

With regard to the yield of seeds, the method of growing entirely in the open air is not superior to the method of growing part of the time under bags, and it has one great objection, that of leaving the plant exposed to cross-fertilization, which invariably leads to degeneration of stock, as selection being impossible, the varieties cannot be maintained pure and vigorous. For this reason, it should be entirely discarded.

The mixed method is the one which complies best with all the requirements, and we recommend it to all farmers who are desirous of obtaining good and pure seed.

II.—Results obtained from leaving all the leaves on the plant or removing all the leaves, or a portion of them.

A summary of the results is presented in Table III.:

TABLE III.

A Top leaves removed			B All leaves removed			C Lower leaves only removed		
Germinator		Artificial soil	Germinator		Artificial soil	Germinator		Artificial soil
6 days	14 days	21 days	6 days	14 days	21 days	6 days	14 days	21 days
p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.	p. c.
39	53	72	22	37	66	13	24	64
70	83	84	21	31	83	22	35	81
78	89	73	60	66	79	2	4	85
61	78	84	56	68	78	2	13	70
46	76	84	18	35	83	60	79	80
294	379	397	177	235	309	99	155	380
$\frac{294}{5}=58.88$	$\frac{379}{5}=75.80$	$\frac{397}{5}=79.40$	$\frac{177}{5}=35.40$	$\frac{235}{5}=47$	$\frac{309}{5}=61.80$	$\frac{99}{5}=19.80$	$\frac{155}{5}=31$	$\frac{380}{5}=76$

Comparing the results obtained from the test on an artificial soil, we observe a decrease from A to C, but the differences are slight. However, this is a test of long duration, and it may happen—as generally happens on the seed bed—that many seeds which are late in germinating are included in the results.

The plants from these late seeds, hindered in their growth by earlier and more vigorous plants, will never give good seedlings for transplanting. Detailed information on this point will be obtained by comparing the results of the germinator test.

A heavy yield is not so important a consideration as vigour and evenness in the seedlings. Of course the seed should have a fair percentage of germination, but the germination should be such that the plants are as strong and as even as possible.

In lot A, in table III, we see that the number of seeds germinated at the end of six days is very nearly 60 per cent, which is a very fair percentage. This number gradually increases to 75.8 per cent on the fourteenth day until it stops at 79.4 per cent on the twenty-first day, in the artificial soil. The proportion of late seedlings is comparatively low. With such seed, evenly distributed, and not applied in too large quantity, a very even seed-bed will be obtained, all the plants of which will be about the same size, and about equally vigorous.

In lot B, it is seen that the yield at the end of six days is only 35.4 per cent; it rises slightly until the fourteenth day (47 per cent), then the rise is quite marked from the fourteenth to the twenty-first day. This seed will give fairly early plants,