NEANC 34 WORKSHOP

NURSERY GERMINATION AND SEEDBED DENSITY

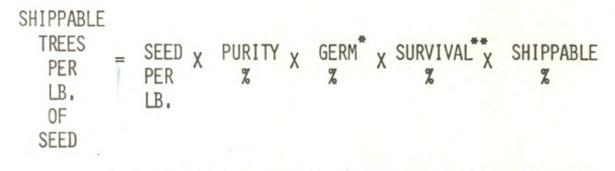
HANDOUTS AND VISUALS

for

JOHN R. SCHOLTES NURSERY SPECIALIST N.A. S&PF BROOMALL, PA

> August 9, 1984 DOVER, DE

BASIC SOWING FORMULA



- * GERMINATION % MAY OR MAY NOT BE THE FULL GERMINATION POTENTIAL OF THE SEEDLOT.
- ** PERCENT OF <u>VIABLE</u> SEEDS THAT PRODUCED <u>LIVE</u> TREES AT THE END OF THE ROTATION (FINAL INVENTORY)

HOW MUCH SEED TO SOW

LBS, OF SEED TO SOW = NUMBER OF SEEDLINGS TO SHIP SHIPPABLE TREES PER LB, OF SEED

BASIC DENSITY FORMULA

SEED PURITY GERMINATION SURVIVAL EFFICIENCY = % × % X

GERMINATION % MAY OR MAY NOT BE THE FULL GERMINATION ** POTENTIAL OF THE SEEDLOTI

PERCENT OF VIABLE SEEDS THAT PRODUCED LIVE TREES AT THE END OF THE FIRST GROWING SEASON (1.0 INVENTORY).

HOW DENSE TO SOW SEED

SEED TO SOW / SO. FT. = DESIRED DENSITY X SEED EFFICIENCY

1.0 SURVIVAL FORMULA

1.0 GROSS INVENTORY

1.0 SURVIVAL %

TOTAL VIABLE SEED SOWN*

FINAL SURVIVAL FORMULA

FINAL GROSS INVENTORY

FINAL SURVIVAL % =

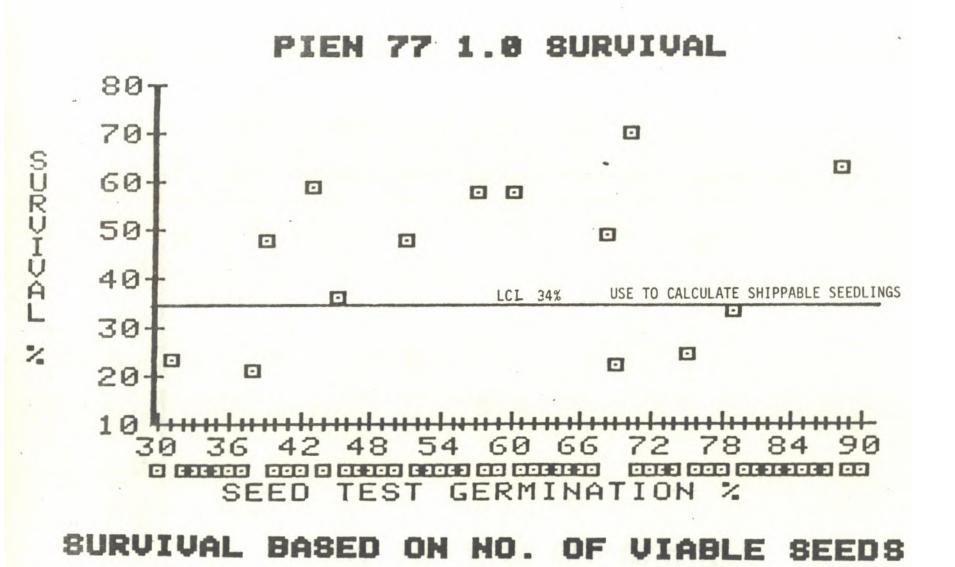
TOTAL VIABLE SEED SOWN*

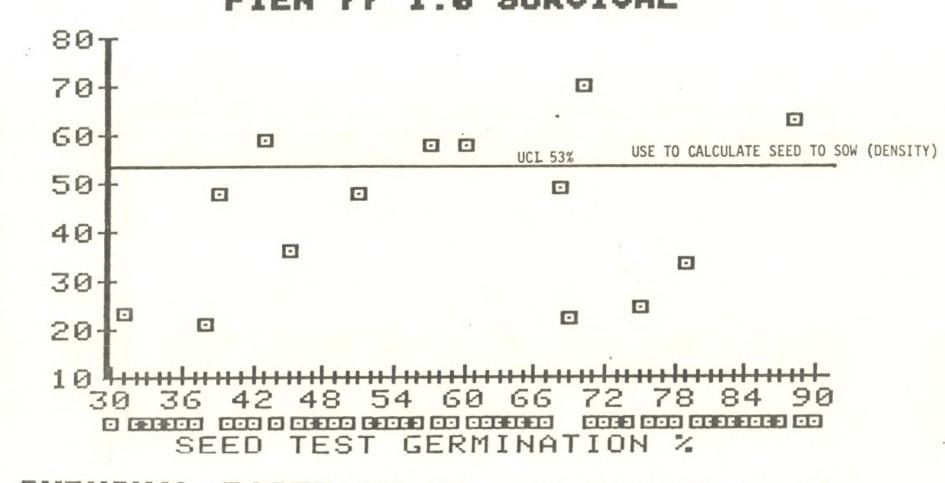
* TOTAL VIABLE SEEDS SOWN = SEED/LB X PURITY % X GERM % X LBS. OF SEED SOWN

SURVIVAL PIEN 77 1.0 80 : 70 • 60 • • 50 • 40 • 30 • • 20-• 10 30 36 42 66 7 8 8 9 0 7 4 R 5 5 И 2 0 6 36 300 06363063 00 - - -• SEED GERMINA T ON % TEST

SURVIVAL BASED ON NO. OF VIABLE SEEDS

SURVIVAL X

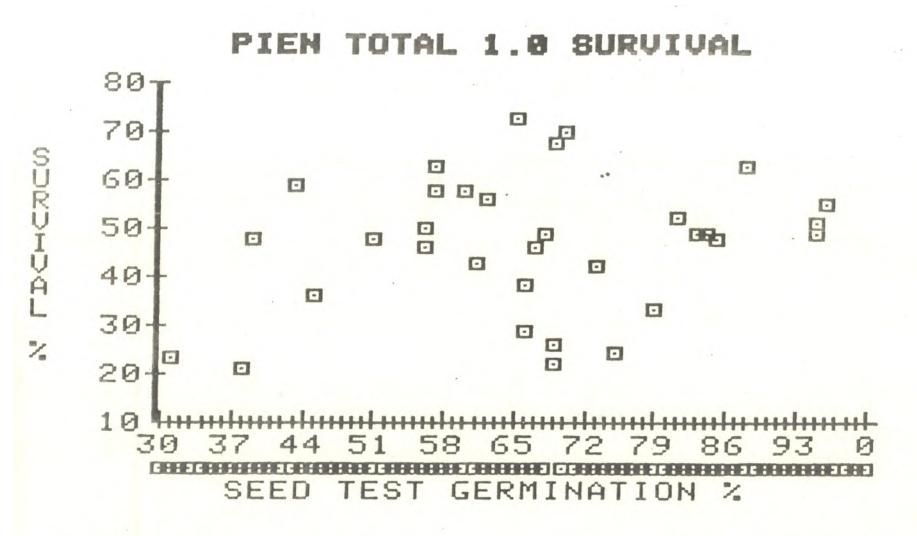




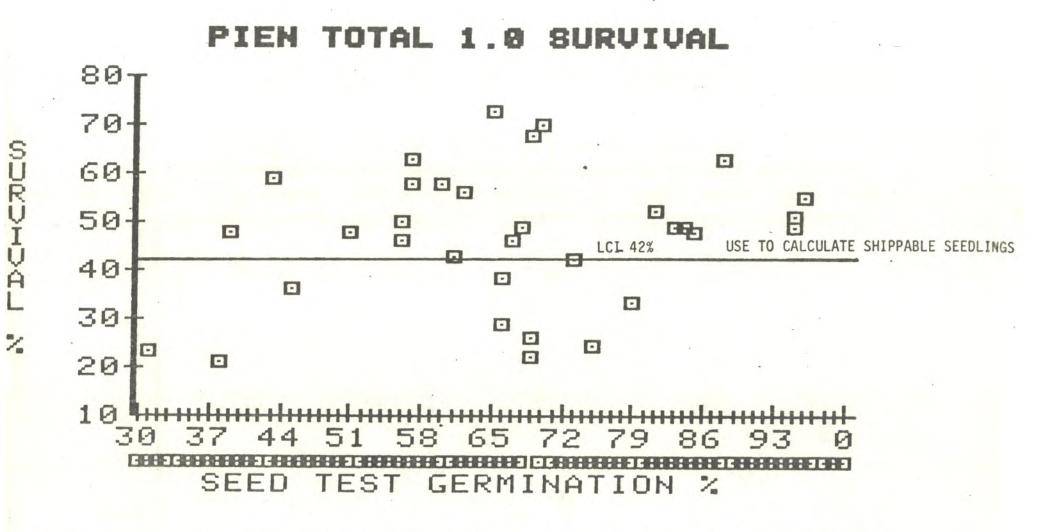
PIEN 77 1.8 SURVIVAL

SURVIVAL BASED ON NO. OF VIABLE SEEDS

SURVIVAL X



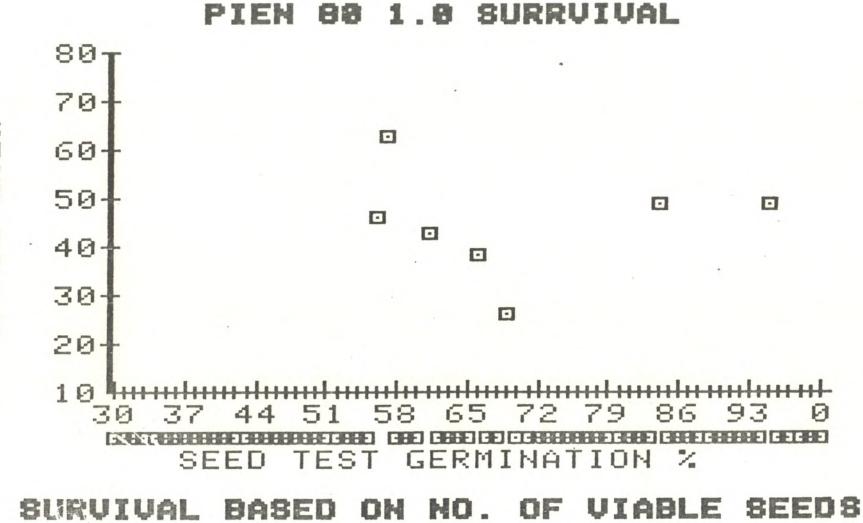
SURVIVAL BASED ON NO. OF VIABLE SEEDS



SURVIVAL BASED ON NO. OF VIABLE SEEDS

TOTAL 1.0 SURVIVAL PIEN 801 • 70-P SURVIVAL % • 0 60-USE TO CALCULATE SEED TO SOW (DENSITY) UCL 52% 50-Η P Gh • • 40 • 30 • • 20 10 30 86 93 3 58 65 9 4 72 Й 1 FIR GERMINATION SEED TEST %

SURVIVAL BASED ON NO. OF VIABLE SEEDS



Document No, 65-01/85/03/03 SURVIVAL X