

REPORT FOR THE STATUS OF THE RHODOPEAN LILY

(*LILIUM RHODOPAEUM*) IN THE LOCALITY NEAR VILLAGE OF STOYKITE,

SMOLYAN MUNICIPALITY, BULGARIA – 2020,

The locality of the Rhodopean lily has been visited twice this year (27.06. and 10.08.2020).

There were identified total 369 individuals of the species, 262 of them are flowering and 107 vegetative. Insects or cattle have damaged 36 of all.

Between the flowering individuals there are 213 with single bloom, 35 with 2 blooms, and 14 with 3 blooms in inflorescence.

Ratio of the flowering/vegetative individuals is about 2 (213F/107V) in favor of flowering ones.

The total number of the population continues to increase for 2020 with 175 individuals, which is about 90% more compared with 2019!

Another “best year”! This year of 2020 is again with the biggest number of the population from the beginning of the monitoring!

The population of the Rhodopean lily was not impact by grazing until the end of flowering season. Grazing started late enough - in august, which is very favorably for the species (see photos bellow).

Rhodopean lilies again did not success to form fruit capsules in year 2020 (see photo 2).

I visited the nearest locality of Rhodopean lily, near village of Progled, to confirm that the plants there managed to form fruit capsules, and probably seeds (see photo 1).

Photo 1. Fruit capsule of the species in the locality near Progled village.



Photo 2. Unsuccessful forming of the fruit capsule of the species in the locality near Stoykite village.



Photo 3. Closer view of the lily.



Photo 4. Inflorescence of the Rhodopean lily.



Photo 5. General view of the locality



Table 1. Results of census studies 2008-2020.

Year	number of flowering individuals	number of vegetative ind.	ratio of flowering/ vegetative ind.	number of damaged ind.	total number of ind.	increasing/decreasing of total number of ind. in percentage to previous year
2008	122	66	1,85	28	188	-
2010	96	-	-	19	96	-48,94
2011	145	-	-	-	145	51,04
2012	78	52	1,50	-	130	-10,34
2013	17	46	0,37	-	63	-51,54
2014	42	11	3,82	15	53	-15,87
2015	41	4	10,25	14	45	-15,09
2016	56	23	2,43	5	79	75,56
2017	75	34	2,21	34	109	37,97
2018	117	31	3,77	10	148	35,78
2019	123	71	1,73	30	194	31,08
2020	213	107	1,99	36	369	90,21

Vladimir Trifonov, 2020
vtrifonof@gmail.com