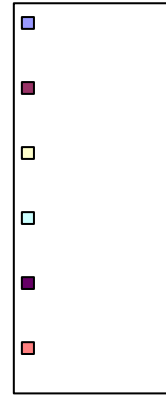
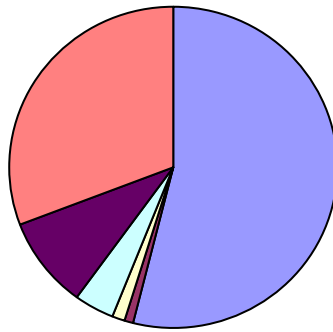


631.4

“
4, 61024,
70 %
- 43
- 70 % (. . 1).
60
- 32,5
80 %,
”



. 1.

27–28 (65 %)

1986–1990 [1, 2].

[3]. 1991 .

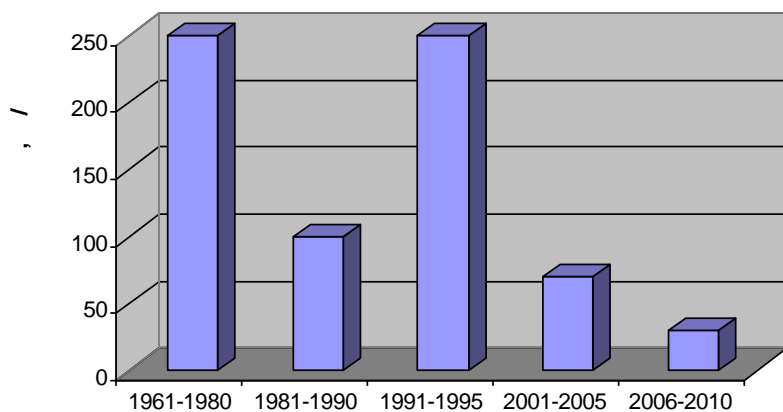
30–70 /) (70–80 30 / NPK) (. . 2),

5–6 10 . 10–20 40–50 %

() ,

100- ()

[5].



. 2.

[4].

15–20 30 %.

[6],

13–20 %,

(65 120

).

[4]

	(2)	(2)	(NPK)
1986–1990			
91,0	52,5	79,5	223,0
95,0	31,9	92,0	218,9
- 4,0	20,6	- 12,5	4,1
1996–2000			
26,0	10,4	15,3	51,7
56,5	18,2	53,7	128,4
- 30,5	- 7,8	- 38,4	- 76,7
2001–2005			
36,5	9,0	18,7	64,2
69,3	49,2	43,0	131,5
- 32,8	- 10,2	- 24,3	- 67,3
2006–2010			
50,4	11,1	20,5	82,1
67,5	19,7	29,6	116,8
- 17,0	- 8,6	- 9,1	- 34,7

(120) -
70–80 100

[6].
12
0,09 %
40–45 0,05–0,04 % 65 30–36 %).
0,01 % (
120- 19 %
22 % , 20 –
[3].
0,5 % (1986–2010) (0,37 %),

(рис. 3).

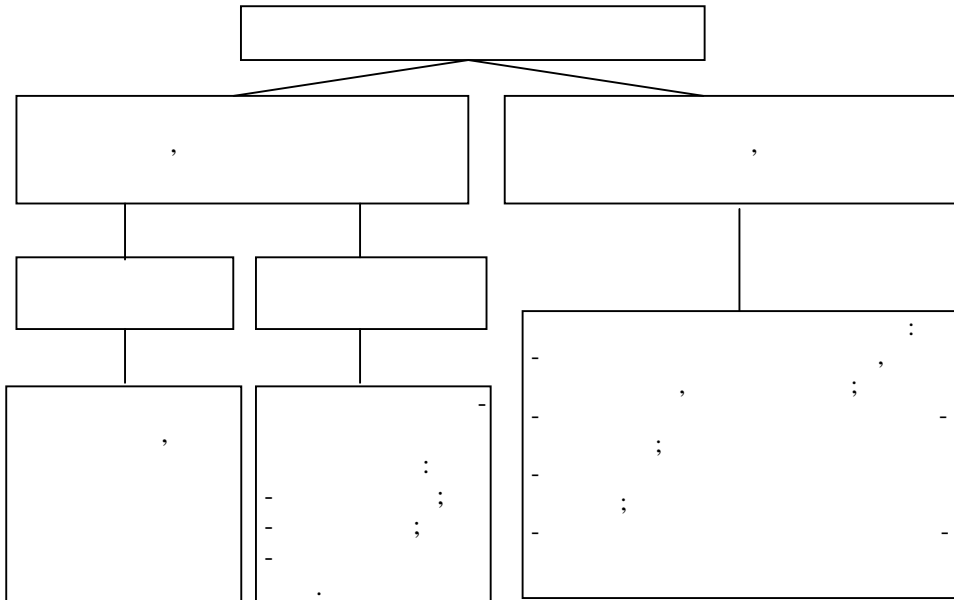


рис. 3.

[7].

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 ” [9], “
 ” [10] “
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 () [10]. ,

(3), 4-1 .

• - () :

3 5 %, 6 %, -

() 30 /100 ,

$$\left(\frac{- Na}{pNa-0,5pCa} \right)$$

3. 10-7 ;

• - 3 2-5 %, 3-6 %, 15-30 /100 $\frac{- Na}{pNa-0,5pCa}$ - 3-7. 7-4 ;

• - 3 2 %, 3 %, 15 /100 , $\frac{- Na}{pNa-0,5pCa}$ 7. 4-1 .

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(, ;

, , , ,).

(10-7), -

(7-4),

(4-1).

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СПИСОК ВИКОРИСТАНОЇ ЛІТЕРАТУРИ

1. . . / - , 2012. - 535 .

2. . . // , . - 2013. - . 92-94. /

3. . - , 2010. - 106 .

4. // / . – 1. – 2012. – . 28–32.
5. // . – ., 2012. – . 12. – . 5–13.
6. / – ., 2011. – 358 .
7. / [. ,]. – .: ., 2009. – 620 .
8. // . – 2007. – . 8. – . 5–11.
9. // [. ,]. – .: ., 2004. – 34 .
10. [. ,]. – ., 2012. – 49 .

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12.03.2013
16.04.2013
17.06.2013

TRANSFORMATION OF PROPERTIES OF CHORNOZEMS AND THEIR RESISTANCE TO ANTHROPOGENIC PRESSURE

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The directions of the transformation of the properties of chernozems under the influence of agricultural use and irrigation are shown. For balanced and sustainable land use is required anthropogenic load on the soil based on the definition of acceptable environmental risk of degradation, taking into account the soil stability to anthropogenic pressure.

Keywords: soil properties, soil, humus, irrigation, soil stability, black soil.

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