

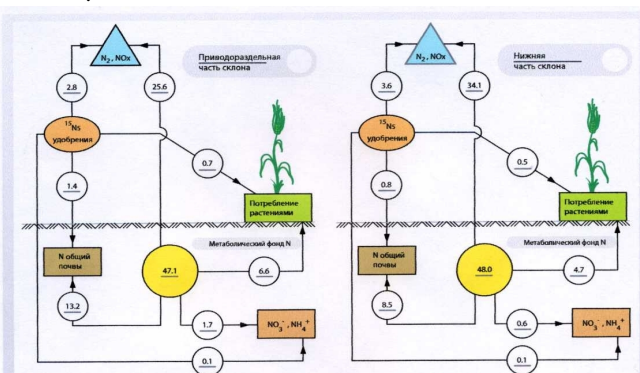
^{15}N

50-60

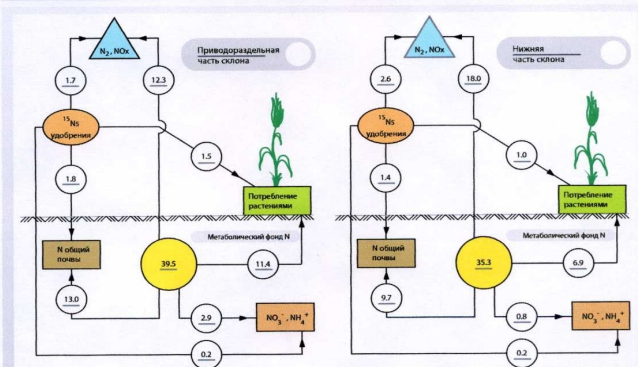
[1-4]

1,4

[5].

 ^{15}N 

Потоки азота почвы и азота удобрения в агроэкосистемах на различных элементах склона при разбросном применении азотных удобрений, г/м²



Потоки азота почвы и азота удобрения в агроэкосистемах на различных элементах склона при локальном внесении азотных удобрений, г/м²

« » – (. 1).
50 /

(1,5-2,0)

« » – (45-50%

23-27%

[5].

 ^{15}N

(.).

6-7

1.	2.	3.	4.	5.	6.	7.
1.	2.	3.	4.	5.	6.	7.
50	50	()	-	-	-	-
+ $^{15}\text{N}_{50}$	-	1	7,36	0,73	6,63	1,94
		2	6,82	0,60	6,22	1,60
		3	5,24	0,50	4,74	1,41
+ $^{15}\text{N}_{50}$	-	1	12,32	1,50	10,82	6,13
		2	11,46	1,21	10,25	5,63
		3	7,91	1,00	6,91	3,58
+ $^{15}\text{N}_{50}$	-	1	9,85	1,16	8,69	4,00
		2	9,55	1,01	8,54	3,92
(2 /)		3	6,68	0,89	5,79	2,46

[3].

2.						
		-	-	%	-	-
50 50 ()-	1	240	-	7,8	396	-
	2	230	-	7,0	312	-
	3	225	-	6,1	256	-
+ N ₅₀	1	330	90	8,7	552	156
	2	310	80	8,0	435	123
	3	305	80	7,1	366	110
+ N ₅₀	1	457	217	10,3	731	335
	2	407	177	11,7	570	258
	3	386	161	8,5	540	284
+ N ₅₀	1	413	173	8,7	605	209
	2	366	136	10,9	512	200
	3	349	124	7,6	454	198
(2 /)	2				1	
0,5	22				12	
	10				6	
	12				7	

1. , 1997, 240 . 2. 3. 4. 5. 6. Fried M., Dean L. A concerning the measurement of available soil nutrients. Soil Sci., 1952, v. 73, 4, . 263-271. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20.

Control of nitrogen flows on different slope elements

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Summary. The balance of nitrogen was studied at the growing of cereal crops on soddy-podzolic soil on a slope of south-eastern exposition using ¹⁵N-labelled nitrogen fertilizers. The local application of nitrogen fertilizers increased the nitrogen consumption by plants and reduced its loss on all slope elements.

Key words: stable ¹⁵N isotope, slope elements, fertilizer nitrogen balance.