

1•2010 51

1. Ca/Sr					
[Ca] /100	[Ca] /	[Ca]/[Sr]			
		200 (=0,005)	300 (=0,0033)	400 (=0,0025)	500 (=0,002)
1	600	265	354	398	425
2	1200	531	708	796	850
3	1800	796	1062	1195	1274
4	2400	1062	1416	1593	1699
5	3000	1327	1770	1991	2124
6	3600	1593	2124	2389	2549
7	4200	1858	2478	2788	2973
8	4800	2124	2832	3186	3398
9	5400	2389	3186	3584	3823
10	6000	2655	3540	3982	4248
11	6600	2920	3894	4381	4673
12	7200	3186	4248	4779	5097
13	7800	3451	4602	5177	5522
14	8400	3717	4956	5575	5947
15	9000	3982	5310	5973	6372
16	9600	4248	5664	6372	6796
17	10200	4513	6018	6770	7221

$$0,75 \% \leq \frac{[Ca] \times (1 - \alpha \times 100)}{0,0075 \times 100 - 0,37}$$

(2).

2. (1:1) Ca/Sr					
[Ca] /100	[Ca] /	[Ca]/[Sr]			
		200	300	400	500
1	600	789	1053	1184	1263
2	1200	1579	2105	2368	2526
3	1800	2368	3158	3553	3789
4	2400	3158	4211	4737	5053
5	3000	3947	5263	5921	6316
6	3600	4737	6316	7105	7579
7	4200	5526	7368	8289	8842
8	4800	6316	8421	9474	10105
9	5400	7105	9474	10658	11368
10	6000	7895	10526	11842	12632
11	6600	8684	11579	13026	13895
12	7200	9474	12632	14211	15158
13	7800	10263	13684	15395	16421
14	8400	11053	14737	16579	17684
15	9000	11842	15789	17763	18947
16	9600	12632	16842	18947	20211
17	10200	13421	17895	20132	21474

3

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STRONTIUM CONTAMINATION DURING SOIL LIMING WITH CONVERSION CHALK

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Summary. Conversion chalk (CC) is a waste of complex fertilizer production containing minor technological impurities of nitrogen and phosphorus compounds and 1-2% of stable strontium. In agronomical terms, CC is a cheap and very effective agent for liming the acid soils, competitive with the standard carbonate powder; however, the strontium admixture caused a discussion on the ecological regulation and application rates. On the basis of the analysis of data on strontium toxicology and the available normative documents, a method was proposed for calculating the CC application rates ensuring a favorable Ca/Sr ratio.

Key words: soil liming, conversion chalk, strontium contamination.

Ca/Sr ()

Ca/Sr

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