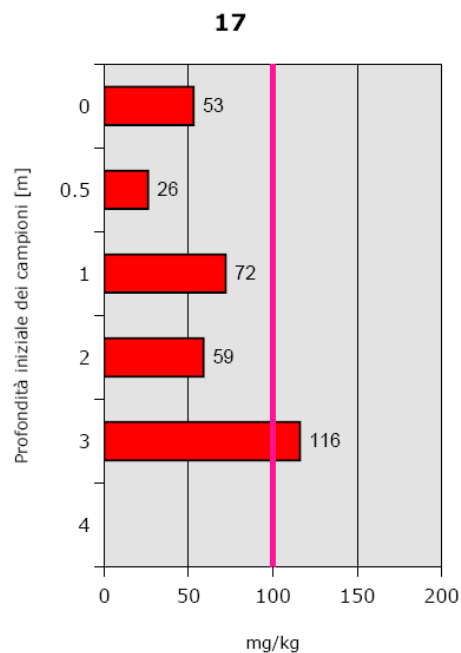
# Concentrazioni di piombo riscontrate per i diversi sondaggi a differenti profondità (lim A 100mg/kg, B 1000mg/kg)



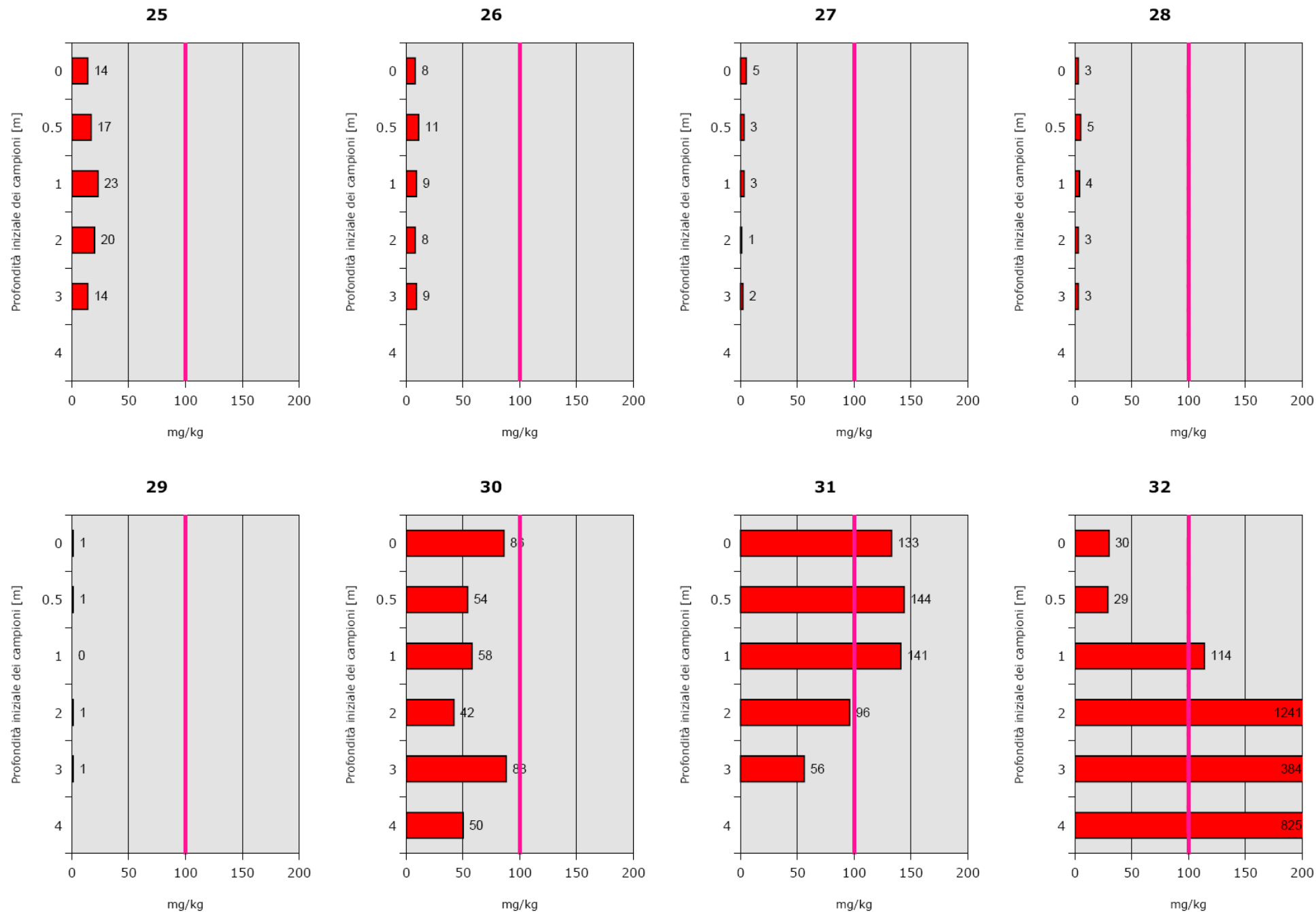
# Concentrazioni di piombo riscontrate per i diversi sondaggi a differenti profondità (lim A 100mg/kg, B 1000mg/kg)



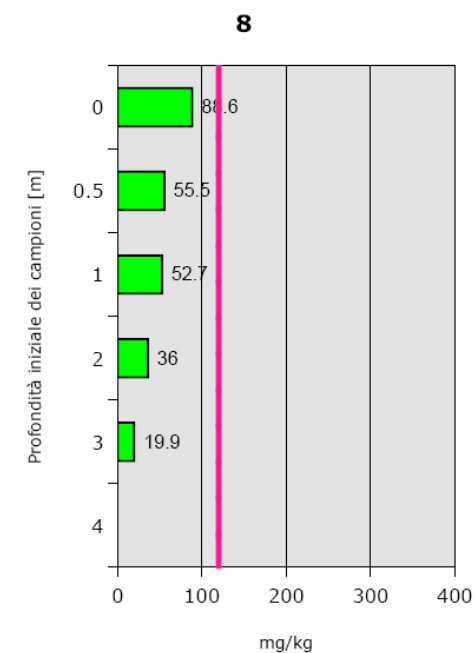
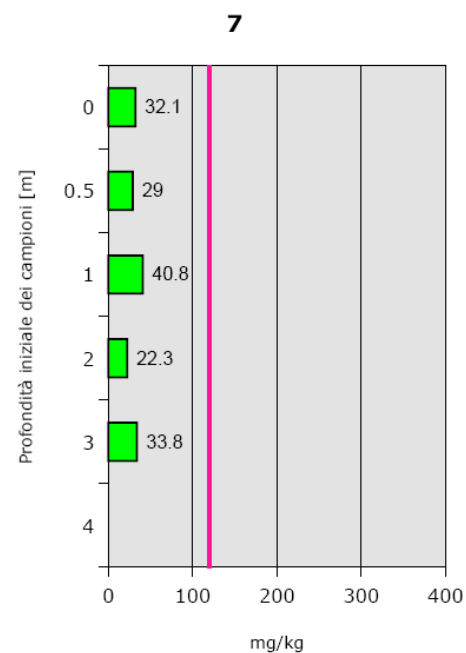
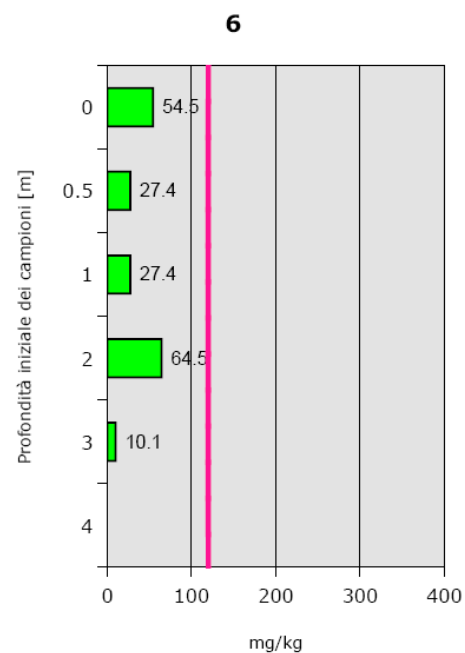
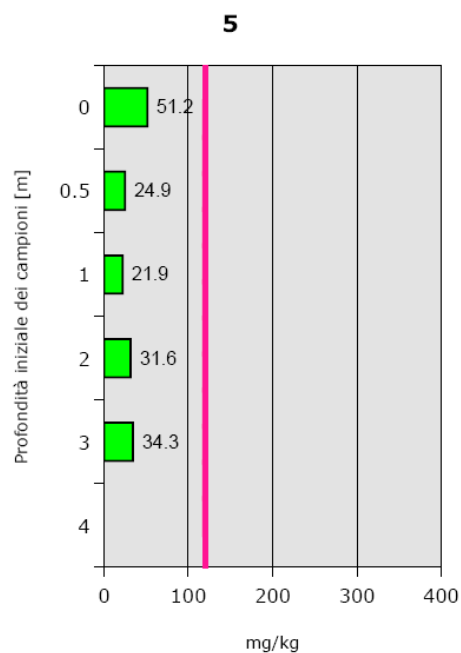
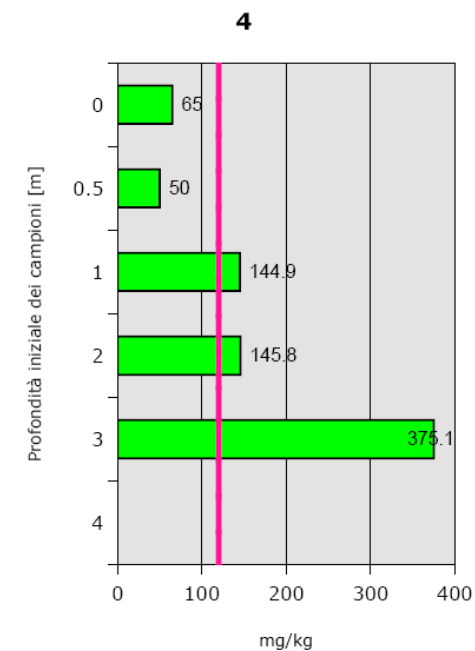
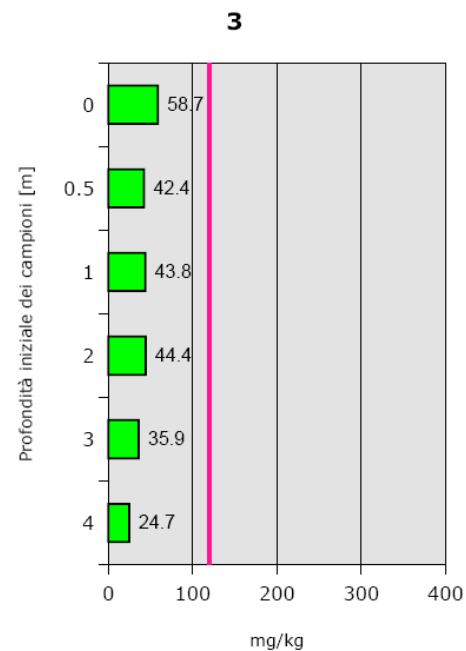
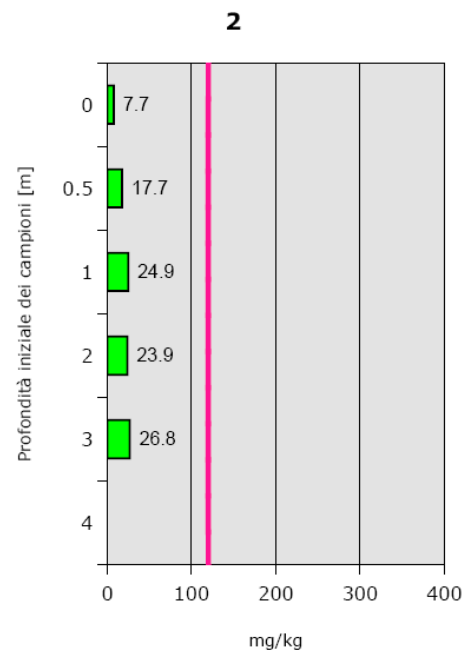
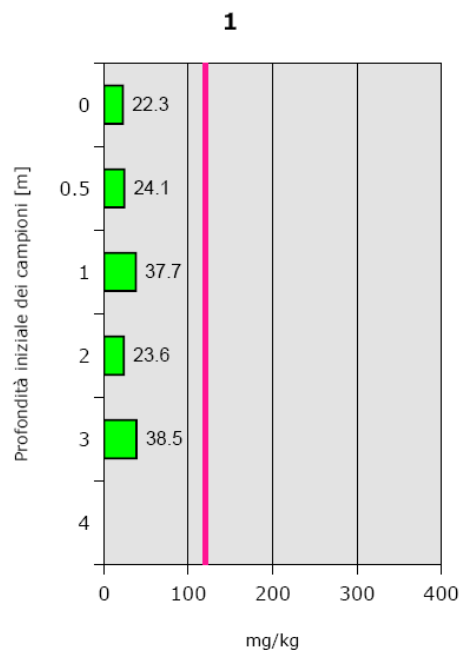
# Concentrazioni di piombo riscontrate per i diversi sondaggi a differenti profondità (lim A 100mg/kg, B 1000mg/kg)



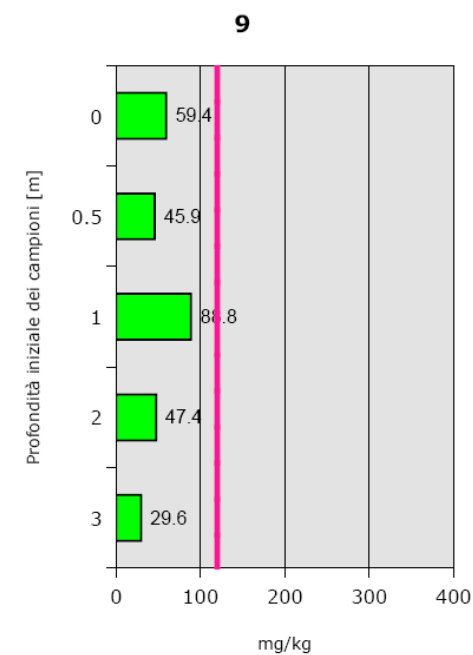
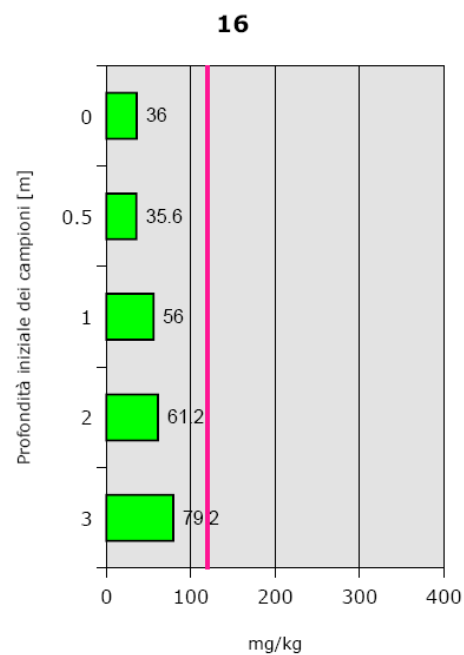
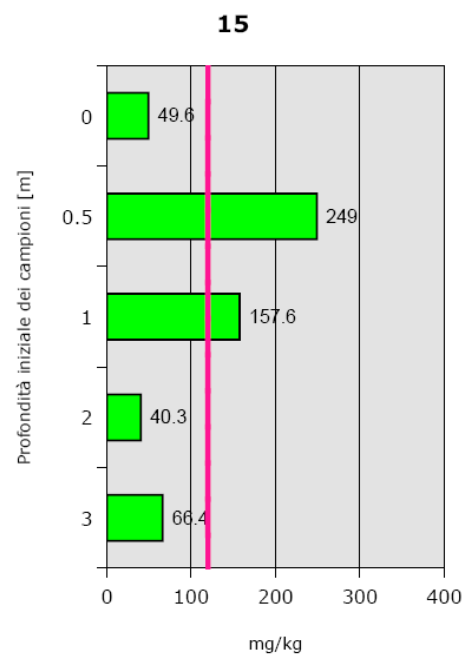
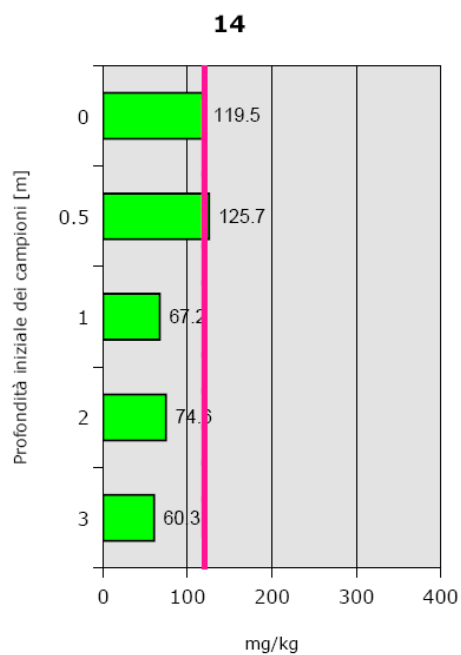
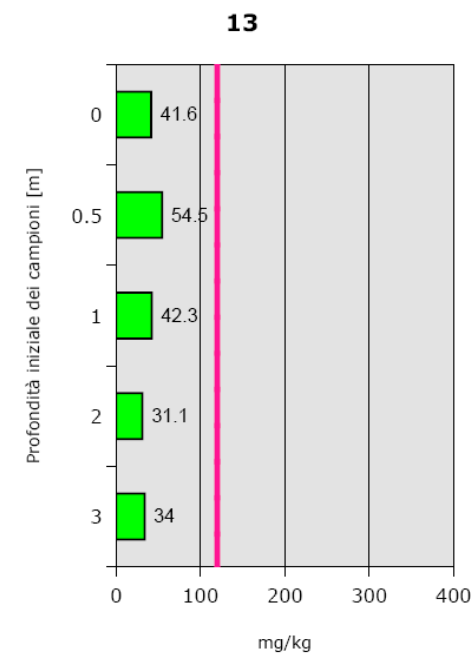
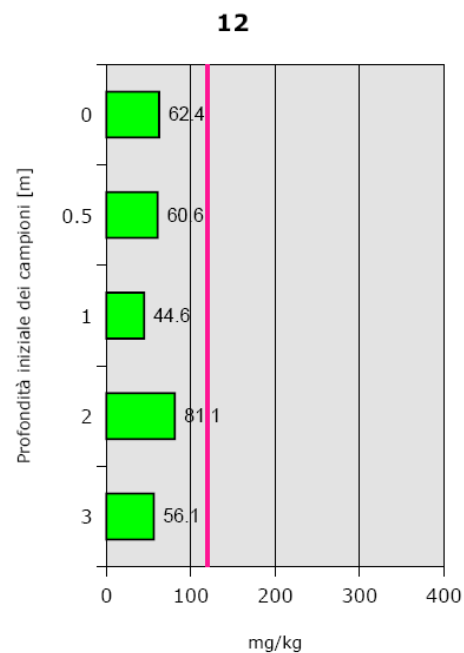
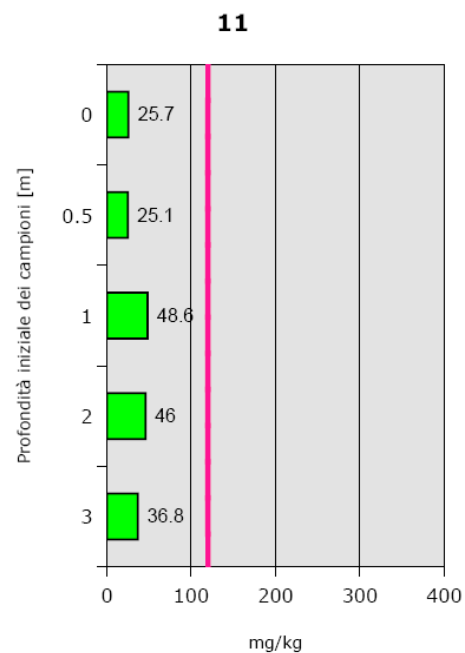
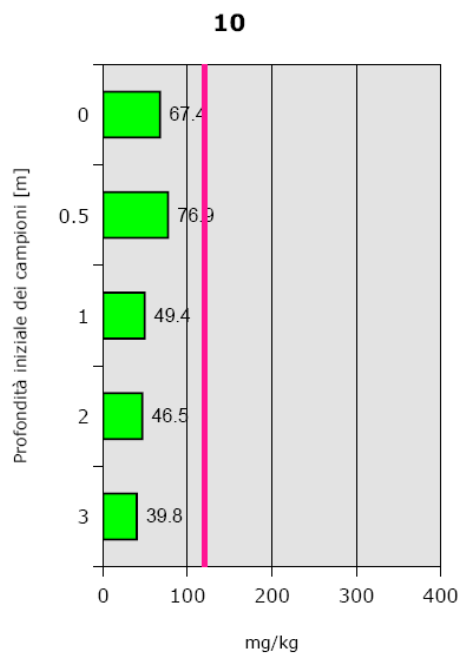
# Concentrazioni di piombo riscontrate per i diversi sondaggi a differenti profondità (lim A 100mg/kg, B 1000mg/kg)



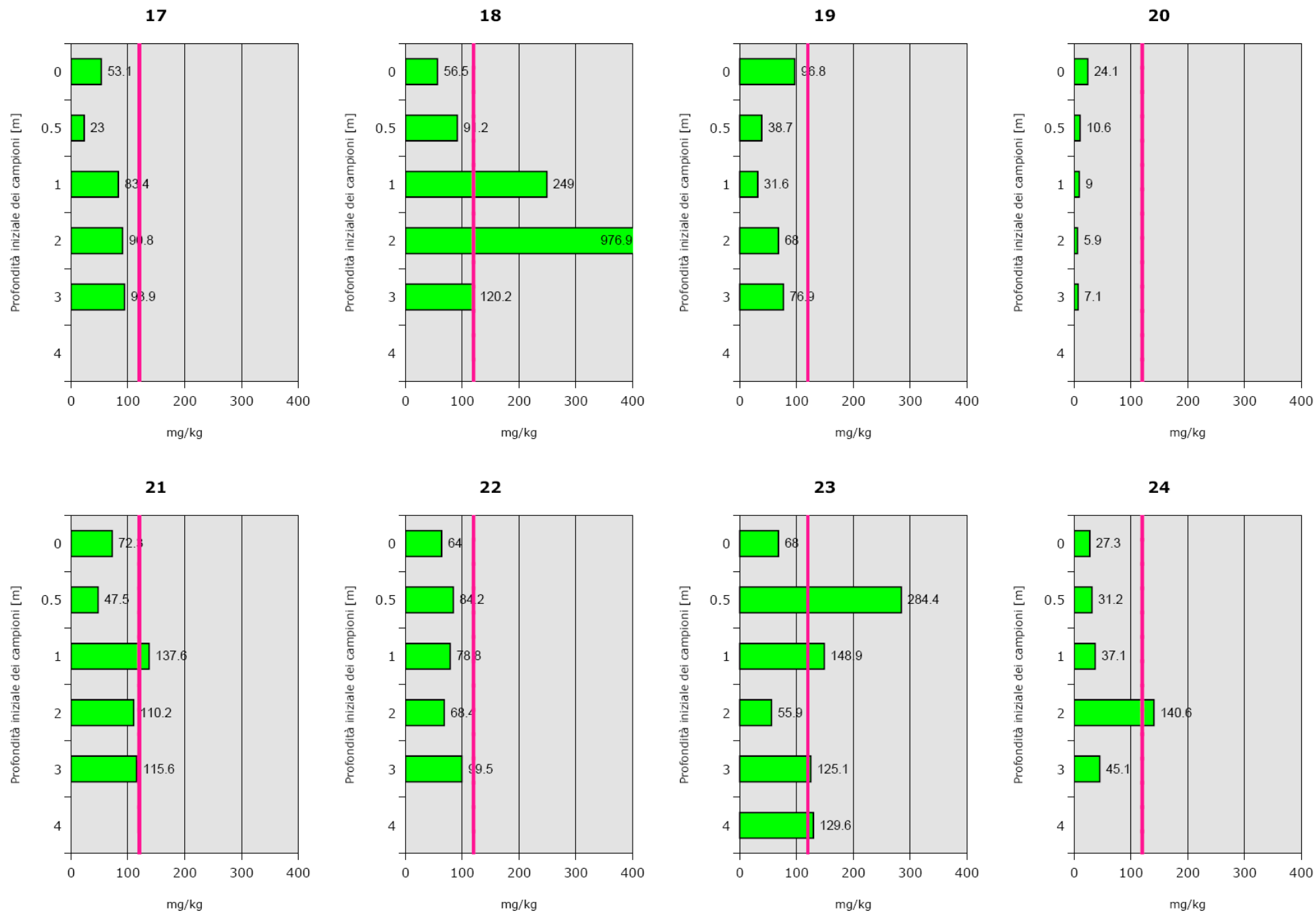
# Concentrazioni di rame riscontrate per i diversi sondaggi a differenti profondità (lim A 120mg/kg, B 600mg/kg)



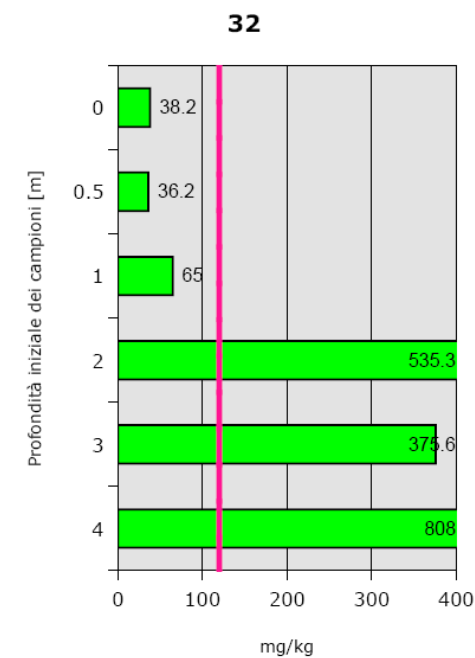
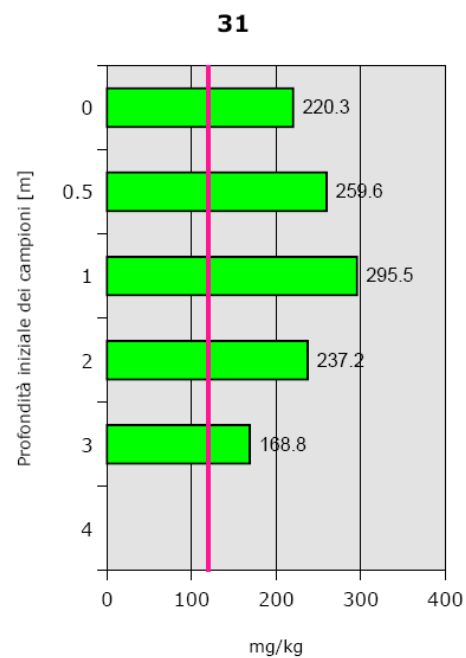
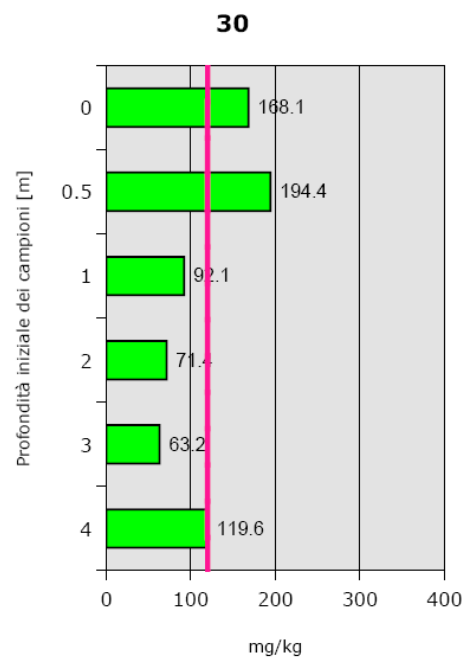
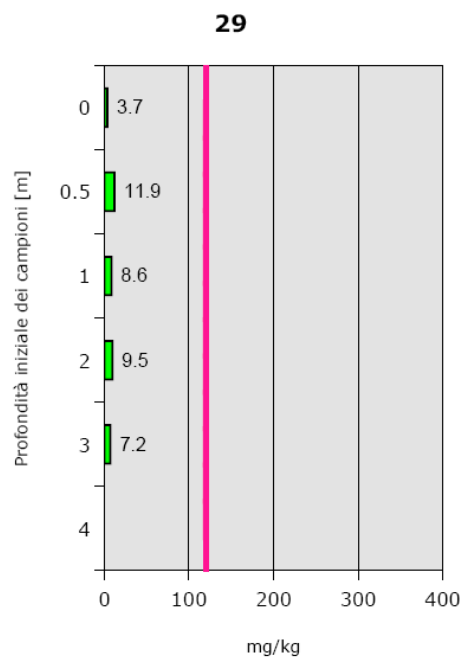
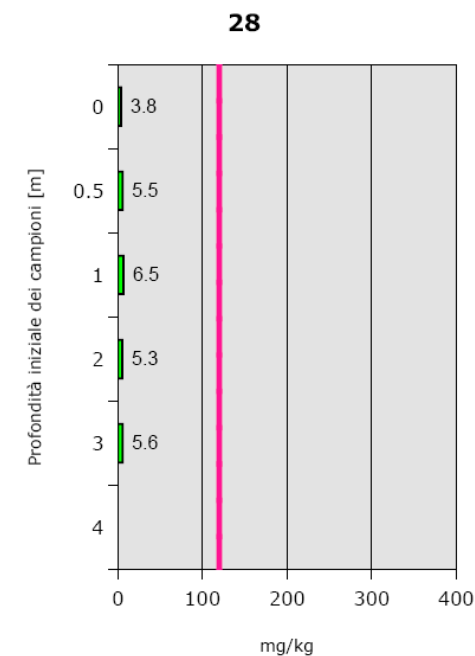
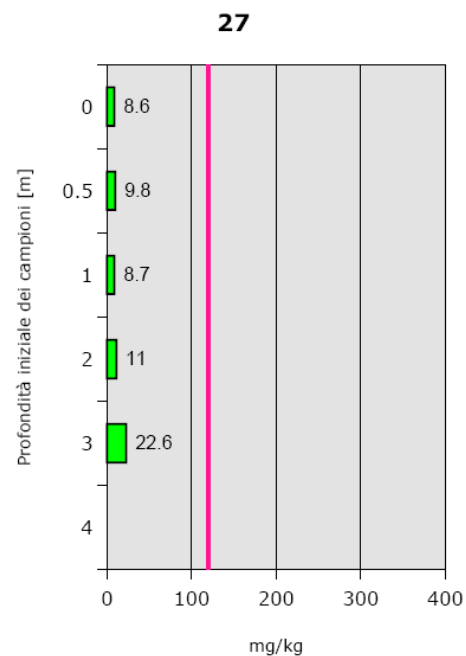
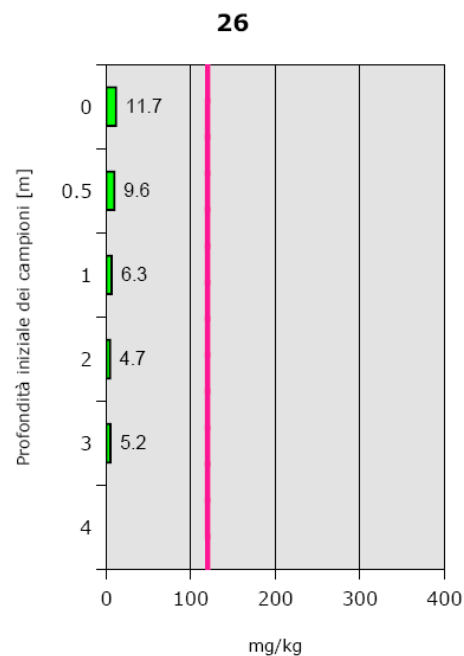
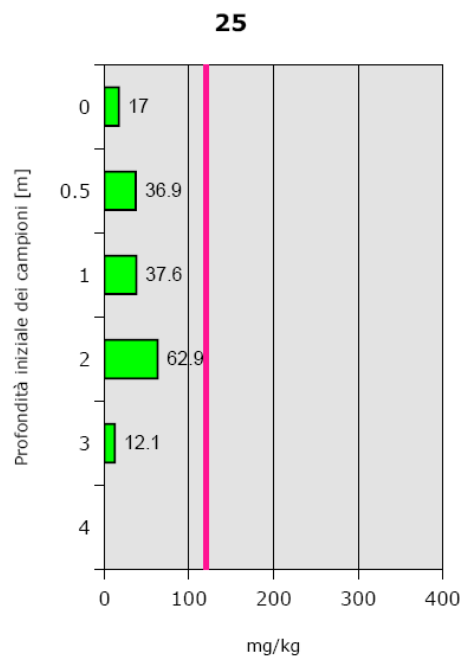
# Concentrazioni di rame riscontrate per i diversi sondaggi a differenti profondità (lim A 120mg/kg, B 600mg/kg)



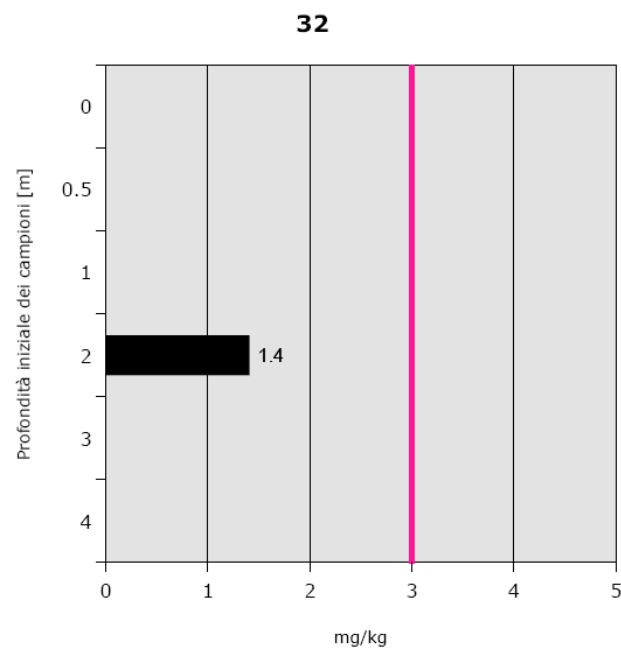
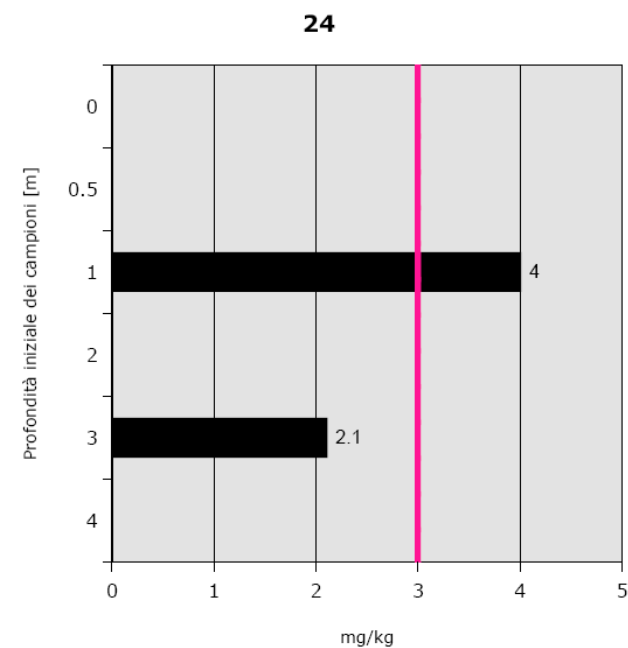
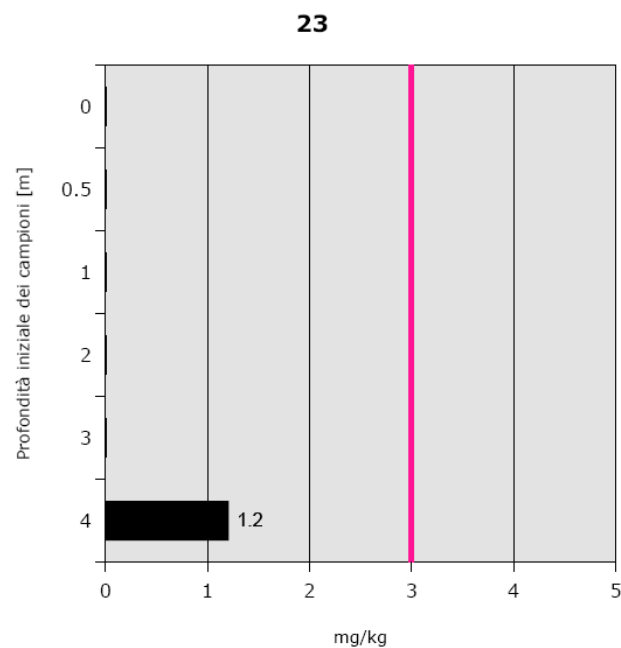
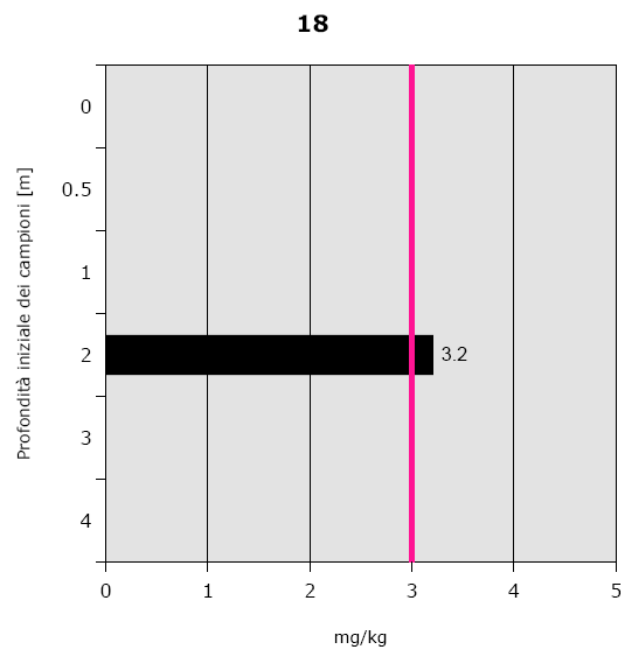
# Concentrazioni di rame riscontrate per i diversi sondaggi a differenti profondità (lim A 120mg/kg, B 600mg/kg)



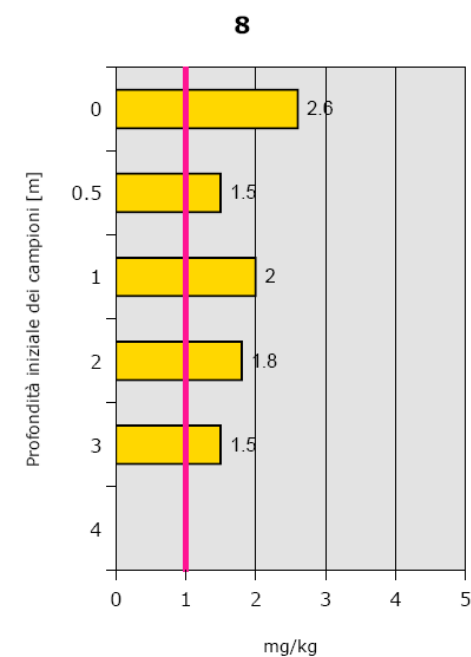
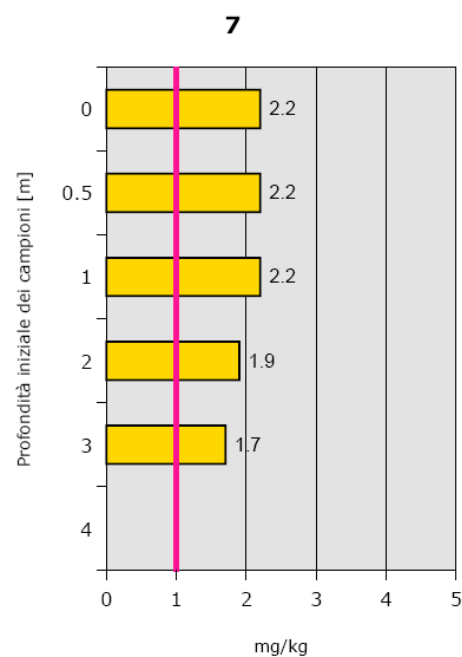
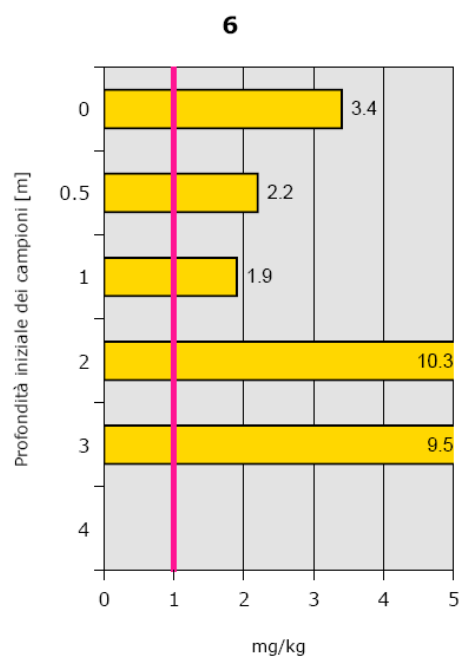
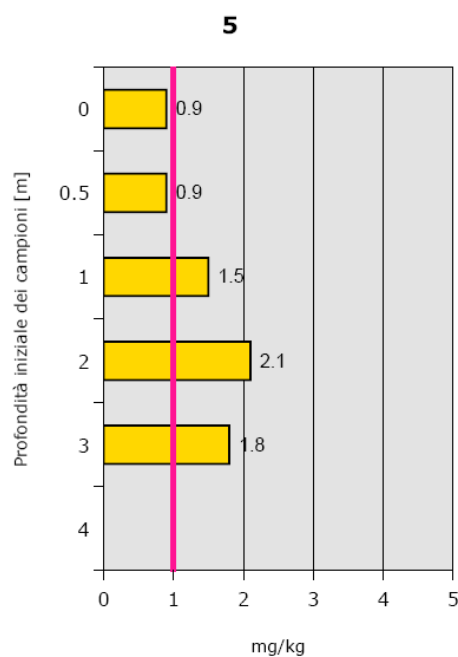
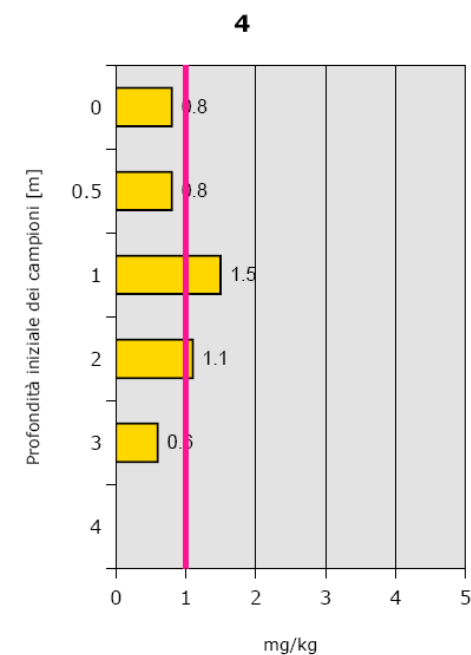
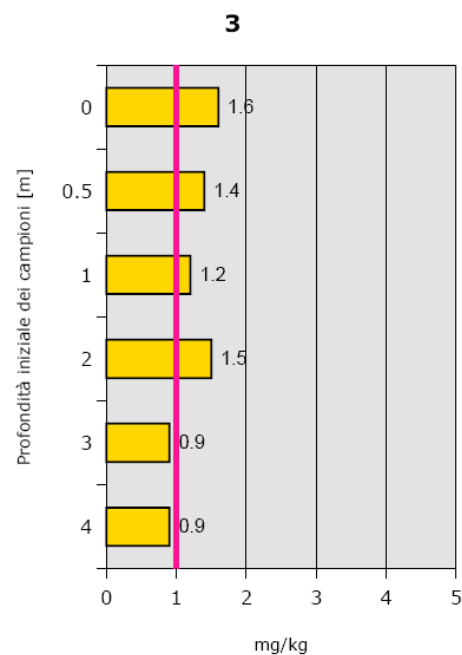
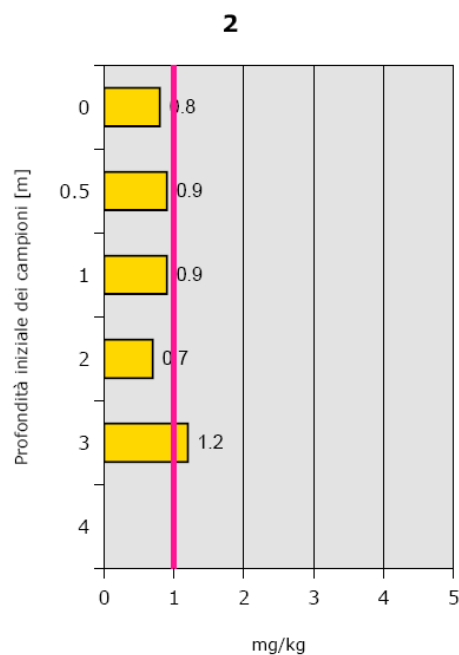
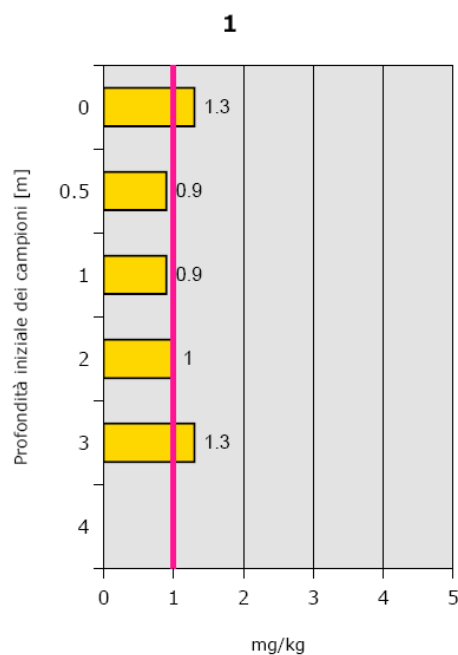
# Concentrazioni di rame riscontrate per i diversi sondaggi a differenti profondità (lim A 120mg/kg, B 600mg/kg)



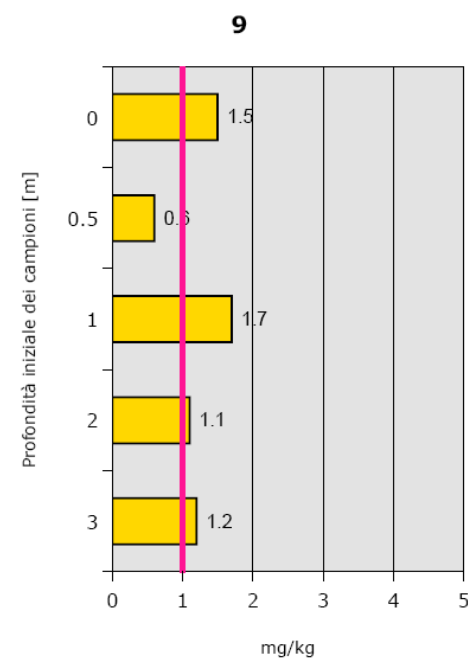
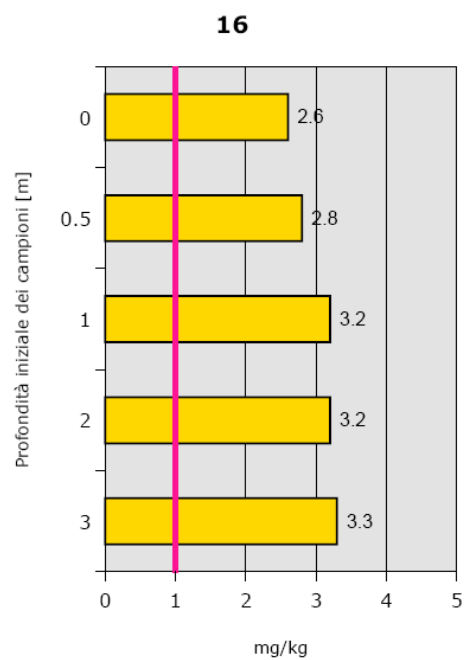
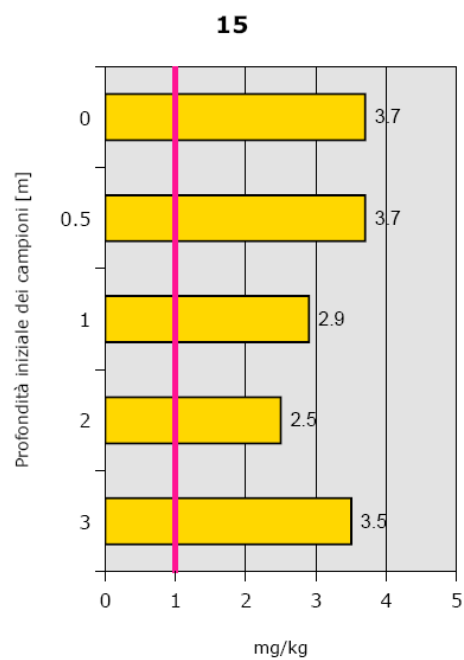
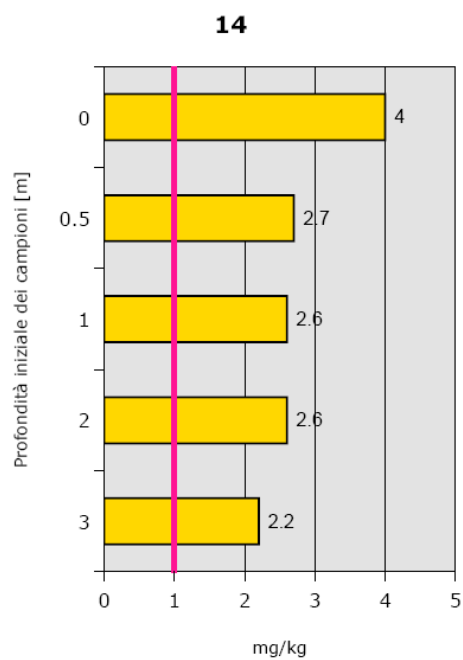
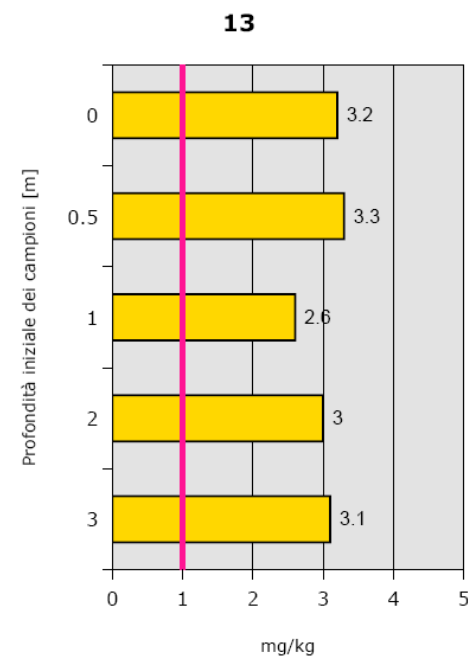
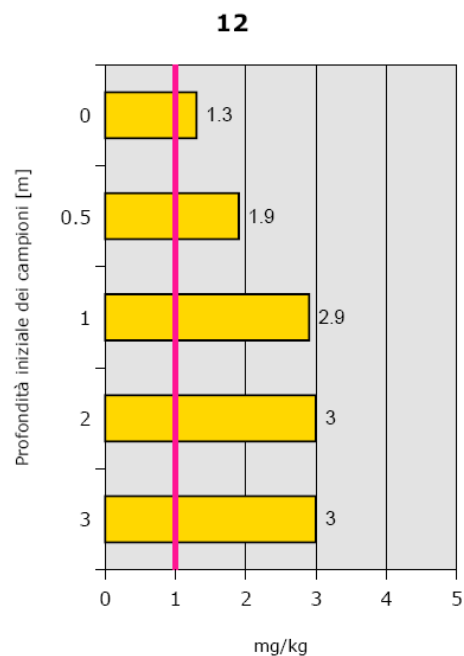
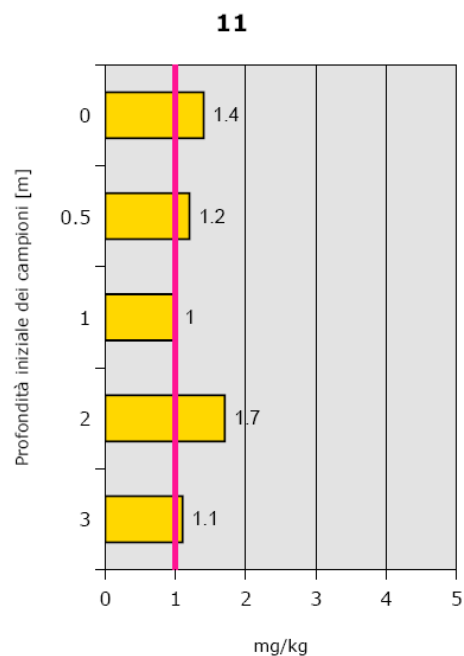
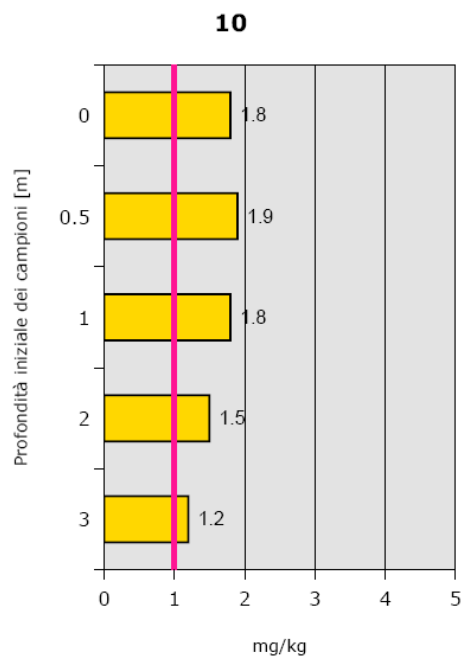
Concentrazioni di selenio riscontrate per i diversi sondaggi a differenti profondità (lim A 3 mg/kg, B 15 mg/kg)



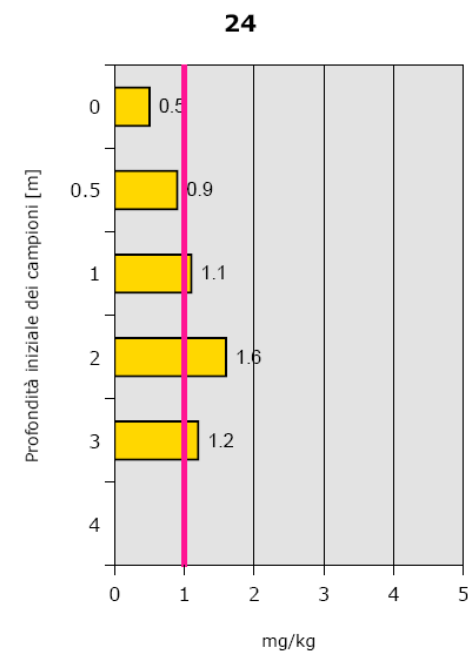
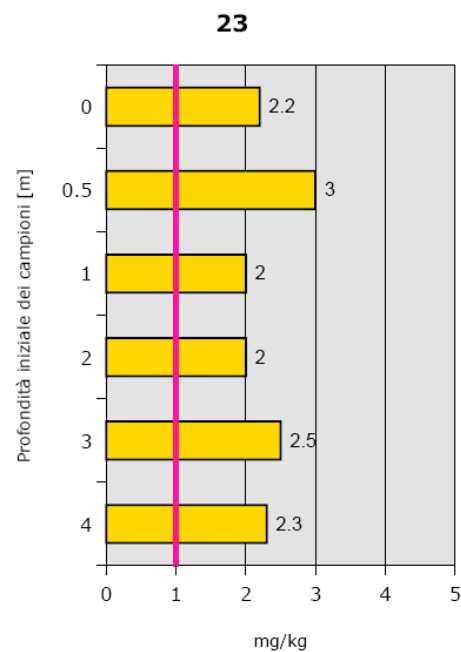
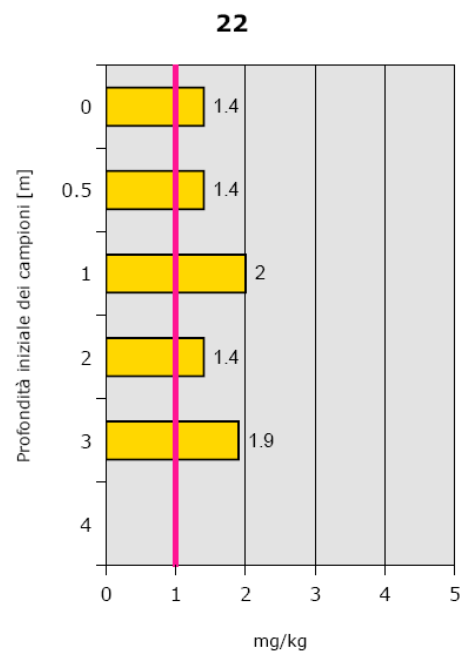
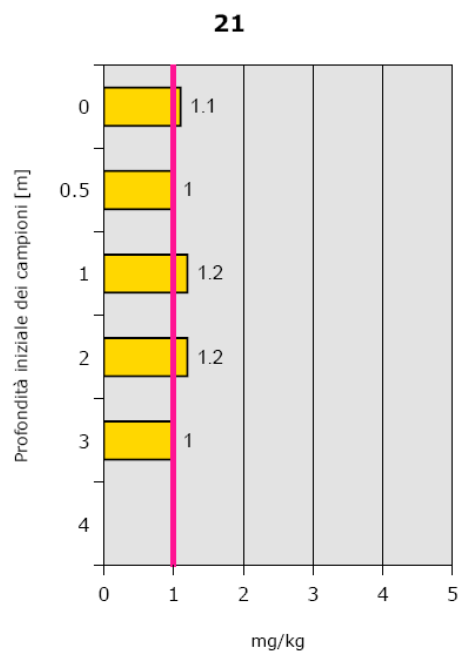
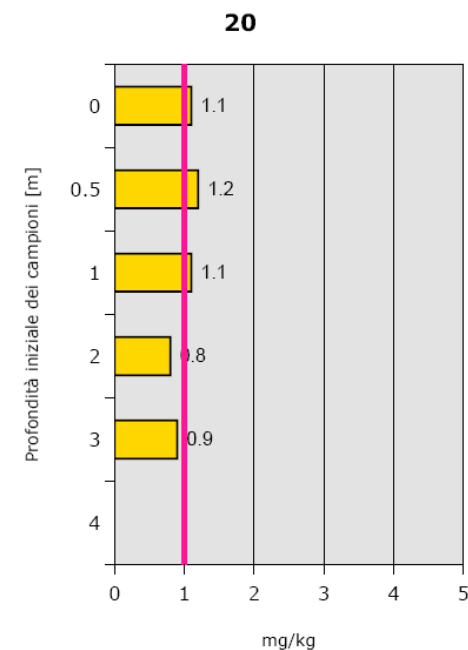
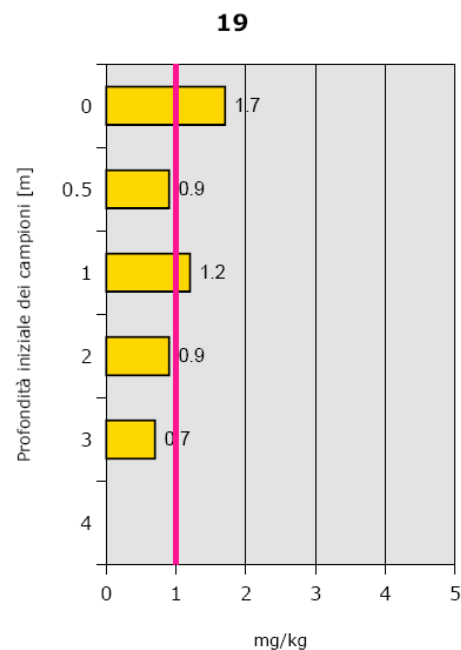
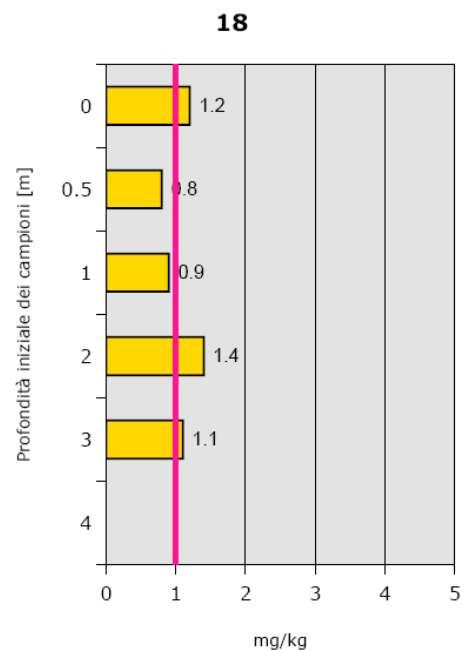
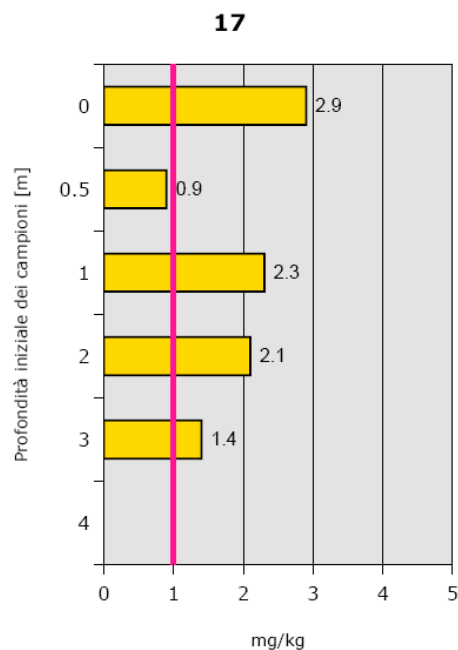
# Concentrazioni di stagno riscontrate per i diversi sondaggi a differenti profondità (lim A 1 mg/kg, B 350 mg/kg)



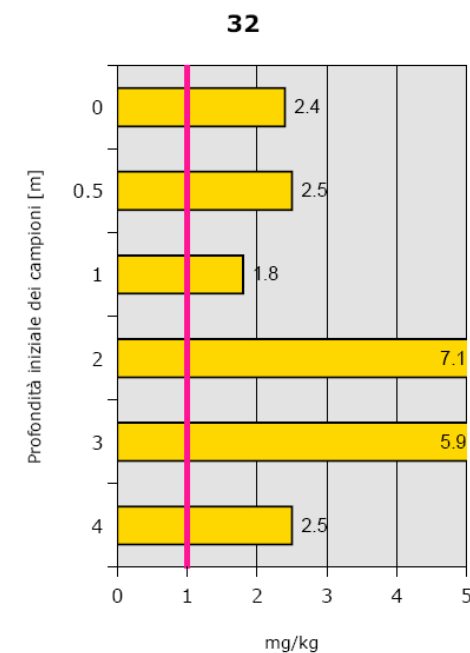
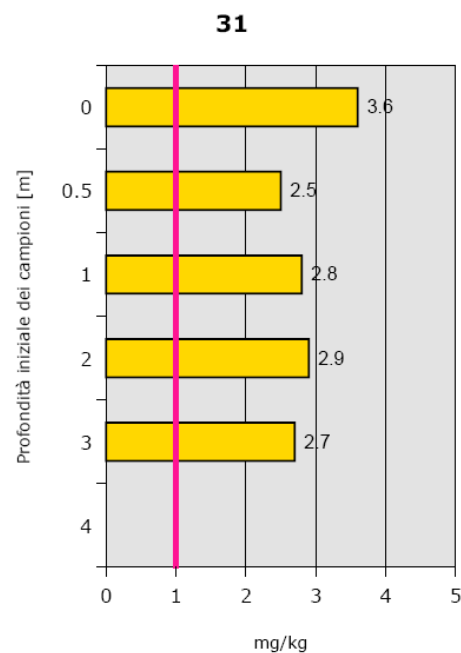
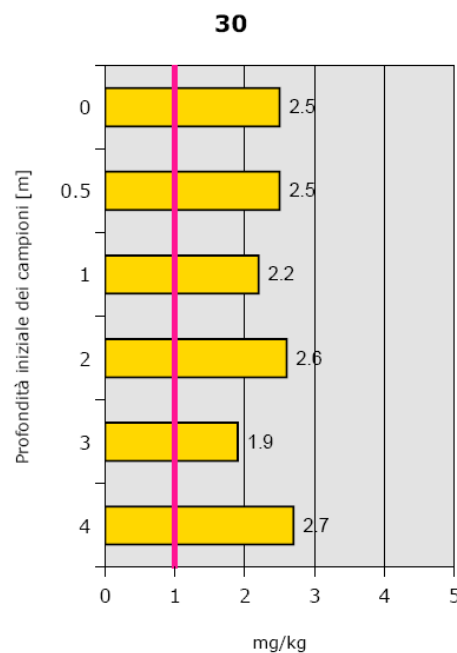
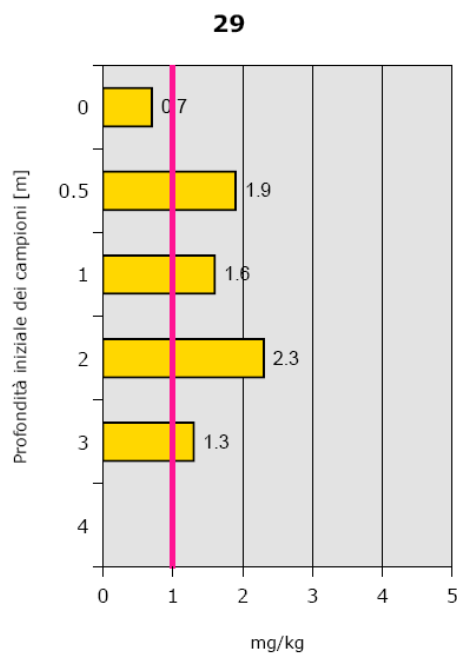
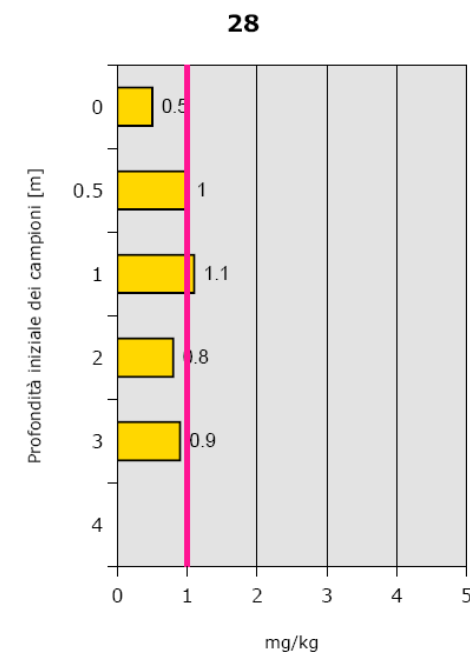
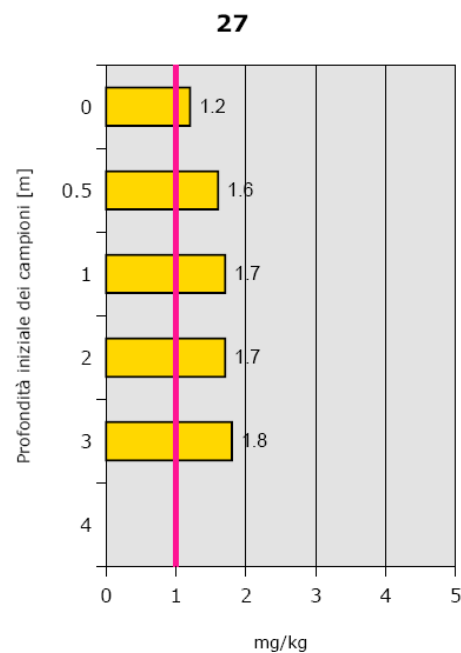
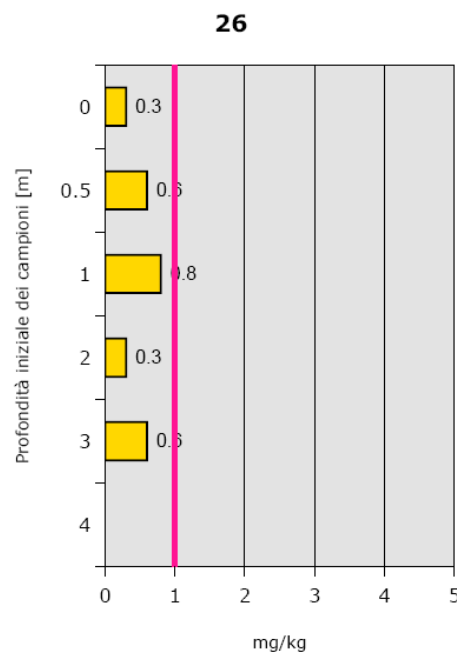
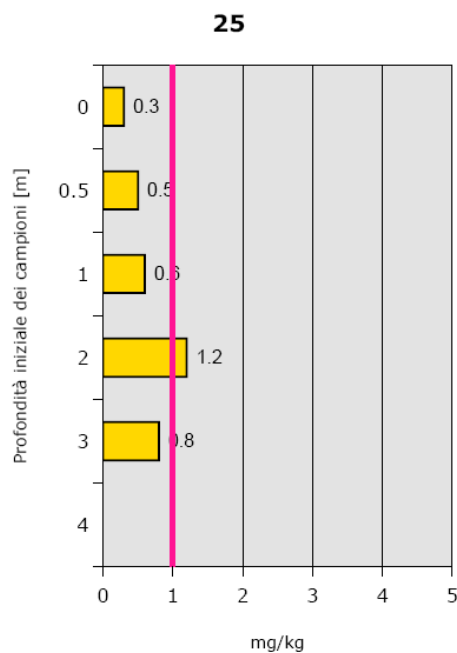
Concentrazioni di stagno riscontrate per i diversi sondaggi a differenti profondità (lim A 1 mg/kg, B 350 mg/kg)



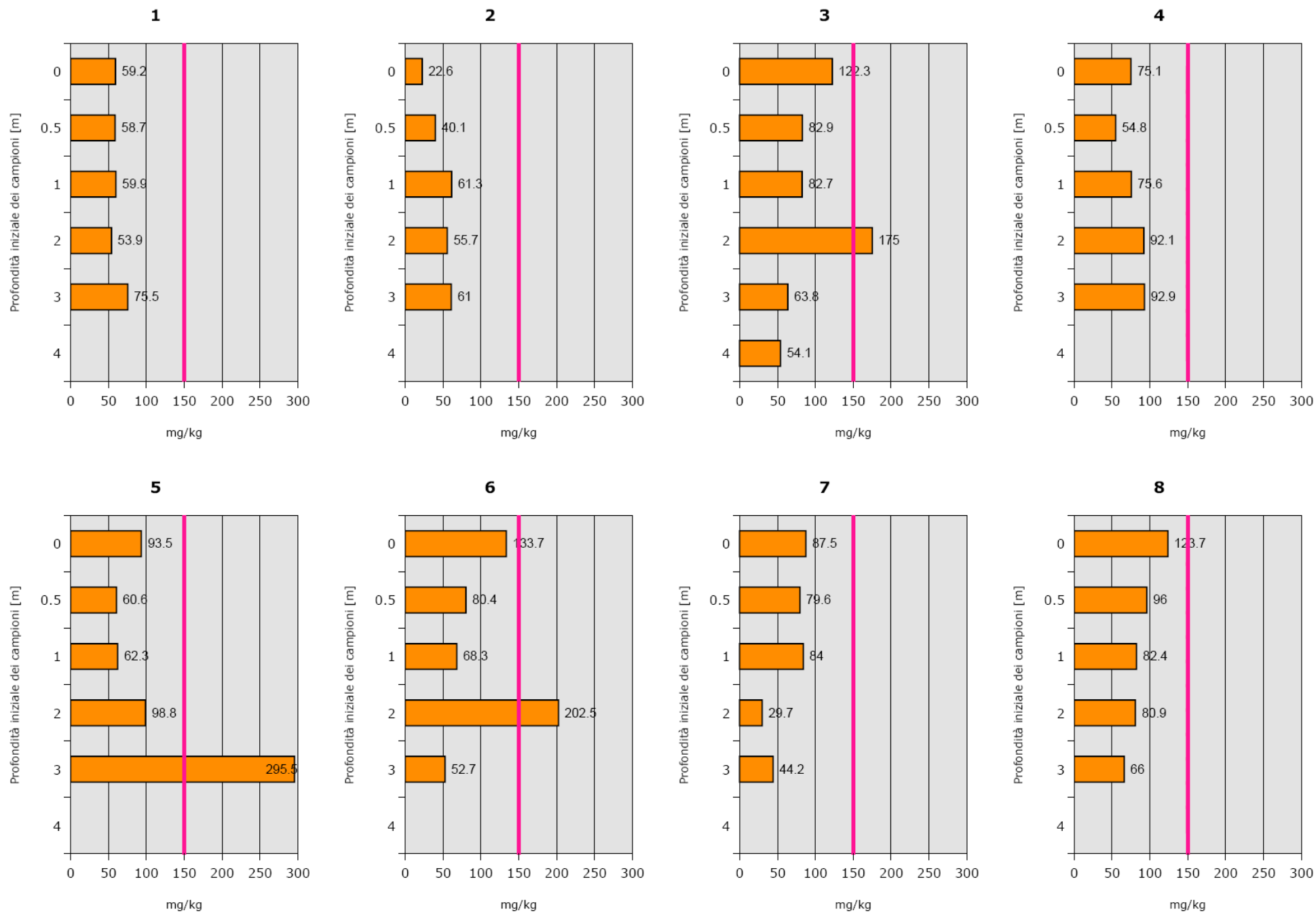
# Concentrazioni di stagno riscontrate per i diversi sondaggi a differenti profondità (lim A 1 mg/kg, B 350 mg/kg)



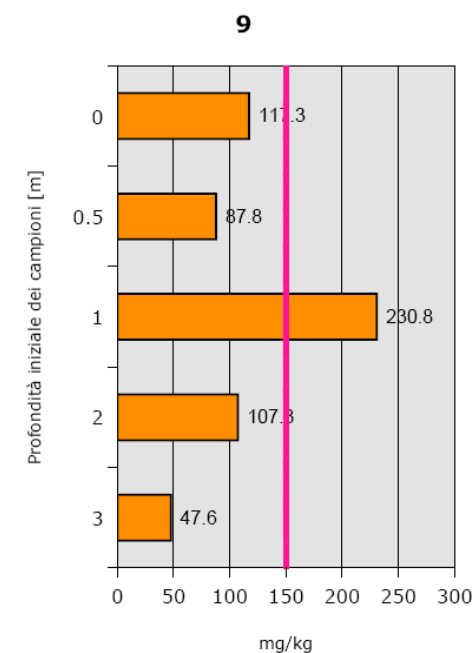
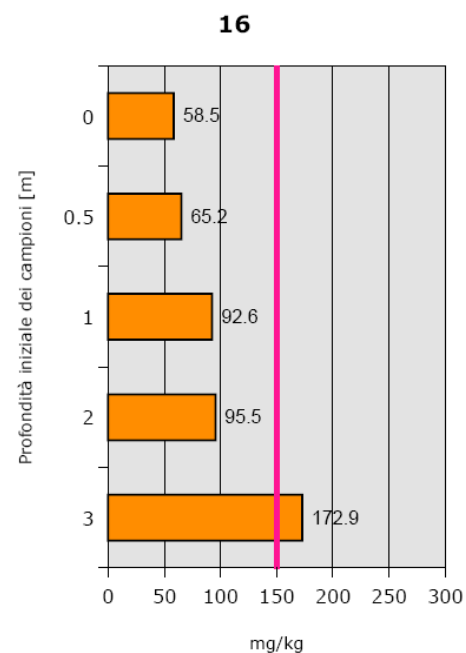
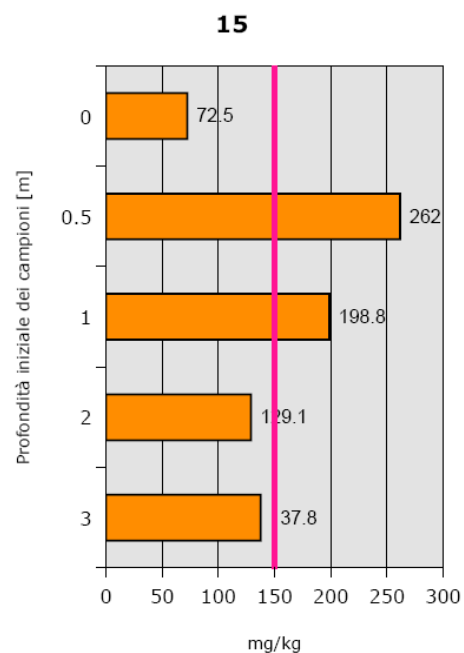
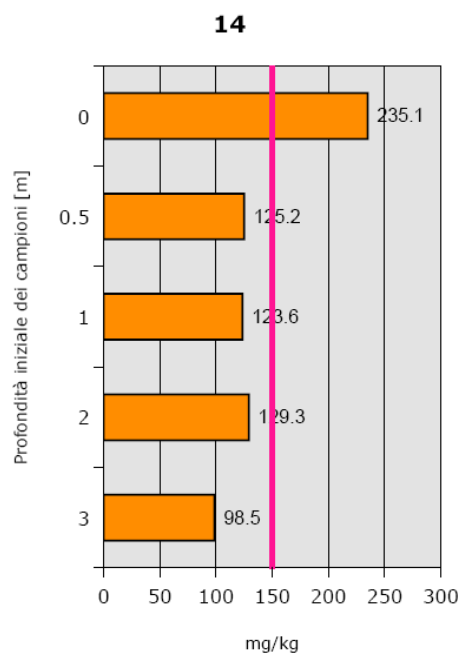
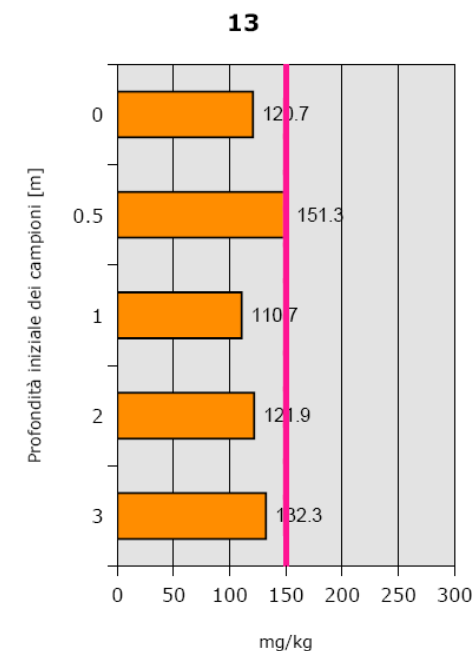
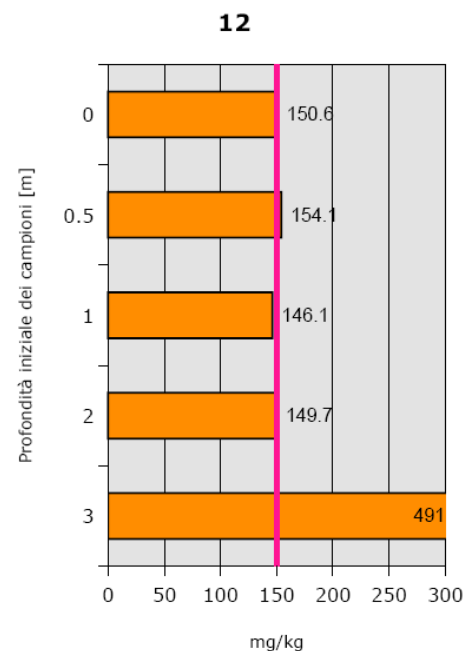
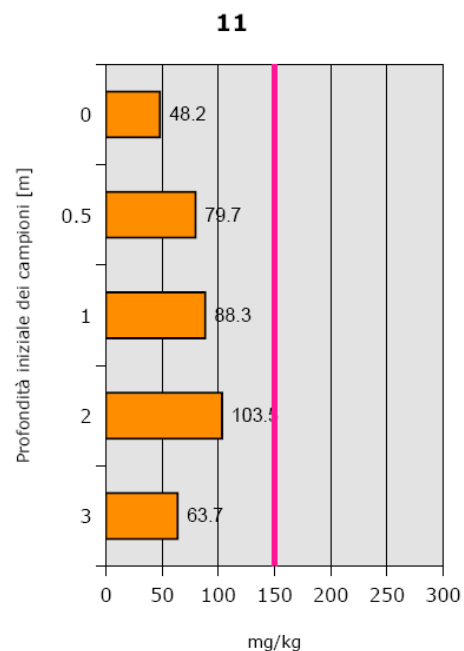
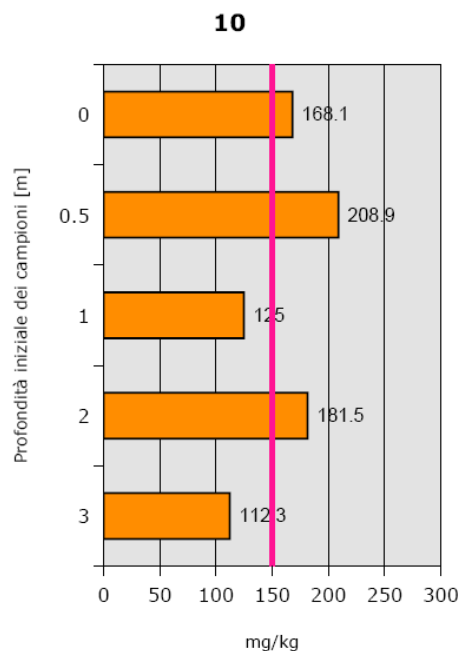
# Concentrazioni di stagno riscontrate per i diversi sondaggi a differenti profondità (lim A 1 mg/kg, B 350 mg/kg)



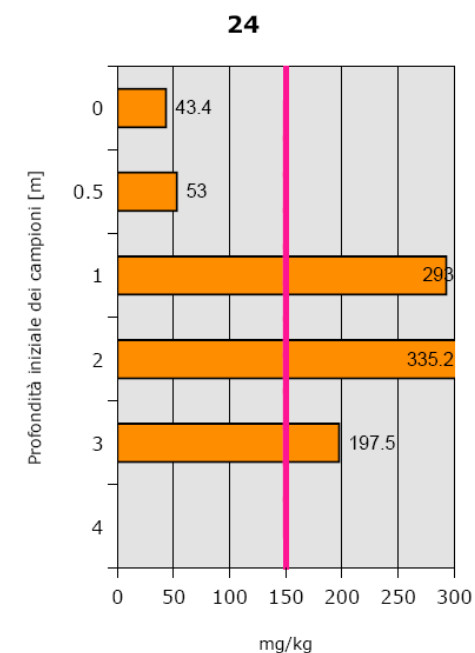
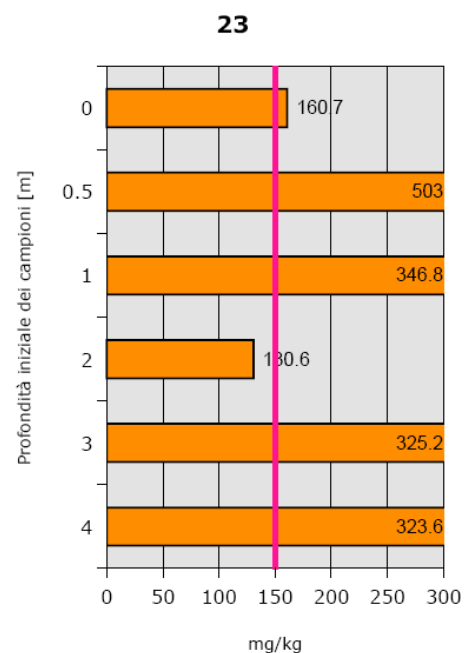
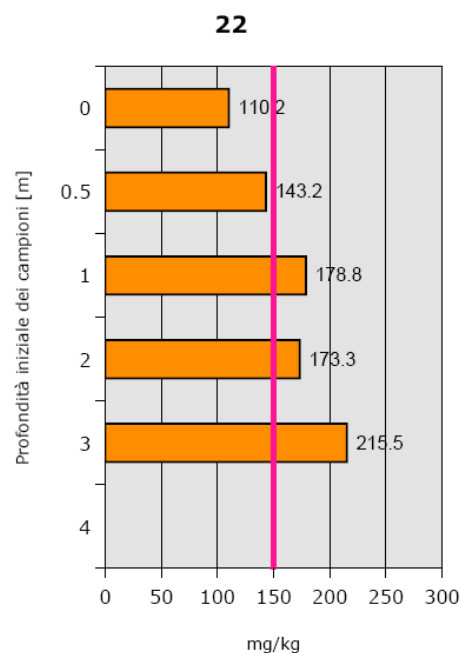
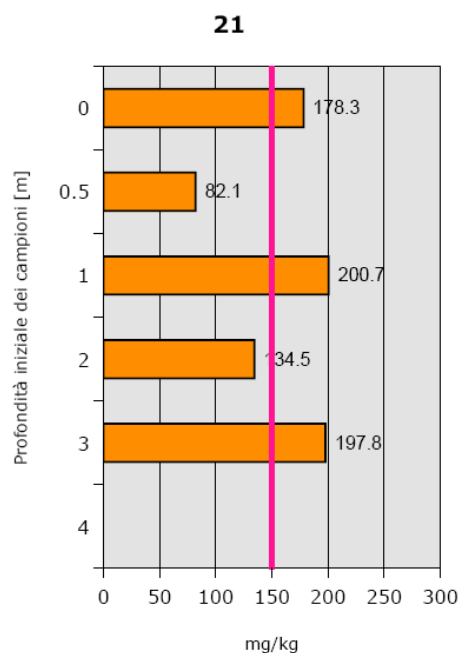
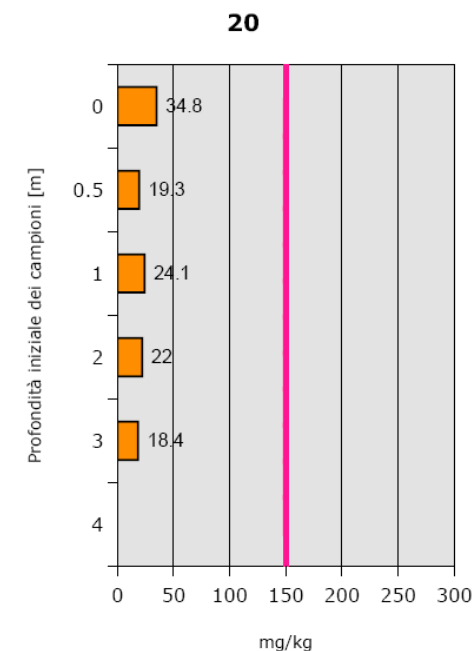
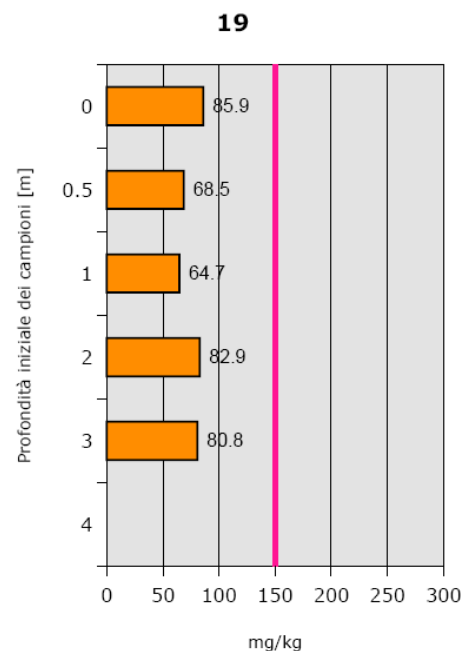
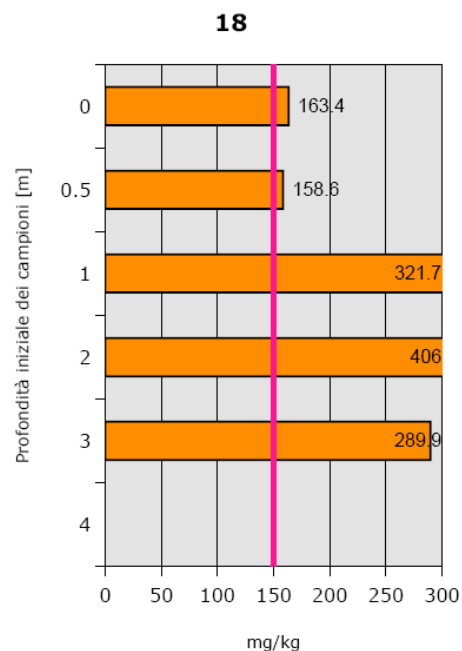
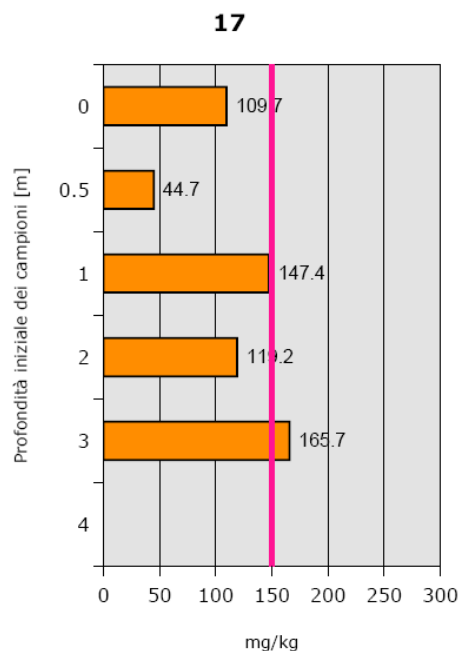
## Concentrazioni di zinco riscontrate per i diversi sondaggi a differenti profondità (lim A 150mg/kg, B 1500mg/kg)



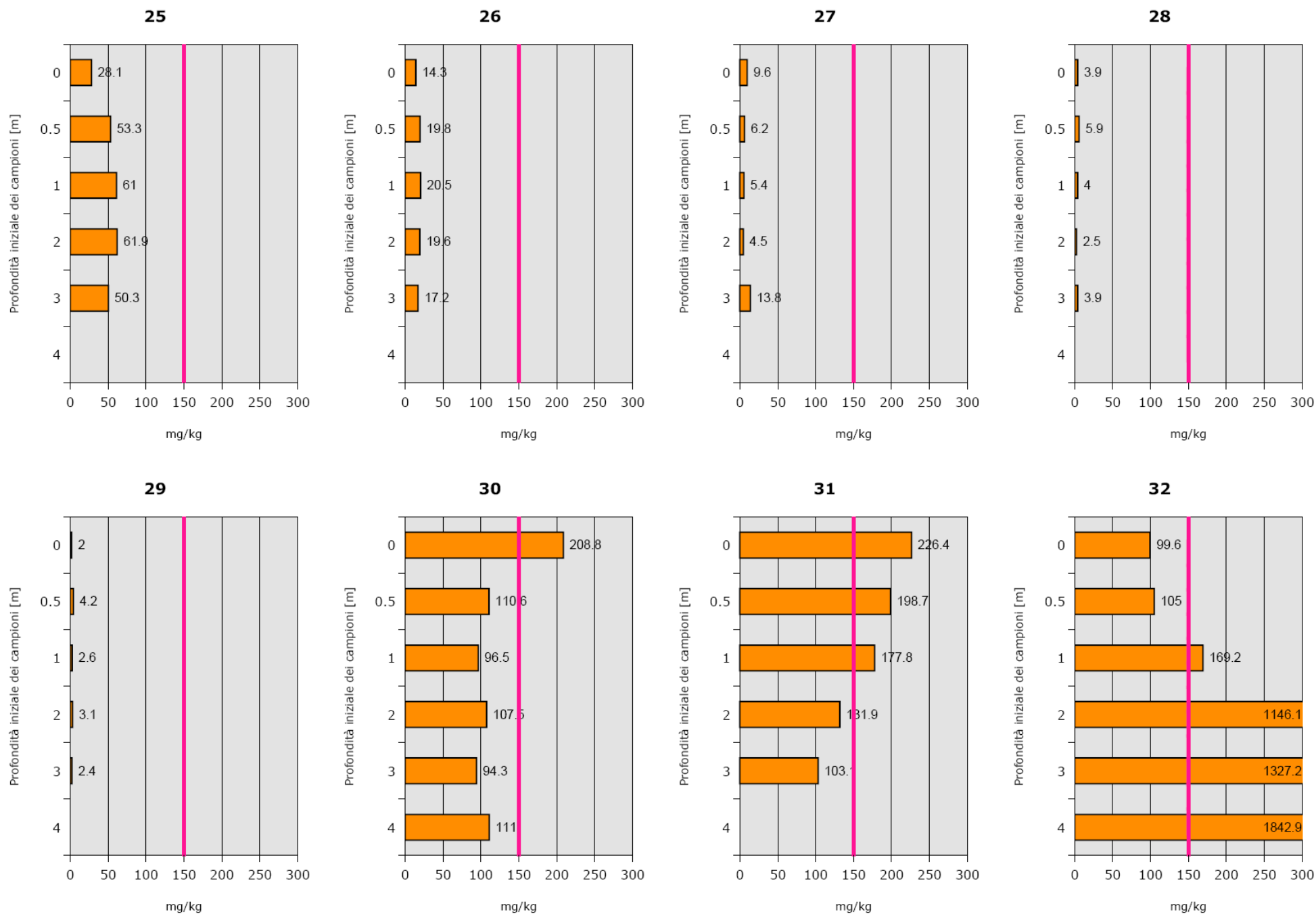
Concentrazioni di zinco riscontrate per i diversi sondaggi a differenti profondità (lim A 150mg/kg, B 1500mg/kg)



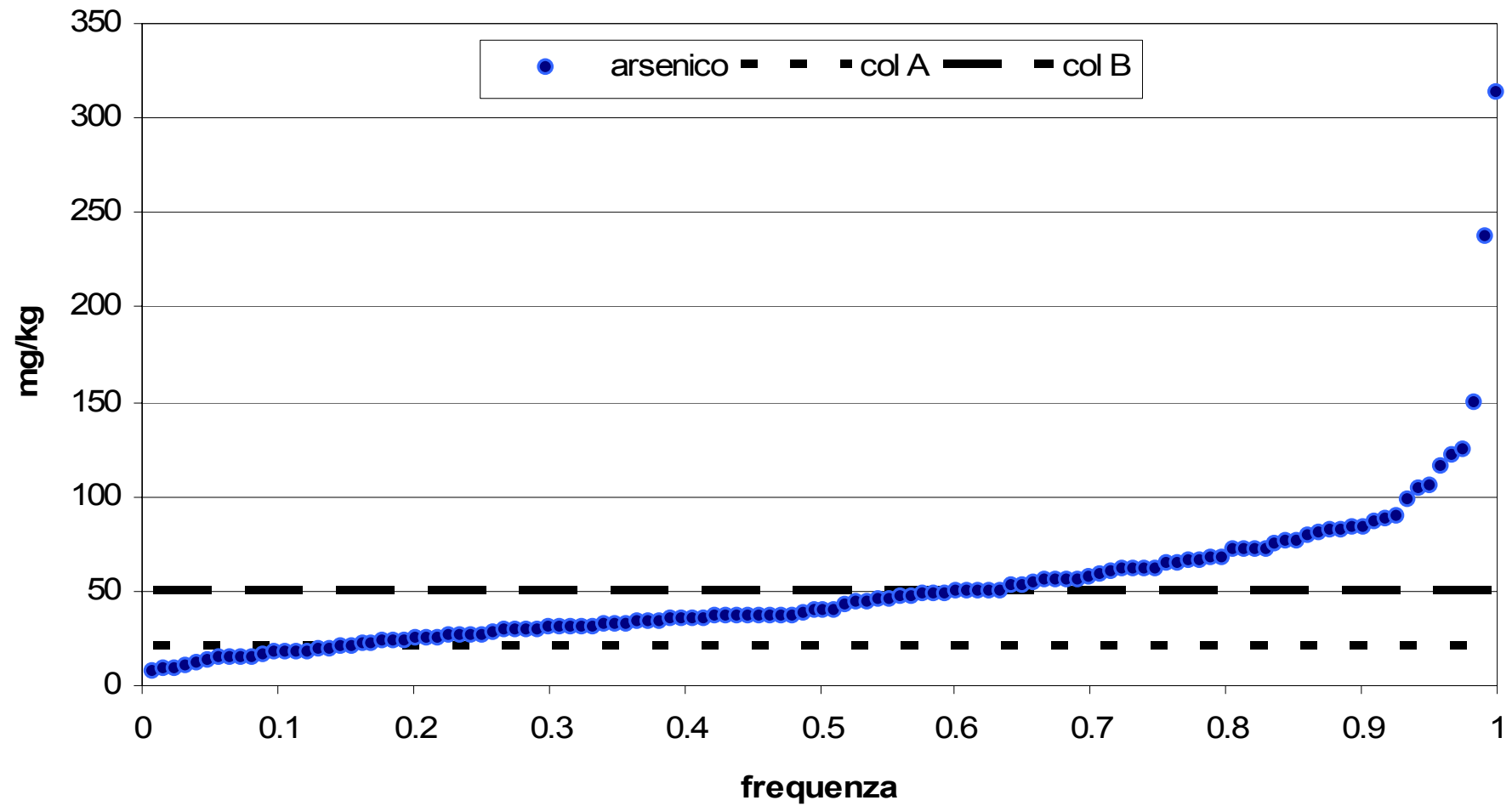
# Concentrazioni di zinco riscontrate per i diversi sondaggi a differenti profondità (lim A 150mg/kg, B 1500mg/kg)



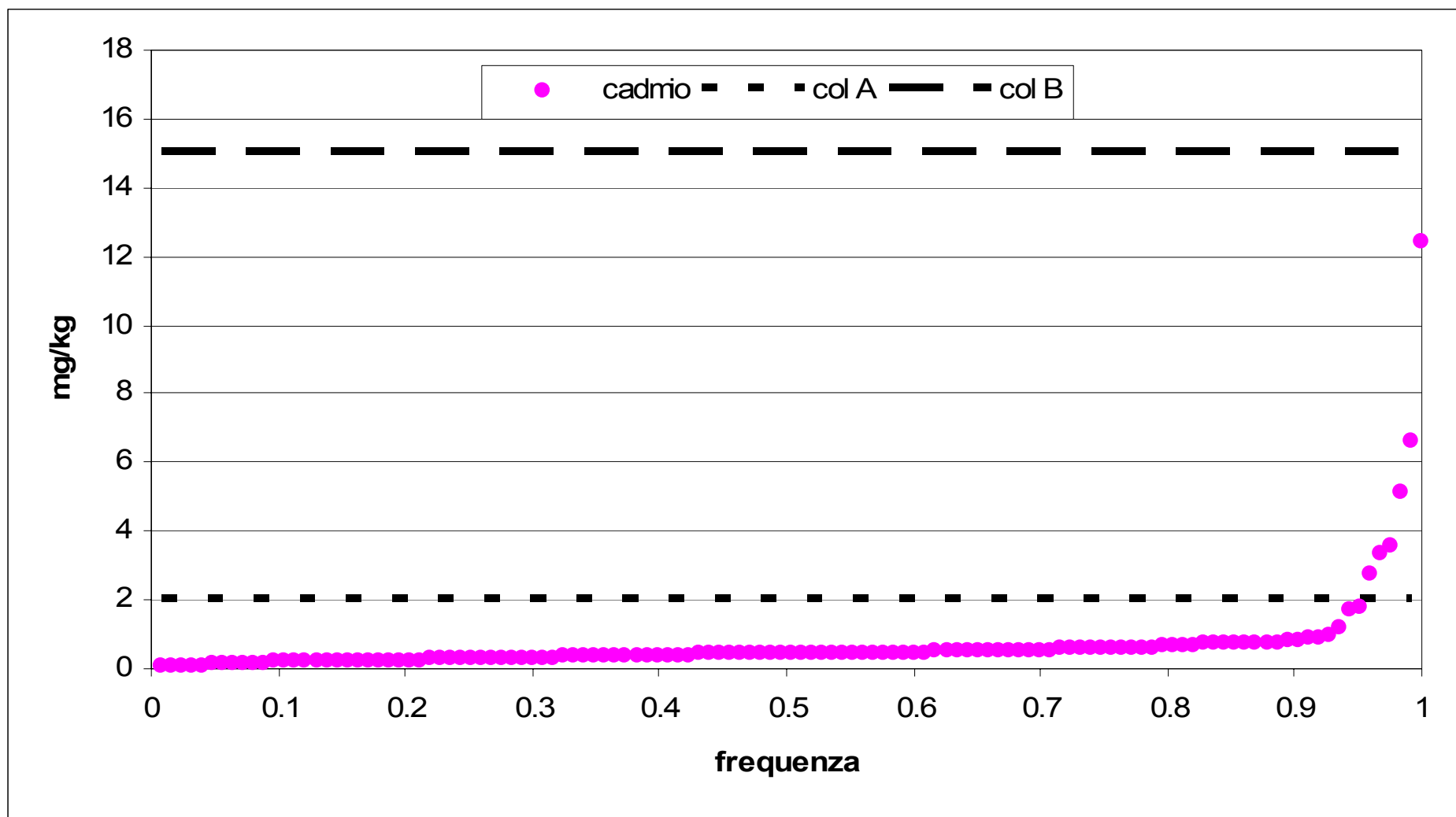
# Concentrazioni di zinco riscontrate per i diversi sondaggi a differenti profondità (lim A 150mg/kg, B 1500mg/kg)



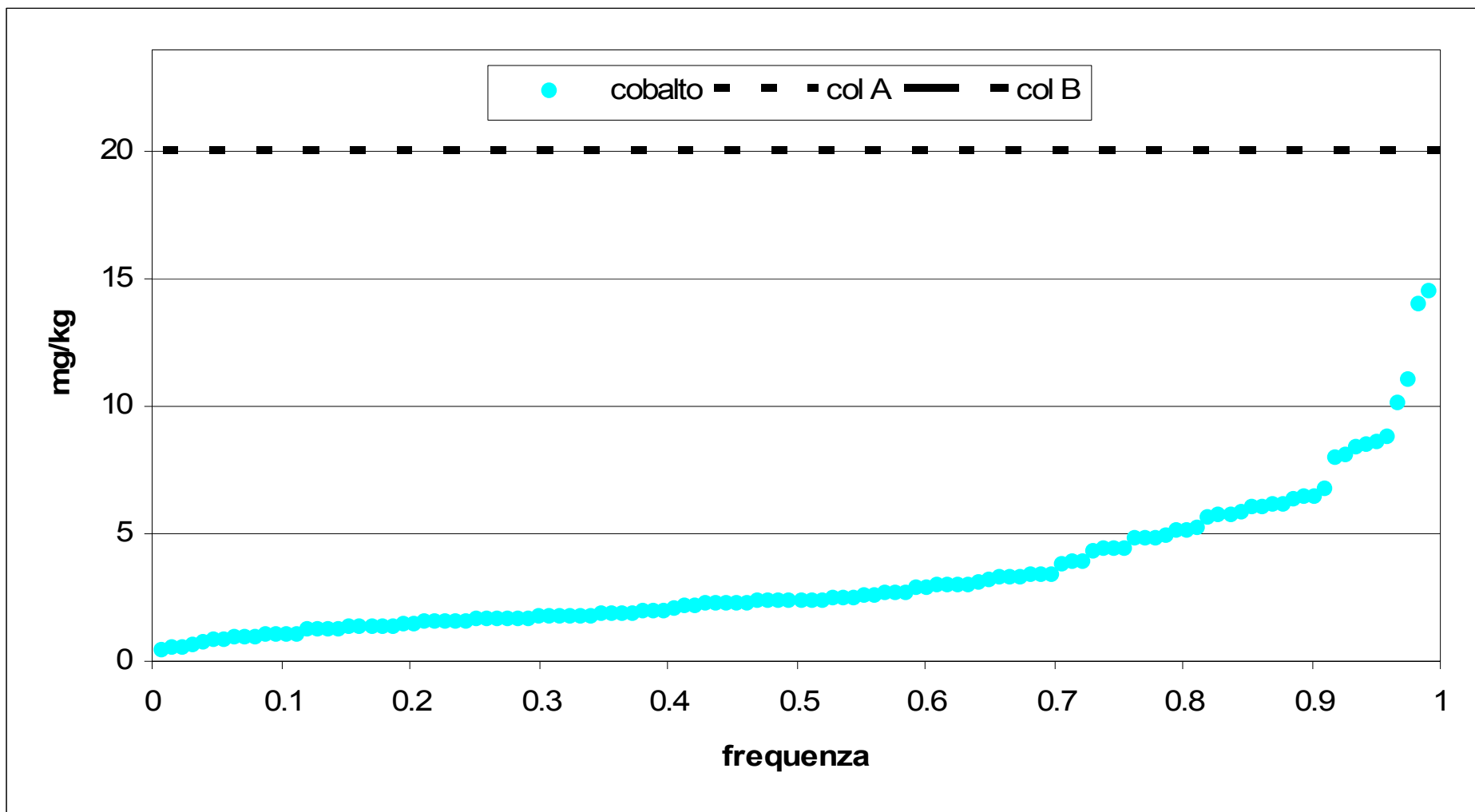
Curve cumulative di frequenza: Arsenico.



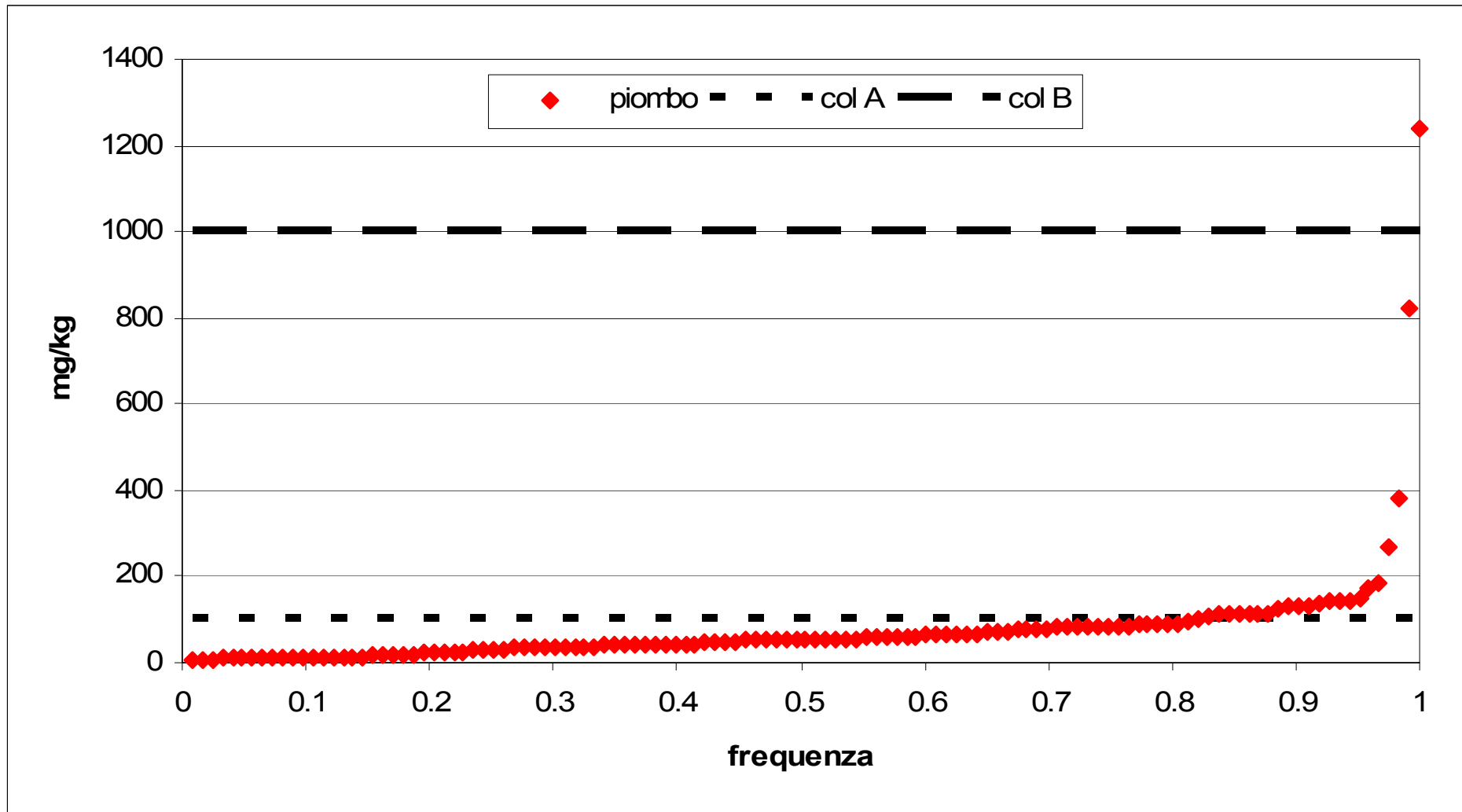
Curve cumulative di frequenza: Cadmio.



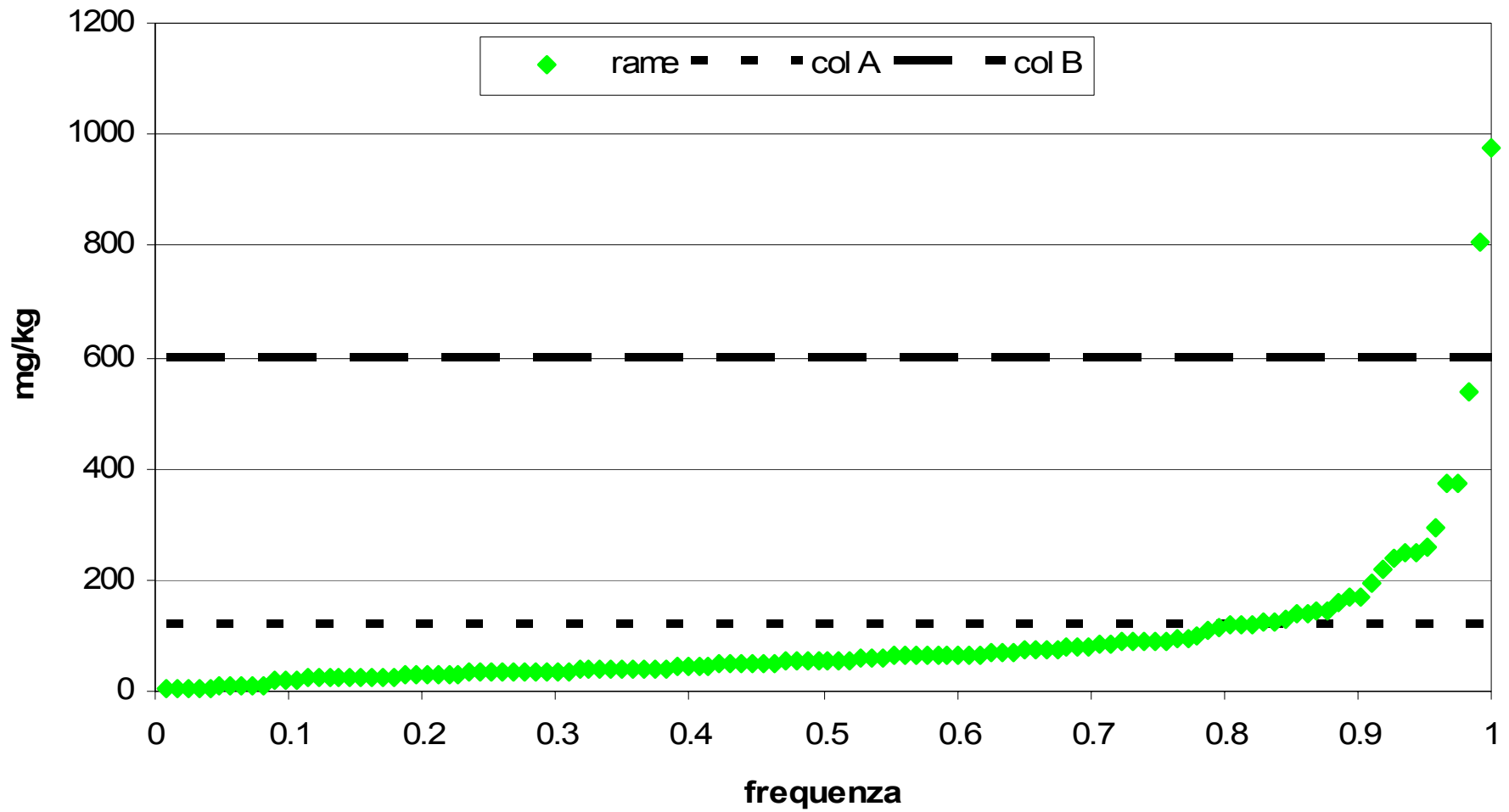
Curve cumulative di frequenza: Cobalto.



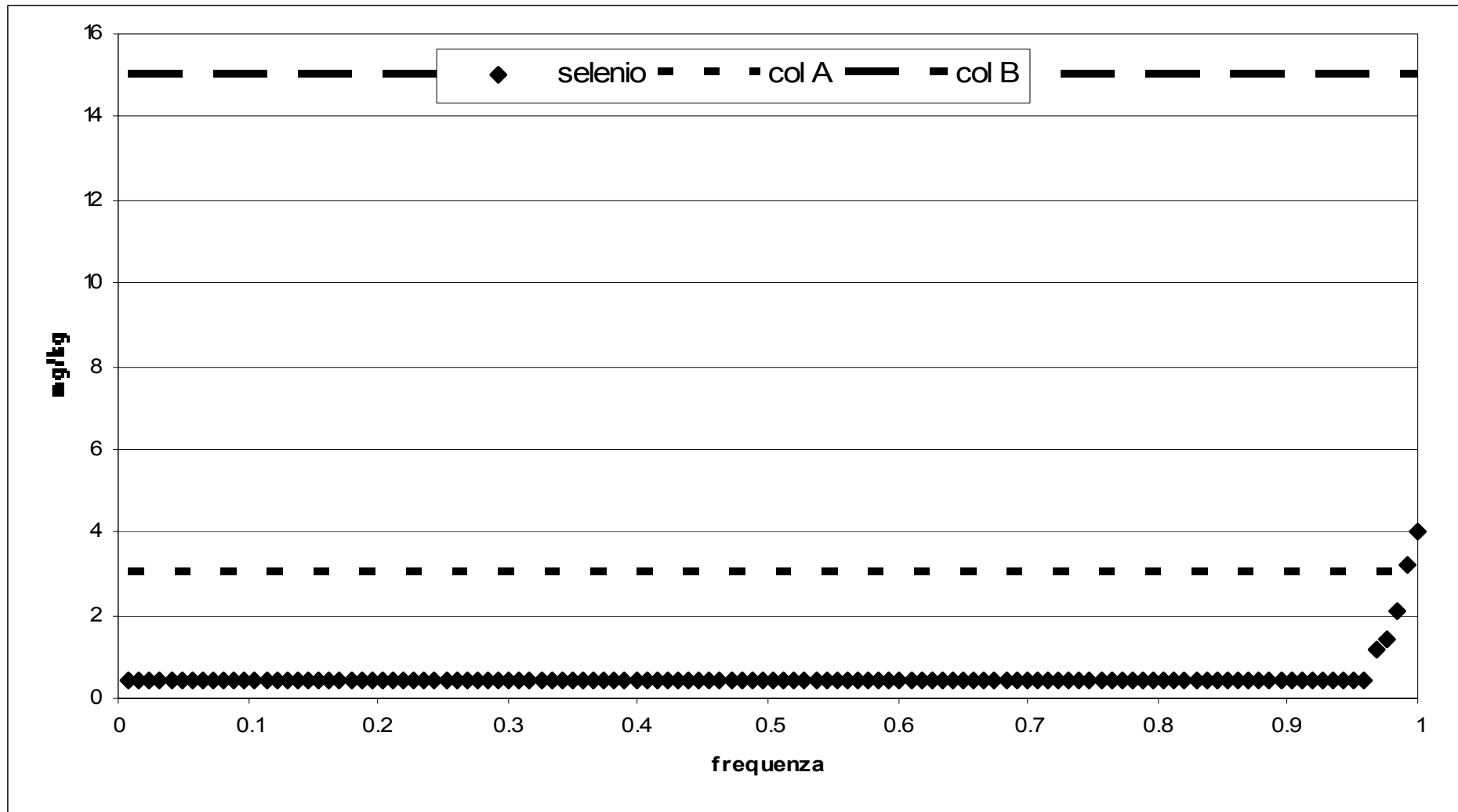
Curve cumulative di frequenza: Piombo.



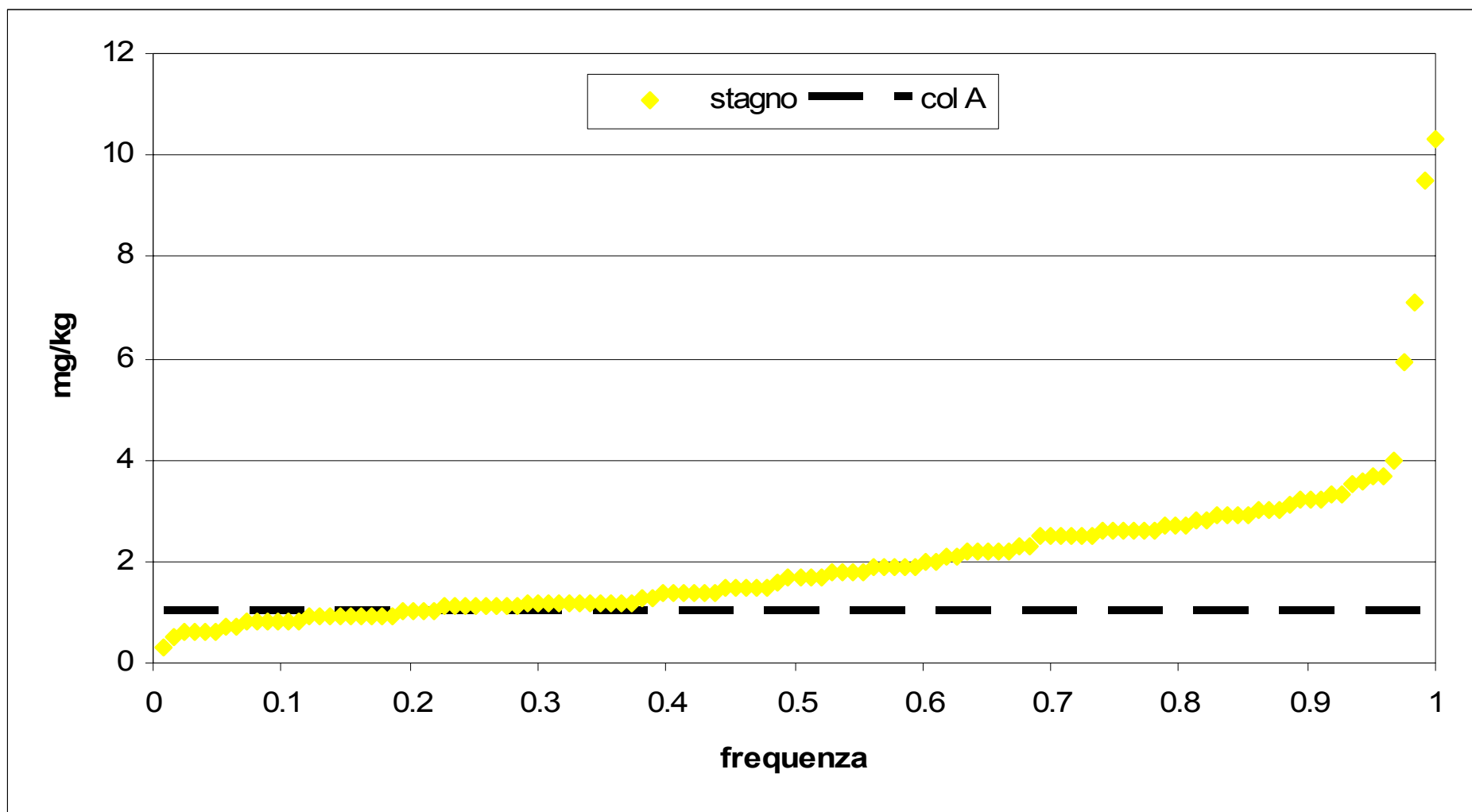
Curve cumulative di frequenza: Rame.



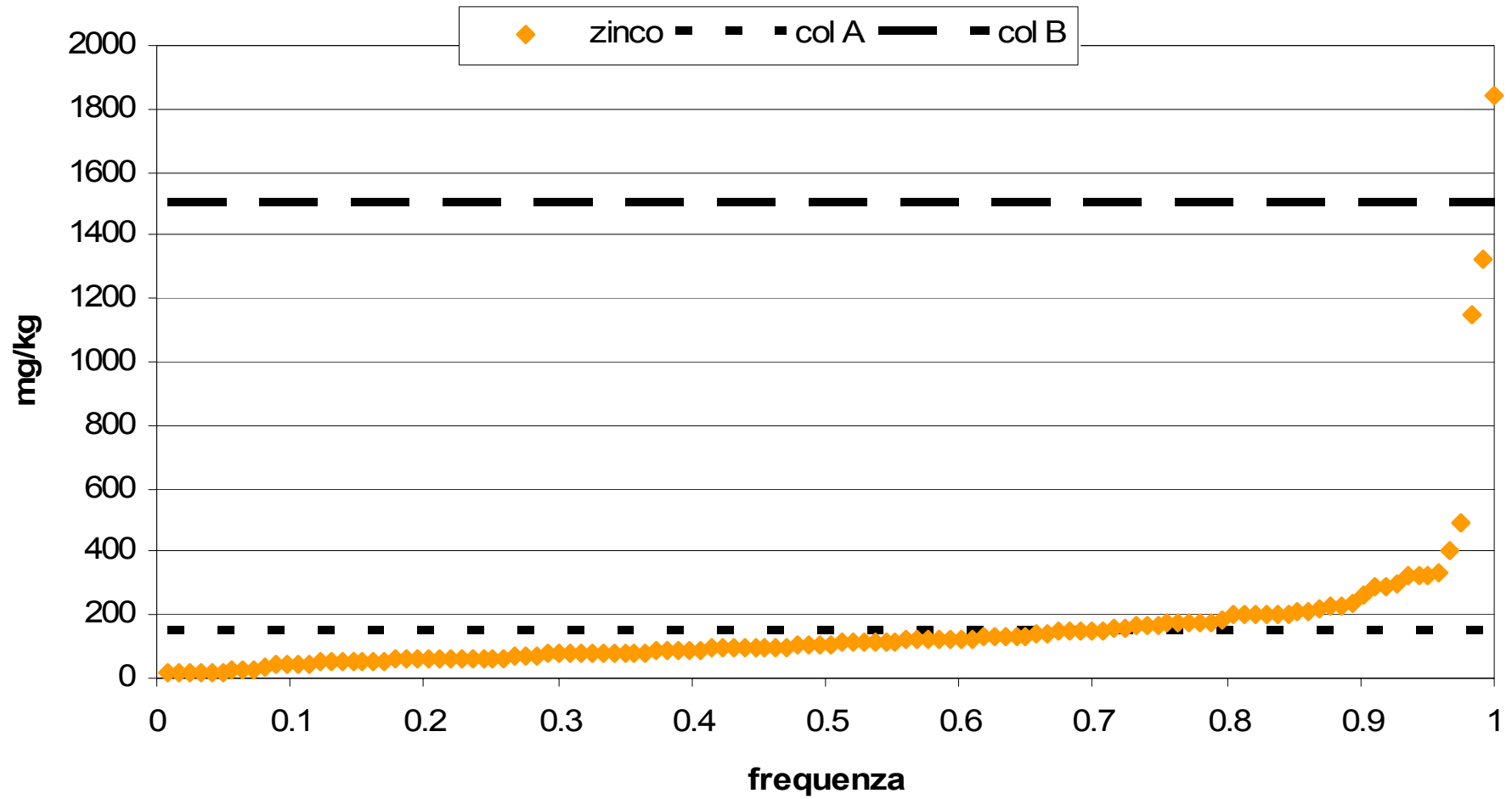
Curve cumulative di frequenza: Selenio.



Curve cumulative di frequenza: Stagno.

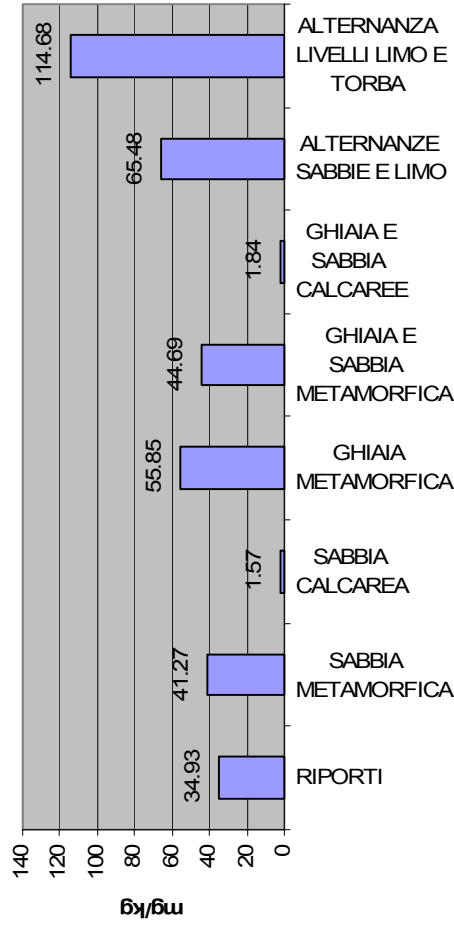


Curve cumulative di frequenza: Zinco.

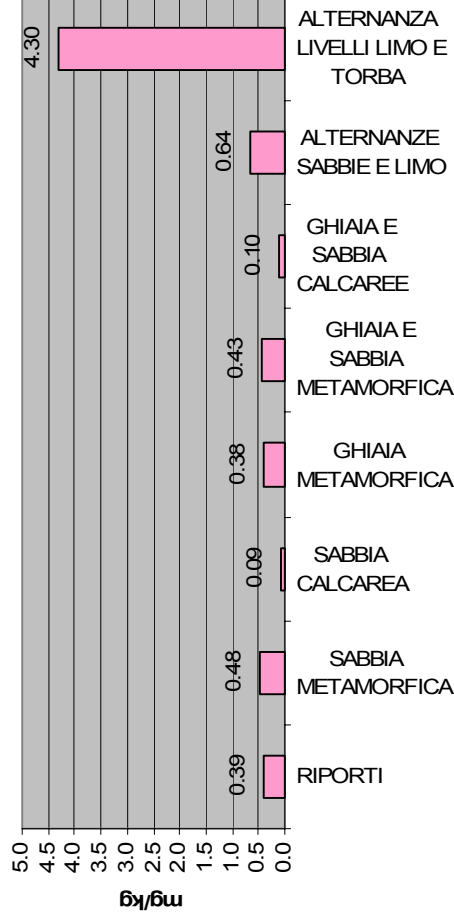


Concentrazioni medie in funzione del substrato d'origine del campione.

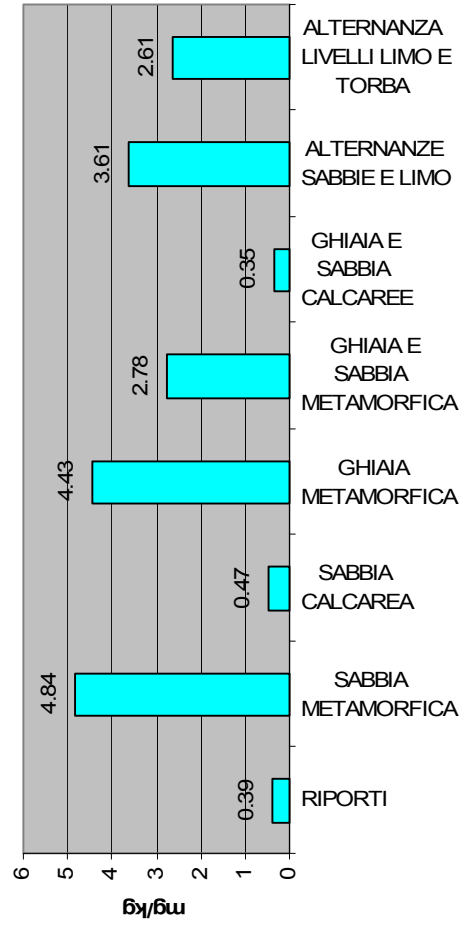
Arsenico concentrazioni medie



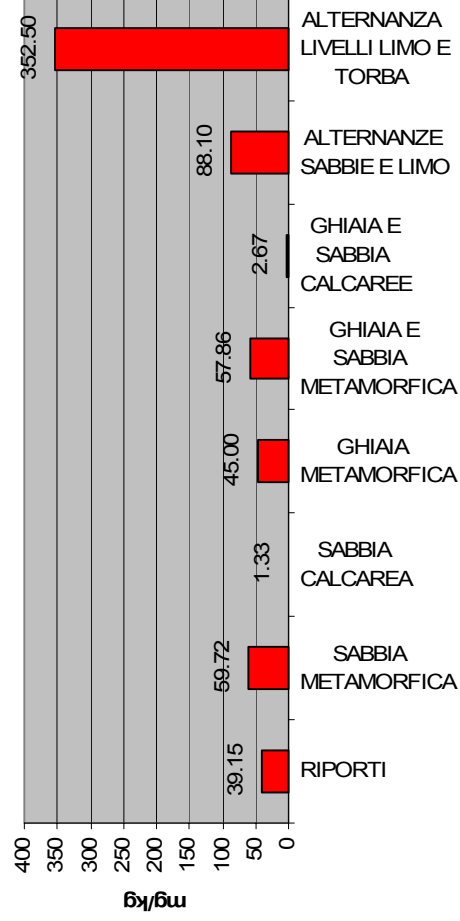
Cadmio concentrazioni medie



Cobalto concentrazioni medie

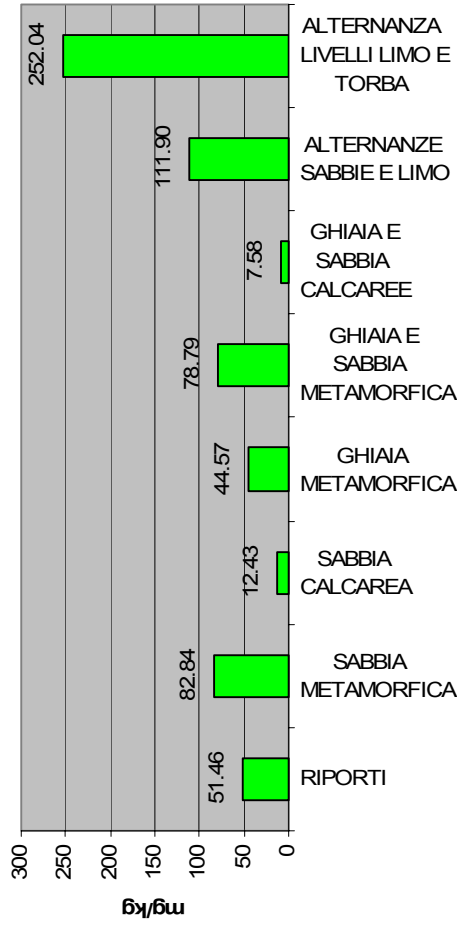


Piombo concentrazioni medie

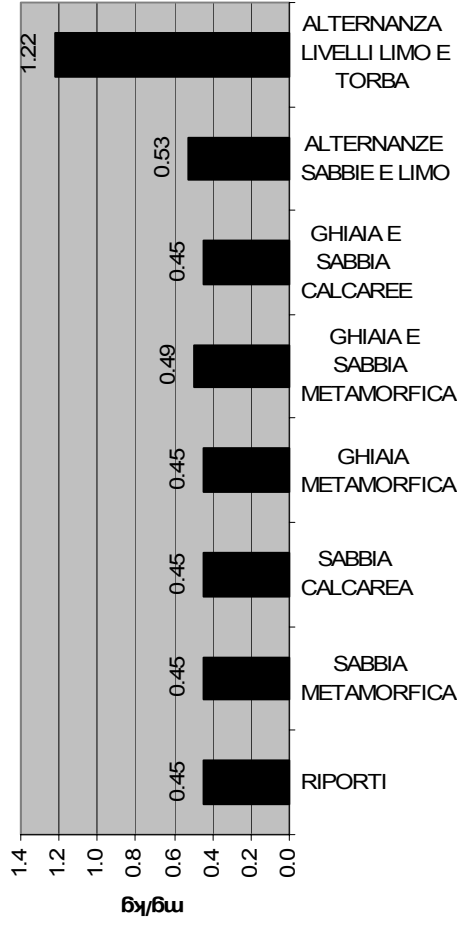


Concentrazioni medie in funzione del substrato d'origine del campione.

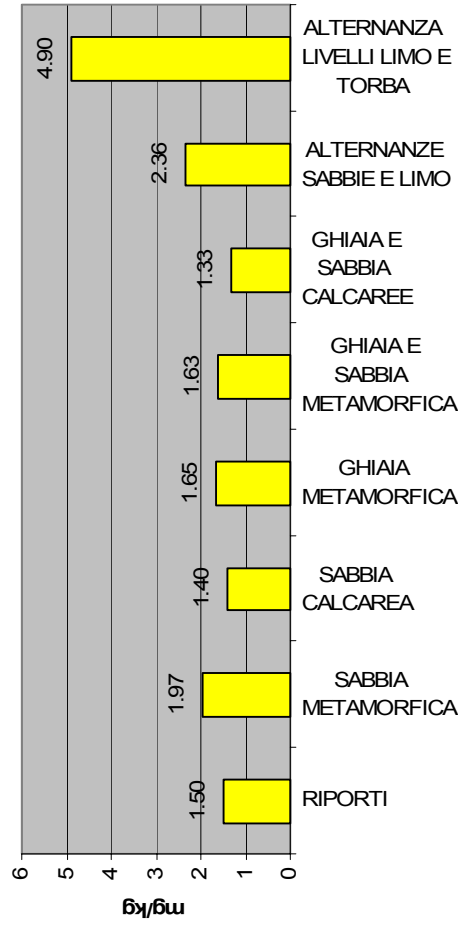
Rame concentrazioni medie



Selenio concentrazioni medie



Stagno concentrazioni medie



Zinco concentrazioni medie

