

0,56% 0,68% - , - 9,5 %.

3,92% 6,42% - (15,83%). -

(8,84 %) , 14,84 %

6,42 % 3,29% -

- 1,95 %,

- 1,79 %.

2.

, %					
	1	2	3	4	
	1,16	0,61	0,65	6,42	8,84
	0,32	0,28	0,28	1,80	2,68
	2,18	1,51	1,65	9,50	14,84
	0,62	0,66	0,48	1,53	3,29
	0,47	1,67	2,16	10,82	15,13
	0,97	0,41	0,68	3,92	5,98
	0,31	0,21	0,26	1,87	2,65
	1,73	1,30	3,42	9,38	15,83
	0,41	0,42	0,31	0,64	1,79
	0,34	1,36	2,00	9,20	12,91
	1,08	0,41	0,56	4,37	6,42
	0,36	0,21	0,27	1,66	2,51
	2,13	1,15	3,81	7,37	14,46
	0,49	0,39	0,26	0,80	1,95
	0,36	1,25	2,32	8,59	12,52
HC ₀₅	1,08	0,41	0,56	4,37	6,42

15,13

12,91 12,52 %

0,36%

0,31% -

0,28%

0,28%

1,66%

1,87%

1.

2.

682-692.

3.

139

4. Zeien H., Brümmer G.W. Chemische Extraktion zur Bestimmung von Schwermetallbindungsformen in Böden. (In German.) Mitteilgn. Dtsch. Bodenkundl. Gesellsch. 1989;59:505-510.

FRACTIONAL COMPOSITION OF MOBILE HEAVY METALS IN SODDY-PODZOLIC SOIL UNDER FORAGE CROPS

S.V. Budkina, Russian State Agricultural University – Moscow Agricultural Academy, Russian Academy of Sciences
ul. Timiryazeva 49, Moscow, 127550 Russia, sv_budkina@mail.ru

The distribution of mobile lead, copper, zinc, chromium, and nickel among the fractions of soddy-podzolic soil under forage crops was studied, and the predominance of their fraction bound to organic matter was revealed for all studied elements. The fraction of heavy metals (HMs) bound to manganese oxides was the next, followed by the water-soluble fraction, the exchangeable fraction, and the fraction of specifically sorbed HMs and those bound to calcium carbonate.

Keywords: fractional composition, mobile forms of heavy metals, forage crops, availability to plants.