Chloranil sprays and chloranil dust proved superior to other fungicides tested for control of downy mildew during the 1940-1943 period.

Chloranil, nabam and zineb sprays and chloranil dust were more effective against downy mildew than other fungicides used in plant beds from 1944 to 1946. Manzate spray, and 4 percent zineb, 12 percent chloranil plus 10 percent ferbam, 12.5 percent ziram and 15 percent copper compound A dusts were less effective against the disease. None of the fungicides injured the plants.

Forty-eight percent chloranil (4 lbs. - 100 gals. water) and 12 percent chloranil dust gave significantly better control of downy mildew than other fungicides tested from 1948 to 1952, with the exception of nabam spray in 1949 and 1950, 50 percent chloranil (2 lbs. - 100 gals. water) in 1951 and 5 percent chloranil dust in 1952.

Phygon XL-N and manzate sprays were as effective against downy mildew as other sprays tested in 1951 and 1952, with the exception of 48 percent chloranil (4 lbs. - 100 gals. water).

The 6.5 percent zineb dust was not as effective against downy mildew as chloranil spray and dust in the three years these fungicides were compared. Zineb dust was statistically equal to nabam spray in 1948 but not in 1949 and 1950, as measured by weights of plants.

**Fungicides Used on Heading Cabbage.**—In 1949, 48 percent chloranil (4 lbs. - 100 gals. water) significantly excelled other fungicides tested for downy mildew control, except 12 percent chloranil dust.

Nabam spray and zineb dust gave good control of downy mildew in 1950. Nabam spray was significantly more effective than zineb dust.

Mildew was very mild in 1951 and 1952 and not enough heads were damaged by the disease to measure effectiveness of different treatments.

In 1953 significant control of downy mildew was obtained with 48 percent chloranil (4 lbs. - 100 gals. water), 50 percent chloranil (2 lbs. - 100 gals. water) and nabam spray.

Owing to mildness of downy mildew in 1950, no information was obtained on the relative effectiveness of single and double strength nabam spray and zineb dust in controlling the disease on heading cabbage when they were applied on a three- to four-day and a six- to seven-day schedule.

None of the fungicides used on heading cabbage affected yield or salability of the heads.