

4•2011

Glycyrrhiza glabra

Koeleria cristata, Eryngium planum, Elytrigia repens, Tragopogon dubius, Artemisia lerchiana, Bromus japonicus, Festuca beckeri, Achillea nobilis.

– 30 %  
194-206  
(0,20-1,2 %),  
45-50 %, 35-40  
[1].  
1,2 %  
47-63 %  
12-15  
400-550 / 2.  
0,5-0,6 ,  
[5].  
(72 %).  
0,4-0,6 %  
2,46-2,58 / ,  
%  
22 %  
0,8-1,2 % –  
66 %.

|        |               |      |      |      |      |      |
|--------|---------------|------|------|------|------|------|
|        |               |      |      |      |      |      |
|        | %             |      |      |      |      |      |
|        |               |      |      |      |      |      |
|        |               | 1    | 2    | 3    |      |      |
| 2007 . |               |      |      |      |      |      |
| 1      | 0,4-0,6 ( ) - | 2,58 | 2,46 | 2,55 | 2,53 | -    |
| 2      | 0,6-0,8       | 1,91 | 2,02 | 1,98 | 1,97 | -    |
| 3      | 0,8-1,2       | 0,82 | 0,87 | 0,89 | 0,86 | -    |
| 05     |               |      |      |      | 0,14 |      |
| 2008 . |               |      |      |      |      |      |
| 1      | 0,4-0,6 ( ) - | 4,58 | 4,65 | 4,69 | 4,64 | 2,86 |
| 2      | 0,6-0,8       | 3,32 | 3,30 | 3,25 | 3,29 | 1,79 |
| 3      | 0,8-1,2       | 1,71 | 1,72 | 1,64 | 1,69 | 0,84 |
| 05     |               |      |      |      | 0,12 | 0,14 |
| 2009 . |               |      |      |      |      |      |
| 1      | 0,4-0,6 ( ) - | 6,01 | 6,13 | 6,10 | 6,08 | 4,32 |
| 2      | 0,6-0,8       | 5,12 | 5,15 | 5,06 | 5,11 | 3,05 |
| 3      | 0,8-1,2       | 2,89 | 2,97 | 2,99 | 2,95 | 1,54 |
| 05     |               |      |      |      | 0,11 | 0,12 |
| 2010 . |               |      |      |      |      |      |
| 1      | 0,4-0,6 ( ) - | 7,54 | 7,52 | 7,65 | 7,57 | 6,36 |
| 2      | 0,6-0,8       | 6,13 | 6,05 | 6,12 | 6,10 | 5,12 |
| 3      | 0,8-1,2       | 3,84 | 3,71 | 3,79 | 3,78 | 2,84 |
| 05     |               |      |      |      | 0,10 | 0,11 |

7,52-7,65 / , 0,6-0,8 %  
19 %, 50 %  
0,8-1,2 %  
0,8-1,2 % 70,6 %  
64,3-55,3 %.

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#### FORMATION OF WHEATGRASS–LICORICE AGROCENOSSES ON THE DEGRADED SOILS OF KALMYKIA

*E.B. Dedova, S.N. Nokhashkieva*

*Kalmyk Branch, Kostyakov All-Russian Research Institute of Hydraulic Engineering and Land Reclamation*

*pl. Gorodovikva 1, Elista, 358011 Russia*

*The map of the area and yielding capacity of valuable licorice populations in the Republic of Kalmykia was composed. To restore degraded lands, mixed plantations of phytomeliorants—licorice (*Glycyrrhiza glabra*) and Jose Tall wheatgrass (*Agropyron elgongatum*)—were tested under the arid conditions of the region. The yields of the wheatgrass–licorice hay and licorice on degraded soils of different salinity were reported.*

*Keywords: Glycyrrhiza glabra, Agropyron elgongatum, phytomeliorants, land degradation, water-soluble salts, yielding capacity.*