

HARVEST TIME INFLUENCE ON ENERGY OF GERMINATION, GERMINATION AND HUMIDITY OF SUNFLOWER SEED IN CONDITIONS OF IRRIGATION.

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Experiments were performed in: 1972, 1973 and 1974 on the soil type VERTISOL. The experiments were made on USSR sunflower varieties VNIIMK - 8931 and PEREDOVİK. The moisture of the soil was maintained at 70% of the FWC - field water capacity - by artificial rain. Examined sunflower varieties were dressed with:

N 100, P 100, K 100 kg/ha.

Seeding and other modern farming methods were performed as if in regular production and in optimal modern farming terms-conditions. The harvest of the sunflower was made after the full flowering-time by hand-cutting of the sunflower heads, i.e.: after 20, 25, 30, 35, 40 and 45 days (50 sunflower heads by each picking). The energy of germination, germination, water content of sunflower seeds and moisture of the soil were followed by standard methods:

List 1 - Energy of germination, germination and humidity of the sunflower seeds, varieties VNIIM-8931 and PEREDOVİK by variants of using harvest time periods in conditions of irrigation (average for 1972/74).

Harvest days (after 30 days) from the stage of full flowering (time)	varieties							+
	VNIIMK - 8931			PEREDOVİK				-
	EGer %	Ger%	Hum%	EGer%	Ger%	Hum%	Ger%	
20	92	96	49	87	93	53	-3	
25	88	90	37	89	93	44	+3	
30	92	95	22	93	96	36	-2	
35	91	97	16	91	95	19	-2	
40	92	94	11	89	90	16	-4	
45	94	95	7	90	91	6	-4	

These three-year results point out that VNIIM-8931 and PEREDOVİK, 20 days after the full flowering-time reach high energy of germination, as well as germination in total. This can be very significant for breeding when there is a need to get 2 generations a year.

Energy of germination, germination and humidity of seeds are variety features. VNIIMK-8931 demonstrates higher energy of germination and germination, but the lesser content of the seed humidity with all examined variants. Differences vary from 2-5% out of total germination in favour of VNIIMK-8931. In the end, conclusion could be that VNIIMK-8931 reached the highest total germination 35 days after full flowering-time, while PEREDOVİK did the same after 30 days, what must be considered in the seed production of sunflower.