

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

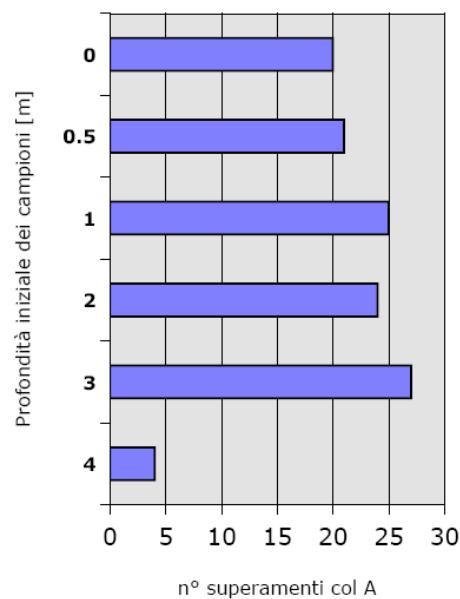
I grafici successivamente riportati rappresentano la sintesi dei dati analitici relativi alla definizione del fondo naturale del comune di Levico per i 32 sondaggi effettuati. Sono rappresentate le sole sostanze che hanno fatto rilevare (almeno in un campione analitico) superamenti delle concentrazioni 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:

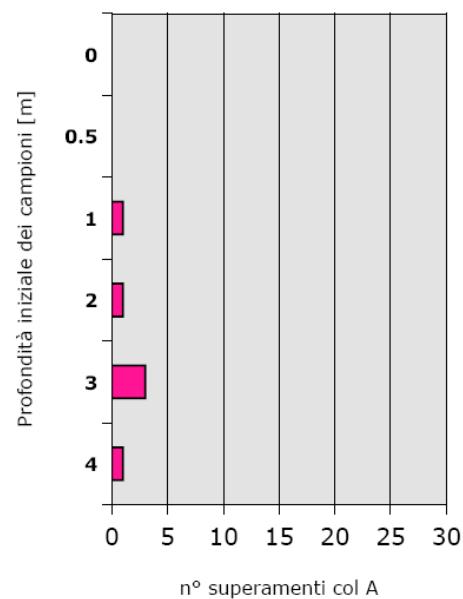
- il numero di superamenti per sostanza e per profondità per colonna A e B della tabella relativa alle concentrazioni soglia di contaminazione per il terreni (d.lgs. 152/06), (pag. 3-4);;
- i valori di concentrazione medi e massimi per sostanza e per profondità, (pag. 5-6);
- per ogni sostanza e per 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)

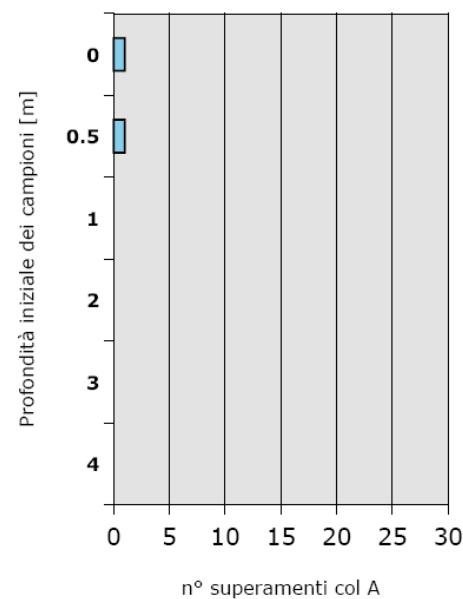
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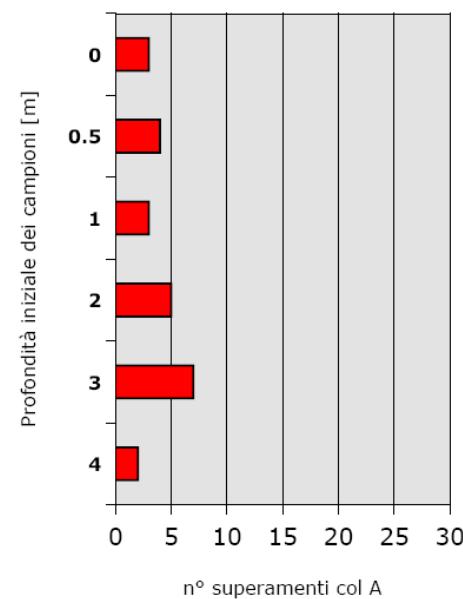
Cadmio



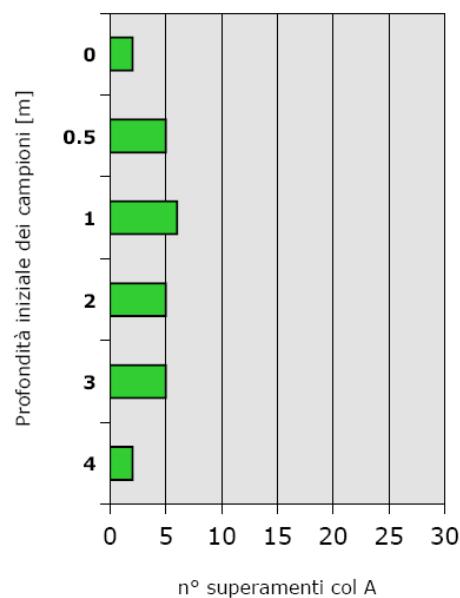
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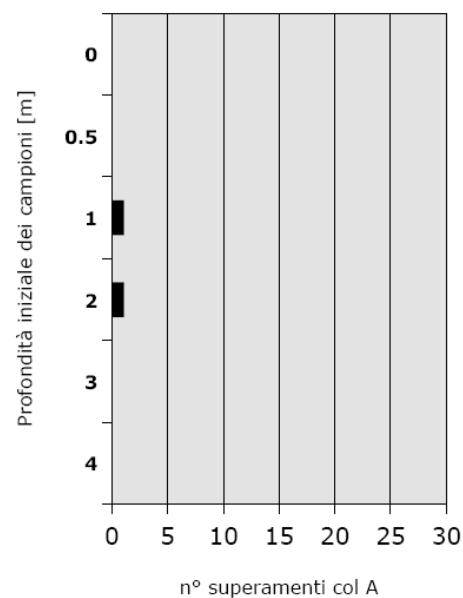
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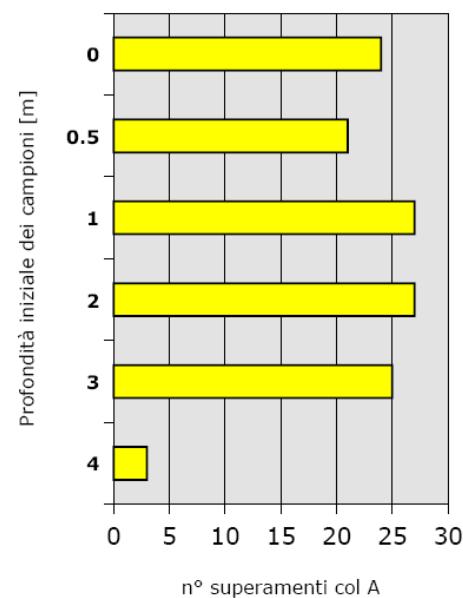
Rame



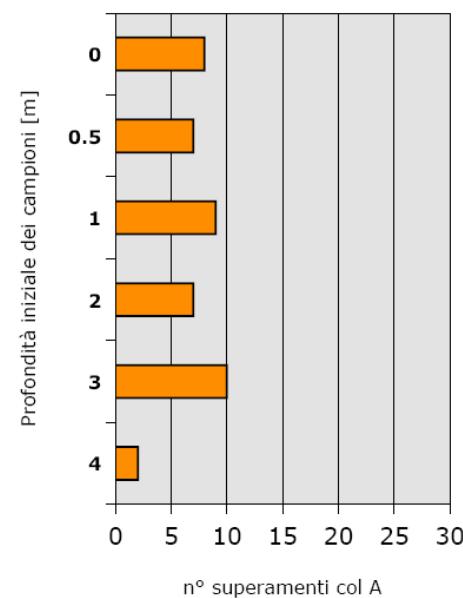
Selenio



Stagno

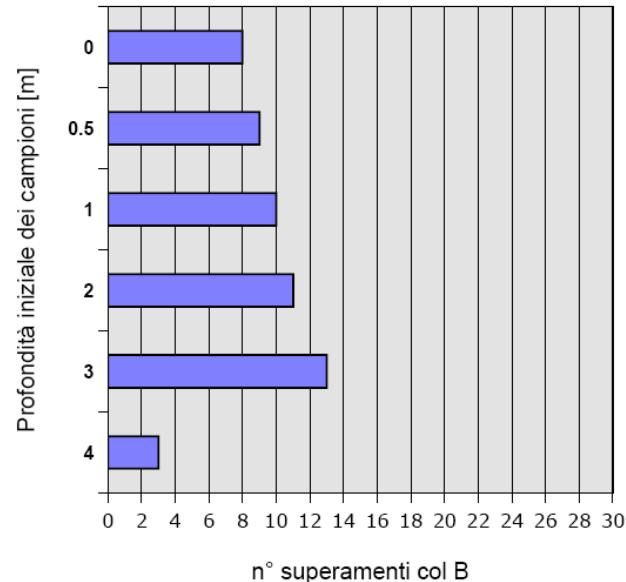


Zinco

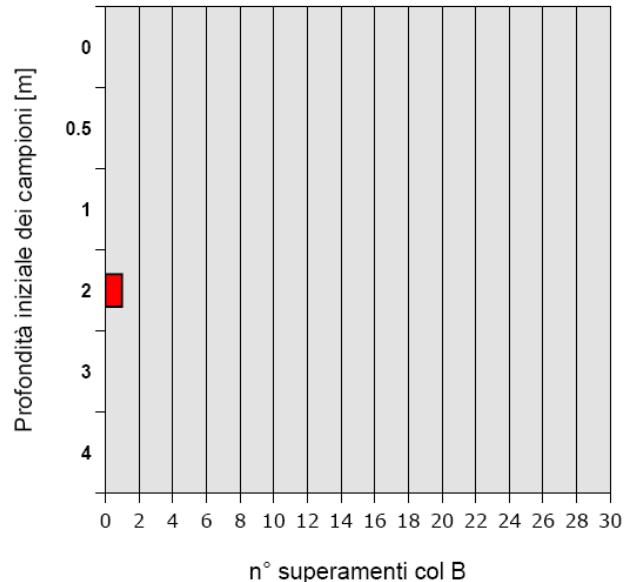


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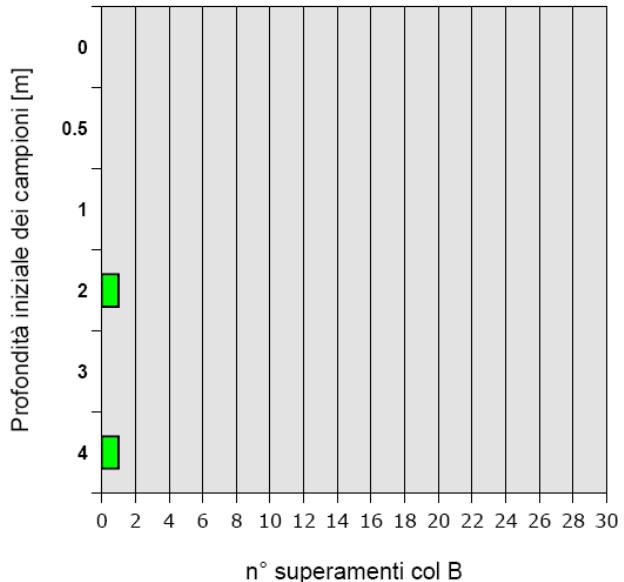
Arsenico



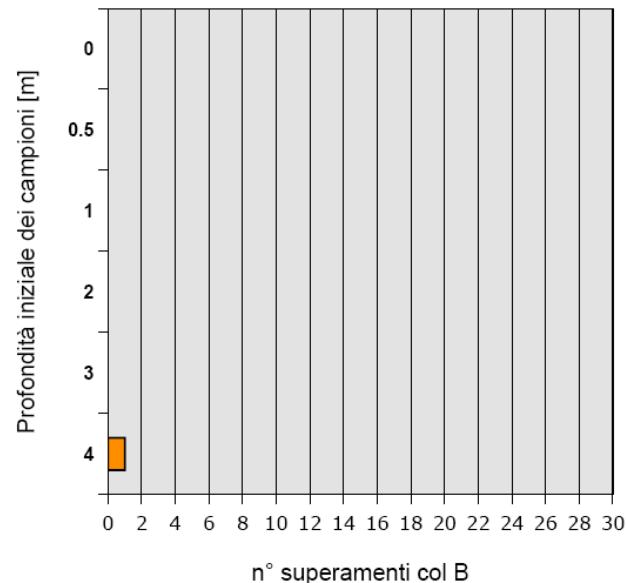
Piombo



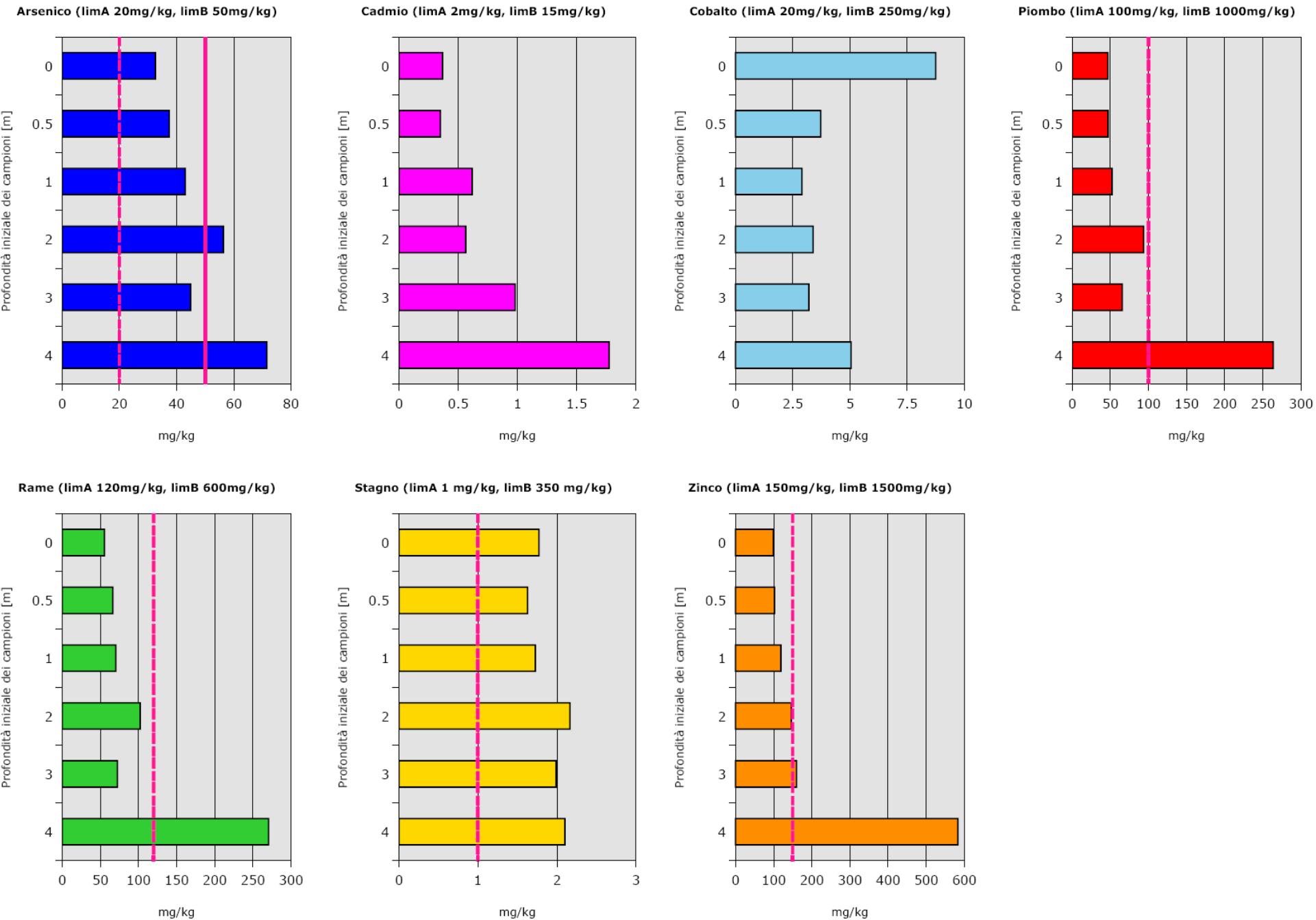
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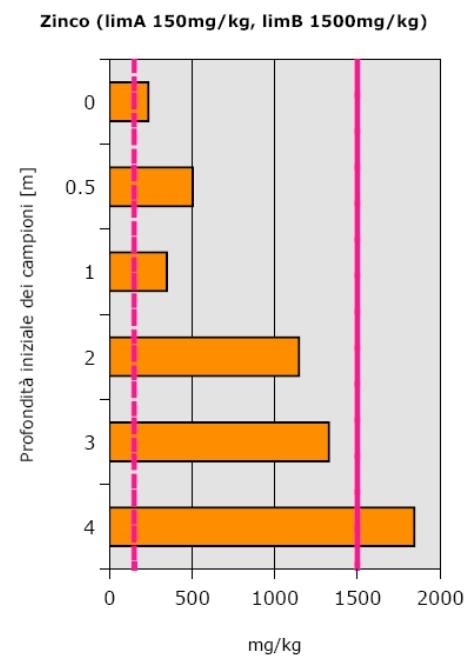
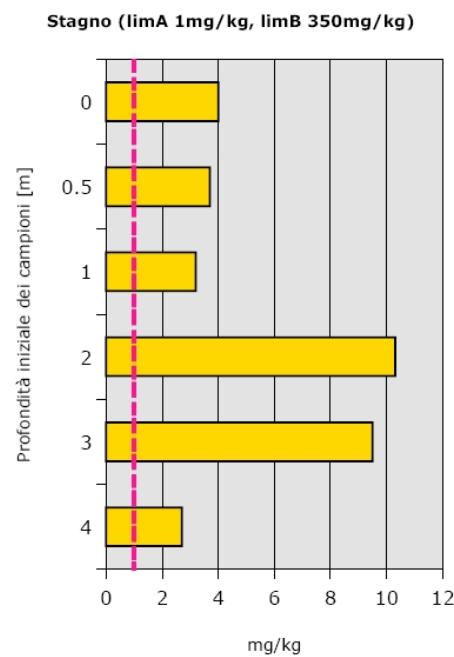
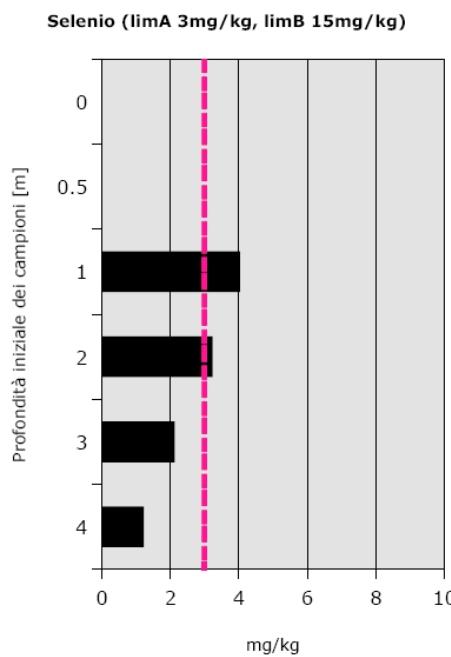
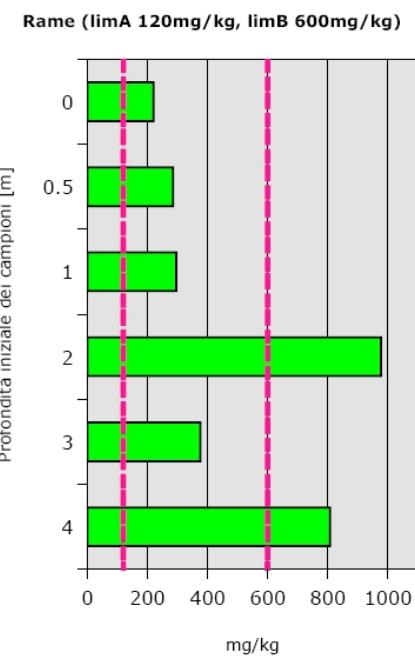
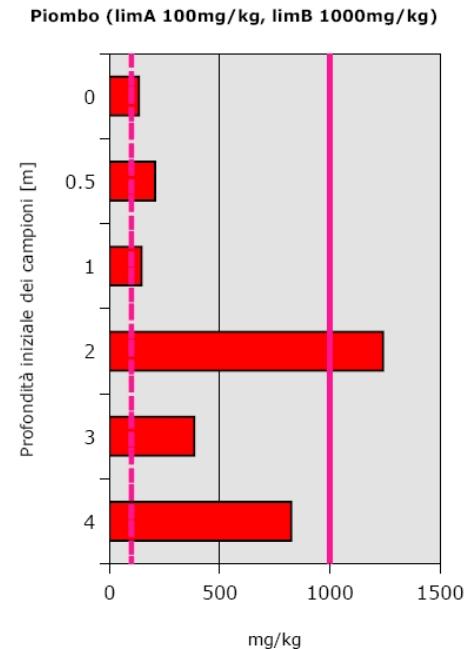
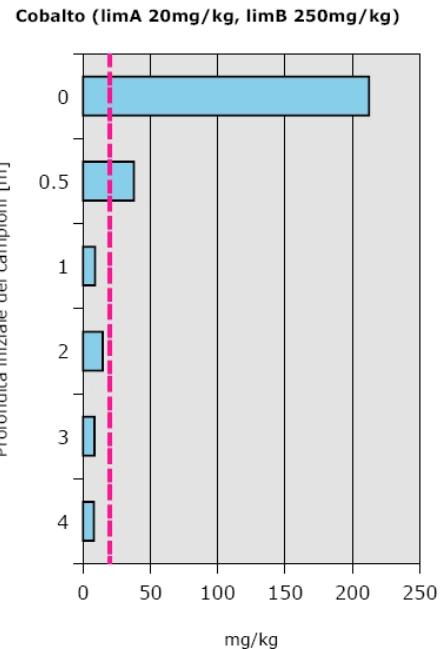
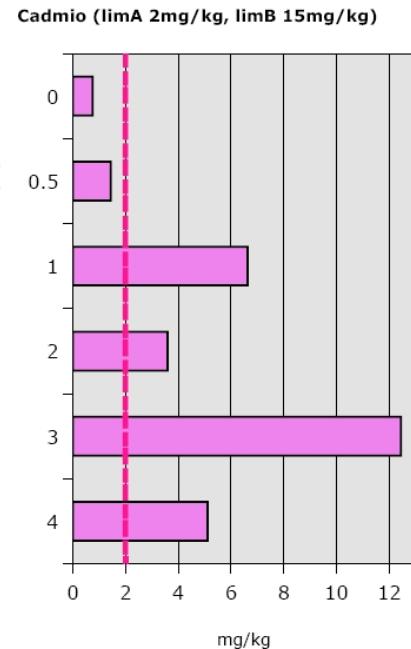
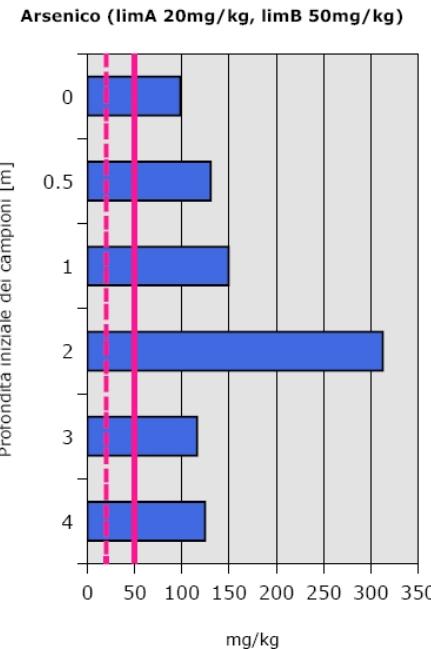
Zinco



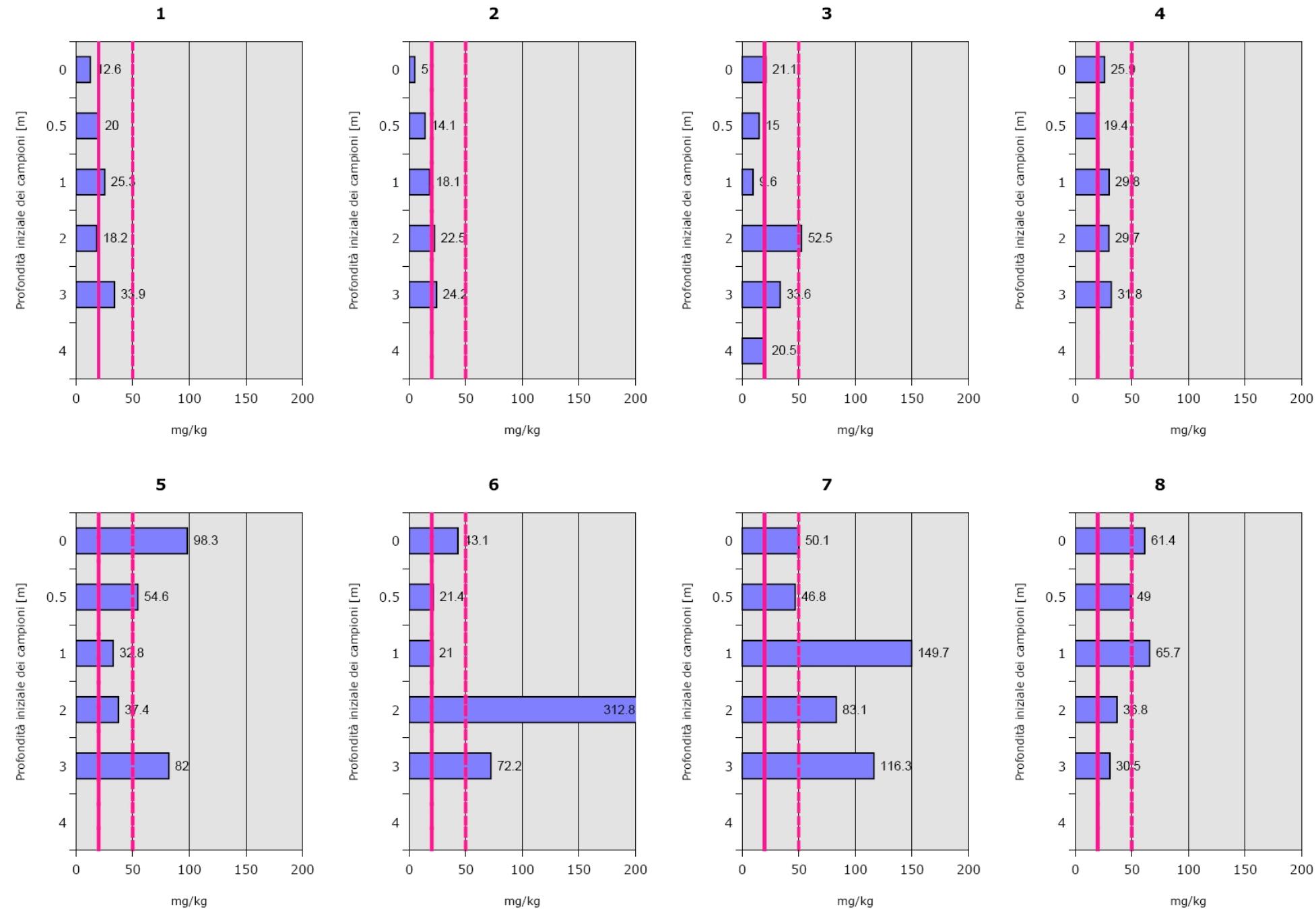
Valori medi sulla colonna per sostanze oggetto di superamenti delle CSC di colonna A (d.lgs. 152/06)



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

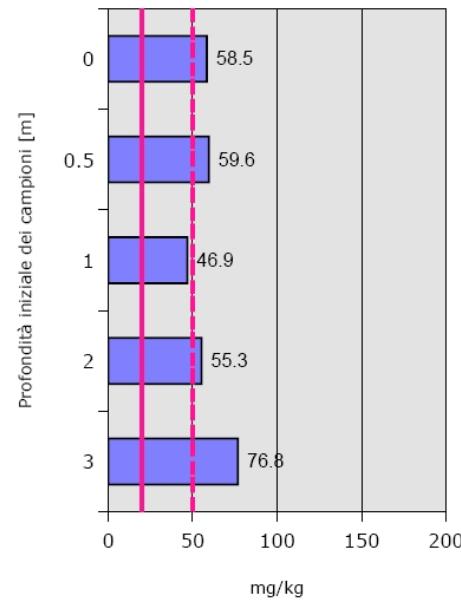


Concentrazioni di arsenico riscontrate per i diversi sondaggi a differenti profondità (lim A 20mg/kg, B 50mg/kg)

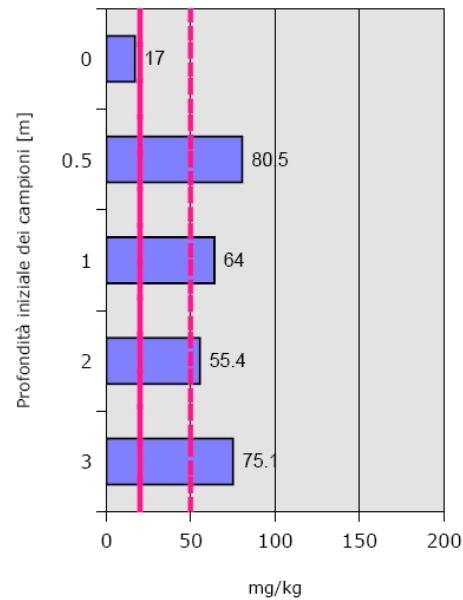


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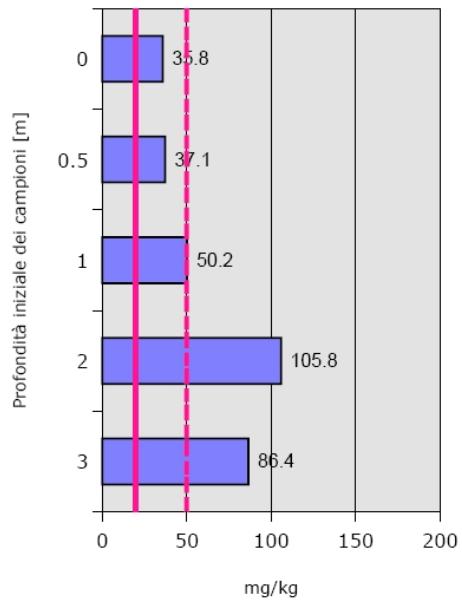
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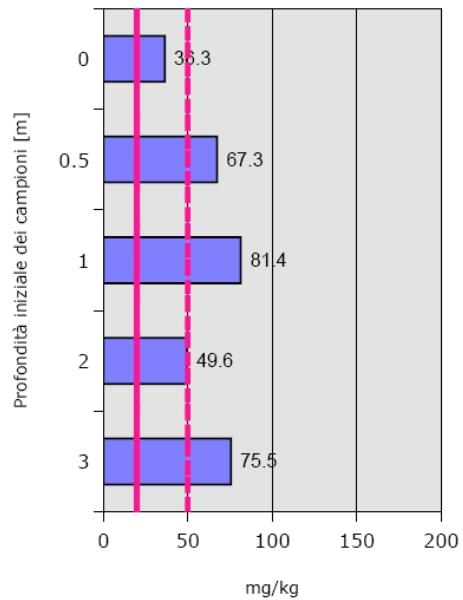
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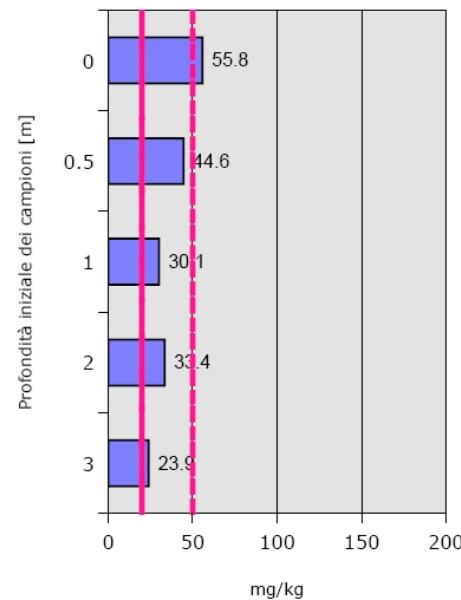
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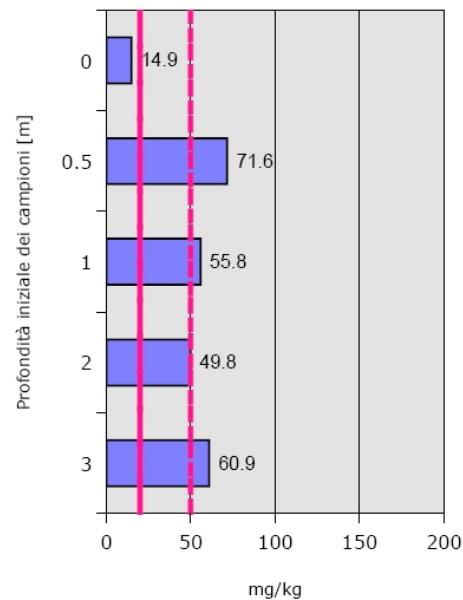
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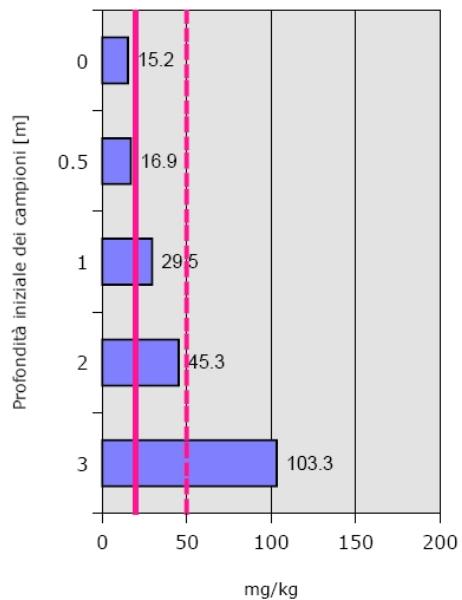
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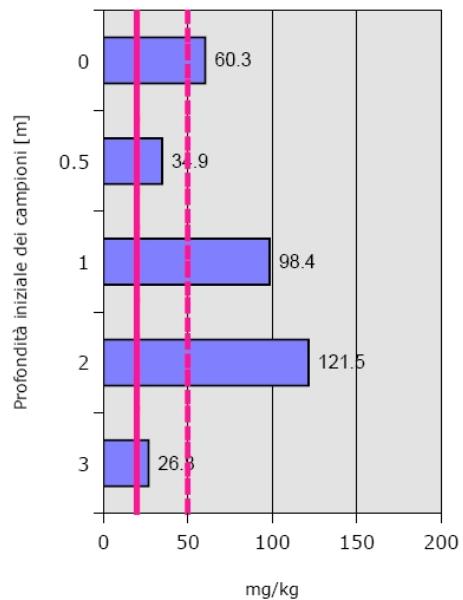
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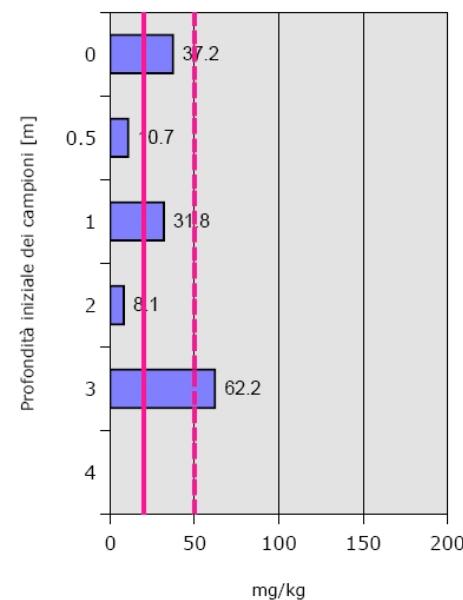


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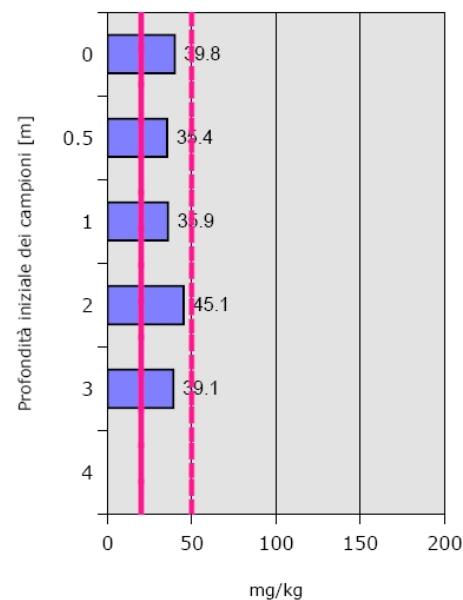


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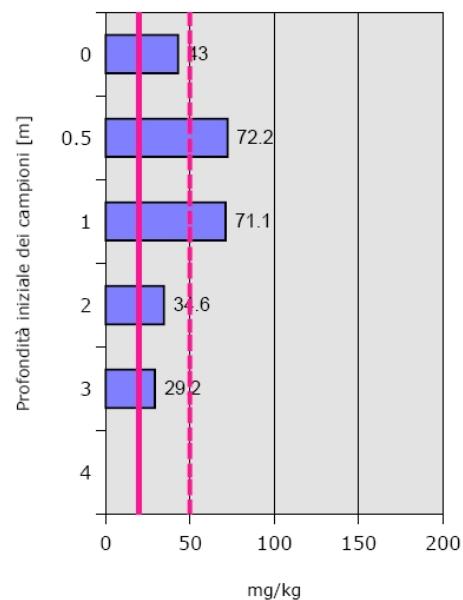
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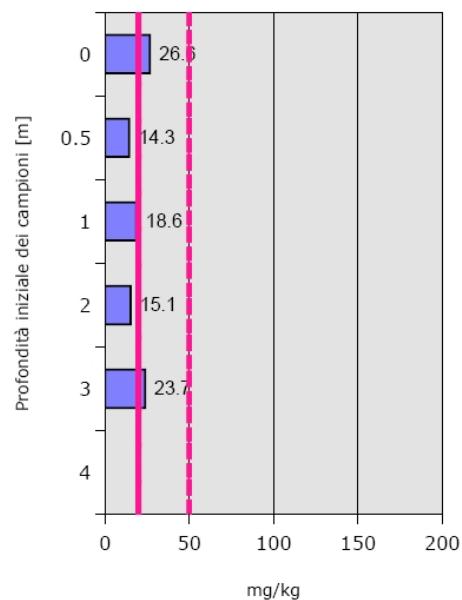
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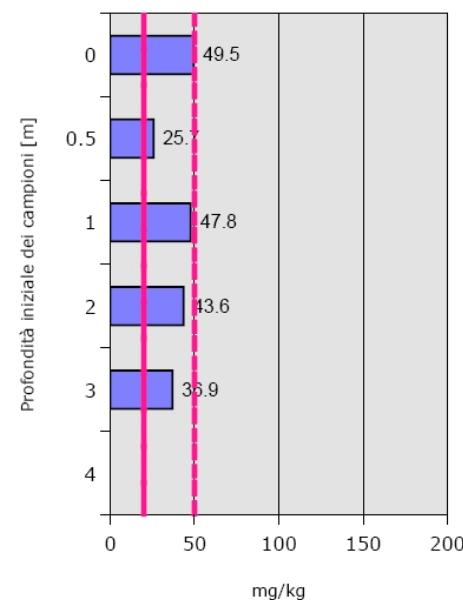
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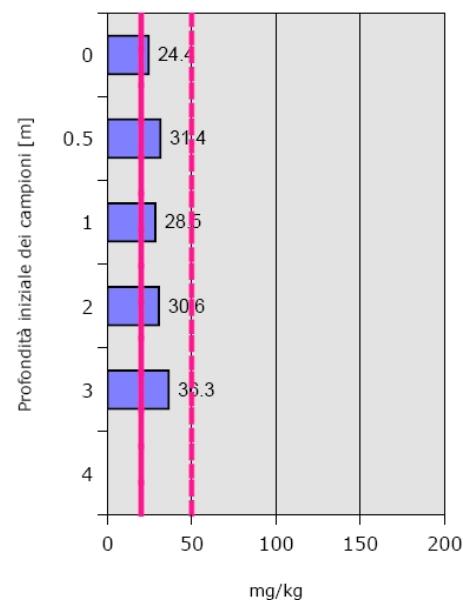
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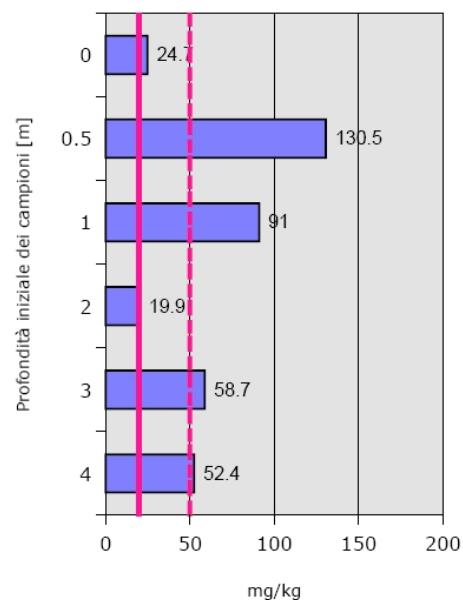
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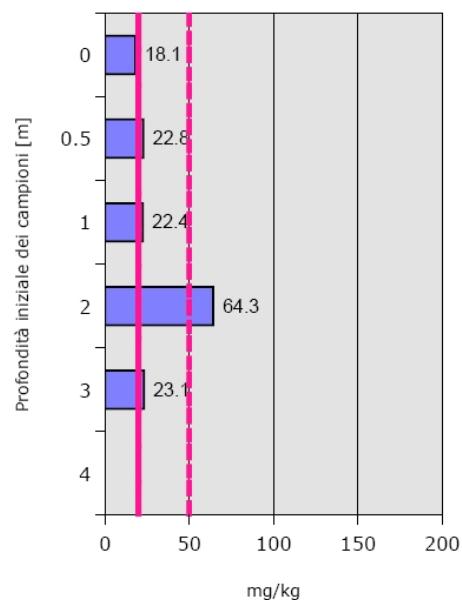
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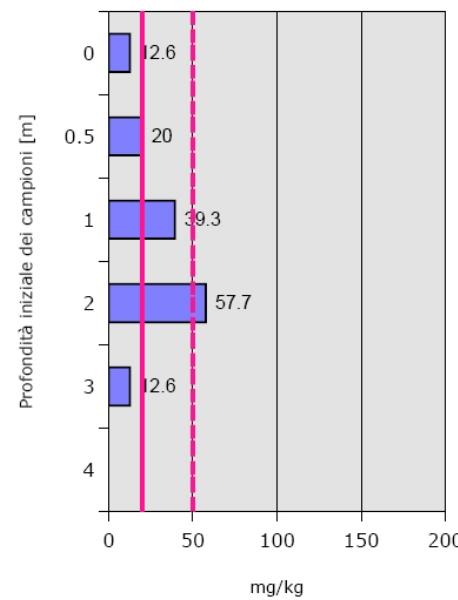


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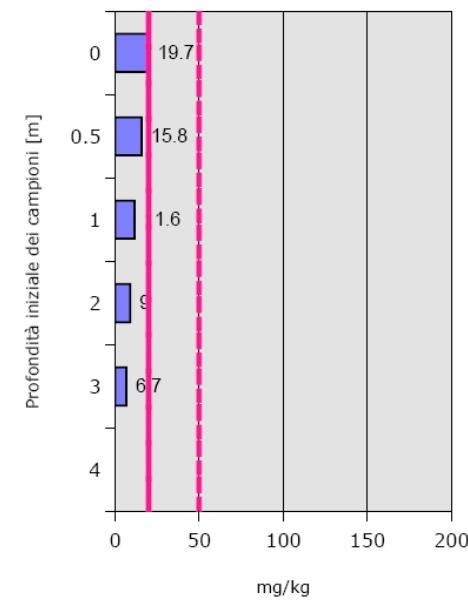


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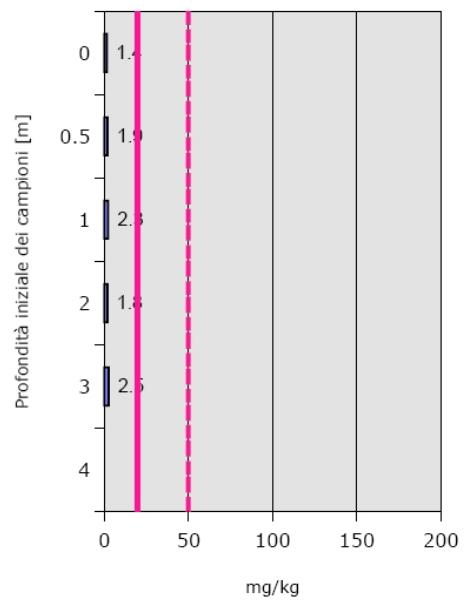
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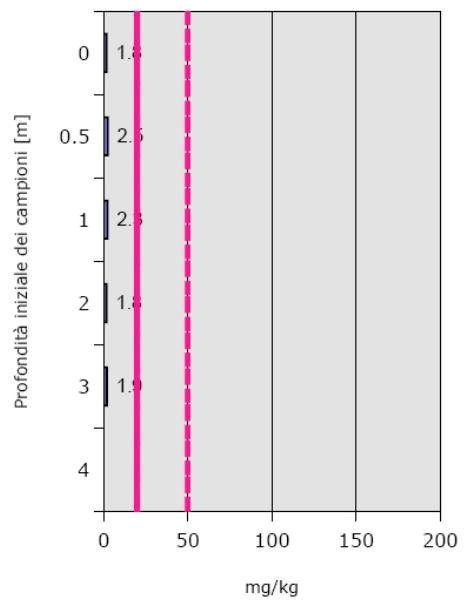
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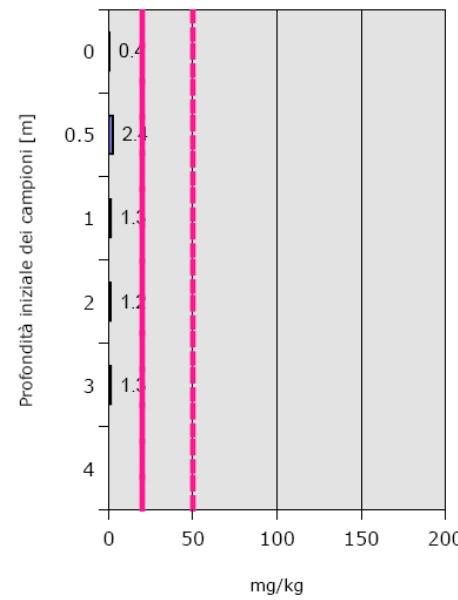
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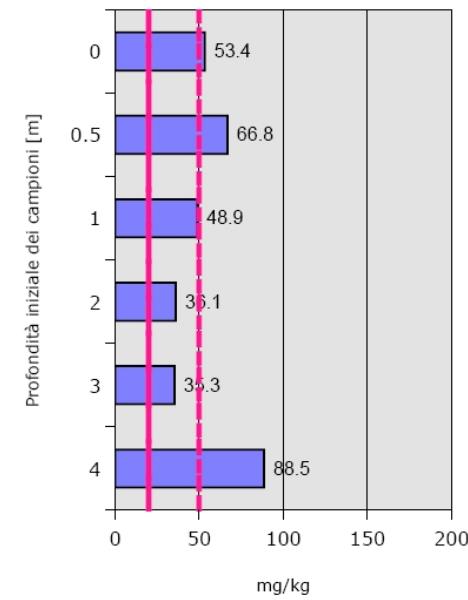
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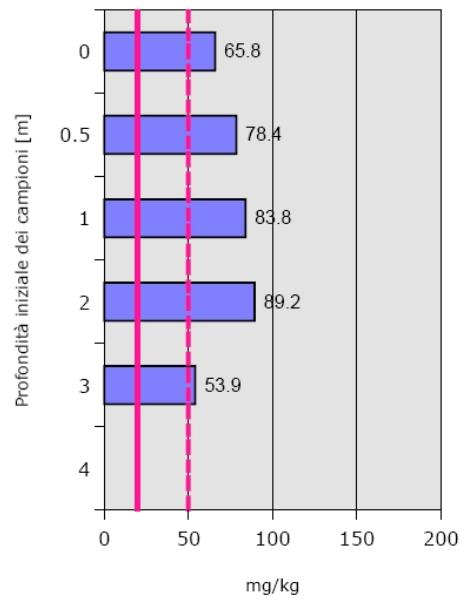
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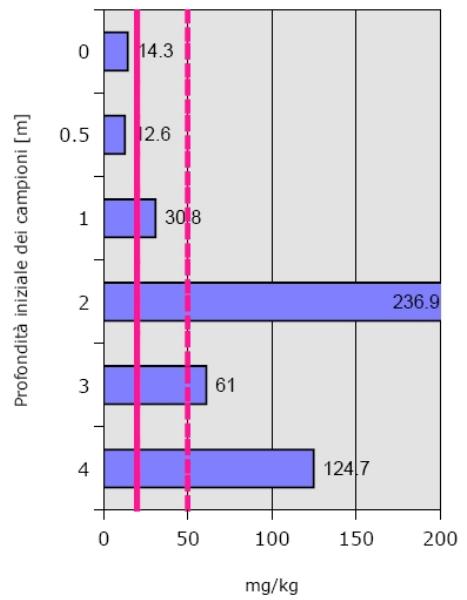
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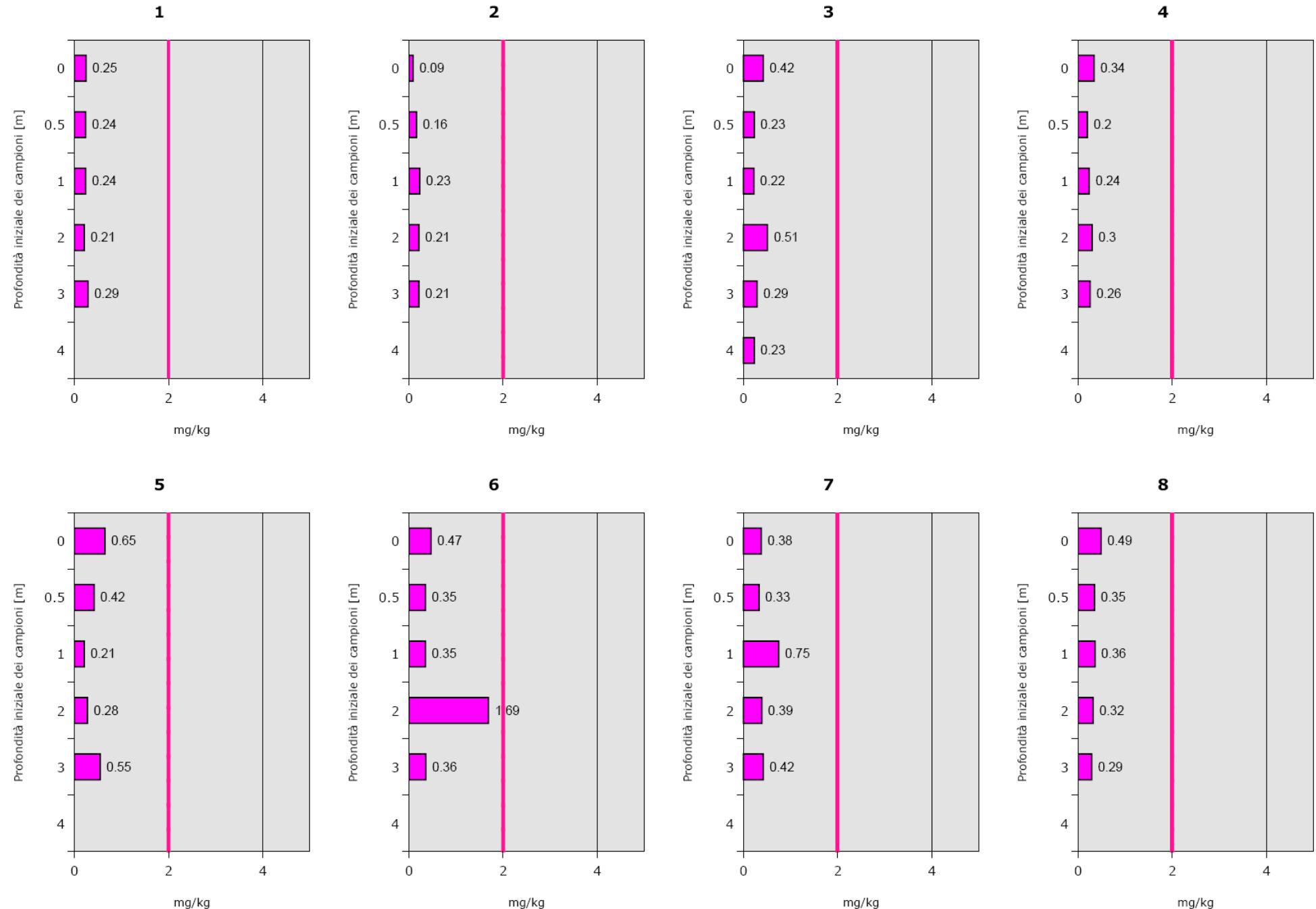
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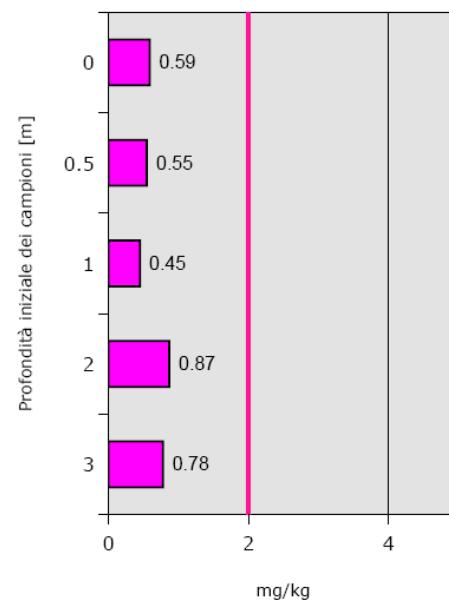


Concentrazioni di cadmio riscontrate per i diversi sondaggi a differenti profondità (lim A 2mg/kg, B 15mg/kg)

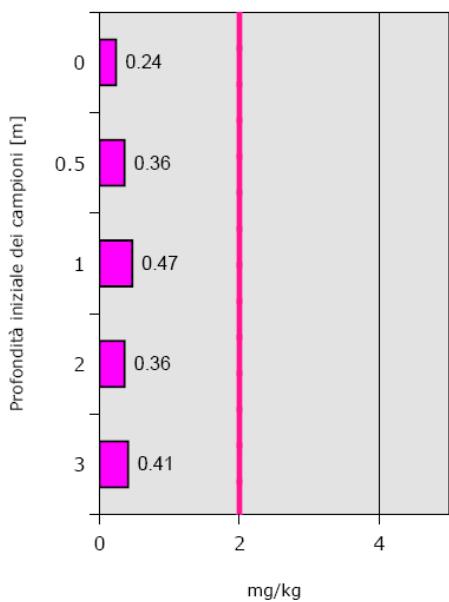


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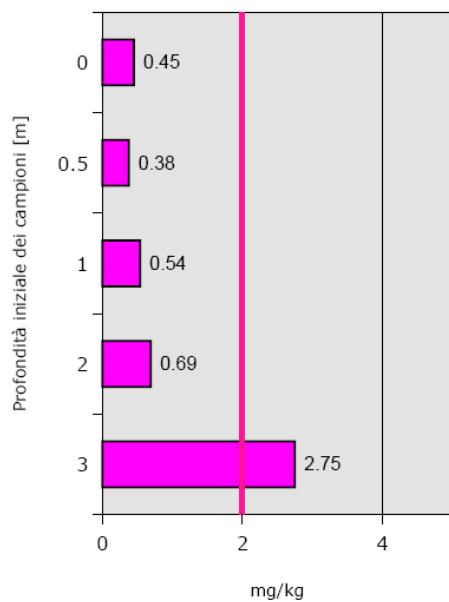
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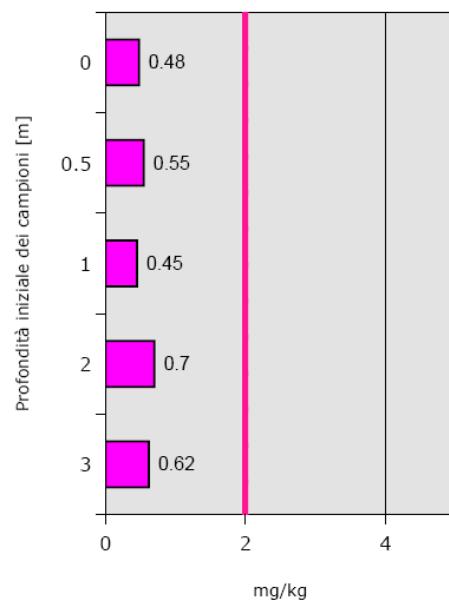
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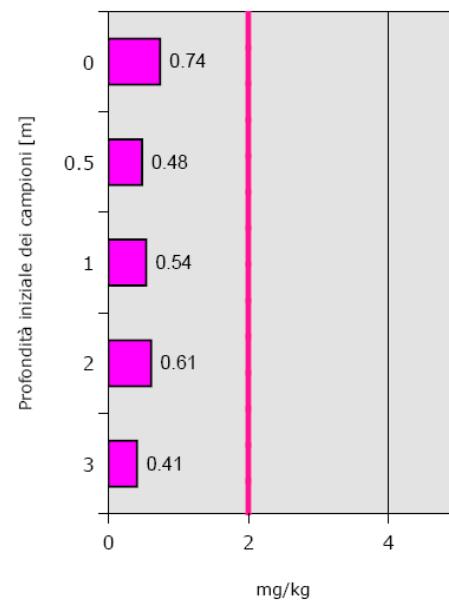
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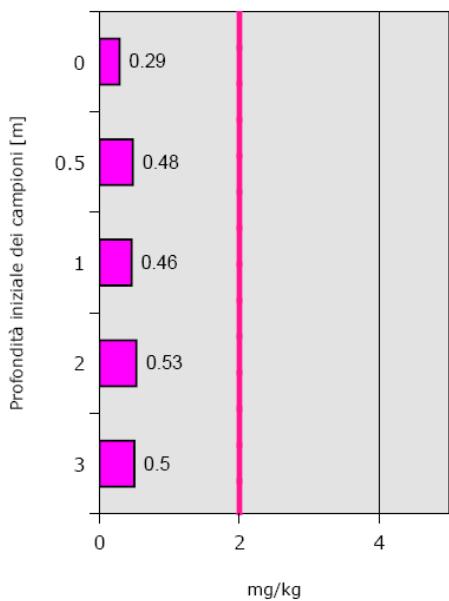
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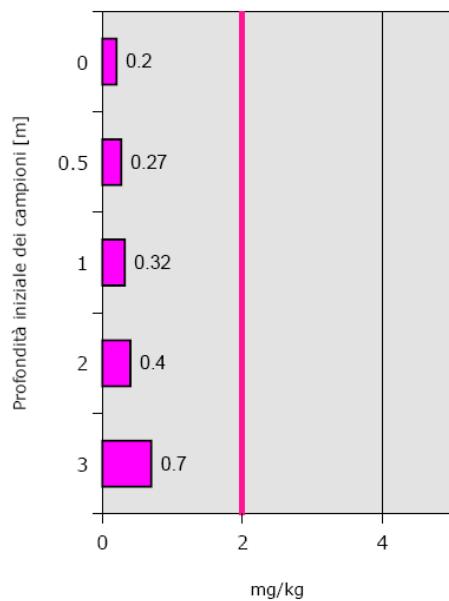
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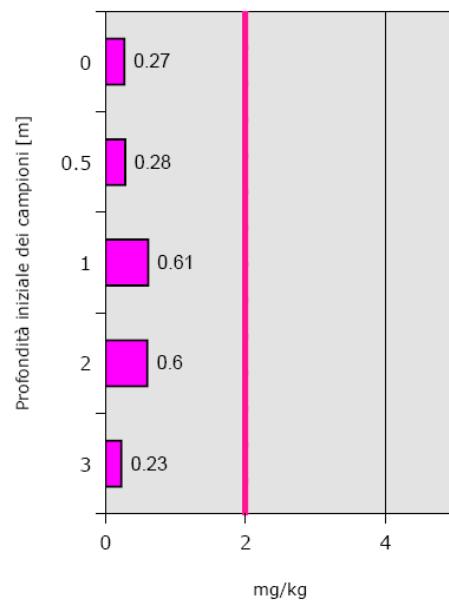
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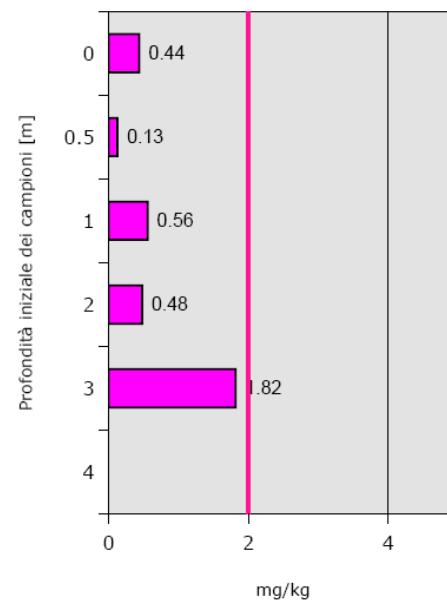


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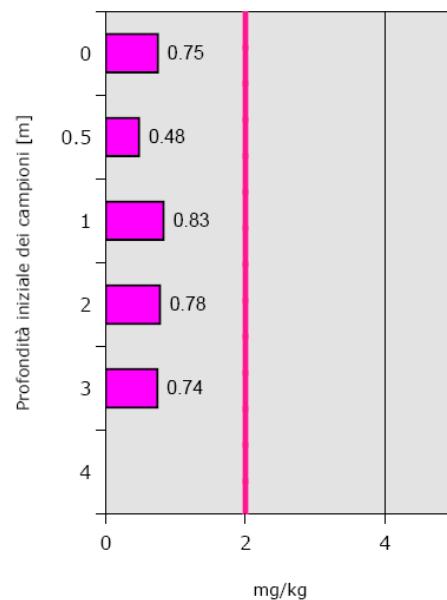


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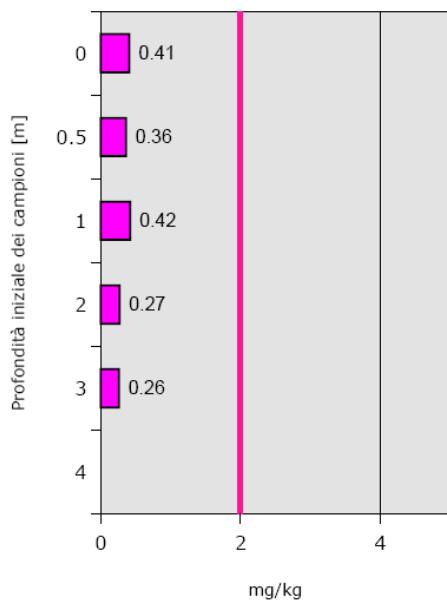
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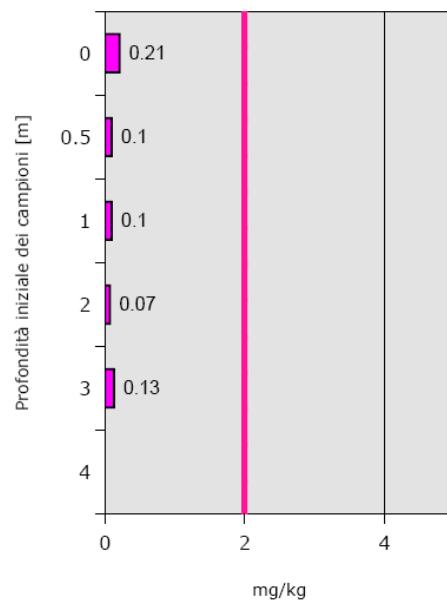
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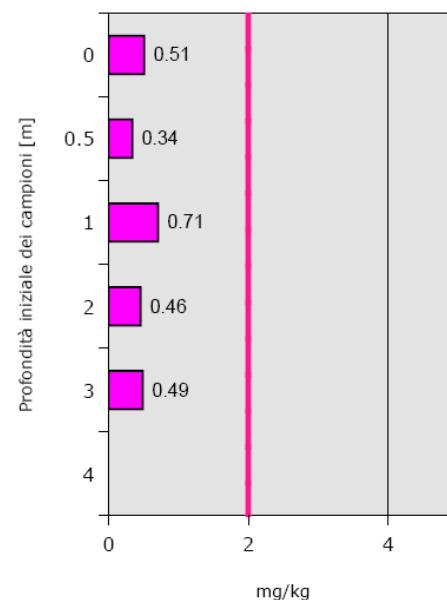
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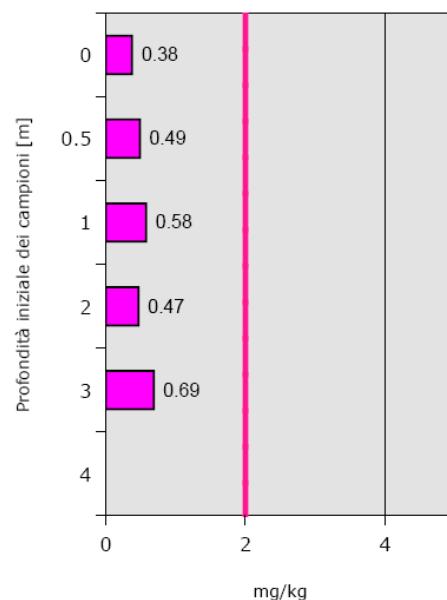
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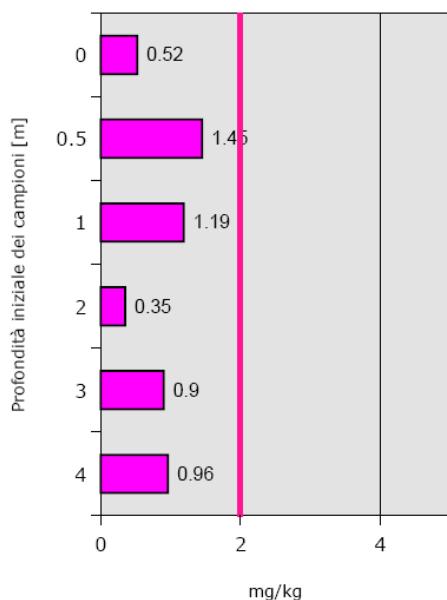
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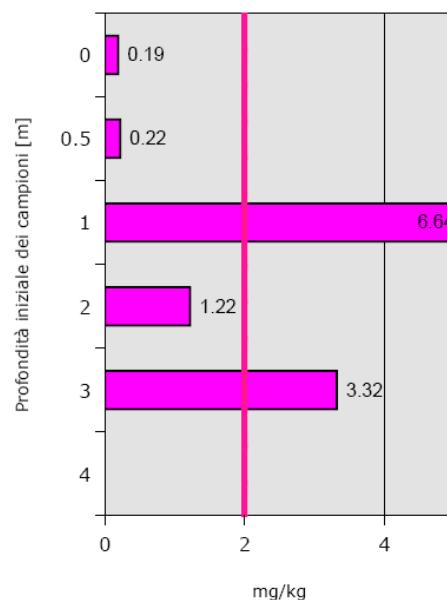
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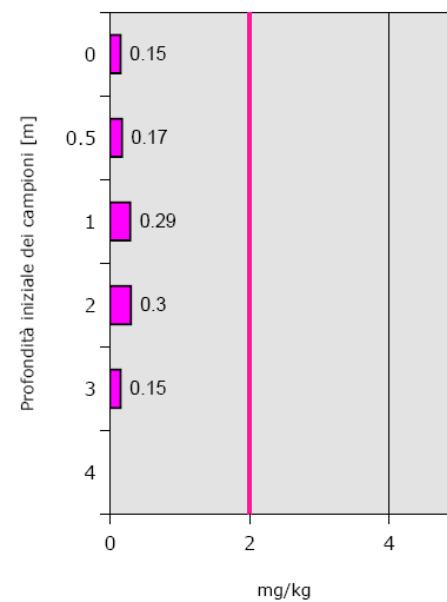


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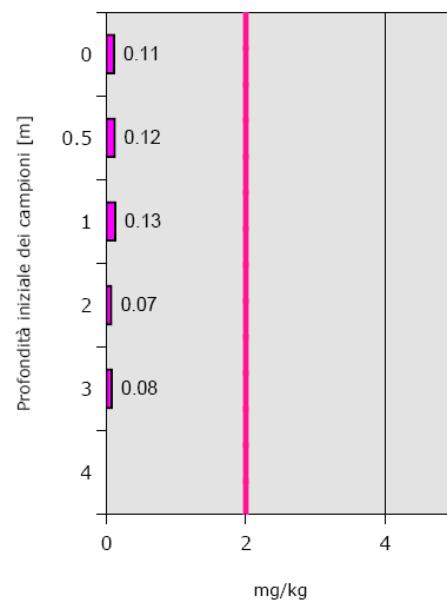


Concentrazioni di cadmio riscontrate per i diversi sondaggi a differenti profondità (lim A 2mg/kg, B 15mg/kg)

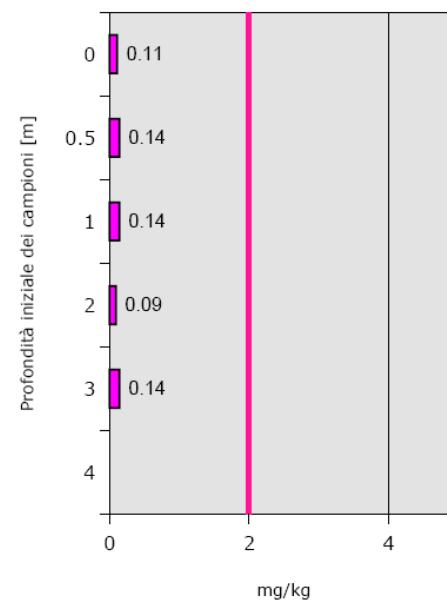
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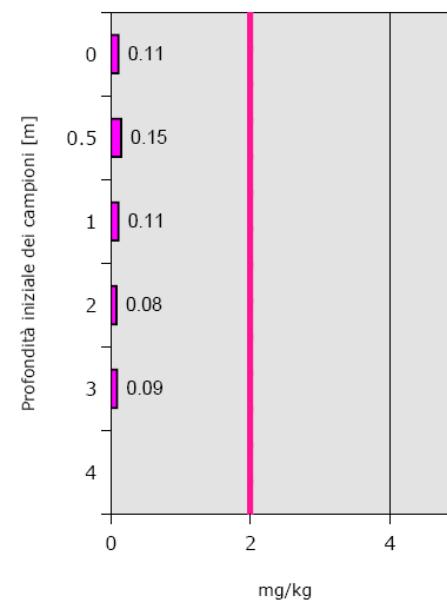
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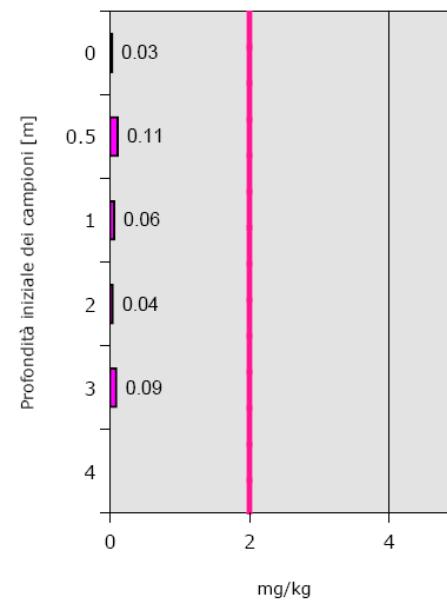
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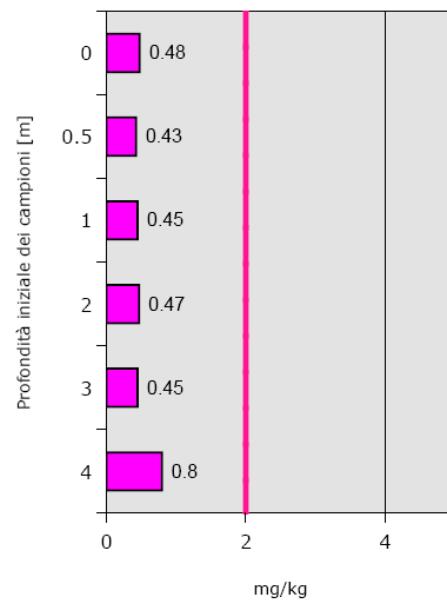
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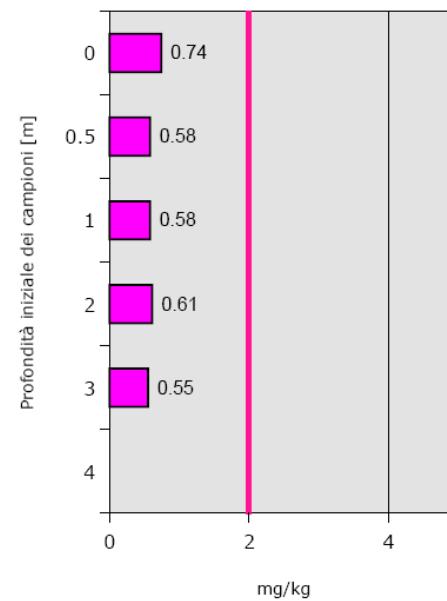
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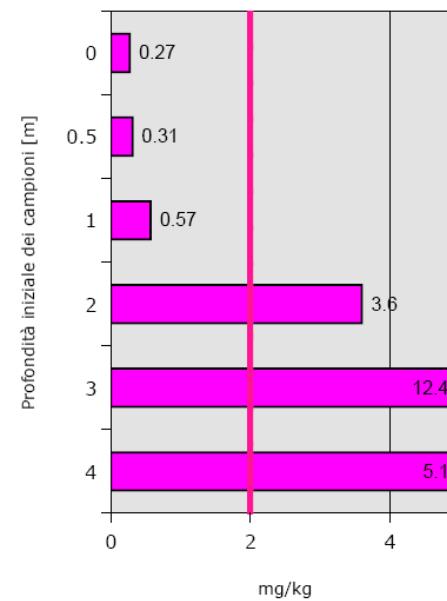
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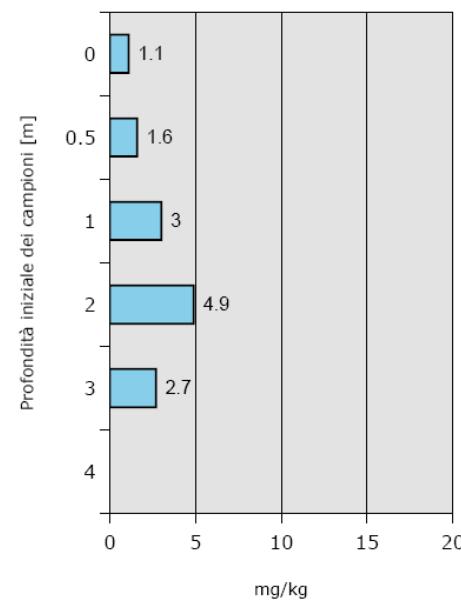


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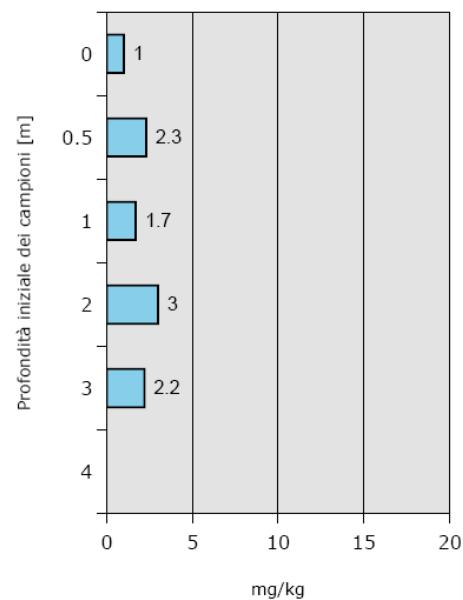


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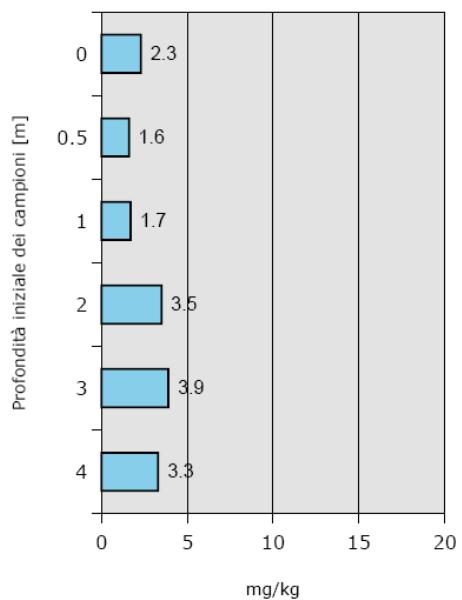
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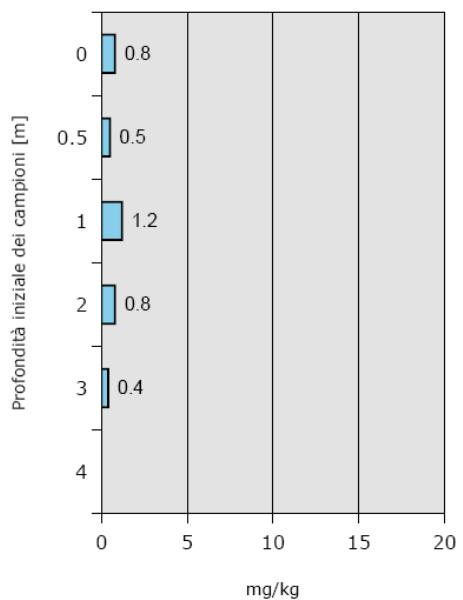
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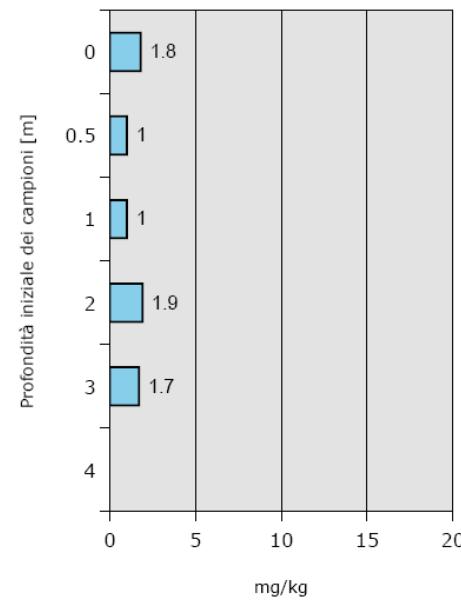
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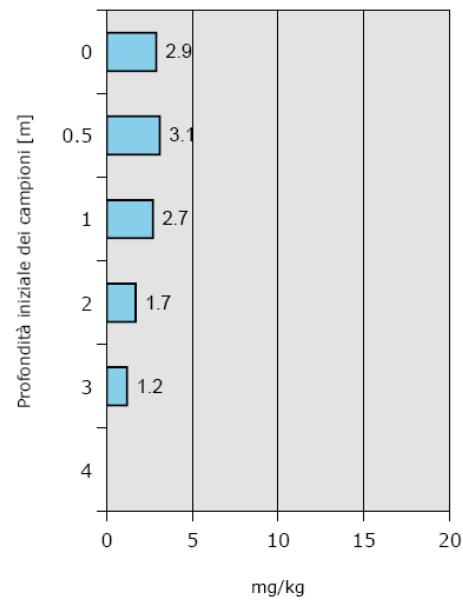
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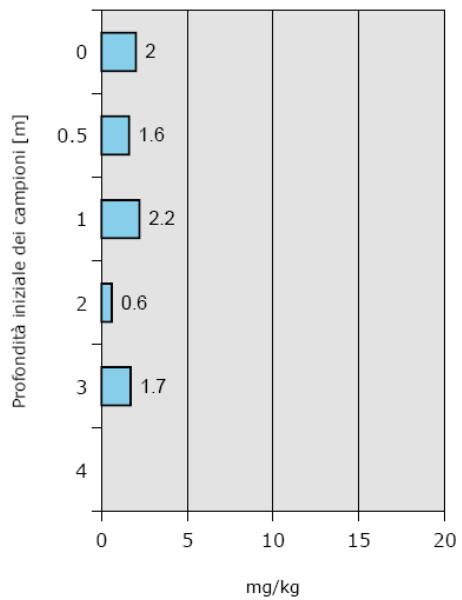
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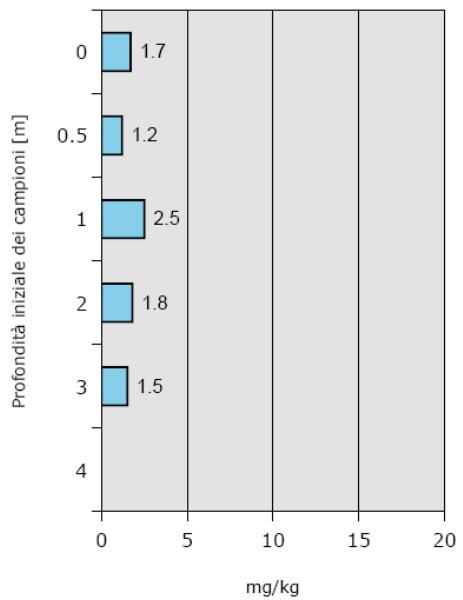
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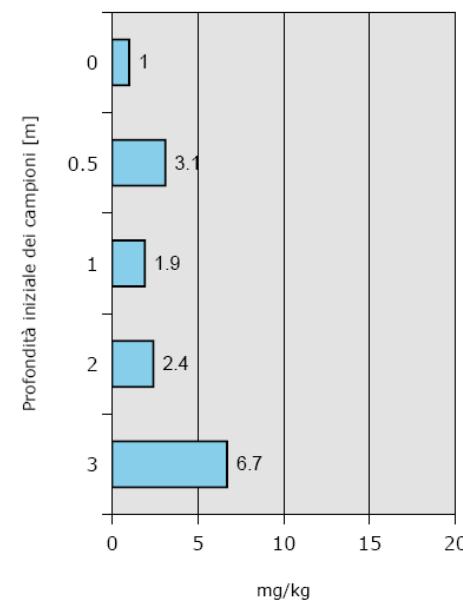


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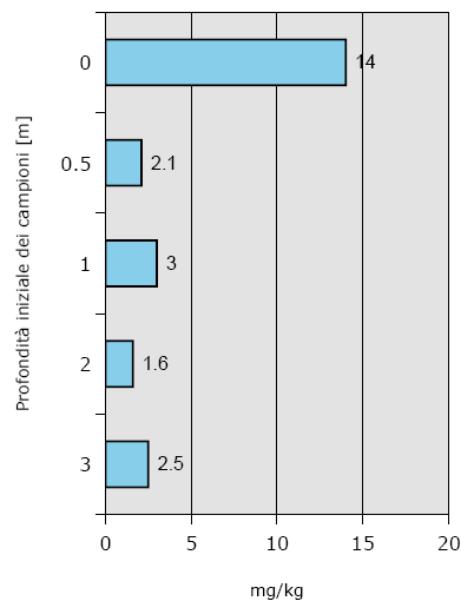


Concentrazioni di cobalto riscontrate per i diversi sondaggi a differenti profondità (lim A 20mg/kg, B 250mg/kg)

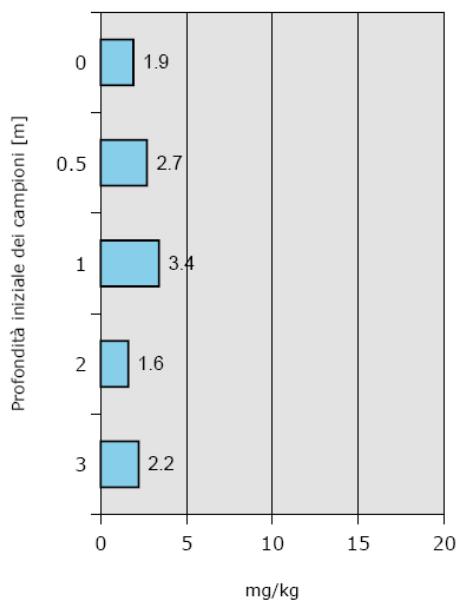
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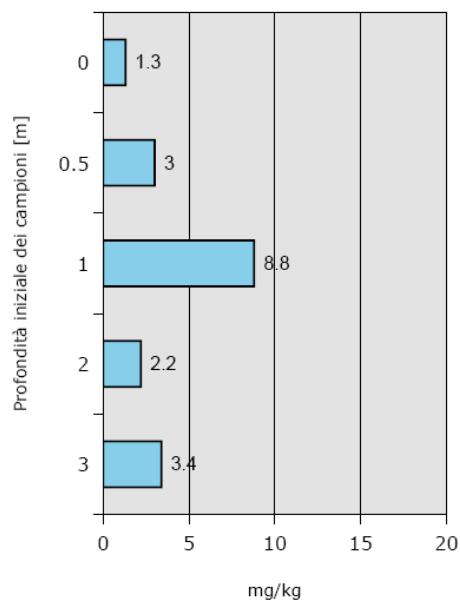
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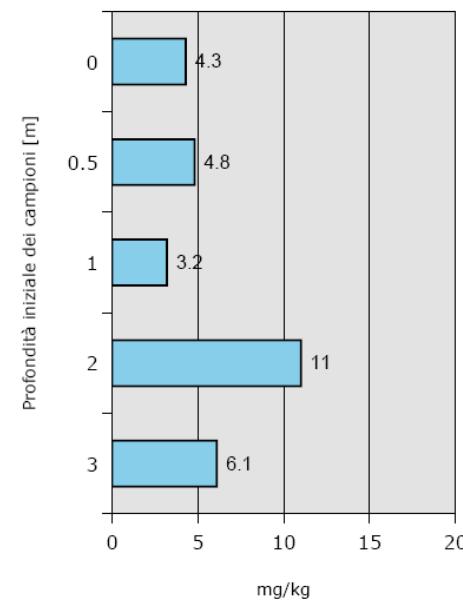
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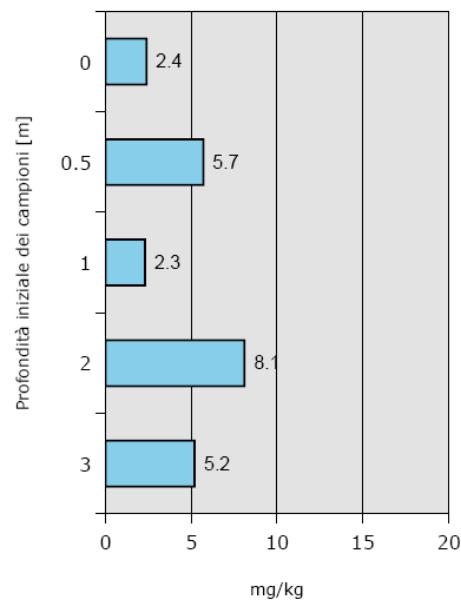
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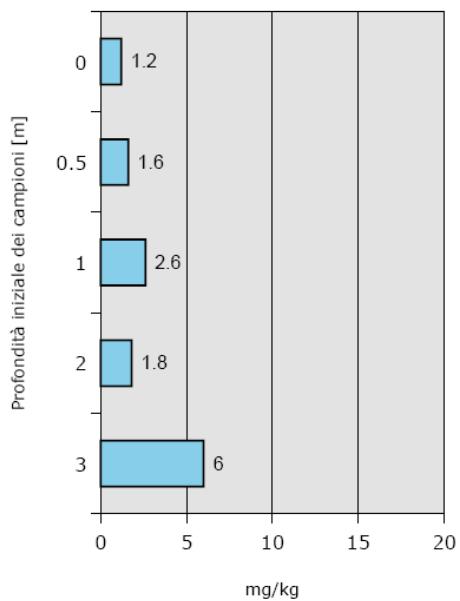
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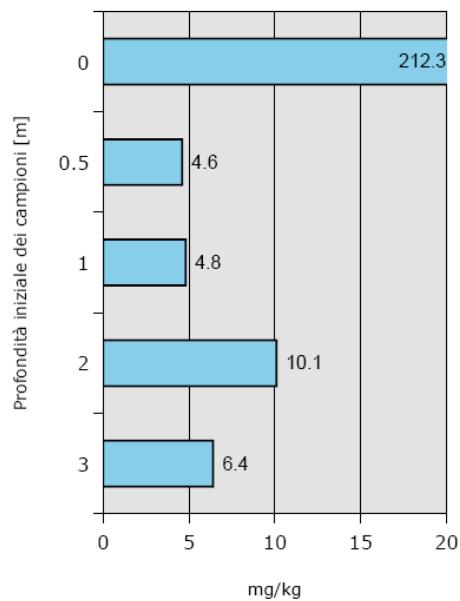
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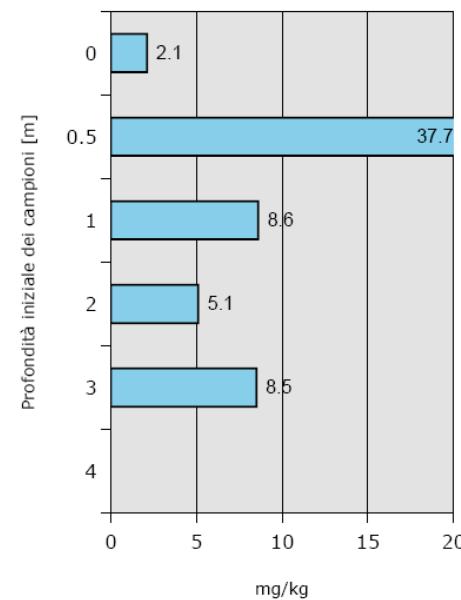


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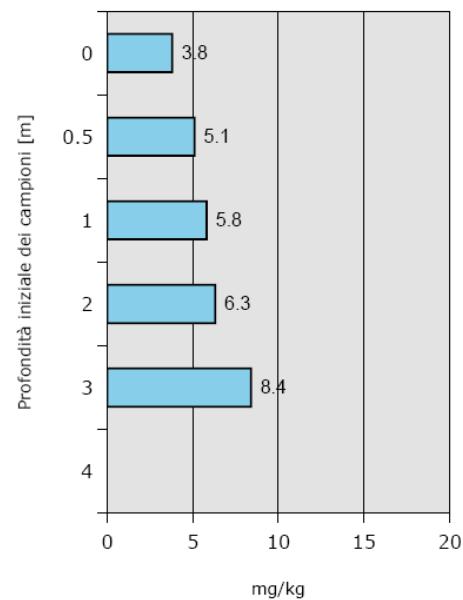


Concentrazioni di cobalto riscontrate per i diversi sondaggi a differenti profondità (lim A 20mg/kg, B 250mg/kg)

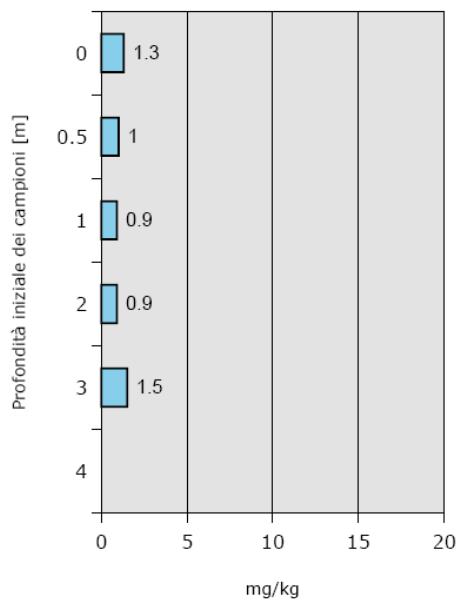
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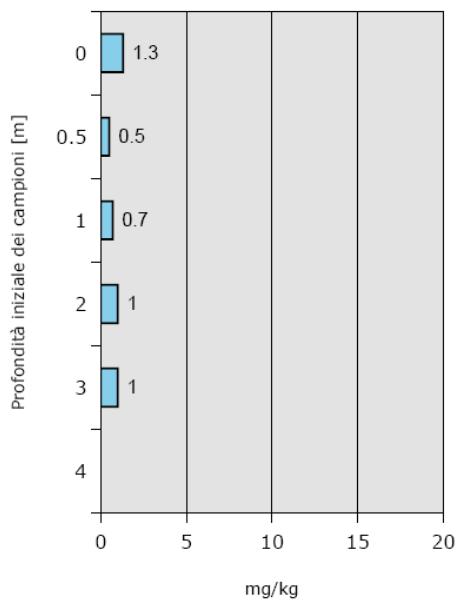
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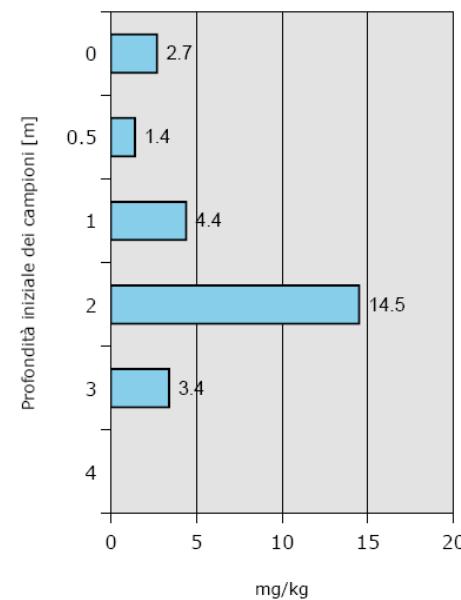
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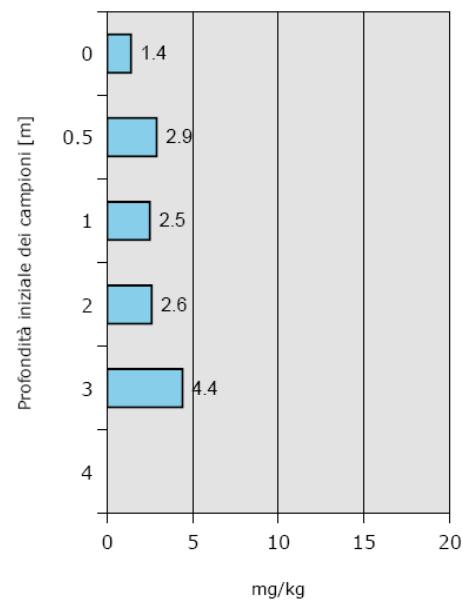
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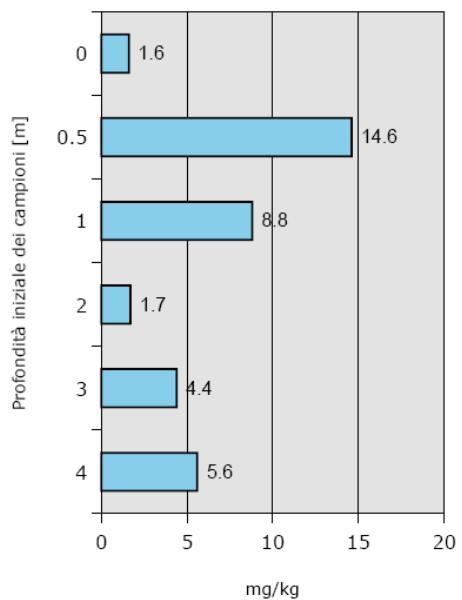
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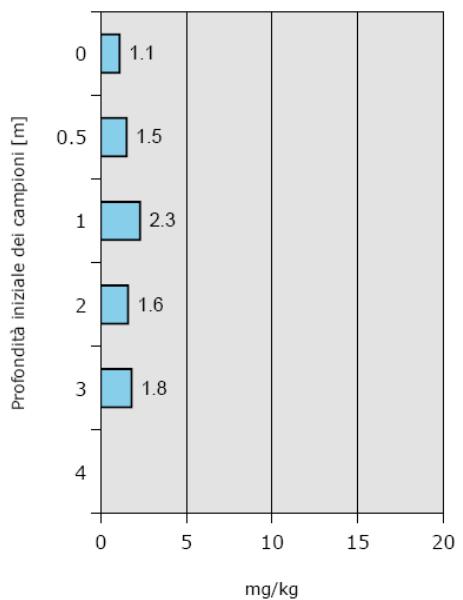
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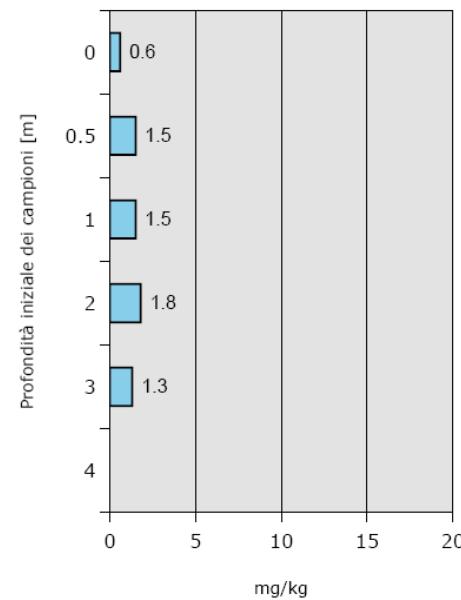


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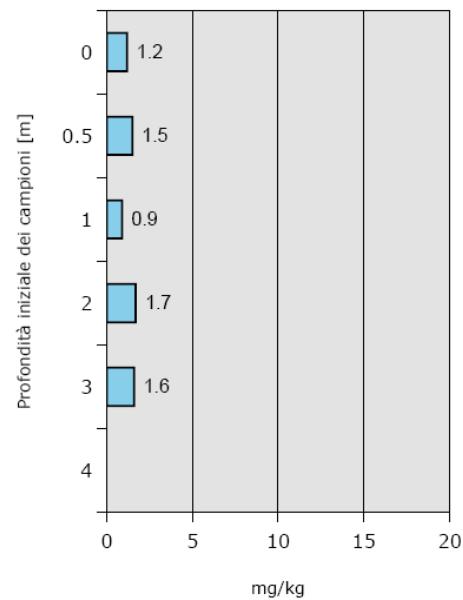


Concentrazioni di cobalto riscontrate per i diversi sondaggi a differenti profondità (lim A 20mg/kg, B 250mg/kg)

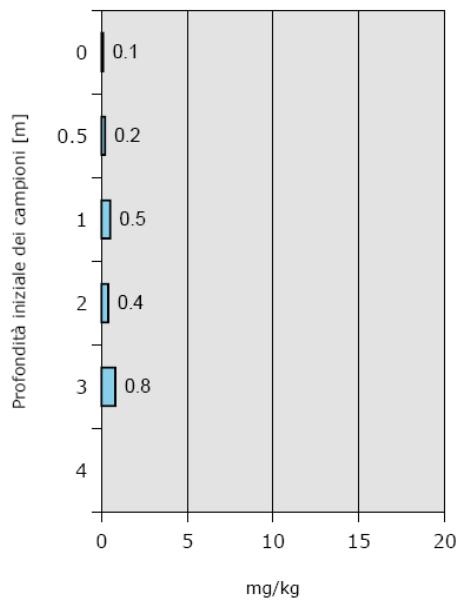
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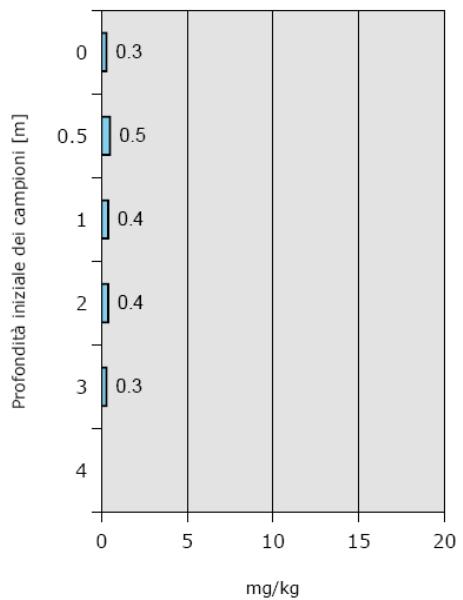
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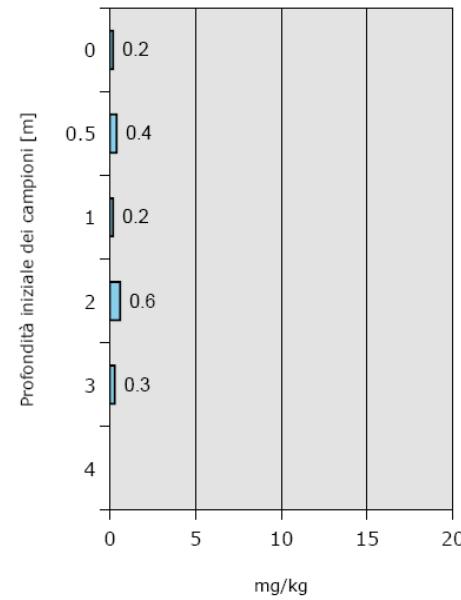
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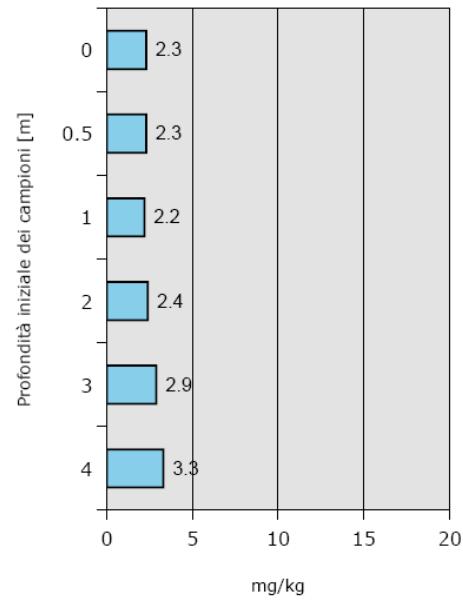
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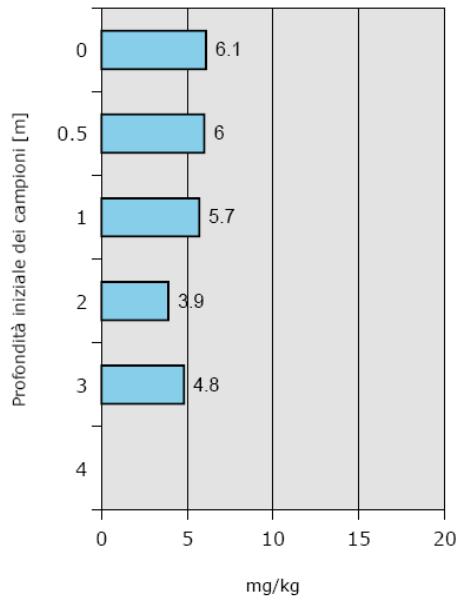
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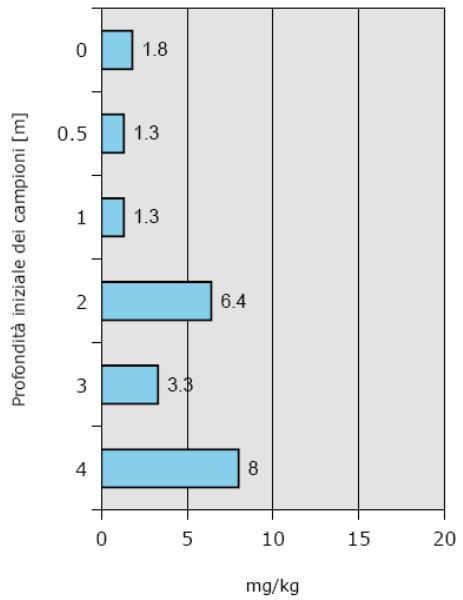
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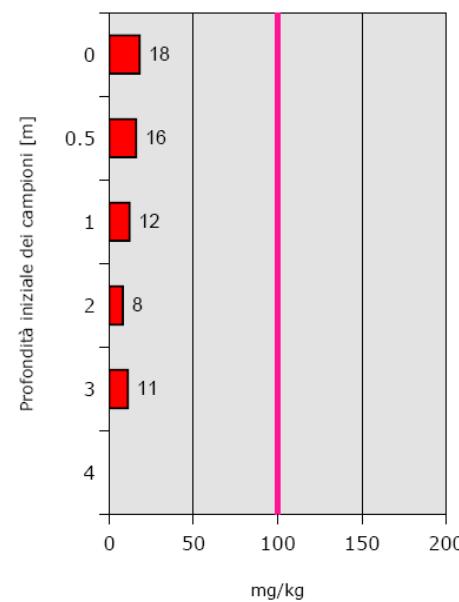


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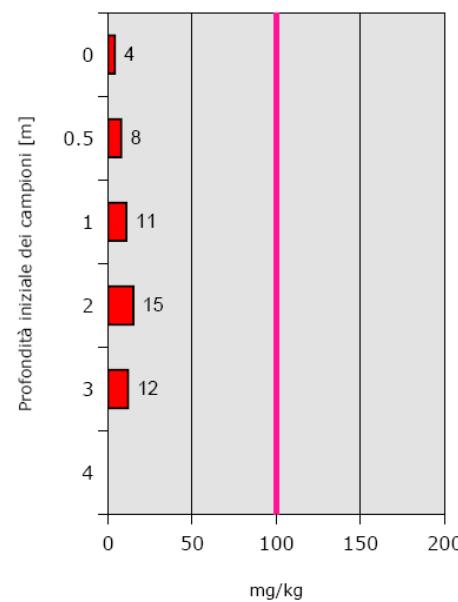


Concentrazioni di piombo riscontrate per i diversi sondaggi a differenti profondità (lim A 100mg/kg, B 1000mg/kg)

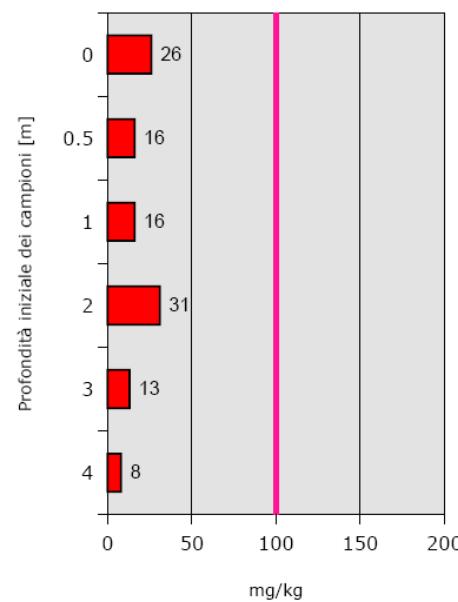
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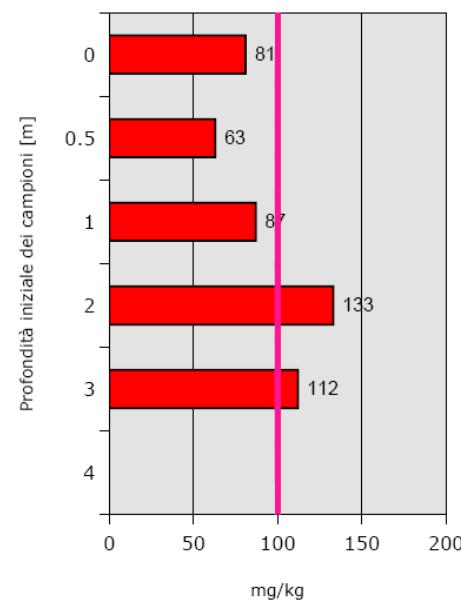
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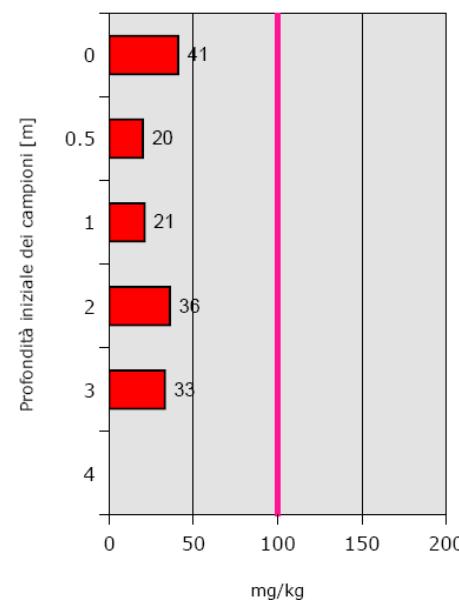
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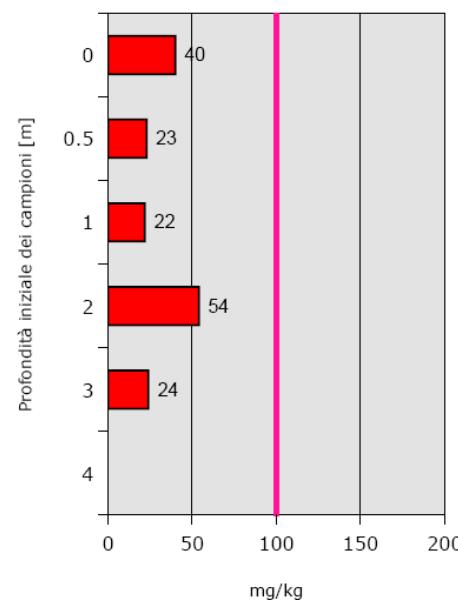
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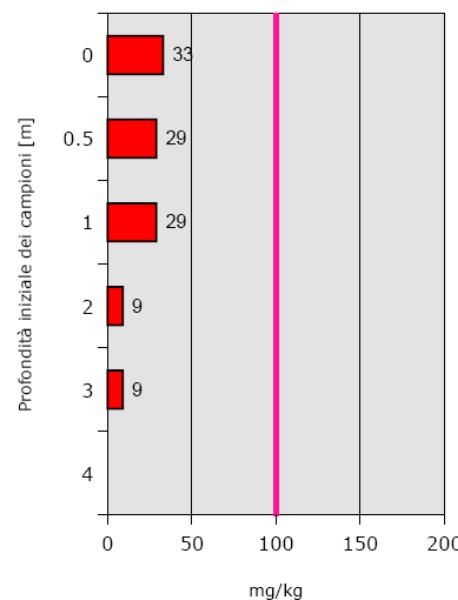
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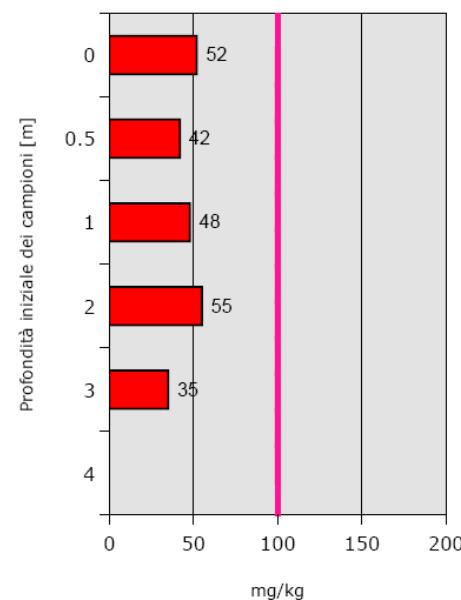
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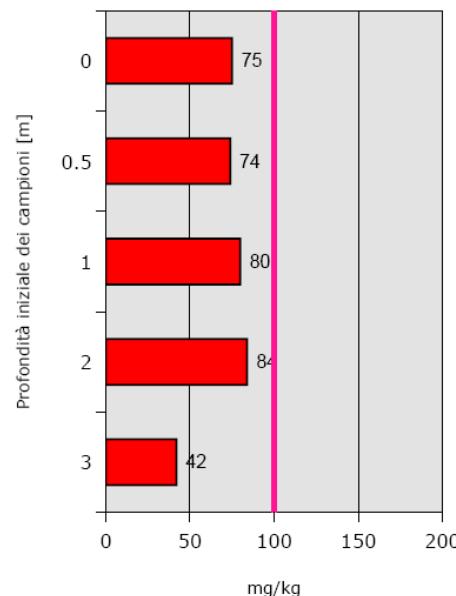


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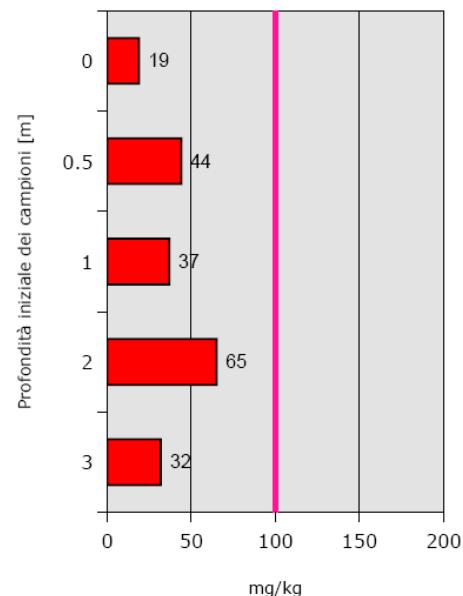


Concentrazioni di piombo riscontrate per i diversi sondaggi a differenti profondità (lim A 100mg/kg, B 1000mg/kg)

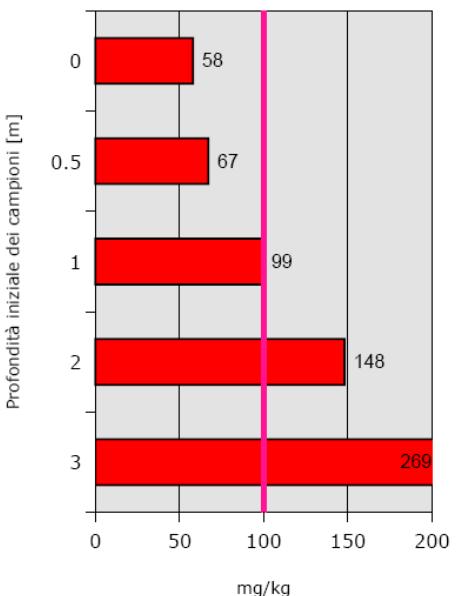
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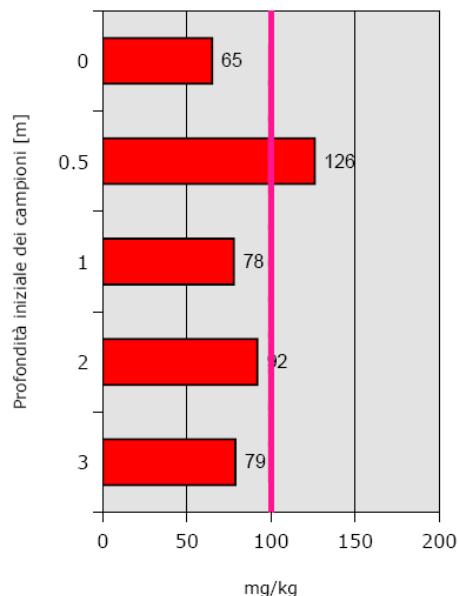
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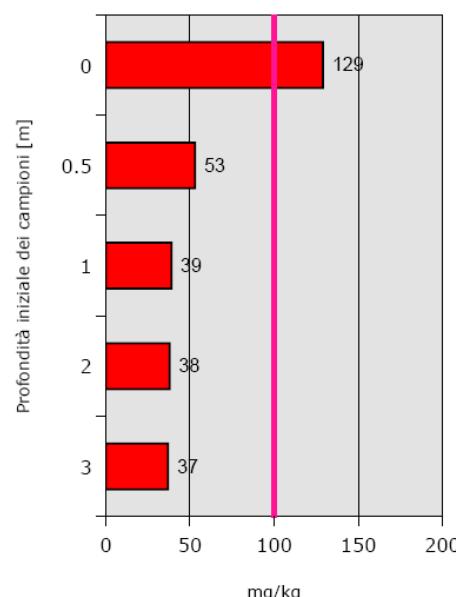
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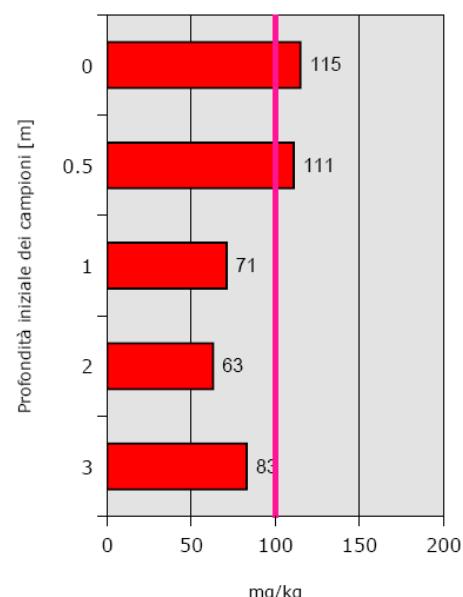
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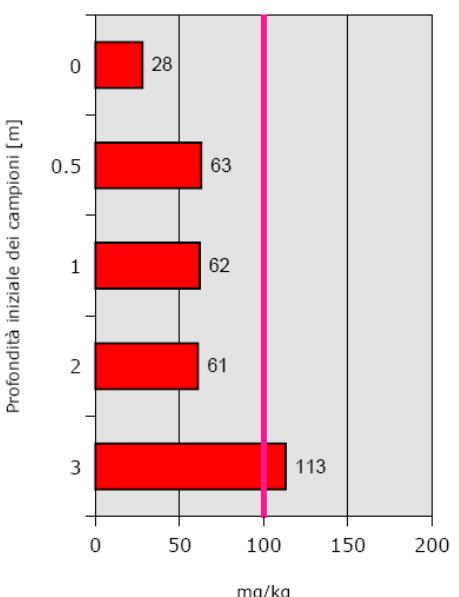
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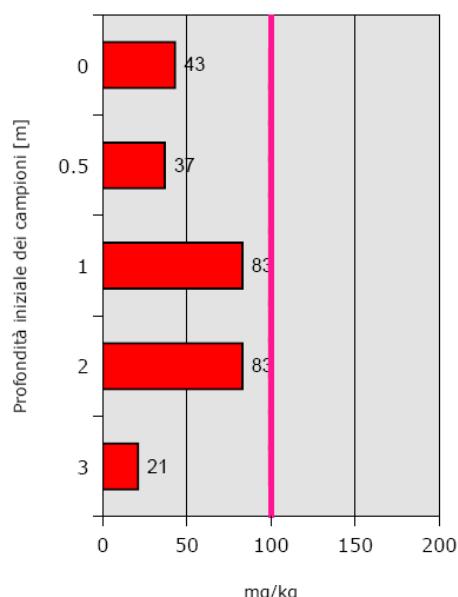
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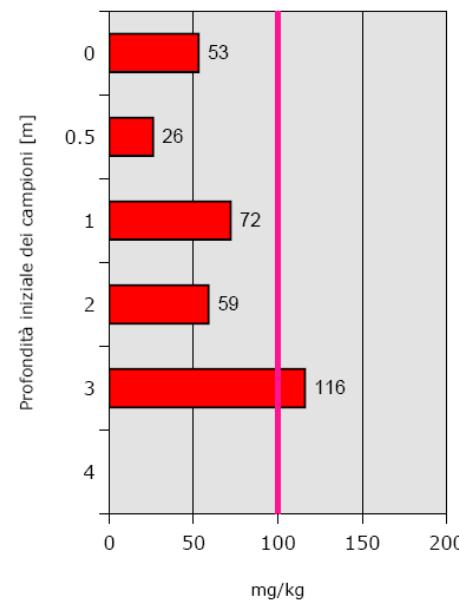


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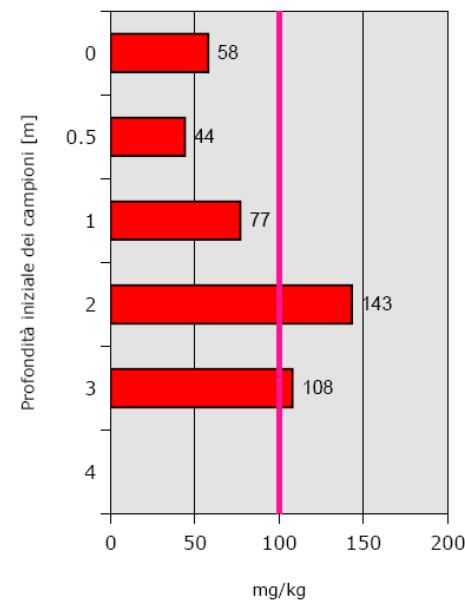


Concentrazioni di piombo riscontrate per i diversi sondaggi a differenti profondità (lim A 100mg/kg, B 1000mg/kg)

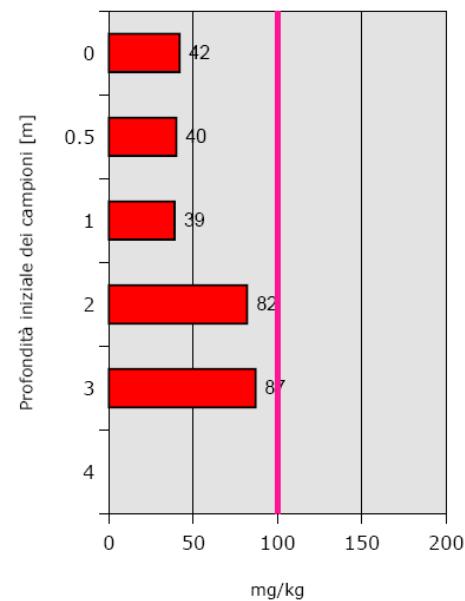
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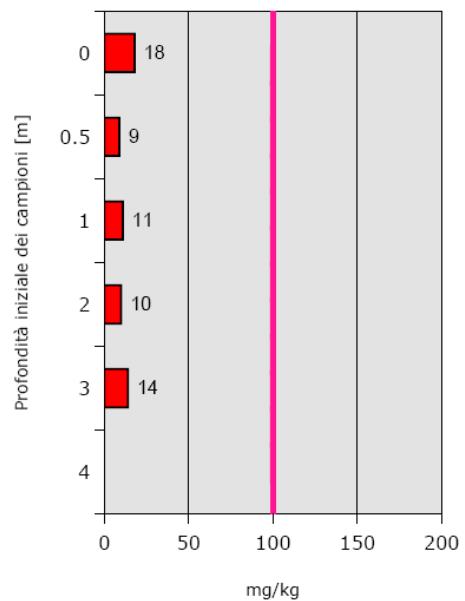
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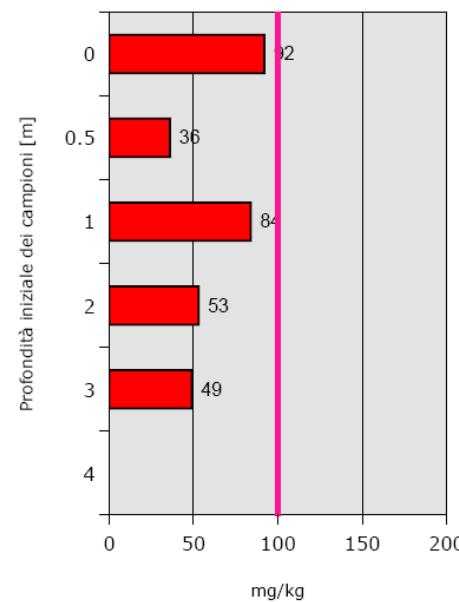
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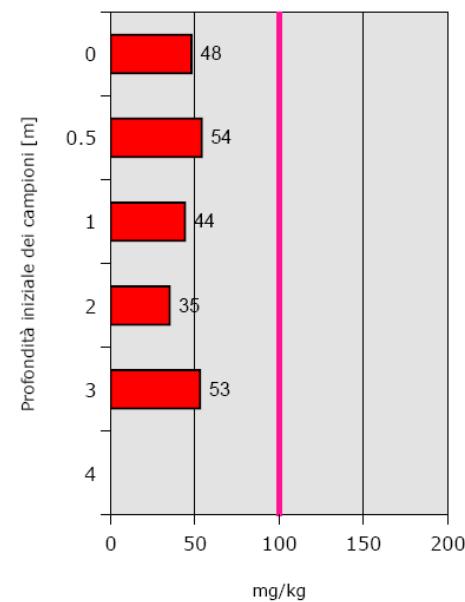
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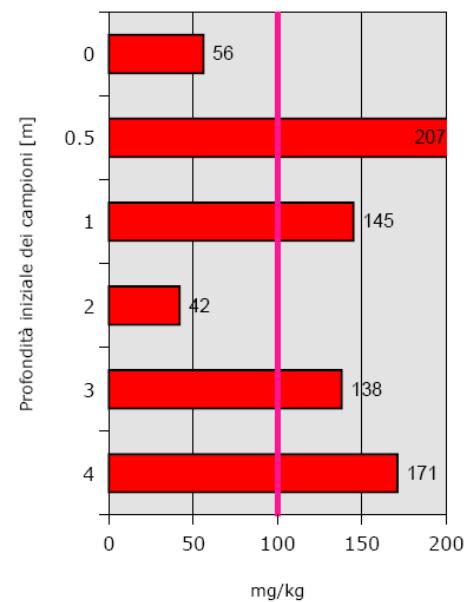
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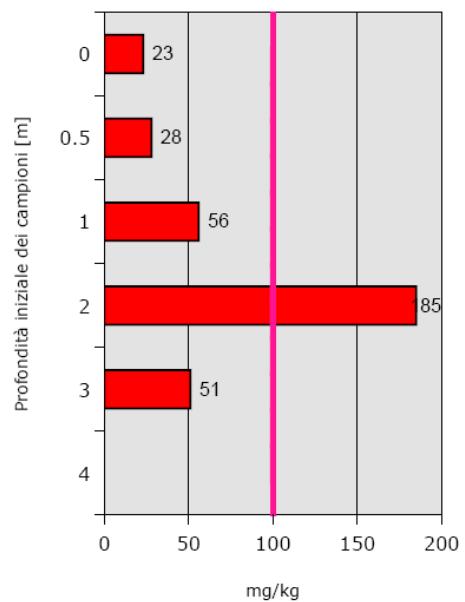
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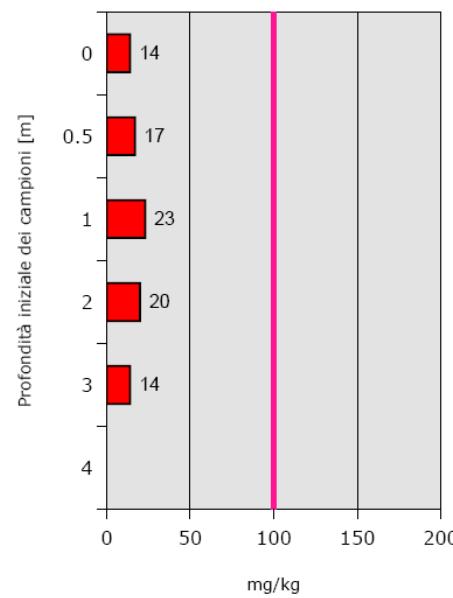


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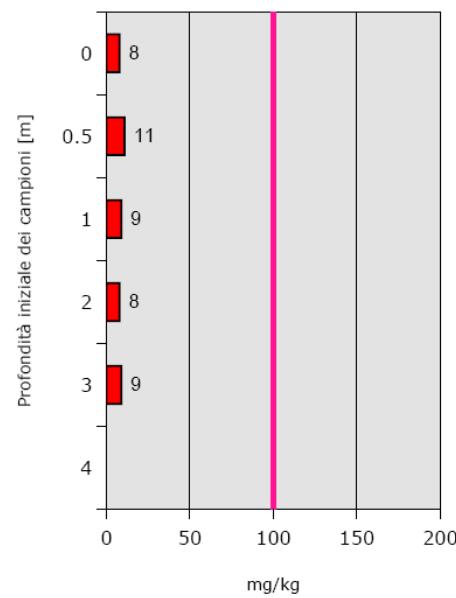


Concentrazioni di piombo riscontrate per i diversi sondaggi a differenti profondità (lim A 100mg/kg, B 1000mg/kg)

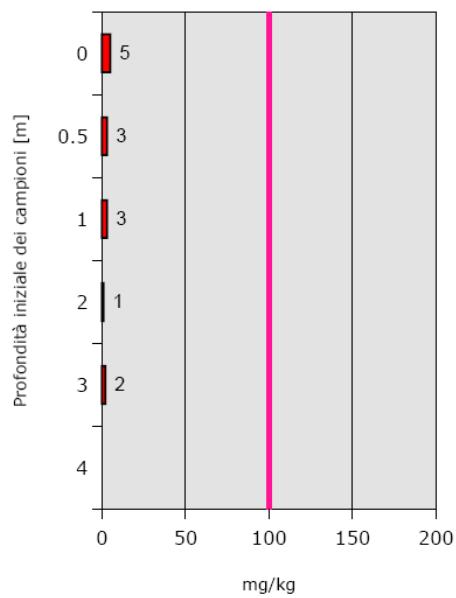
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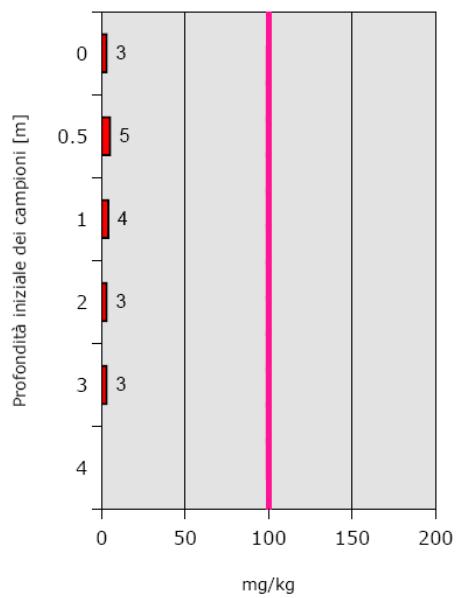
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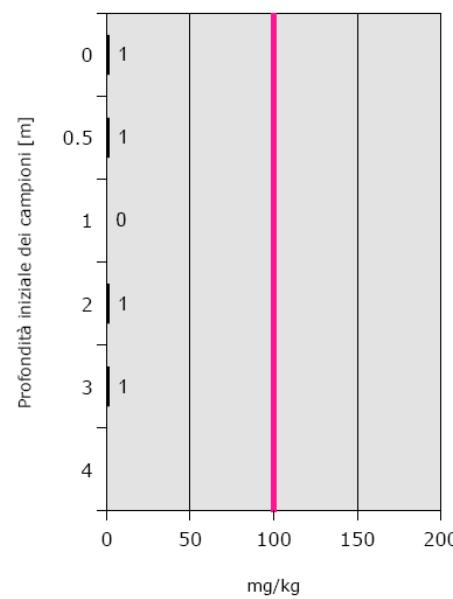
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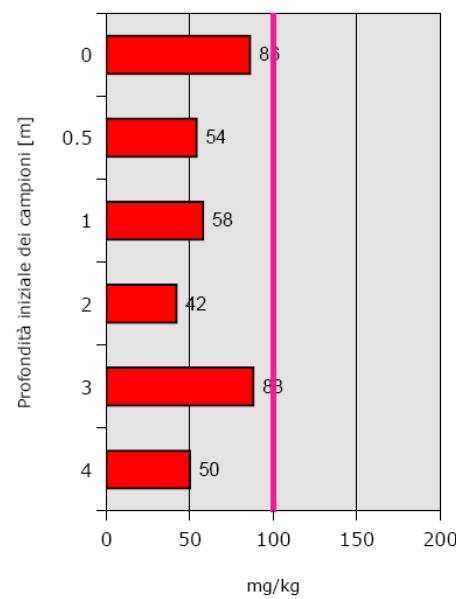
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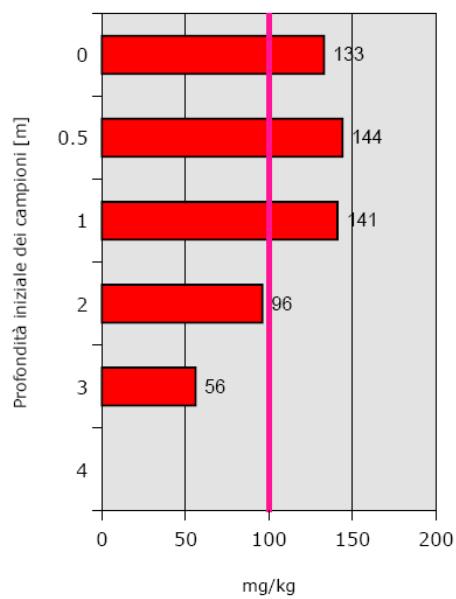
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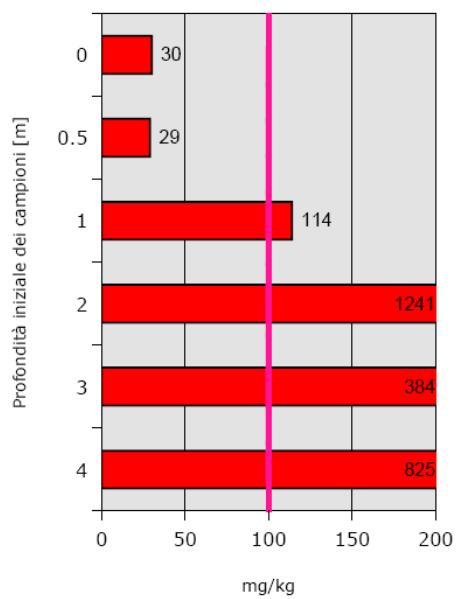
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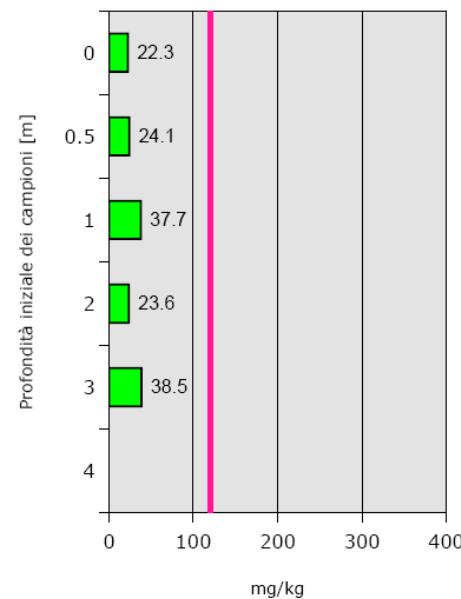


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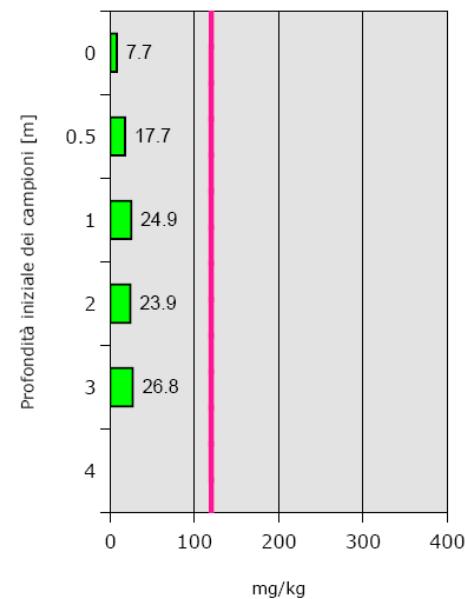


Concentrazioni di rame riscontrate per i diversi sondaggi a differenti profondità (lim A 120mg/kg, B 600mg/kg)

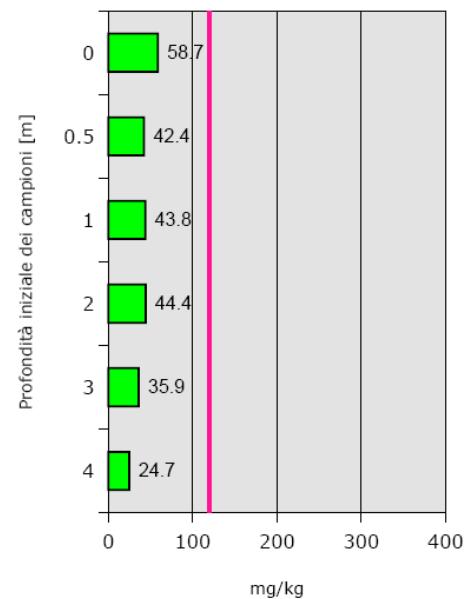
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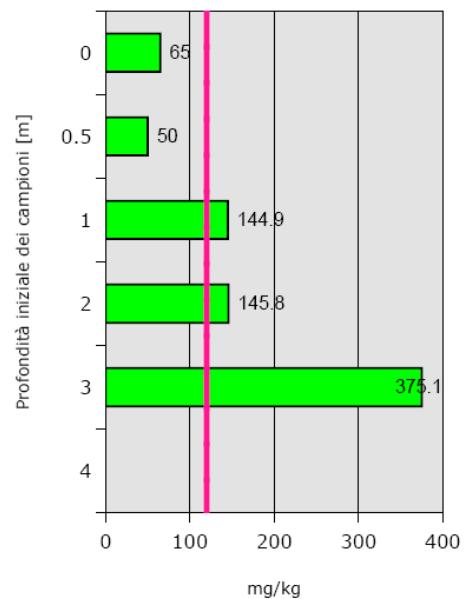
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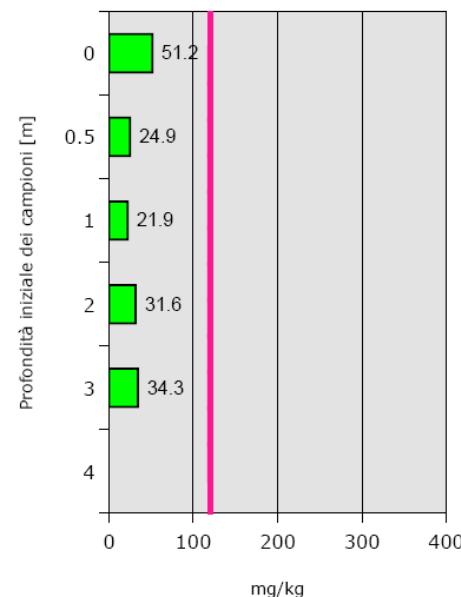
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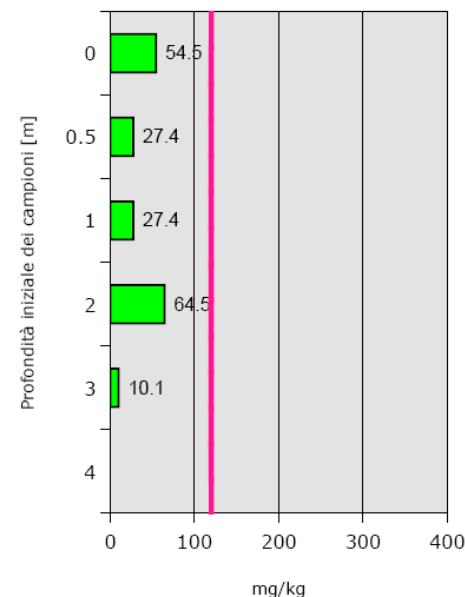
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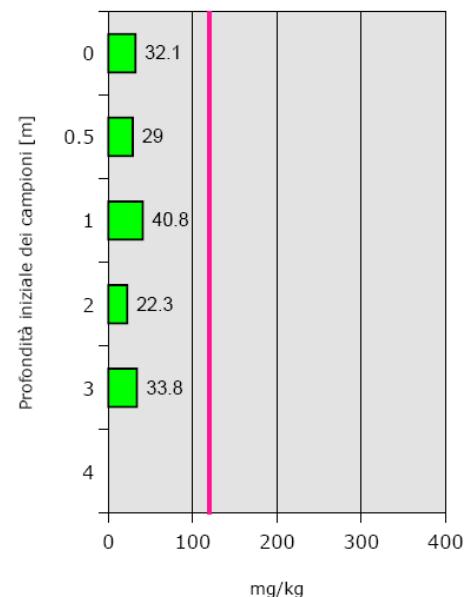
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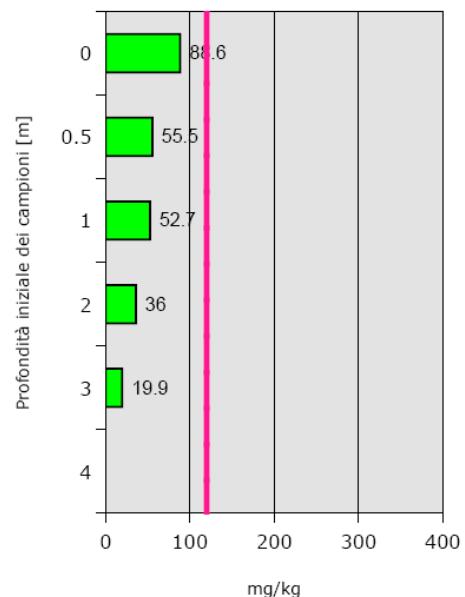
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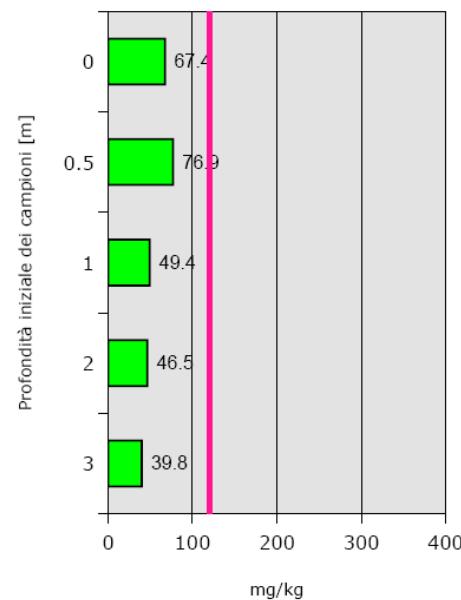


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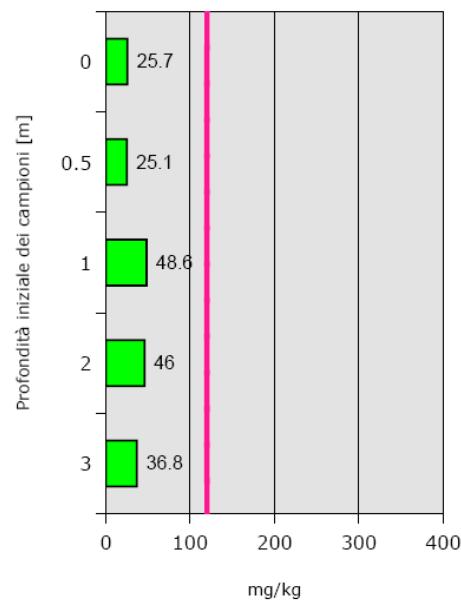


Concentrazioni di rame riscontrate per i diversi sondaggi a differenti profondità (lim A 120mg/kg, B 600mg/kg)

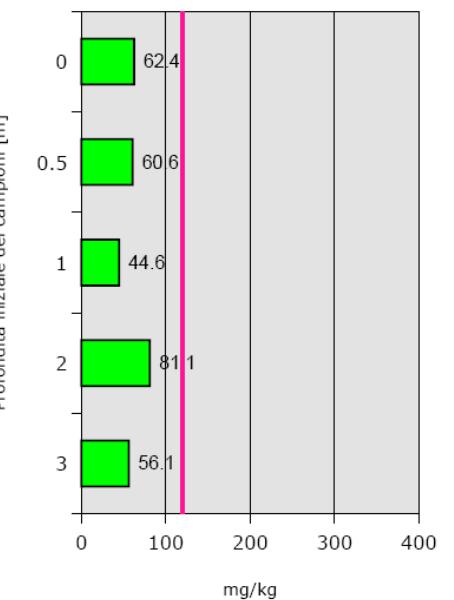
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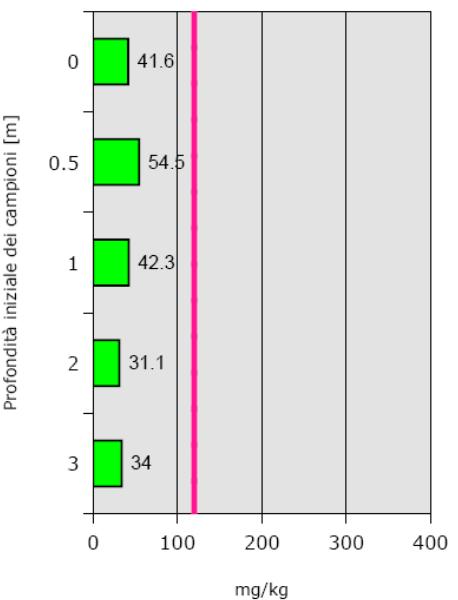
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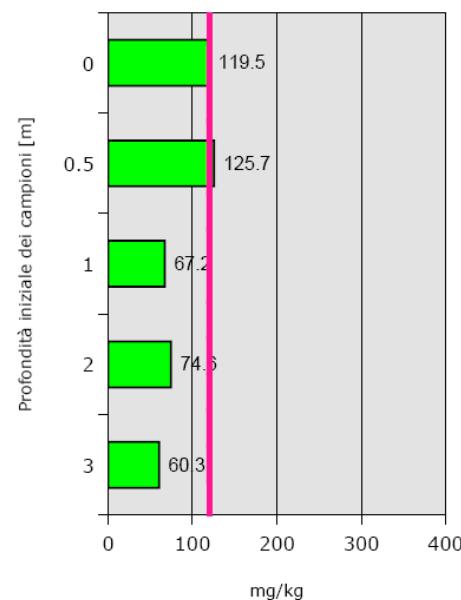
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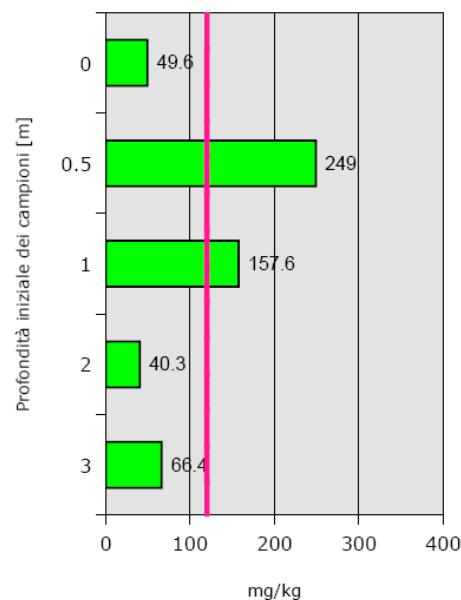
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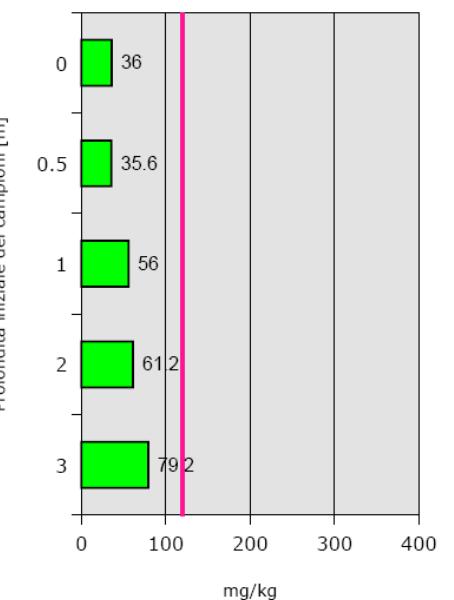
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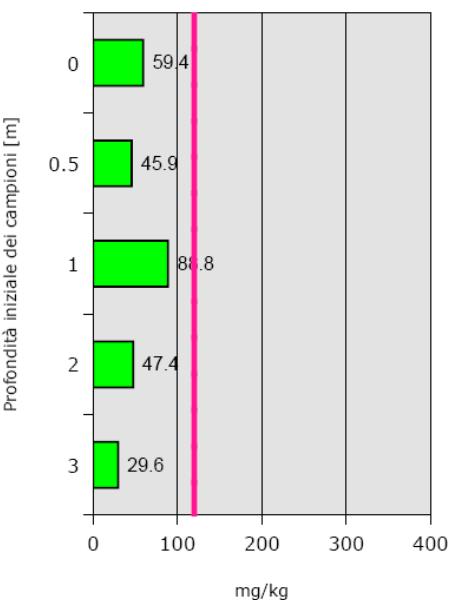
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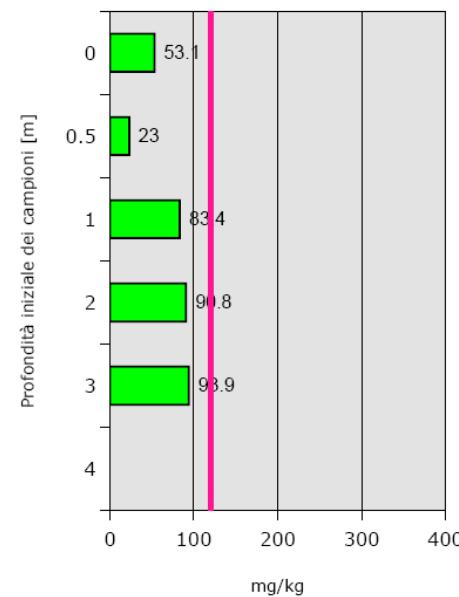


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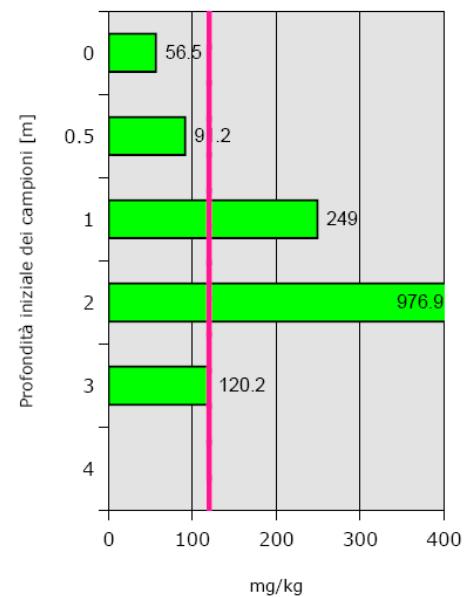


Concentrazioni di rame riscontrate per i diversi sondaggi a differenti profondità (lim A 120mg/kg, B 600mg/kg)

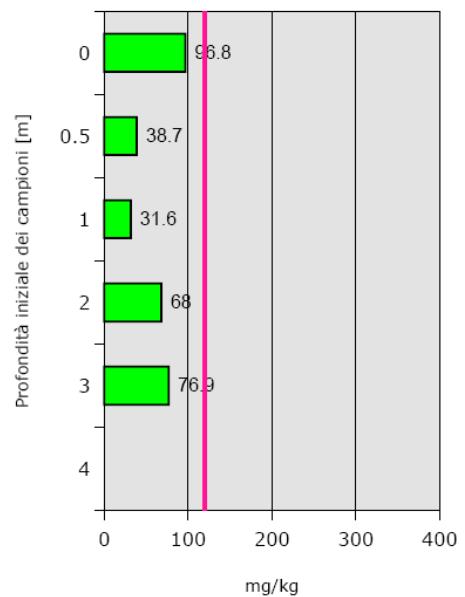
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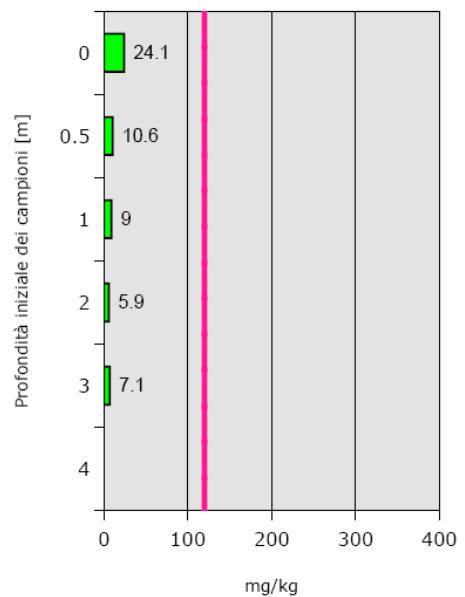
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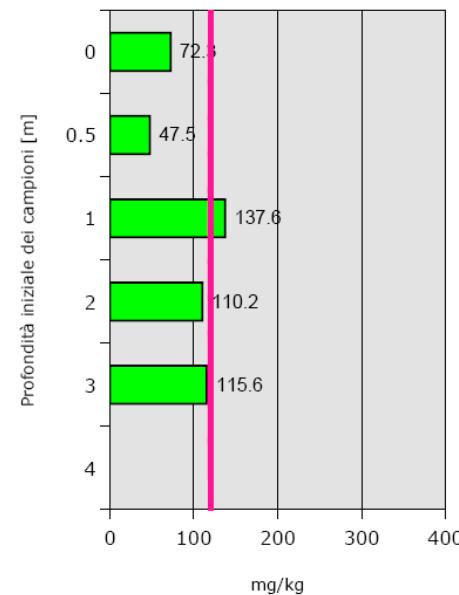
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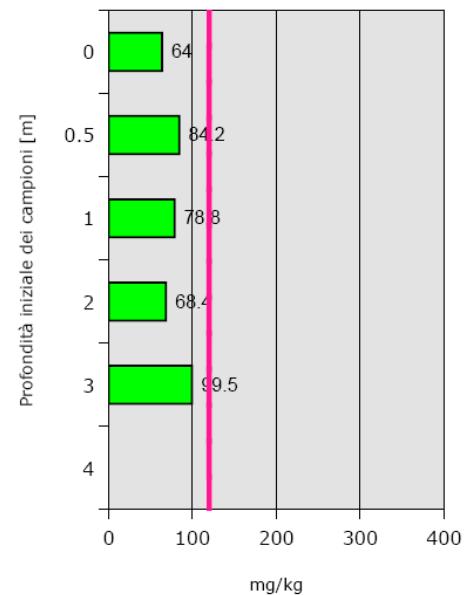
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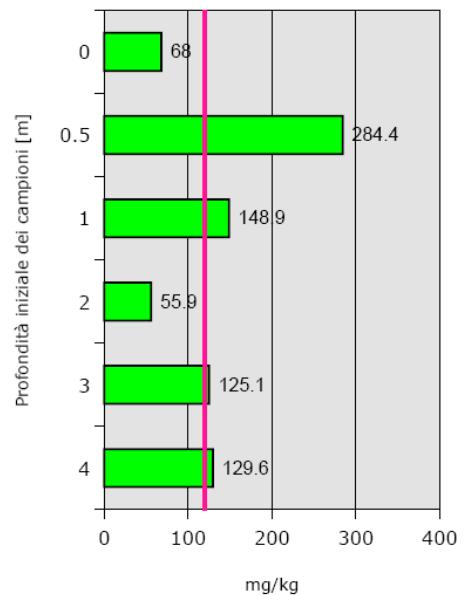
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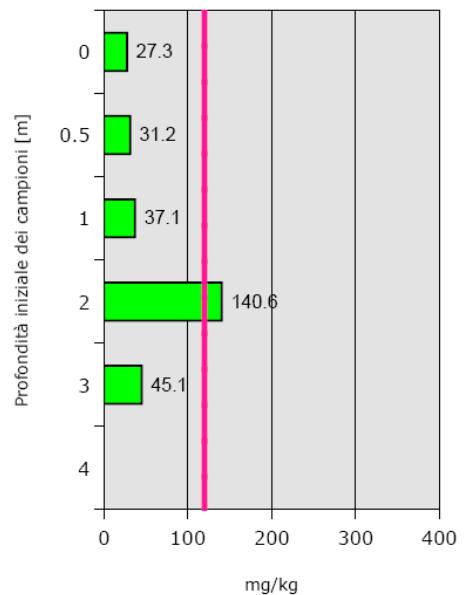
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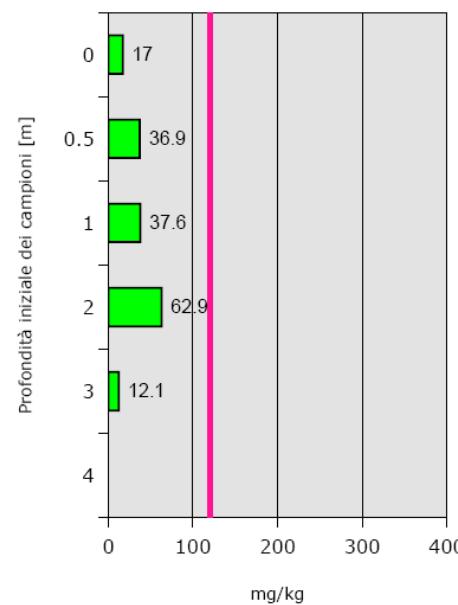


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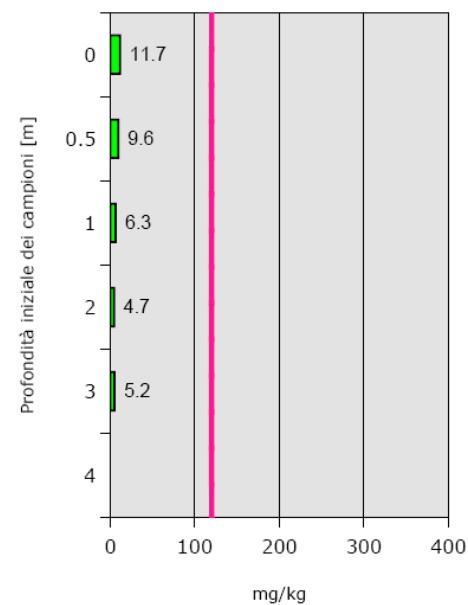


Concentrazioni di rame riscontrate per i diversi sondaggi a differenti profondità (lim A 120mg/kg, B 600mg/kg)

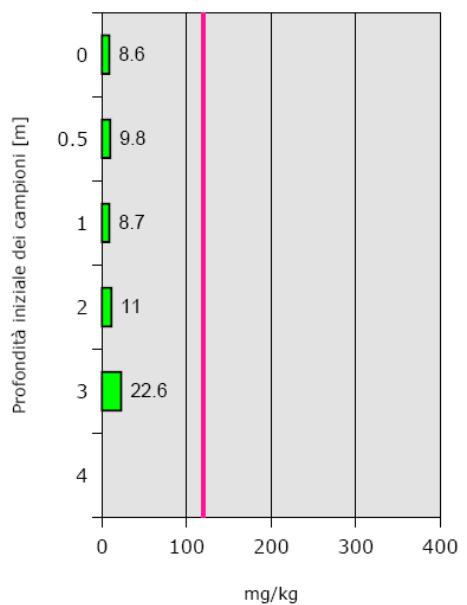
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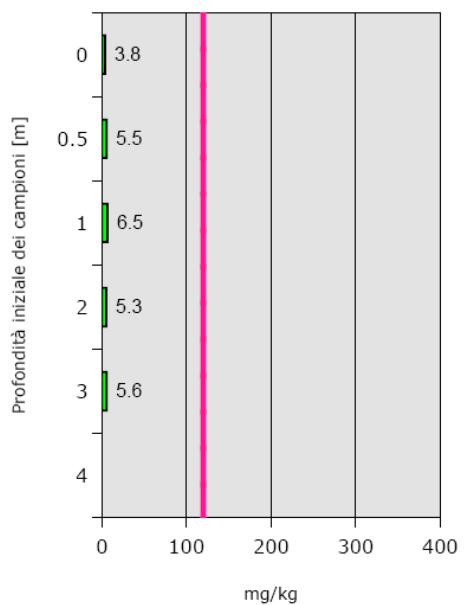
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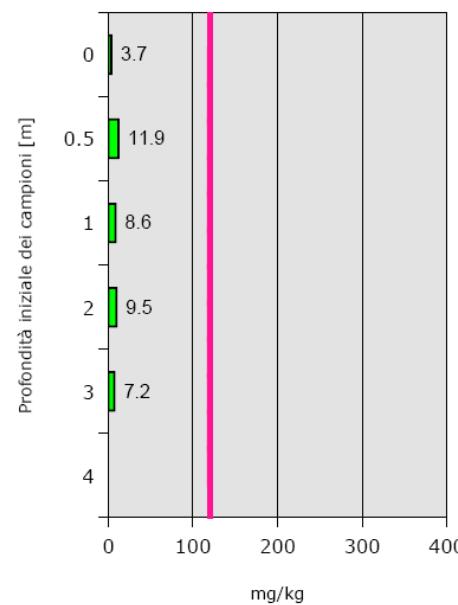
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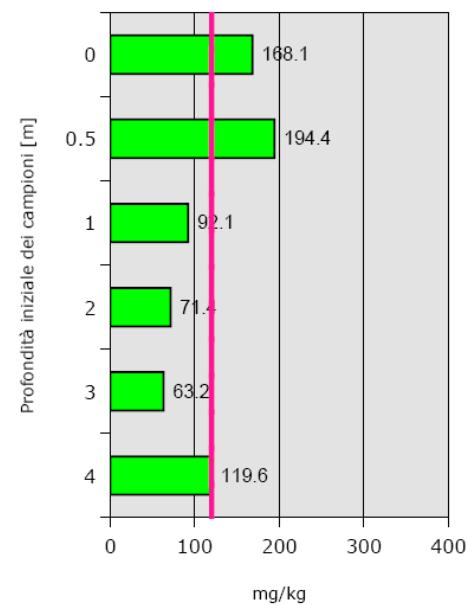
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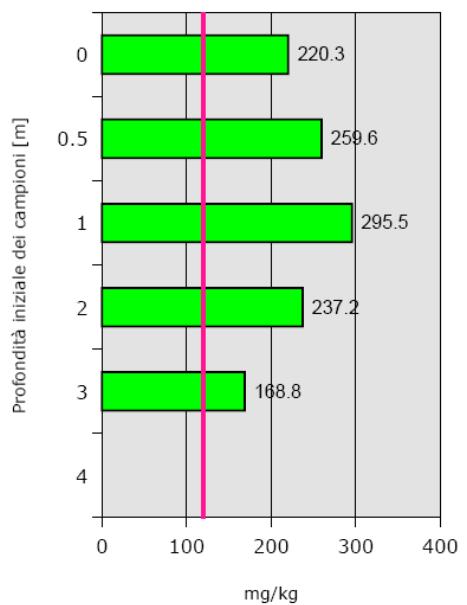
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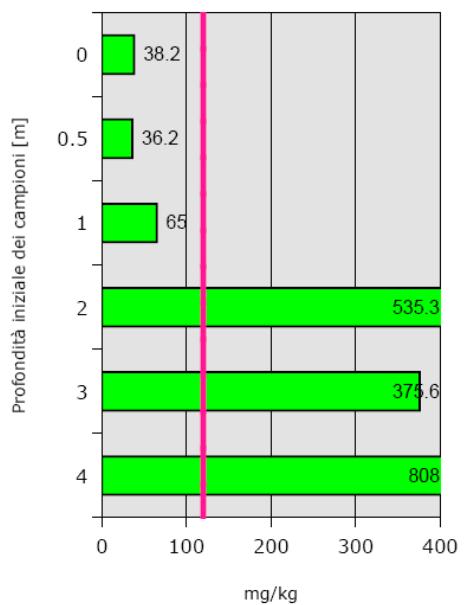
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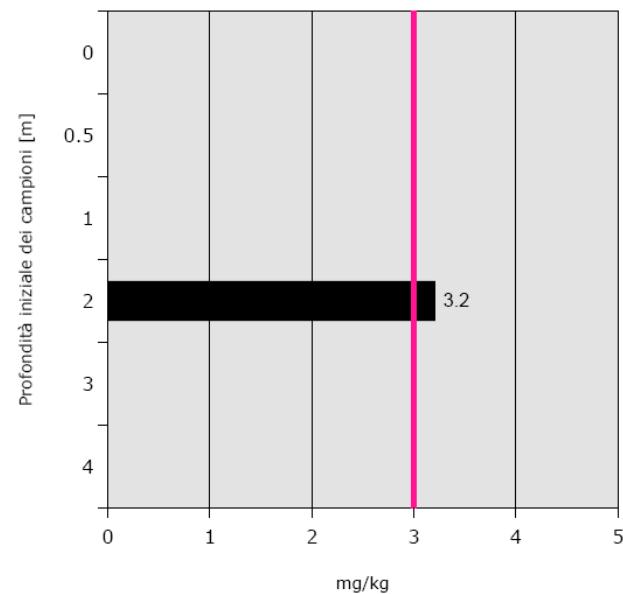


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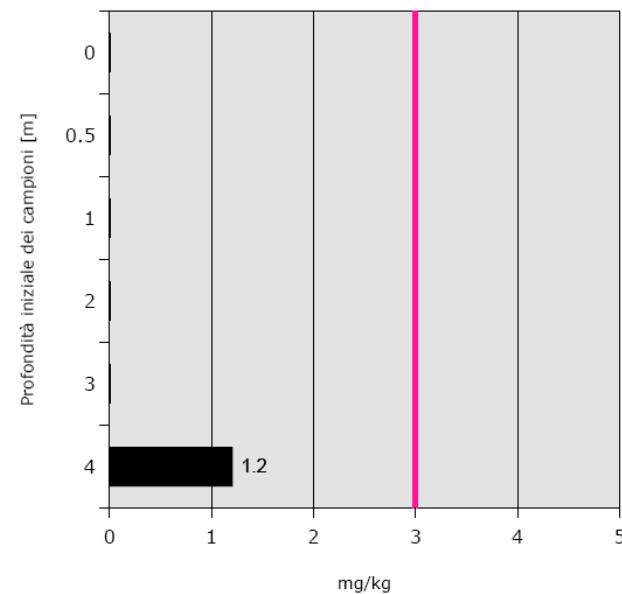


Concentrazioni di selenio riscontrate per i diversi sondaggi a differenti profondità (lim A 3 mg/kg, B 15 mg/kg)

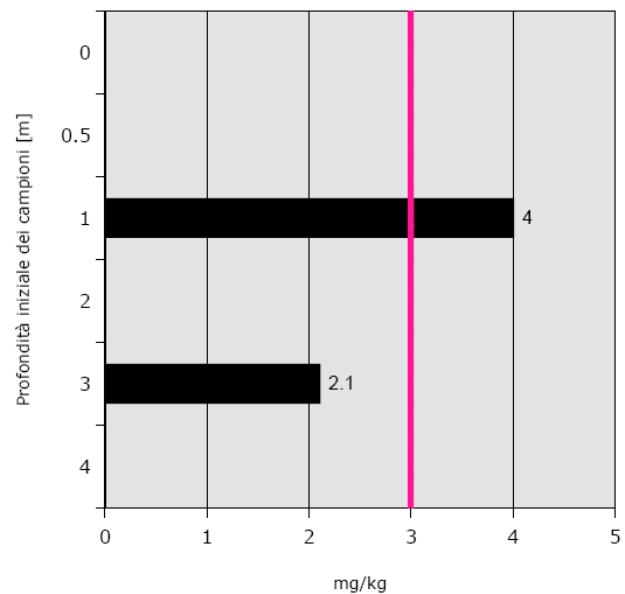
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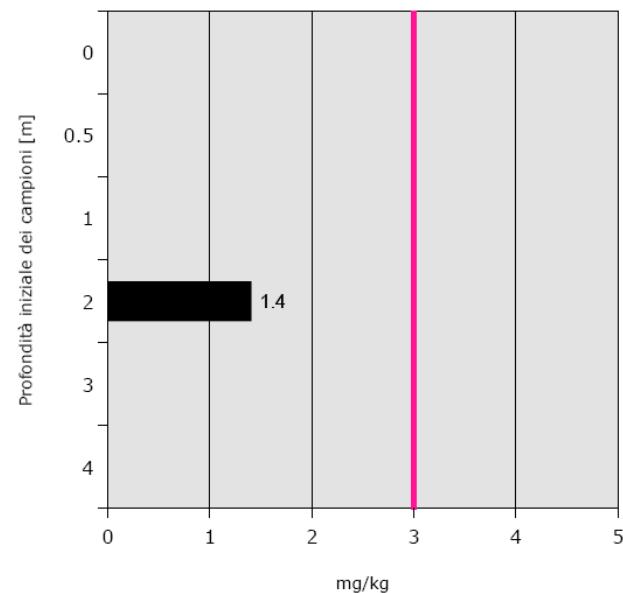
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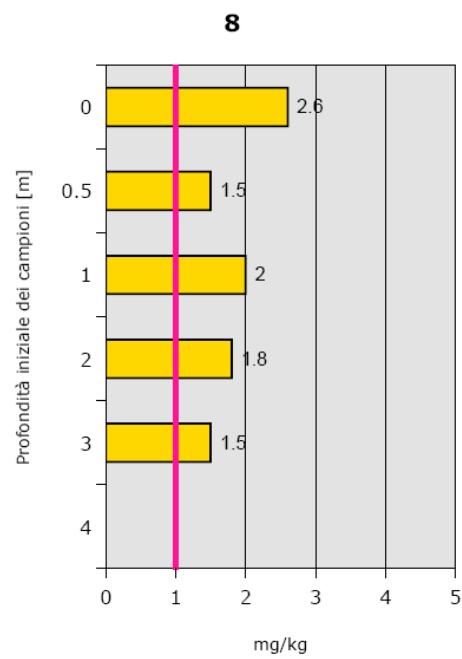
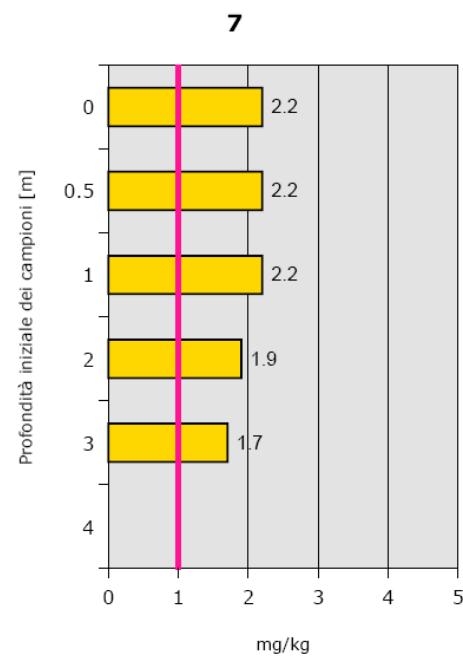
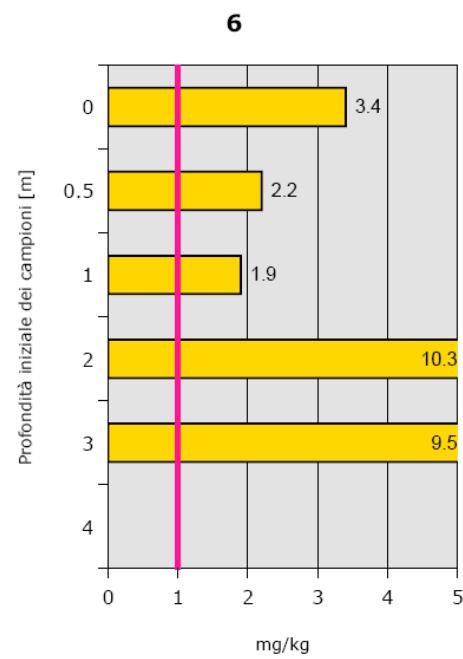
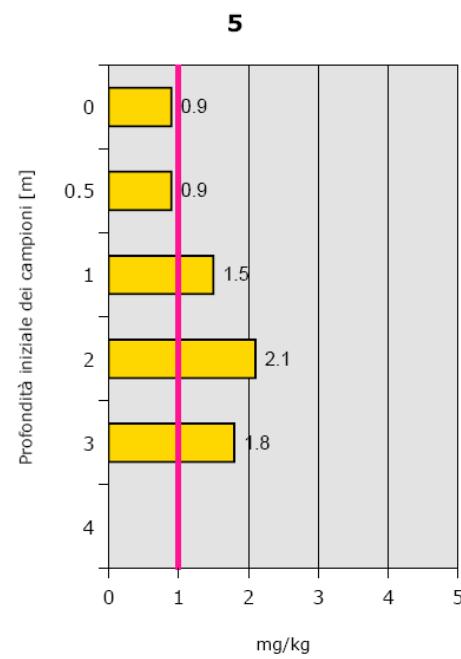
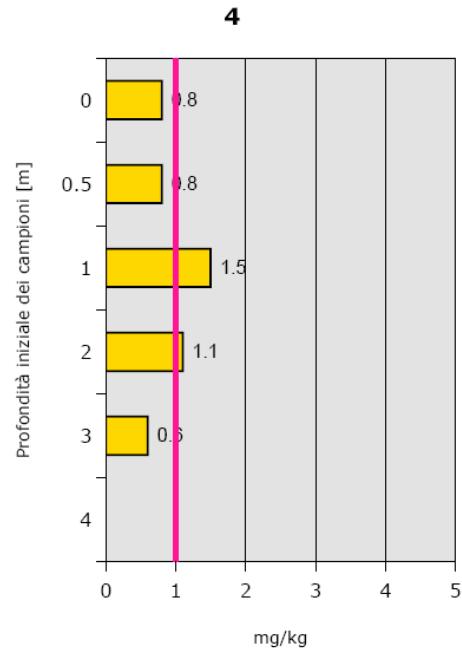
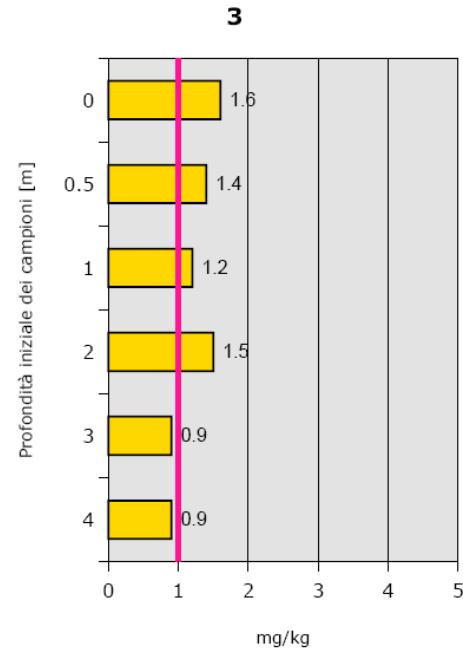
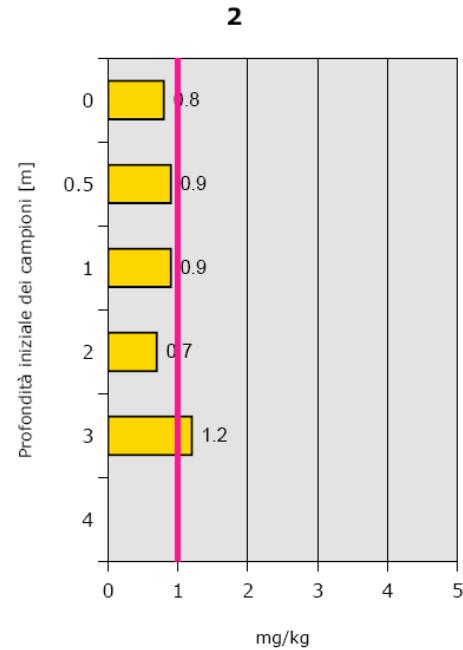
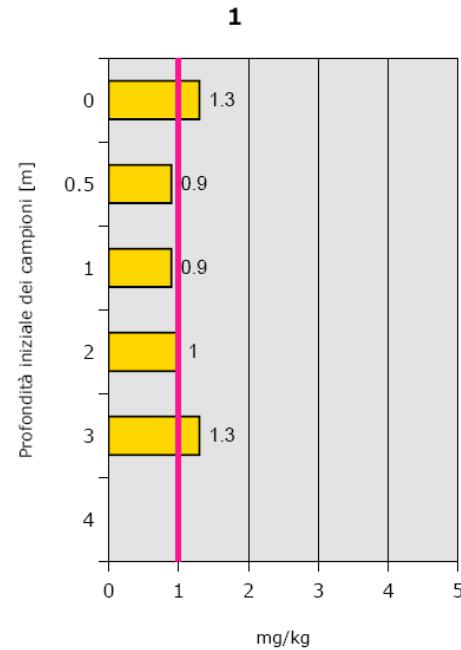
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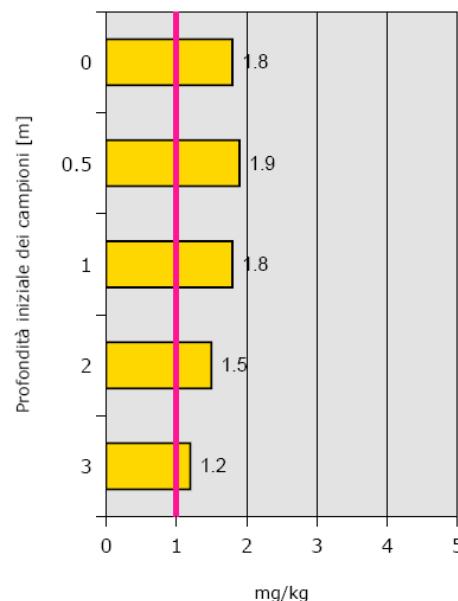


Concentrazioni di stagno riscontrate per i diversi sondaggi a differenti profondità (lim A 1 mg/kg, B 350 mg/kg)

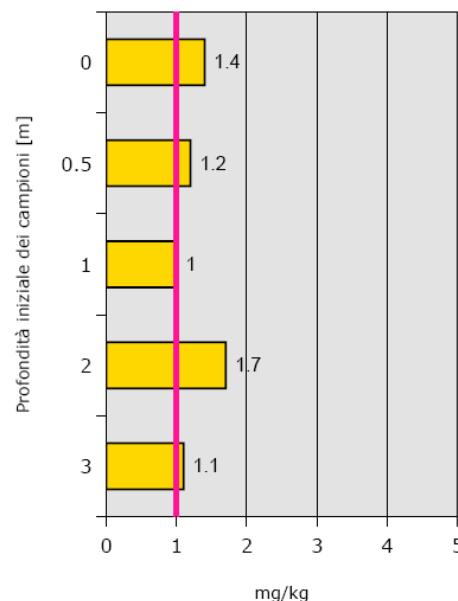


Concentrazioni di stagno riscontrate per i diversi sondaggi a differenti profondità (lim A 1 mg/kg, B 350 mg/kg)

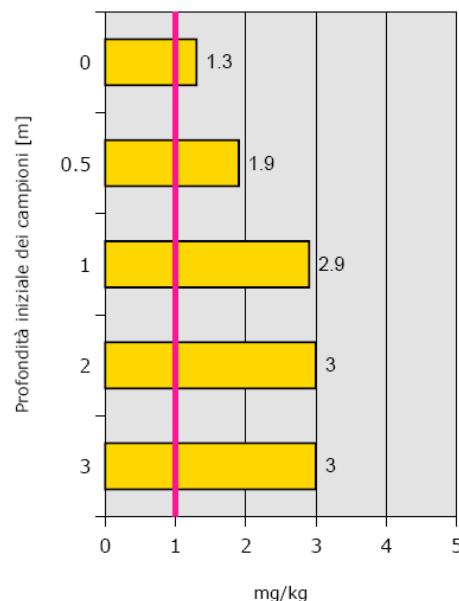
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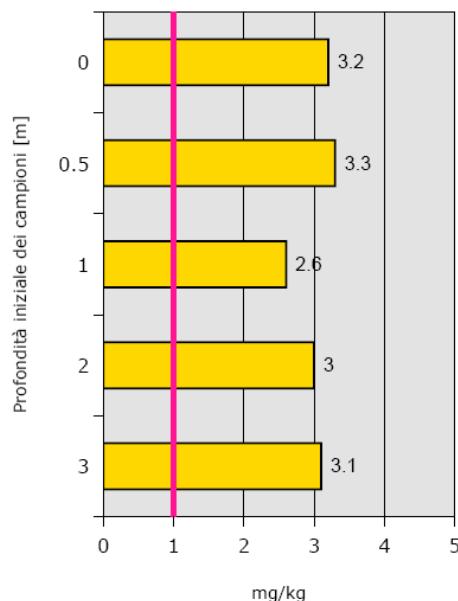
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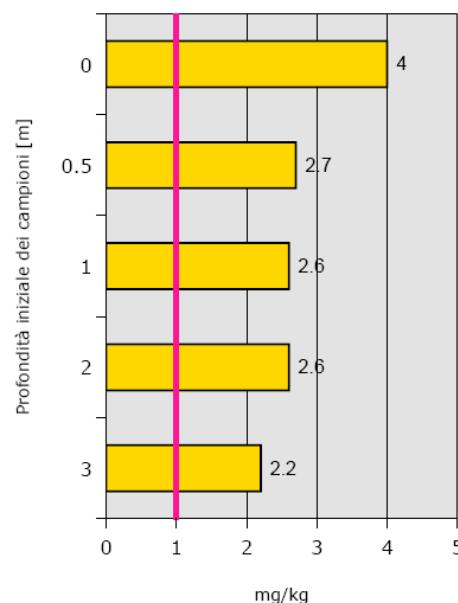
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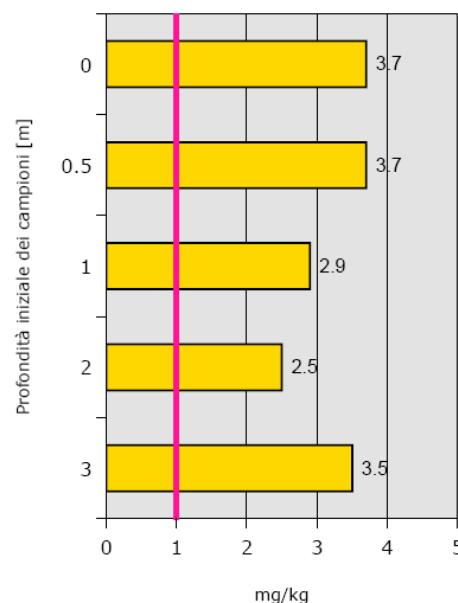
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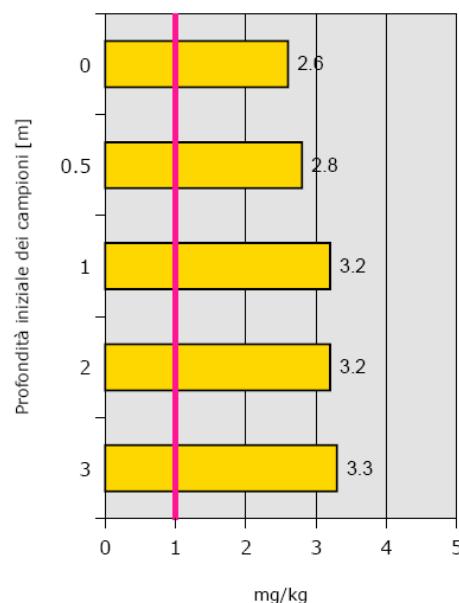
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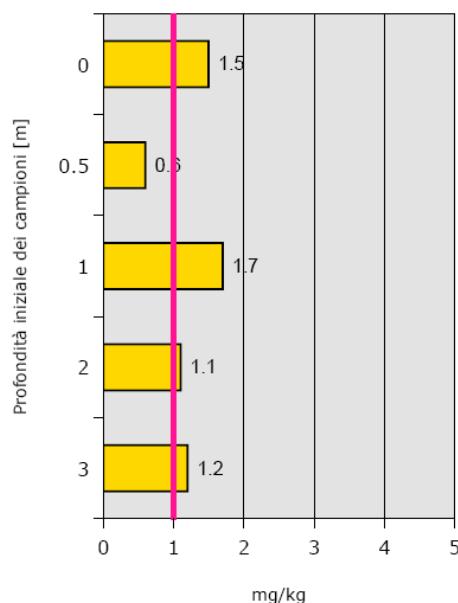
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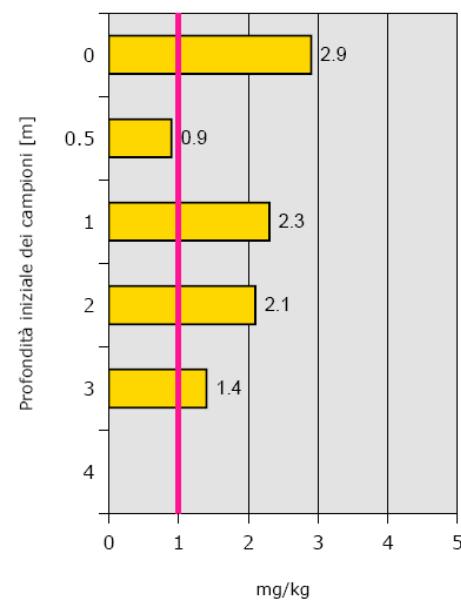


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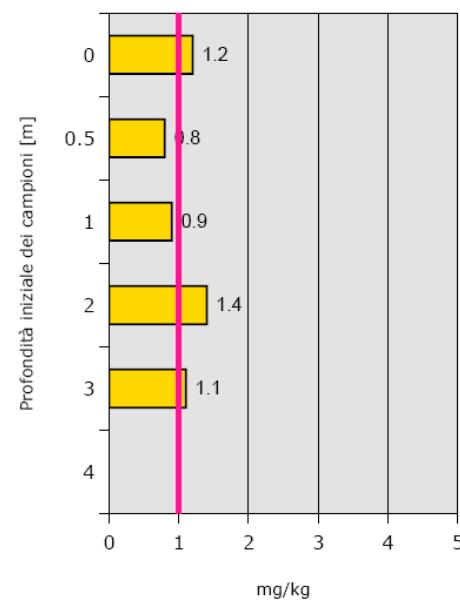


Concentrazioni di stagno riscontrate per i diversi sondaggi a differenti profondità (lim A 1 mg/kg, B 350 mg/kg)

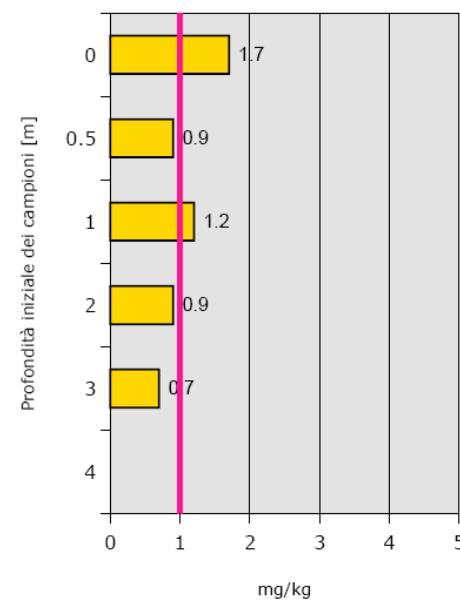
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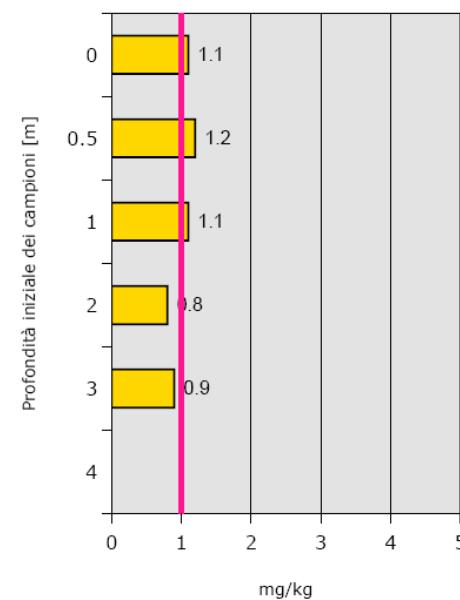
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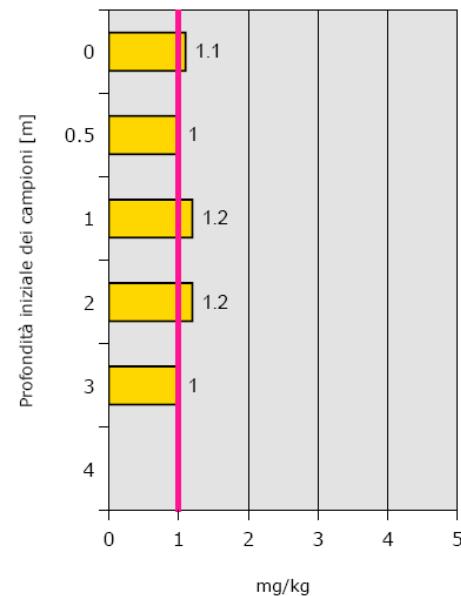
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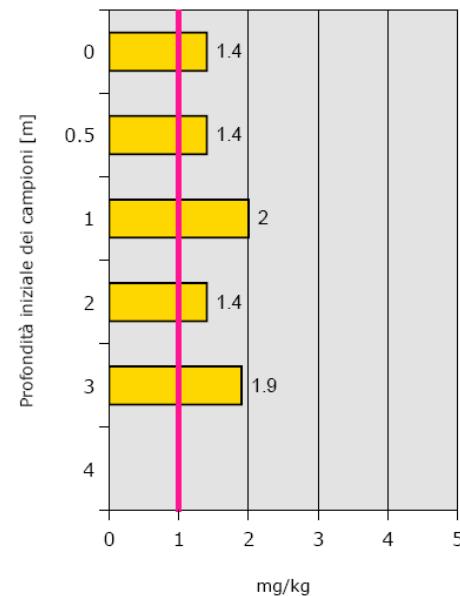
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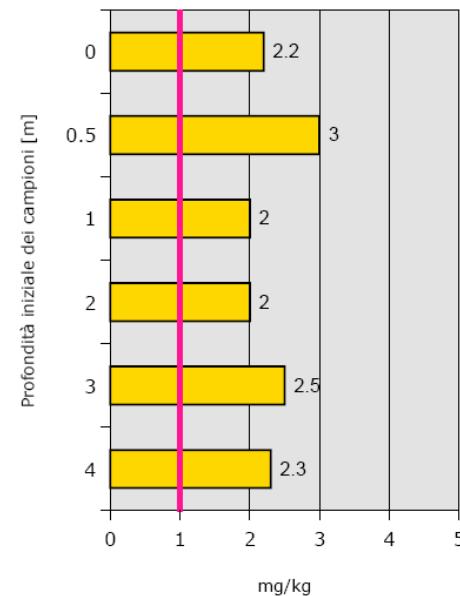
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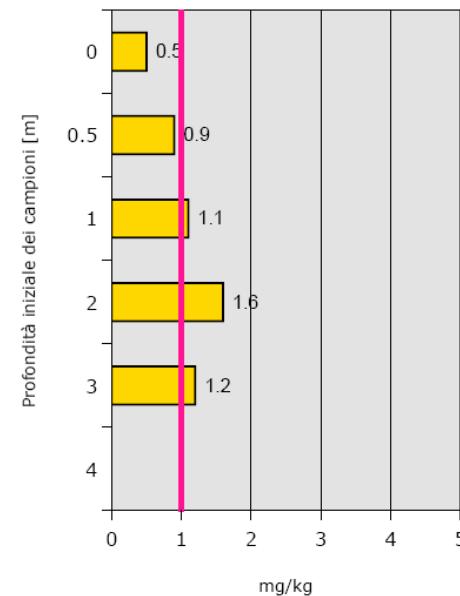
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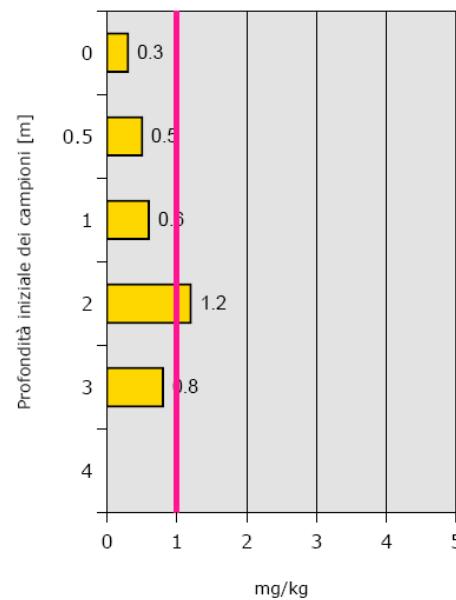


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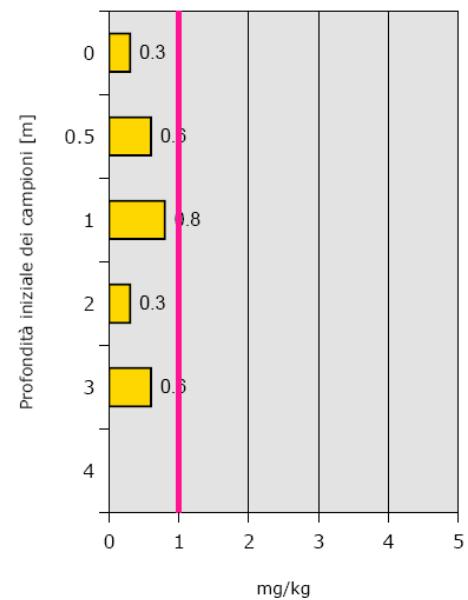


Concentrazioni di stagno riscontrate per i diversi sondaggi a differenti profondità (lim A 1 mg/kg, B 350 mg/kg)

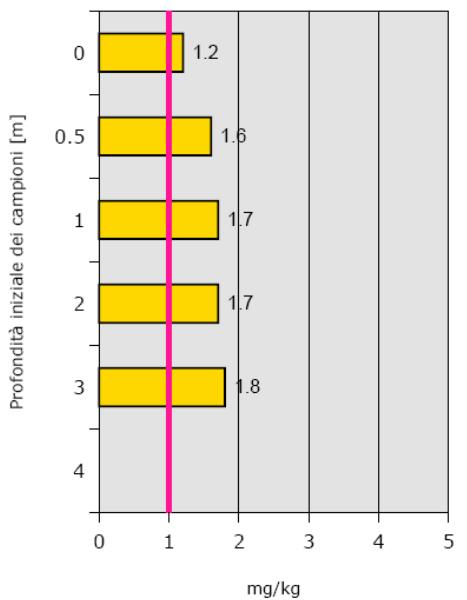
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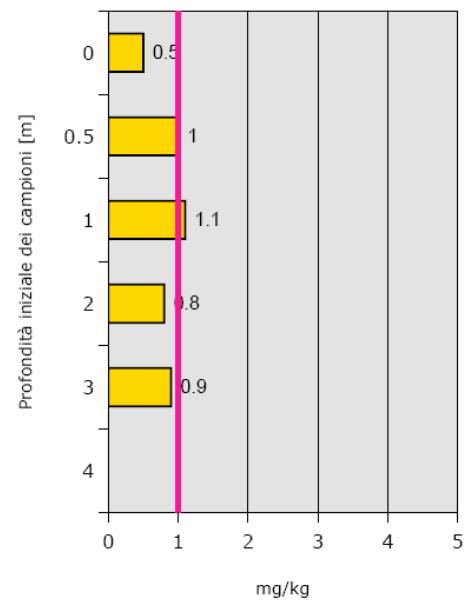
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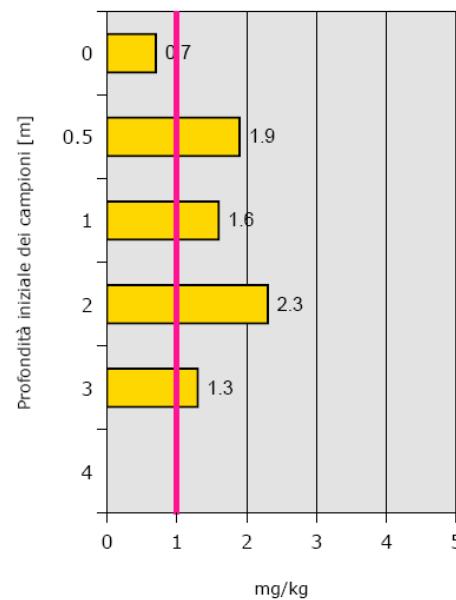
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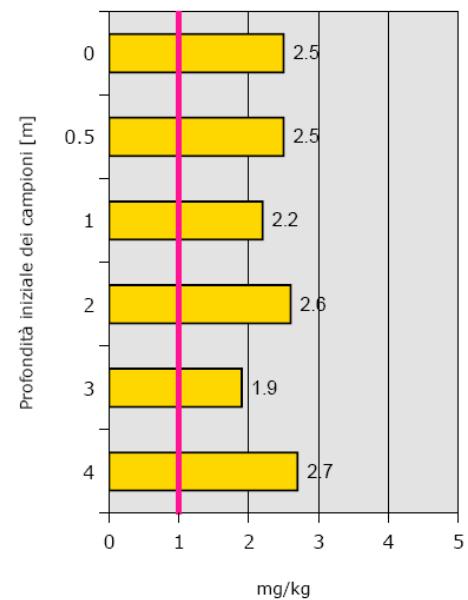
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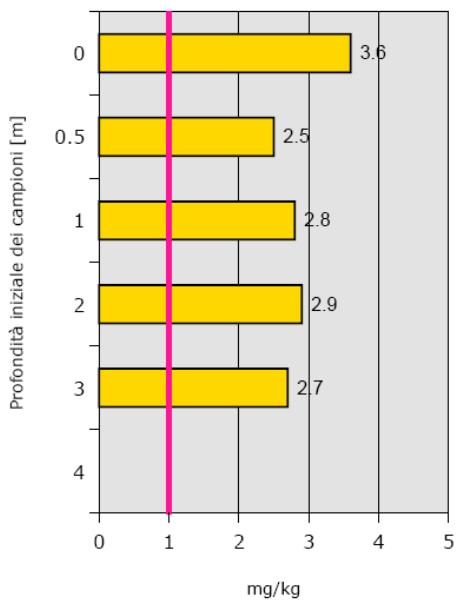
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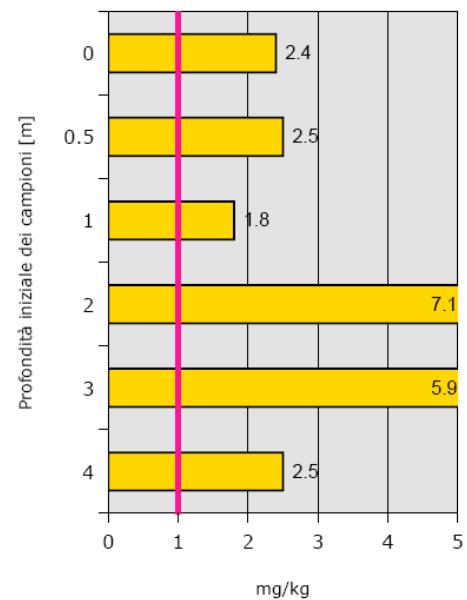
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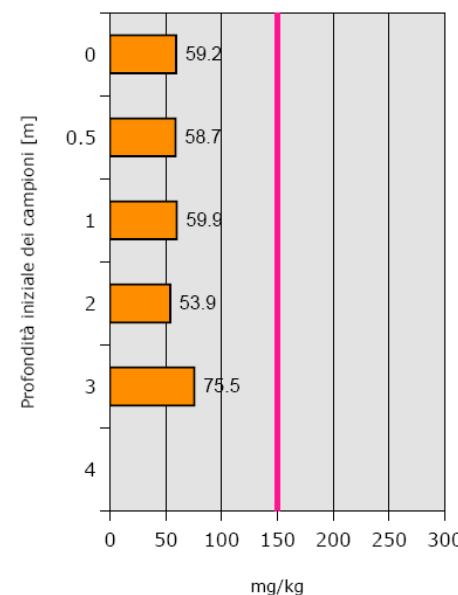


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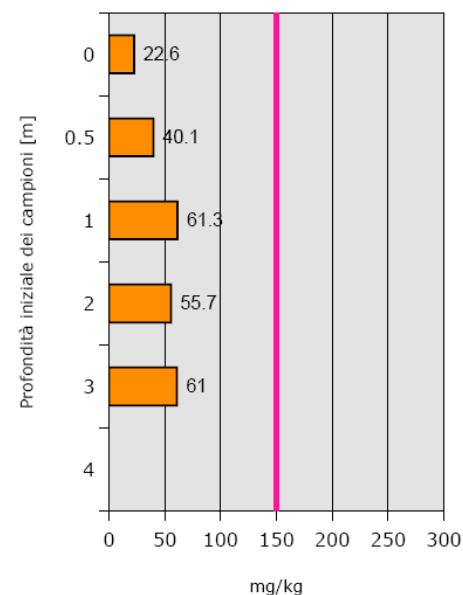


Concentrazioni di zinco riscontrate per i diversi sondaggi a differenti profondità (lim A 150mg/kg, B 1500mg/kg)

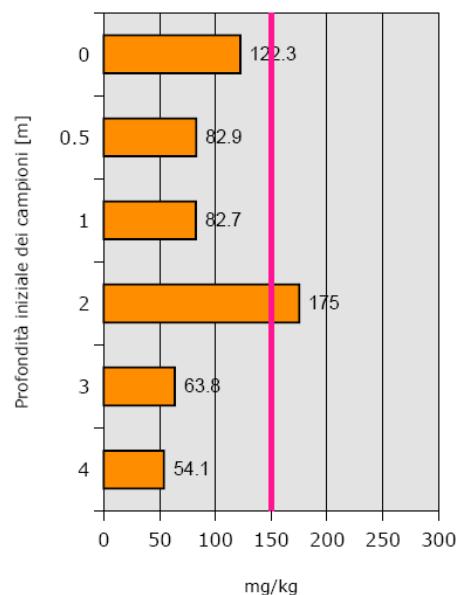
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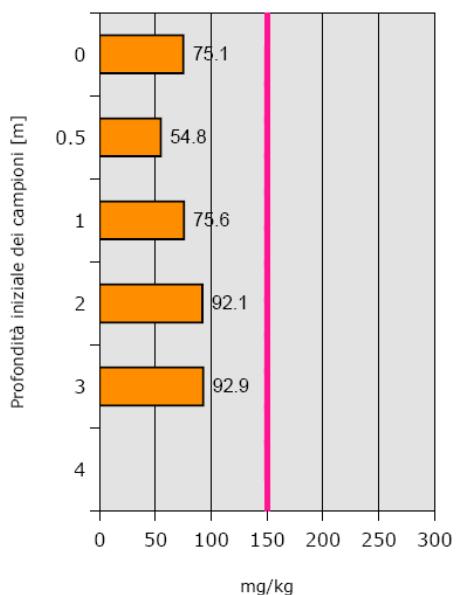
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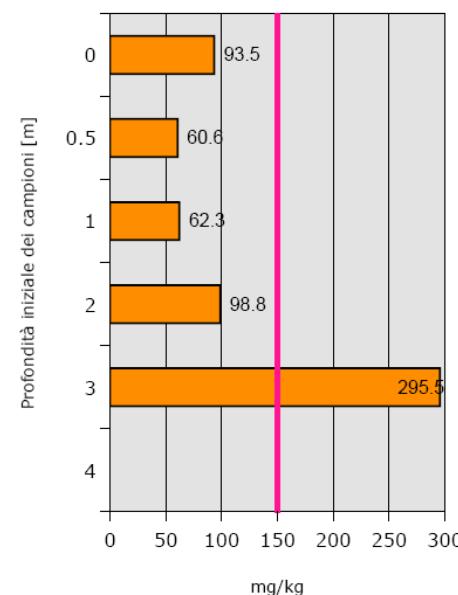
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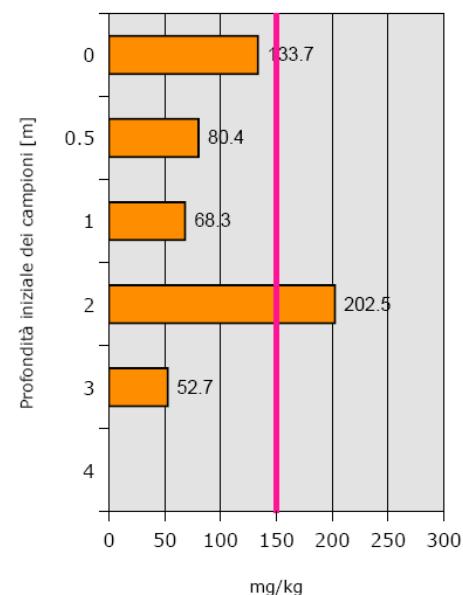
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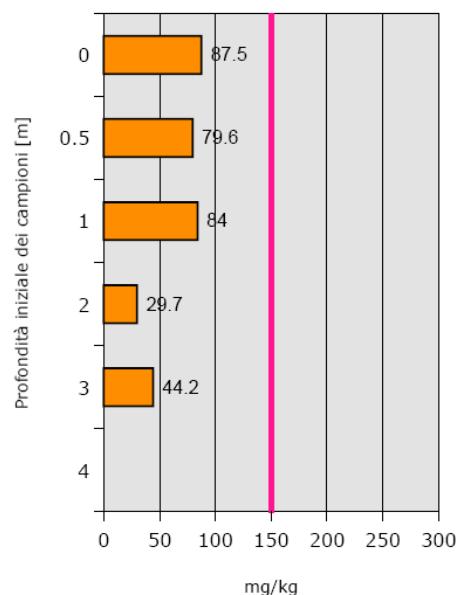
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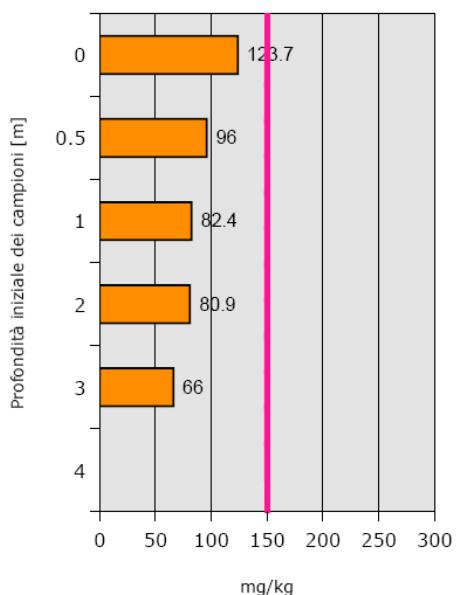
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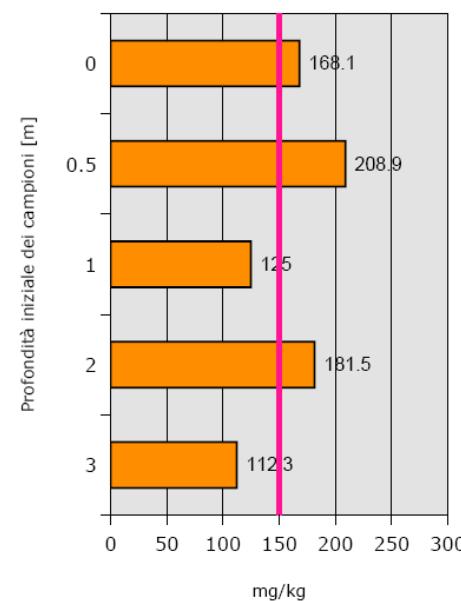


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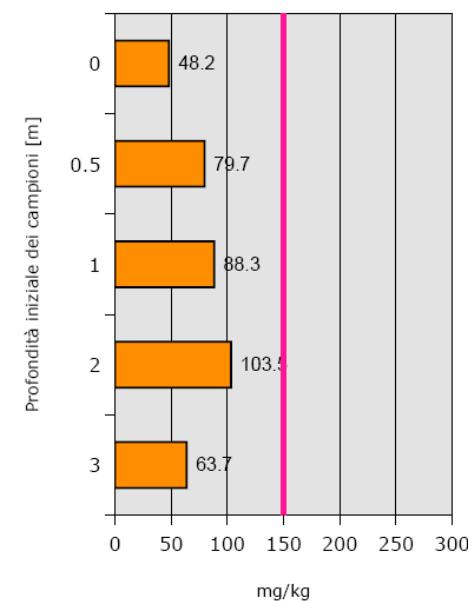


Concentrazioni di zinco riscontrate per i diversi sondaggi a differenti profondità (lim A 150mg/kg, B 1500mg/kg)

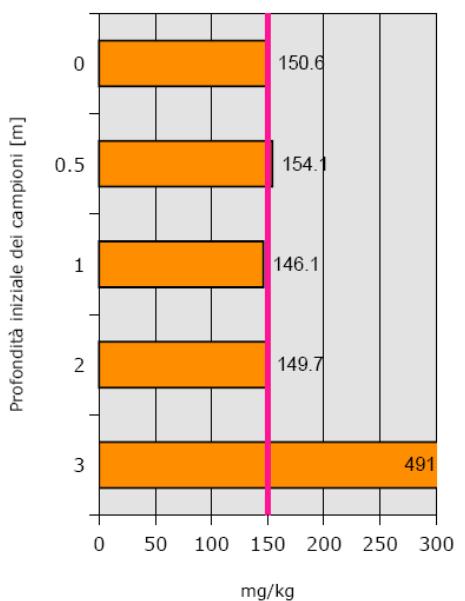
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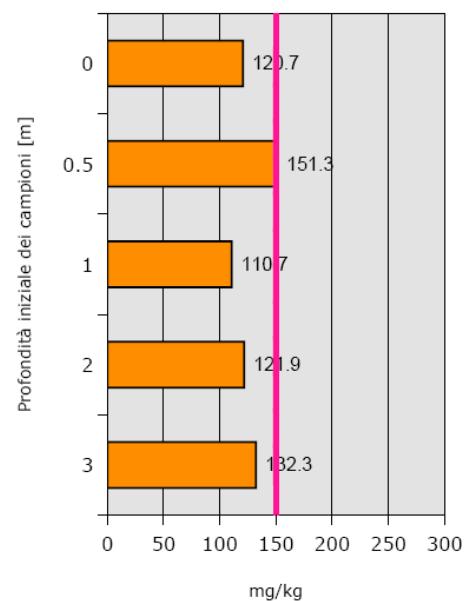
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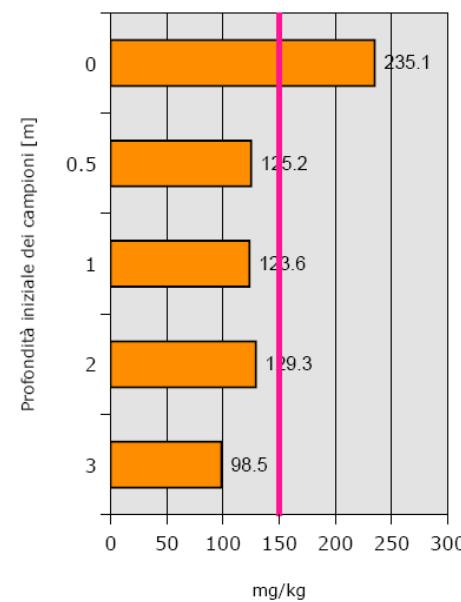
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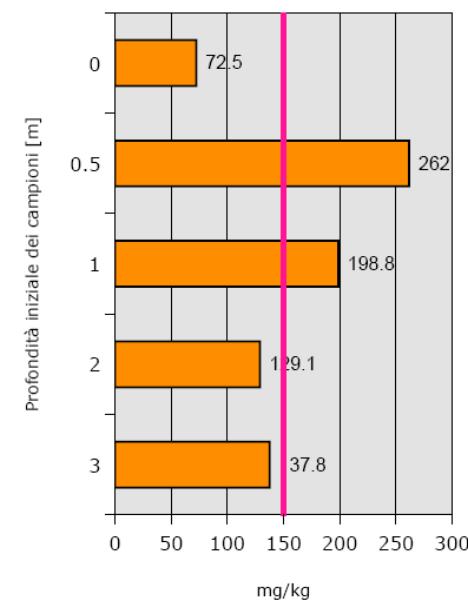
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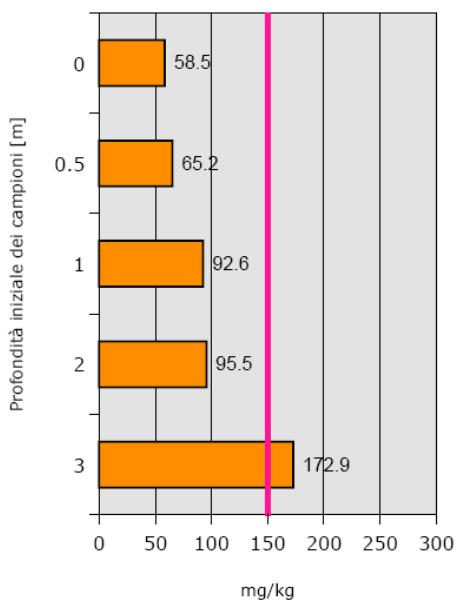
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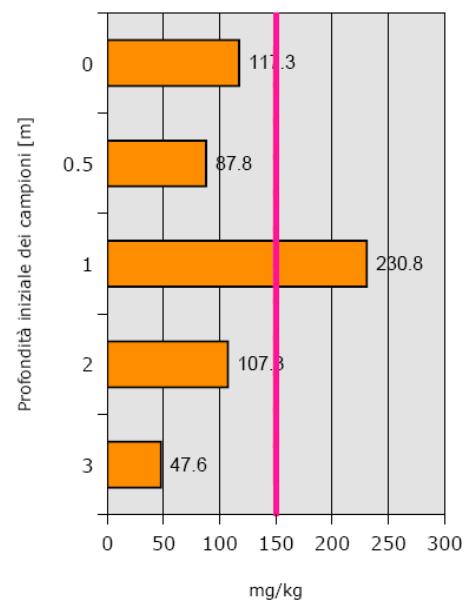
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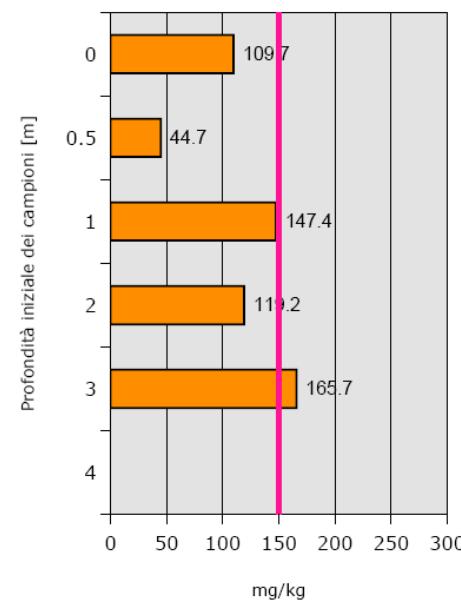


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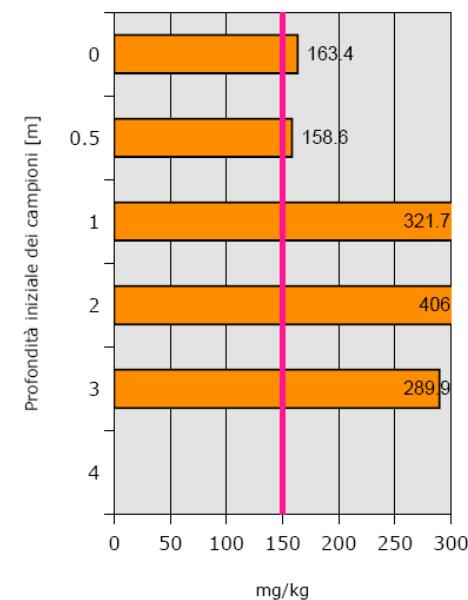


Concentrazioni di zinco riscontrate per i diversi sondaggi a differenti profondità (lim A 150mg/kg, B 1500mg/kg)

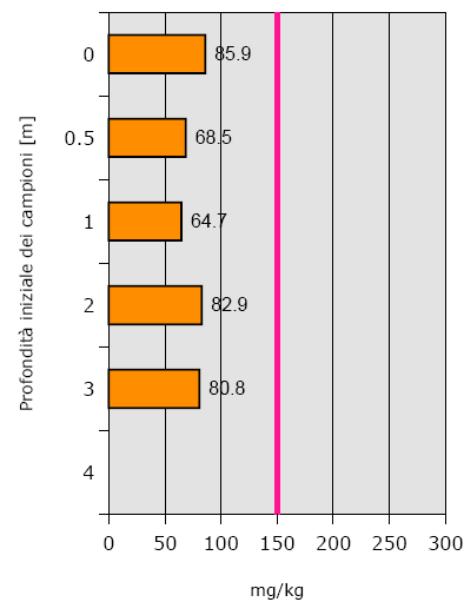
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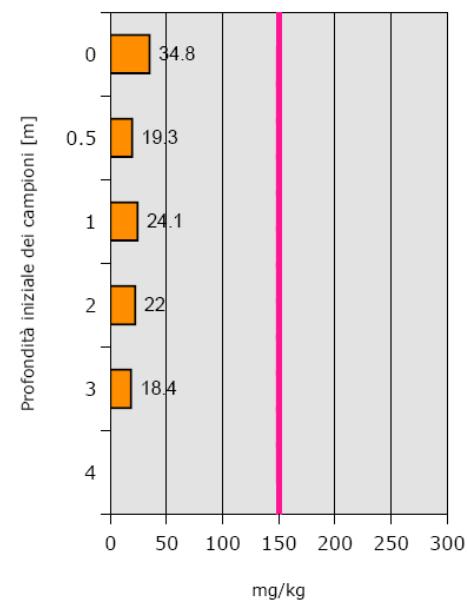
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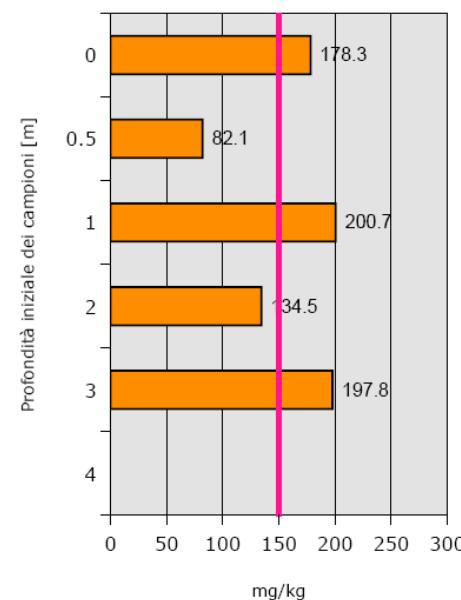
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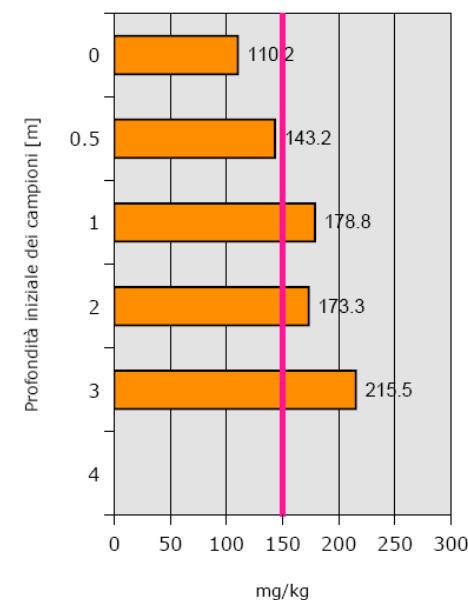
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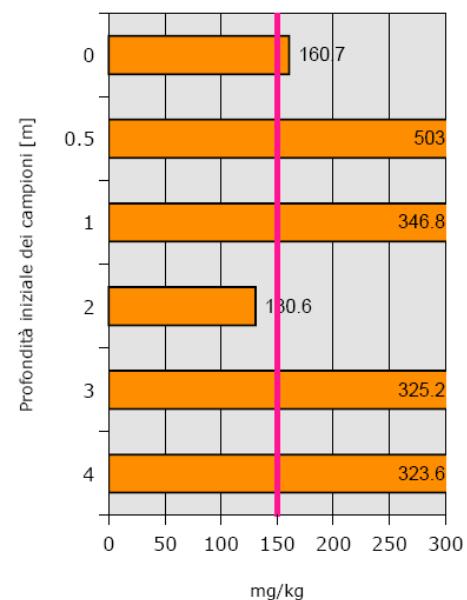
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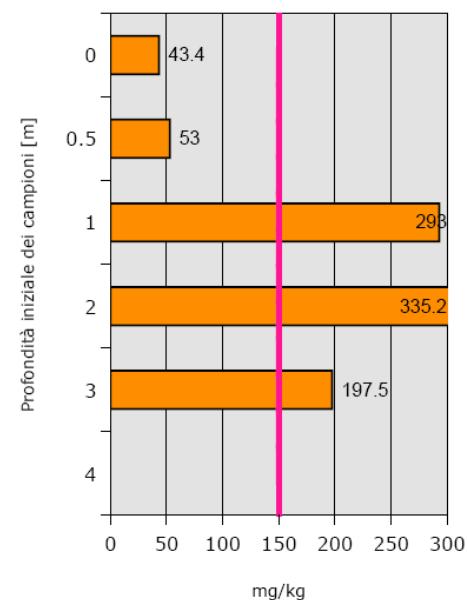
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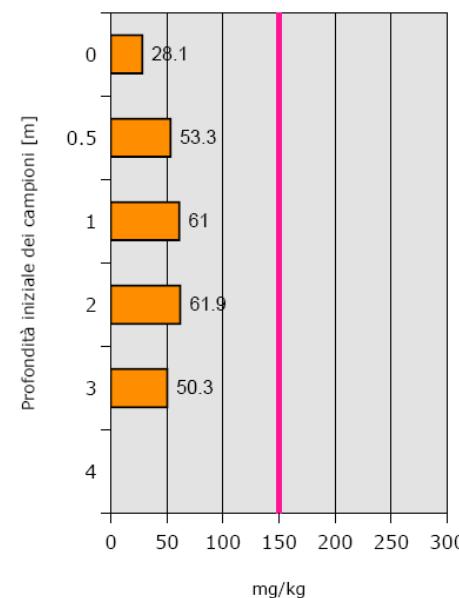


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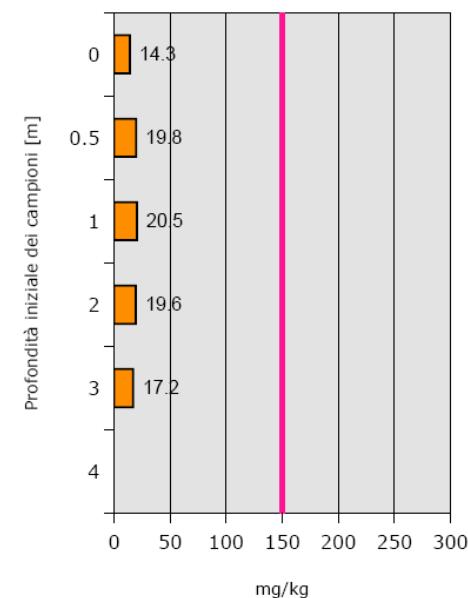


Concentrazioni di zinco riscontrate per i diversi sondaggi a differenti profondità (lim A 150mg/kg, B 1500mg/kg)

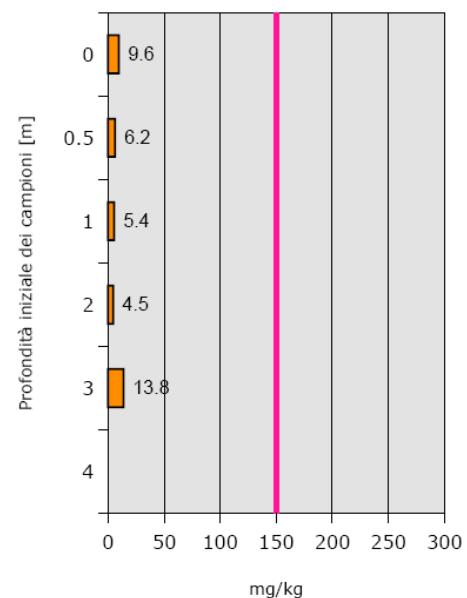
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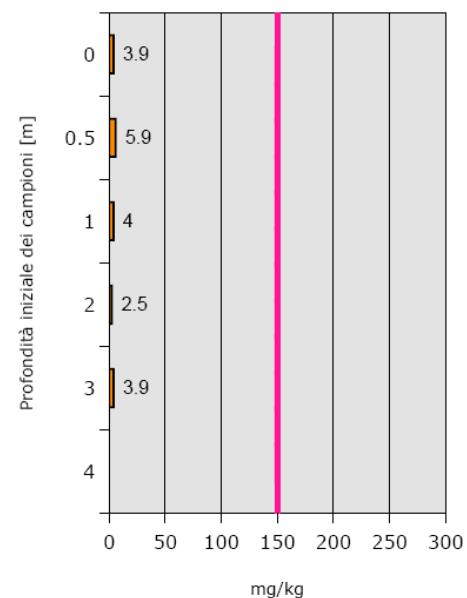
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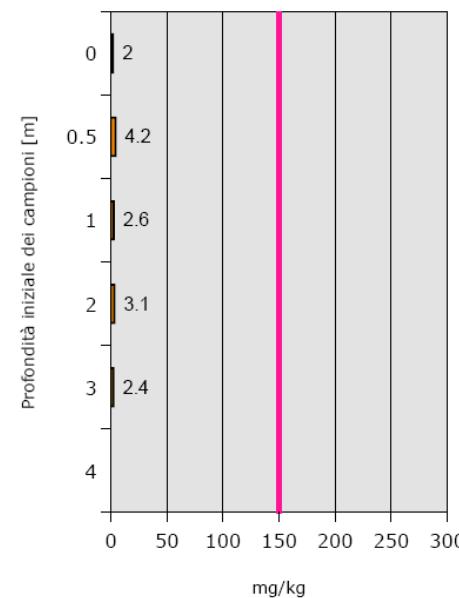
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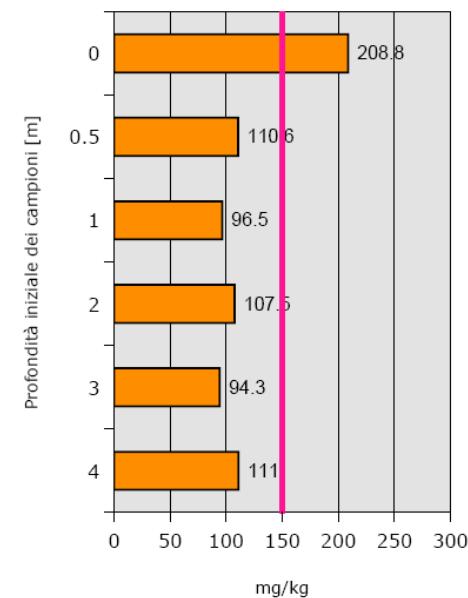
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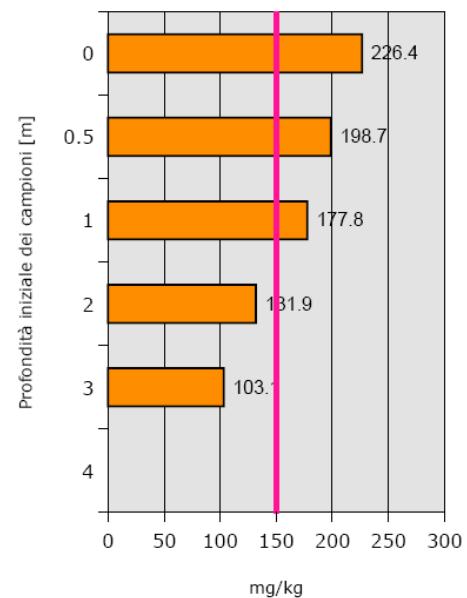
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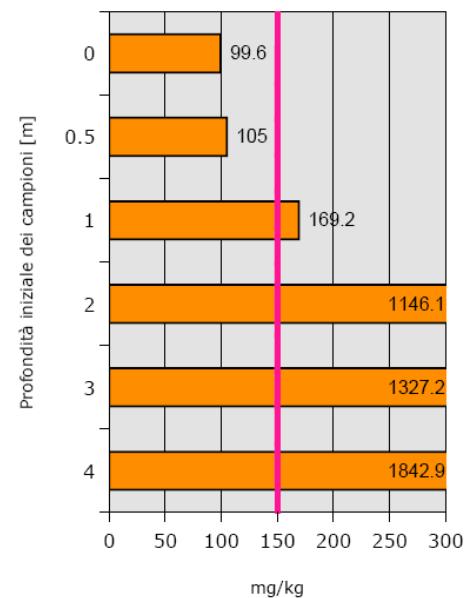
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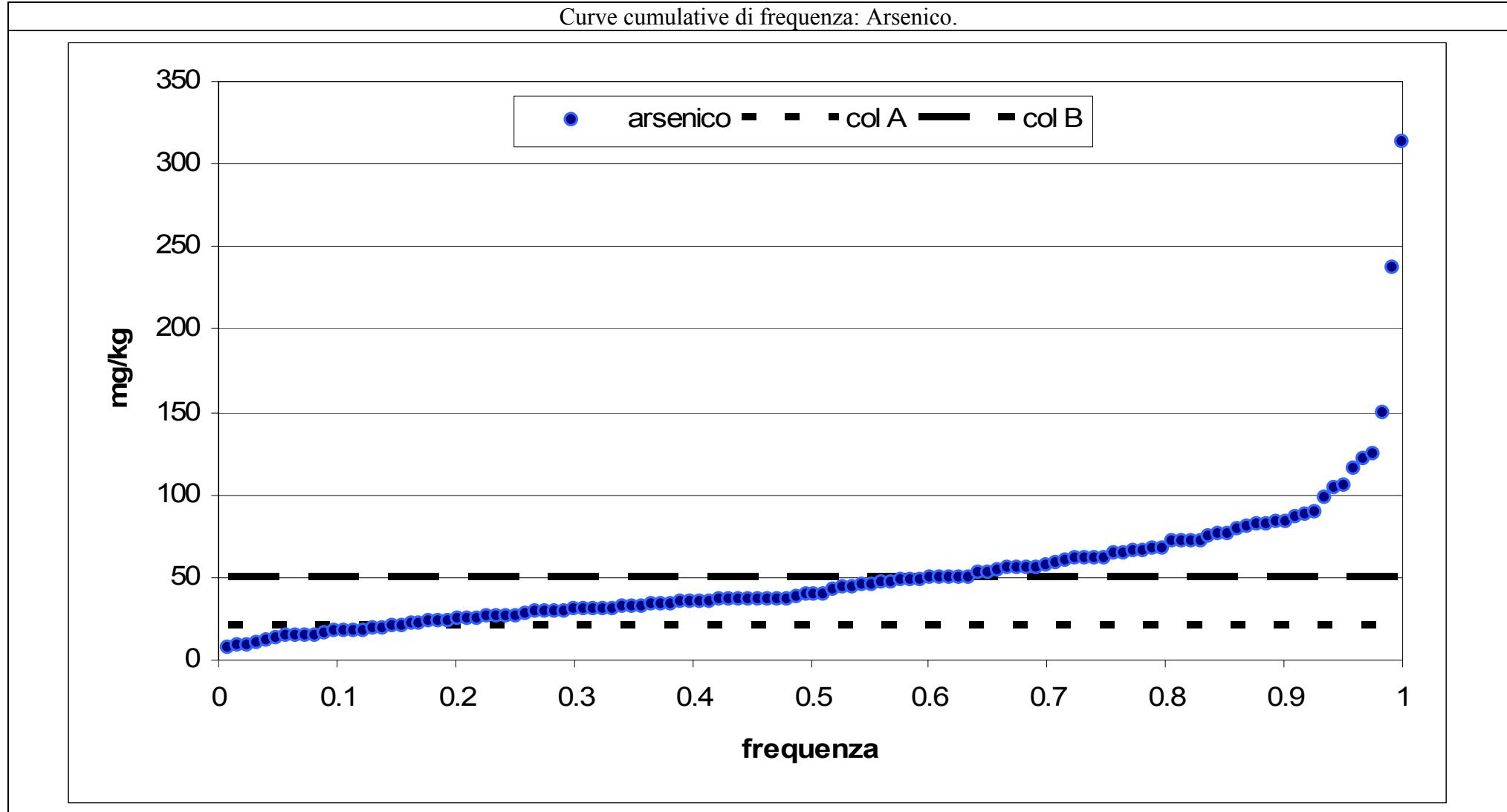
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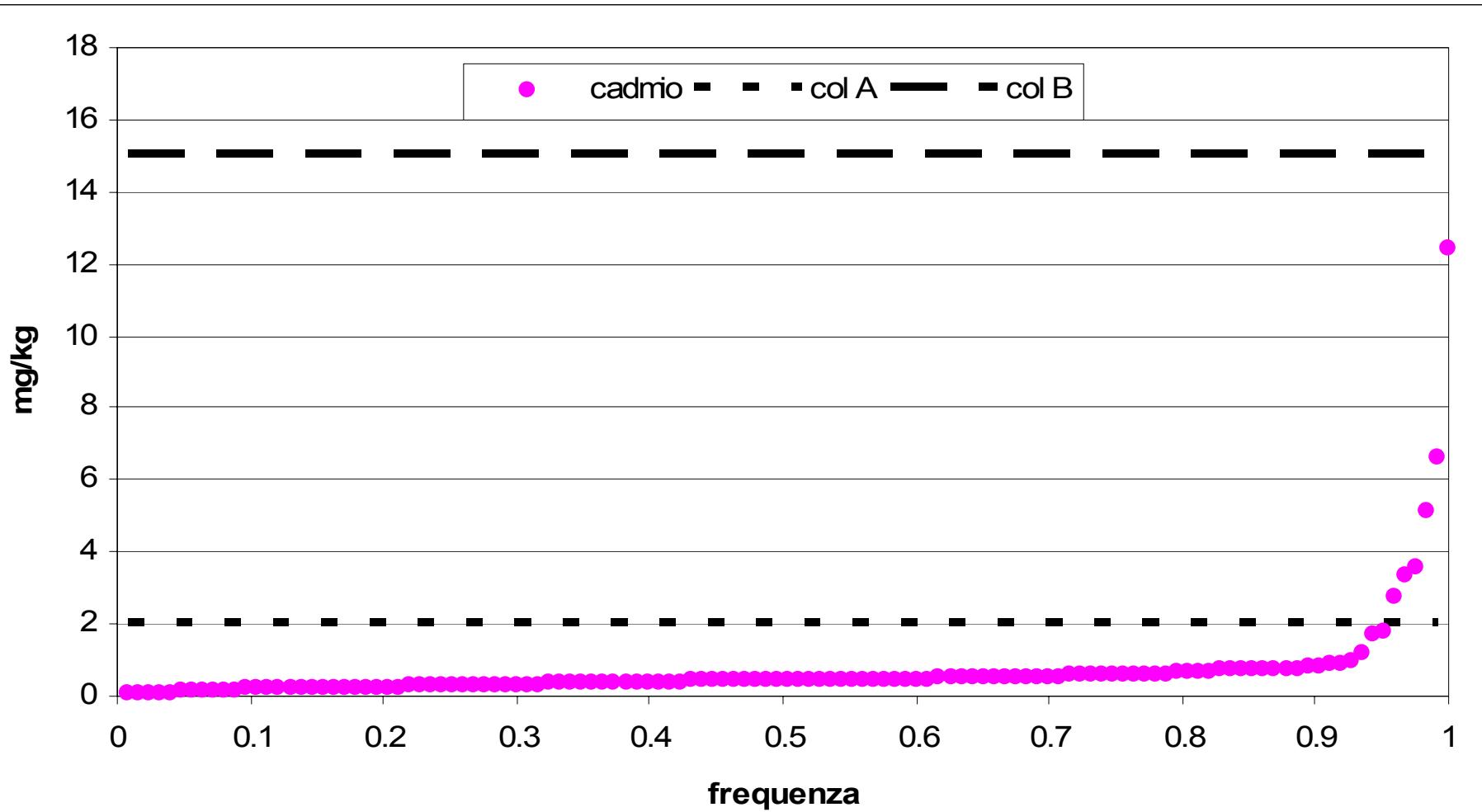
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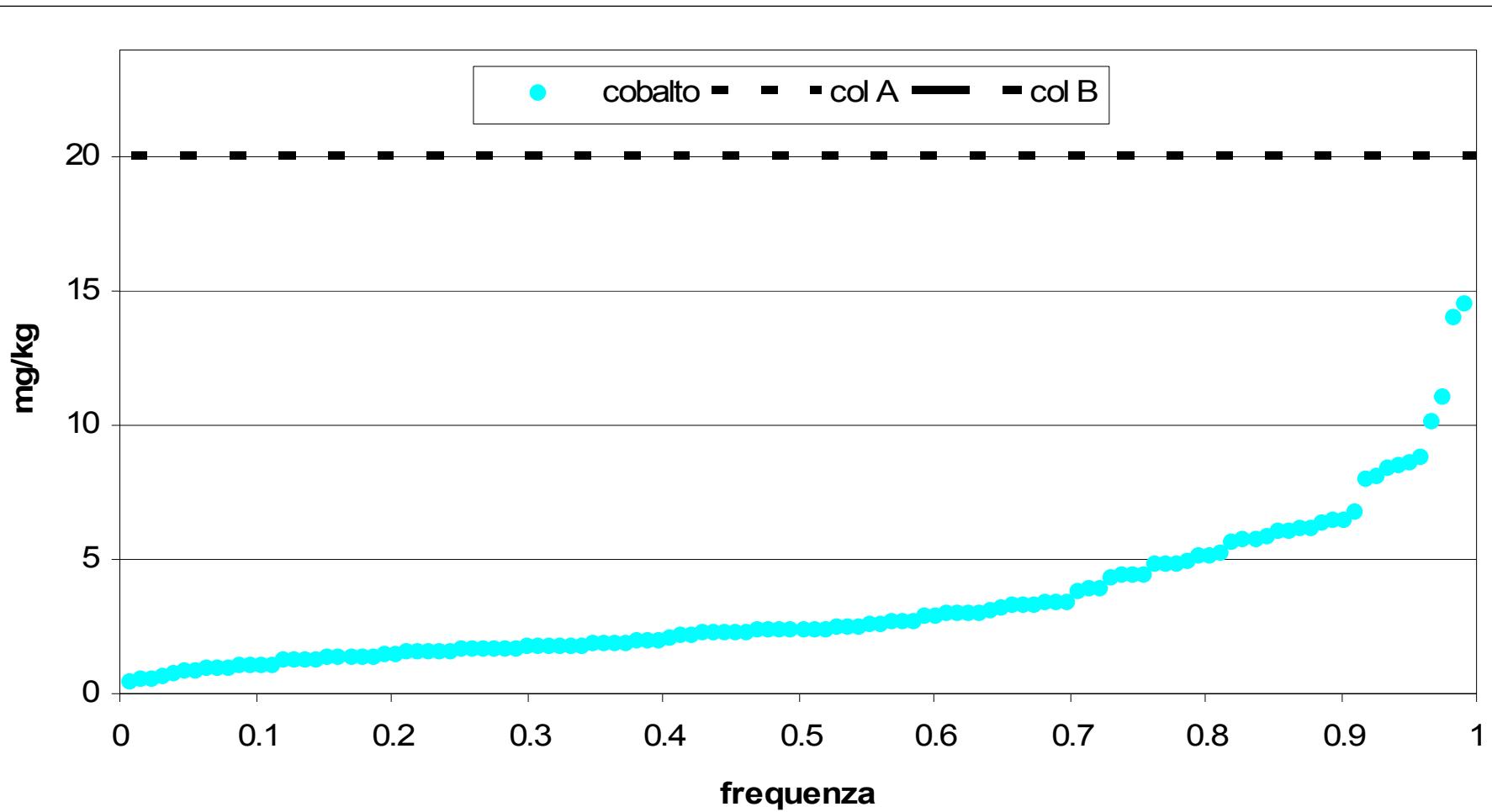
Curve cumulative di frequenza: Arsenico.



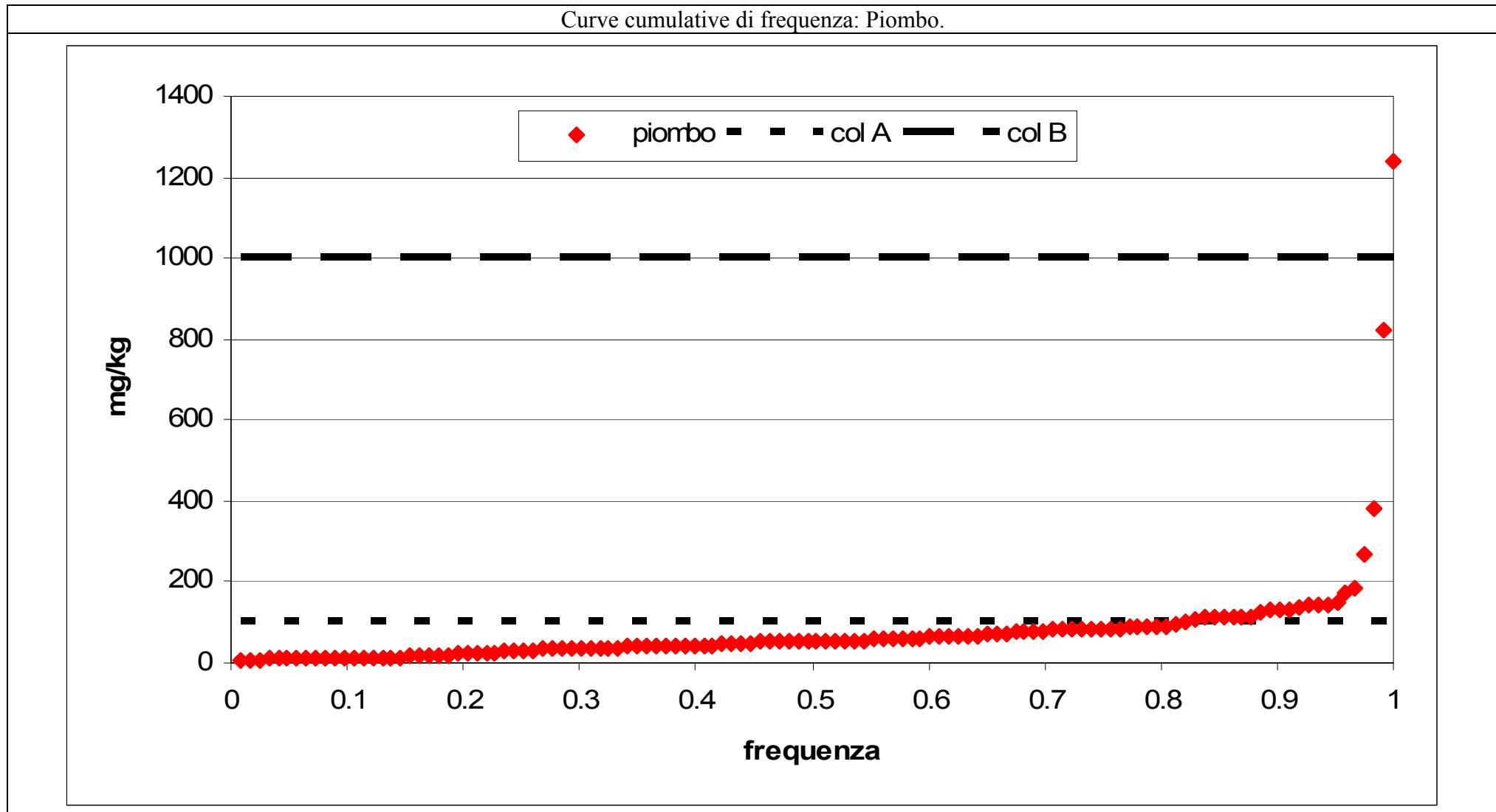
Curve cumulative di frequenza: Cadmio.



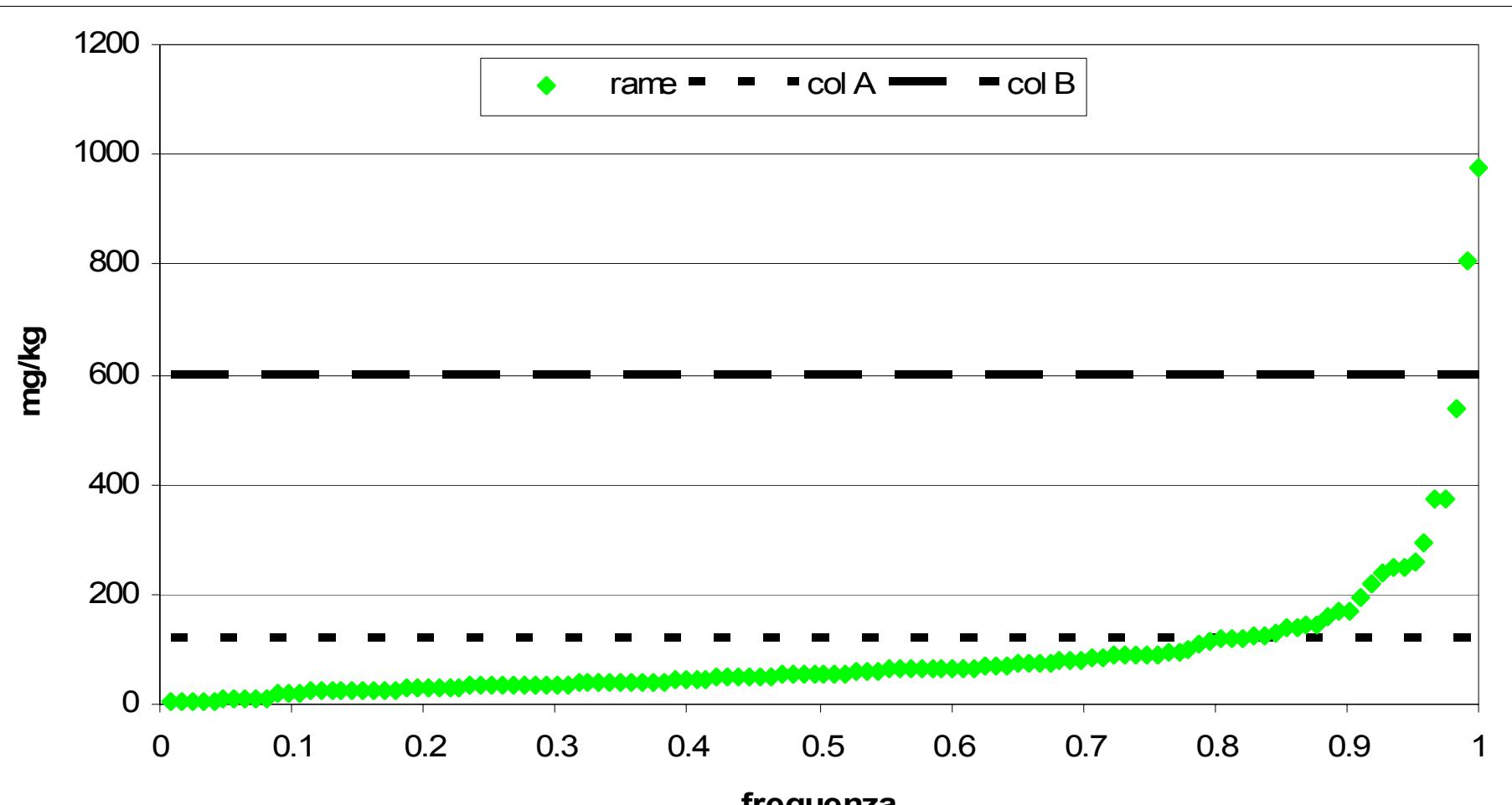
Curve cumulative di frequenza: Cobalto.



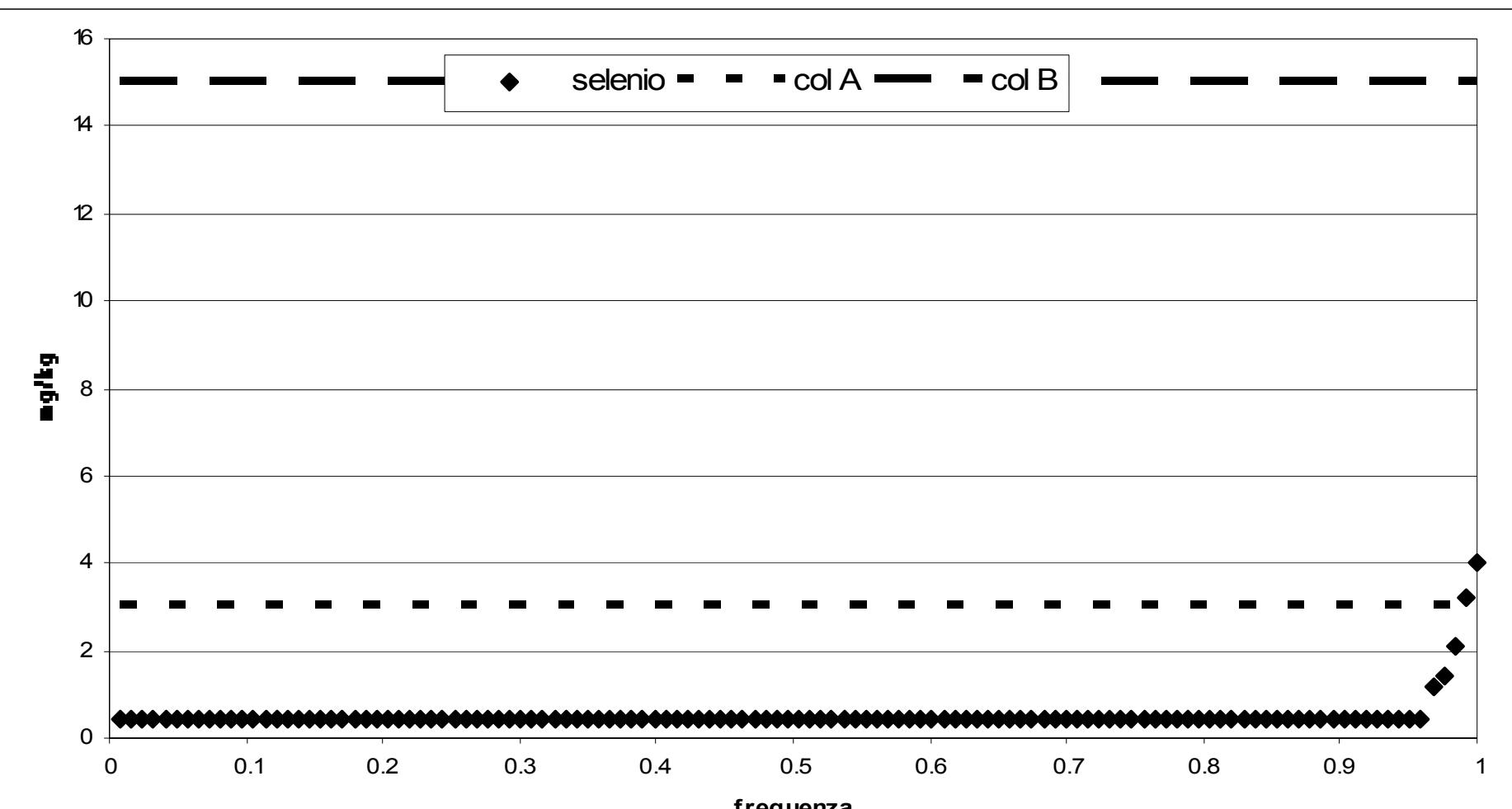
Curve cumulative di frequenza: Piombo.



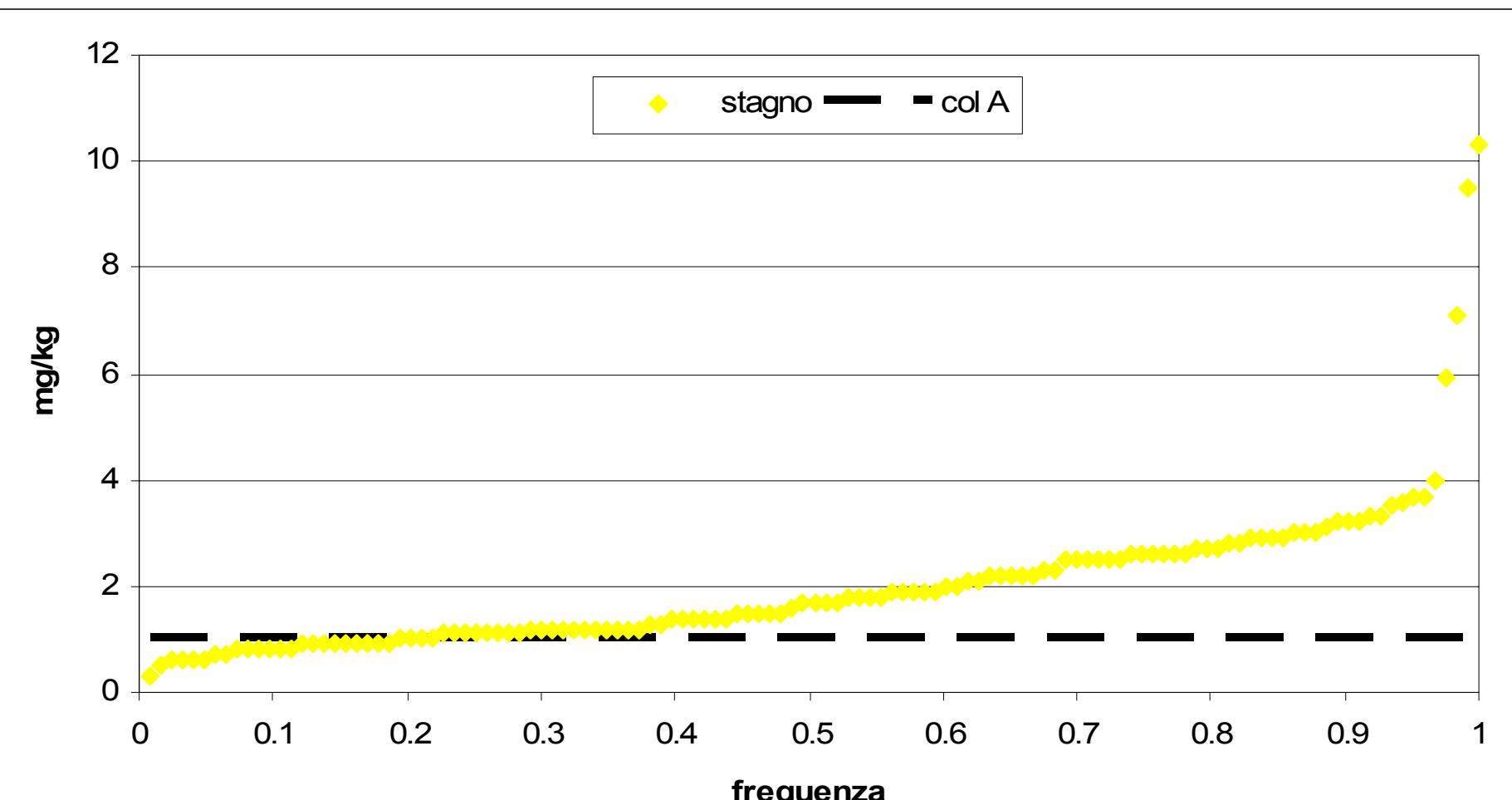
Curve cumulative di frequenza: Rame.



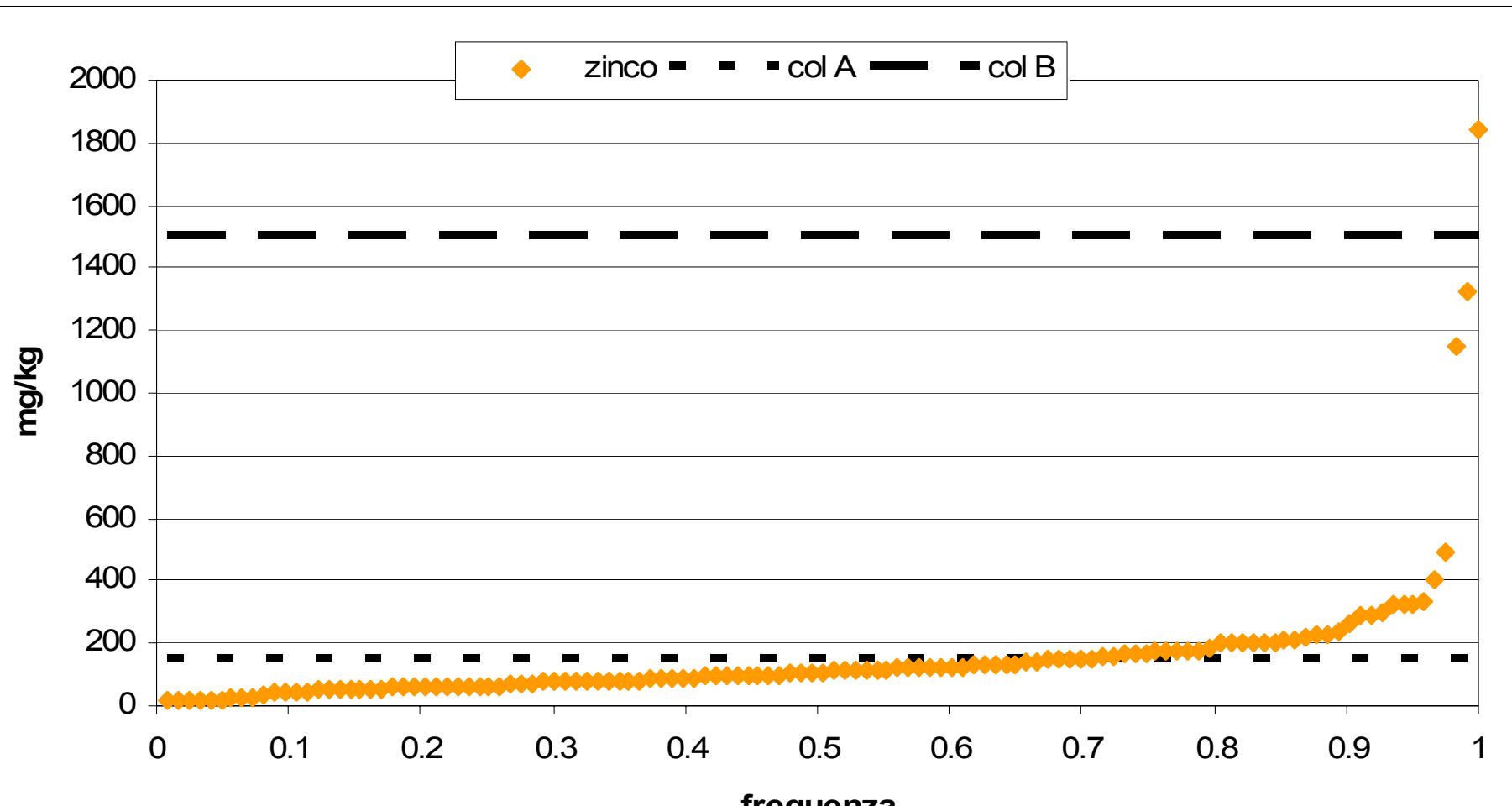
Curve cumulative di frequenza: Selenio.



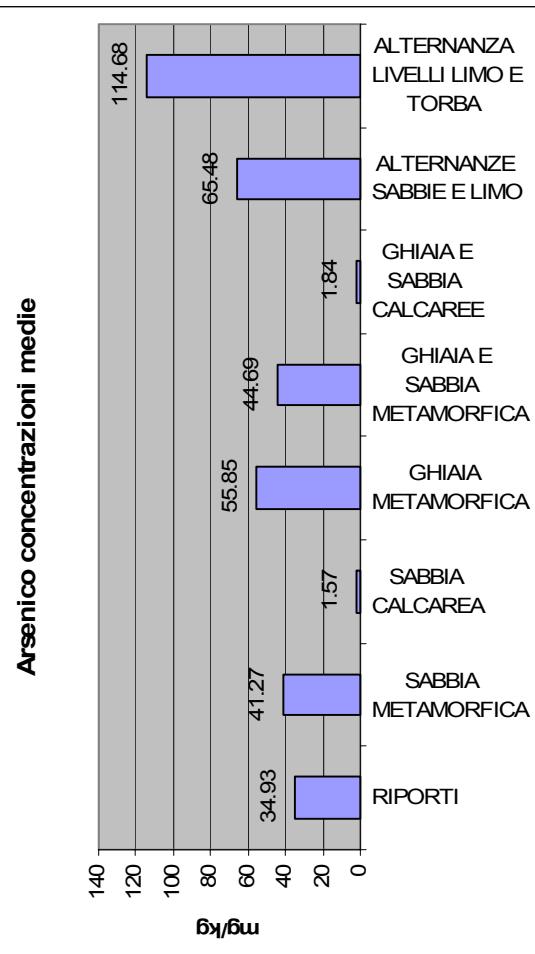
Curve cumulative di frequenza: Stagno.



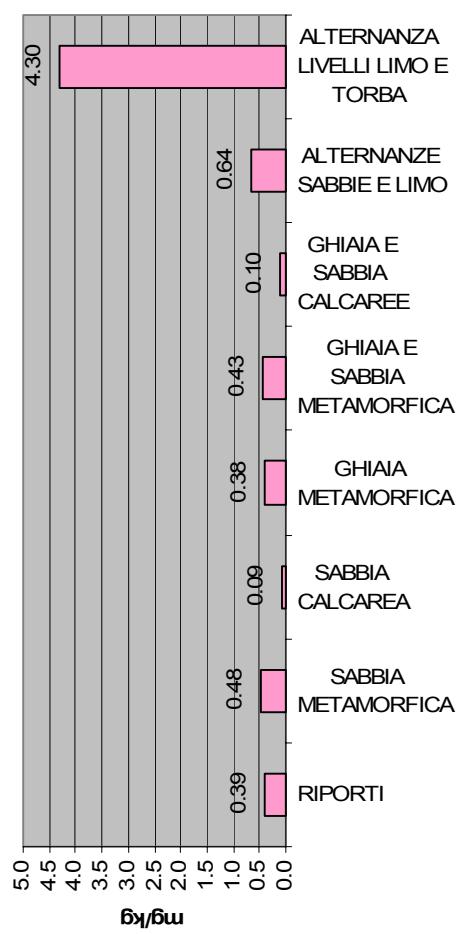
Curve cumulative di frequenza: Zinco.



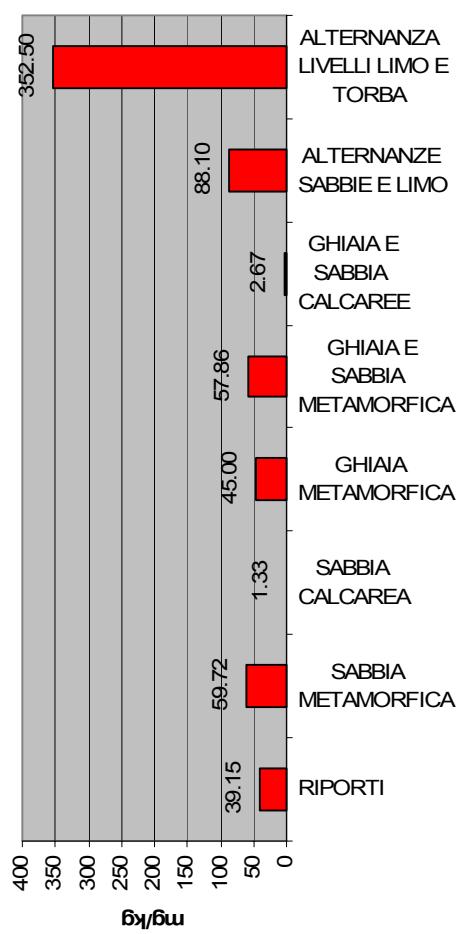
Concentrazioni medie in funzione del substrato d'origine del campione.



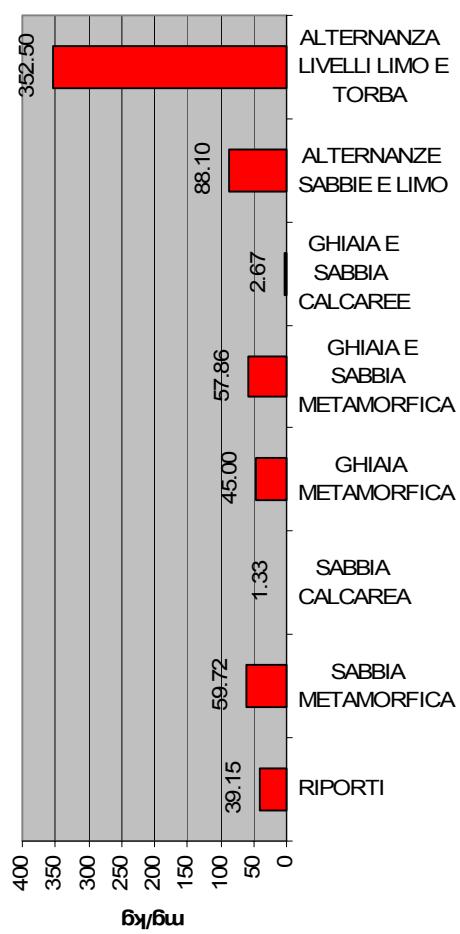
Cadmio concentrazioni medie



Cobalto concentrazioni medie



Piombo concentrazioni medie



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

