BIOLOGICAL SCIENCE

UDC 631.4

APPLICATION OF SOIL CAPACITOR TO CREATE A FOREST AND SHRUBBY TREE PLANTATIONS

© 2014 E.M.-R. Mirzoev, I.A. Magomedov, K.E. Mirzoeva

Mirzoev Enver Magomed-Rasulovich – Candidate of Agricultural Science, Leading Scientific Researcher, Laboratory Soil and Vegetable Resource, Caspian Institute of Biological Resources of the Dagestan Scientific Center of the Russian Academy of Science, Gadjiev St., 45, Makhachkala, Dagestan Republic, 367025, Russia, e-mail: pibrdncran@mail.ru.
Magomedov Isa Abulkasumovich – Scientific Researcher, Laboratory Soil and Vegetable Resource, Caspian Institute of Biological Resources of the Dagestan Scientific Center of the Russian Academy of Science, Gadjiev St., 45, Makhachkala, Dagestan Republic, 367025, Russia, e-mail: pibrdncran@mail.ru.

Mirzoeva Kistaman Enverovna – Candidate of Technical Science, Senior Lecturer, Department of Ecology, Dagestan State Technical University, Imam Shamil St., 70, Makhachkala, Dagestan Republic, 367015, Russia.

The soil capacitor of vaporous water of atmosphere is designed. The studies is installed that he daily allowance accumulates in metre layer soil ground arid territory more than 49 mms/hectare moisture in sultry-hot period of the year. This serves the central to making reproducing the biological variety arid lands, subject to desertification by boarding field protection timber bands, umbrella of green timber and timber peg.

Keywords: *fertility, deand stand, semi-desert zone, desert, green timber umbrellas, timber prickly, soil ground, crotovines, stone burial mound, condensation, vaporous water, atmosphere, desertification.*

1. *Kas'yanov F.M.* Lesomelioraciya i zhivotnovodstvo. M., 1985. 159 s.
2. *Alekseev V.V., Berezkin M.Yu.* Presnaya voda iz atmosfernogo vozduxa // Priroda. 1988. № 6. S. 91 – 95.
3. *Yanovich P.* Voda i vozdux // Nauka i zhizn'. 1968. № 11. S. 64 – 66.
4. *Morgun F.T.* Obrabotka pochvy' i urozhaj. M., 1997. 150 s.
5. *Cherkasov A.A.* Melioraciya i sel'skoxozyajstvennoe vodosnabzhenie. M., 1958. S. 83 – 90.
6. *Sharov V.V.* Sekret sadov Semiramidy' razgadan // Melioraciya i vodnoe xozyajst¬vo. 1990. № 11. S. 44 – 45.
7. *Mirzoev E'.M-R., Balamirzoev M.A., Dadaev N.G.* K voprosu o racional'nom ispol'zovanii i oxrane pochv aridny'x e'kosistem v usloviyax opusty'nivaniya // Aridny'e e'ko¬sistemy'. 1977. T. 3, № 5. S. 35 – 40.
8. A.s. № 1732829. Sposob kondensacii paroobraznoj vlagi v pochve / Mirzoev E'.M-R. 1992.
9. A.s. № 1656064. Rabochij organ krotovatelya / Mirzoev E'.M-R. 1991.

UDC 630.232.33

BIODIVERSITY AND STATE OF SHRUBBY FLORA IN URBAN LANDSCAPES OF THE STEPPE ZONE OF THE LOW DON

© 2014 D.I. Shalamanov, N.V. Ivanisova, L.V. Kurinskaya

Shalamanov Denis Ivanovich – Post-Graduate Student, Novocherkassk Engineering Institute Reclamation of the Don State Agrarian University, Pushkinskaya St., 111, Novocherkassk, Rostov Region, 346428, Russia.

Ivanisova Nadezhda Victorovna – Candidate of Biological Science, Associate Professor, Department of Forestry and Forest Reclamation, Novocherkassk Engineering Institute Reclamation of the Don State Agrarian University, Pushkinskaya St., 111, Novocherkassk, Rostov Region, 346428, Russia.

Kurinskaya Lubov Victorovna – Candidate of Biological Science, Associate Professor, Department of Forest Plantations and Forestry Management, Novocherkassk Engineering Institute Reclamation of the Don State Agrarian University, Pushkinskaya St., 111, Novocherkassk, Rostov Region, 346428, Russia, e-mail: lyubov.kurinskay@mail.ru.

The ecological framework of the modern cities is inconceivable without gardening systems. Bushes are perspective for massive use in modern green construction. They grow quickly and reach the maximum decorative effect. On public objects there exist 42 types of shrubby vegetation. On objects of limited use 11 types are noted. The most widespread and biologically steady types when gardening the cities of a steppe zone are Ligustrum vulgare, Spiraea vanhouttei, Syringa vulgaris.

Keywords: *shrubby vegetation, biodiversity, decorative effect, biological stability, specific similarity.*

1. *Semenyutina A.V.* Assortiment derev'ev i kustar-nikov dlya melioracii agro- i urbolandshaftov zasushli-voj zony' (nauchno-metodicheskie rekomendacii). M.; Vol¬gograd, 2002. 59 s.
2. *D'yakova T.A.* Dekorativny'e derev'ya i kustarniki. M., 2001. 152 s.
3. *Kurinskaya N.V.* Vliyanie faktorov okruzhayushhej sredy' na sostoyanie drevesnoj rastitel'nosti parkovy'x landshaftov (na primere g. Novocherkasska): dis. … kand. biol. nauk. Rostov n/D., 2006. 190 s.
4. *Pashkov G.D., Zozulin G.M.* Rastitel'nost' // Pri-rodny'e usloviya i estestvenny'e resursy'. Rostov n/D., 1986. S. 259 – 285.
5. *Kirsanov E.I.* Novocherkassk. Kratkij istoricheskij ocherk 1805–1995 gg. Rostov n/D., 1995. 63 s.