Tobacco Bed

was supported on a frame- sary. work of plastic tubing set at right angles to the length of period, temperatures in the the bed and four feet apart, three beds were taken at 10 Flat plastic strips were at- a.m. and 4 p.m. Average soil the iilm. This formed a flat that both air and soil temperacover about one foot above the tures in the glass covered beds bed surface.

Engle reported, "Rain quickly forced the plastic down on the bed surface where it re- sistantly lower than either of May 21. mained for several days" On the other two beds. By after-April 24 this frame and plastic noon, the soil temperature in film were removed and re- the plastic covered beds had fore removal of the covers, the bably be to the grower's adplaced with a new frame of equaled the glass covered beds plants in the middle section of vantage to have one or two semi-rigid plastic tubing. Each and air temperature under the the plastic covered bed were of his beds seeded at ½ or long, so that when the ends temperature in the other two reports. The plants near the ered with plastic so that he were forced about four inches beds. into the soil on either side of the bed, the tube formed a semi-circular arch with the ture recorded was lowest unthe bed surface.

bolted along the center line of the arches to form a center line support for the film. a slightly lower reading under Next a periorated flat plastic hose of the type widely used for sprinkling lawns and gardens was tied at about 15 inch intervals to the underside cloth covered bed at 10 a.m. of the center support with the were about 16 degrees lower perforations facing downward than under glass and 12 detoward the bed surface.

Miniature Greenhouse

Under this system, Engle ing and afternoon. said, with the plastic film stretched and held down along quired every other sash was both sides with soil, the bed lifted about four inches and presented a smooth, neat ap- both ends of the plastic coverpearance for the five weeks it ed bed were opened fully. The way in place, resembling a bed was on an east-west axis

fact it was. The plastic at

During the next five-week

The minimum soil tempera- ened-off were not injured. temperature recorded was ing a week or even two weeks vested tobacco is more likely highest under glass with only the plastic and somewhat lower reading under the cloth.

Air temperatures of the grees lower than under plastic. On the average they did not change much between morn-

When ventilation was resmall greenhouse, which in causing the prevailing wester-

good ventilation as evidenced ered beds. It will be neces- suffer from early freezes after each end was held down with moisture film which always ditional ventilation, but Engle

were made in the plastic. Only three irrigations from of the arch. the plastic hose were needed under the plastic during the plastic could be reused for two ers on a bed or so next spring. tached down the center by and air temperatures record. five-week period, with a mo- or three seasons if handled bolts to form a support for ed in the three beds showed applied cach the

> was higher in the morning not applied until 11 days about May 1 in this area. than in either of the other later than the glass, the plants two beds. Temperatures in the were of equal size at the time with this system, and either cloth covered beds were con- the covers were removed on steam or chemical steriliza-

Scalding Is Problem

On the final week end beplastic had gone above the rather severely scalded, Engle 1/3 of the usual rate and covends, being more or less hard- could set out well-grown plants

semi-circular arch with the der the glass and highest un-results, Engle believes that While it does not always fol- Brooklawn Far der plastic, with the cloth plastic covers offer a real po- low that early harvested tocovered bed ranging between tential as a means of securing bacco is less likely to suffer Similar tubing was then the two. The maximum soil tobacco plants for field sett- shedburn, Engle said, late har-

by the disappearance of the sary, however, to supply ad- it is hung. (Continued from Page 1) Cath car was need down with on the bed which was 6 feet bricks so that it could be open-of the plastic when the bed cutting horizontal shifts in the on the bed which was 6 feet of for ventilation as neces- of the plastic when the bed cutting horizontal slits in the ers with particular emphasis was closed. No other openings plastic on the lee side of the on the ventilation problem,

> He believes the two mil ers should try the plastic cor. Although the plastic was the ventilation was needed ---

> > Weed control is an essential tion should work well.

Plant Thinner

Engle said, "It would profor his first and second plant-On the basis of one season's ings early in the season"

Engle says he plans to de bed about a foot from the top but he does believe present in. formation is enough that farm.

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