

One part of the trial plots in the Elkton section consisted of liquid treatments and the other of dust treatments. Figure 4 shows the planting arrangement for the former, where each numeral corresponds to the treatment as given in A, Table VI. The general arrangement for the dust treatment part was similar to that given in Fig. 4, although the total number of treatments was less than where the liquid treatments were compared. (B, Table VI.)

1	2	3	4	1	2	5	6
10	1	2	7	8	1	2	9
5	6	1	2	3	4	1	2
2	9	10	1	2	7	8	1
1	2	5	6	1	2	3	4
8	1	2	9	10	1	2	7
3	4	1	2	5	6	1	2
2	7	8	1	2	9	10	1
1	2	3	4	1	2	5	6
10	1	2	7	8	1	2	9
5	6	1	2	3	4	1	2
2	9	10	1	2	7	8	1
1	2	5	6	1	2	3	4
8	1	2	9	10	1	2	7

Fig. 4.—The planting plan for the seed-potato treatment plots in Elkton, Florida, in 1926.

The stems of 75 hills in each treatment were examined as before. In the liquid treatment section of the plot (Table VI-A) the diseased untreated lots showed 11.8 percent, and the lots treated with Bayer compound showed 11.4 percent of the plants with stem lesions. Where corrosive sublimate, uspulun, and semesan were used alone not over 3 percent of the plants showed stem injury, but where corrosive sublimate and uspulun were used in combination 7 percent of the plants showed such lesions. This indicates the probability of soil infection. In the other section of the plot (Table VI-B) where dust treatments were compared with clean untreated samples, and with samples treated with corrosive sublimate, the following percentages of stem lesions were observed: Dupont's Dust Disinfectant No. 12, 0; Dupont's Dust Disinfectant No. 37, 0; semesan dust, 10; clean treated (corrosive sublimate), 7; clean untreated, 6.

The seed pieces in the controls and in the treated lots were practically all sound at digging as was true in the Federal Point trials. Vine growth was good, germination was regular, and no differences in relative vigor were observed between the treated and untreated rows. No "rhizoctonia hills" or sclerotia on the tubers were observed at digging time. The yields obtained are shown in Tables VI and VII, by both weight and number of tubers, for both the liquid and dust treatments and the corresponding