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	$f(\text{pH})$	$P = f(\text{pH})$	$K = f(\text{pH})$	$P = f(\text{pH})$	$K = f(\text{pH})$
NPK	0,49	0,45	0,05	0,31	-0,25
NPK	0,34	0,70	0,77	0,14	0,07
NPK	-0,07	0,34	0,39	0,58	0,46
NPK	0,83	0,84	0,74	0,76	0,74
1- NPK	0,81	0,78	0,07	0,33	-0,20
NPK	0,67	0,83	0,71	0,61	0,52
2- NPK	0,44	0,42	-0,10	0,55	-0,50
NPK	0,7	0,70	0,67	0,76	0,43
NPK	0,8	0,62	0,70	0,60	0,55
NPK	0,52	0,44	0,16	0,38	-0,30
NPK	0,39	0,47	0,04	0,58	-0,18
NPK	0,65	0,68	0,60	0,78	0,55
NPK	$0,43 \pm 0,13$	$0,49 \pm 0,08$	$0,13 \pm 0,07$	$0,48 \pm 0,06$	$0,32 \pm 0,07$
+ NPK	$0,64 \pm 0,08$	$0,75 \pm 0,03$	$0,7 \pm 0,03$	$0,61 \pm 0,12$	$0,47 \pm 0,11$

[1,2,3,4].

[1, 6].

[1, 5],

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[5, 6].

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	$f(\text{pH})$	$f(\text{pH})$	$f(\text{pH})$	$f(\text{pH})$	$f(\text{pH})$	r
NPK	0,74	0,46	0,63	0,37	0,15	2,0
NPK	0,87	0,80	0,71	0,83	0,20	3,4
NPK	-0,19	-0,37	0,60	0,43	0,81	2,4
NPK	0,77	0,88	0,72	0,51	0,72	3,6
1- NPK	0,44	0,19	0,73	0,81	0,15	2,3
NPK	0,78	0,77	0,90	0,82	0,48	3,7
2- NPK	0,36	0,18	0,71	0,76	-0,11	2,1
NPK	0,76	0,62	0,67	0,80	0,39	3,2
NPK	0,88	0,90	0,65	0,72	0,83	3,9
NPK	0,76	0,64	0,66	0,43	0,38	2,9
NPK	0,30	0,23	0,38	0,18	-0,10	1,2
NPK	0,75	0,70	0,57	0,46	0,54	3,0
NPK*						$2,0 \pm 0,2$
+NPK						$3,4 \pm 0,1$

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= 0,95.

1. ... , 1998.- 47 .
2. ... , 2001, 9.- 5-12.
3. ... , 2002, 8.- 5-13.
4. ... « , 2005.- 476 .
5. ... II. « , 2005.- 336 .
6. ... , 2010.- 347 .
7. ... , 1988.- 33-40.
8. ... I «

STRUCTURAL RELATIONSHIPS BETWEEN SOIL PROPERTIES AS A FACTOR OF SOIL FERTILITY

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Mutual relationships between the properties of loamy soddy-podzolic soils with different degrees of cultivation and the yields of crops in the chain of a seven-course crop rotation were studied. It was found that integral parameters of correlation between soil properties (the algebraic sum of the coefficients of correlation) provided significant information. It was shown that high correlation coefficients between soil properties and crop yield were observed only for a wide range of soil properties. The application of fertilizers affected the correlation parameters.

Keywords: soil, fertility, mathematical relationships.