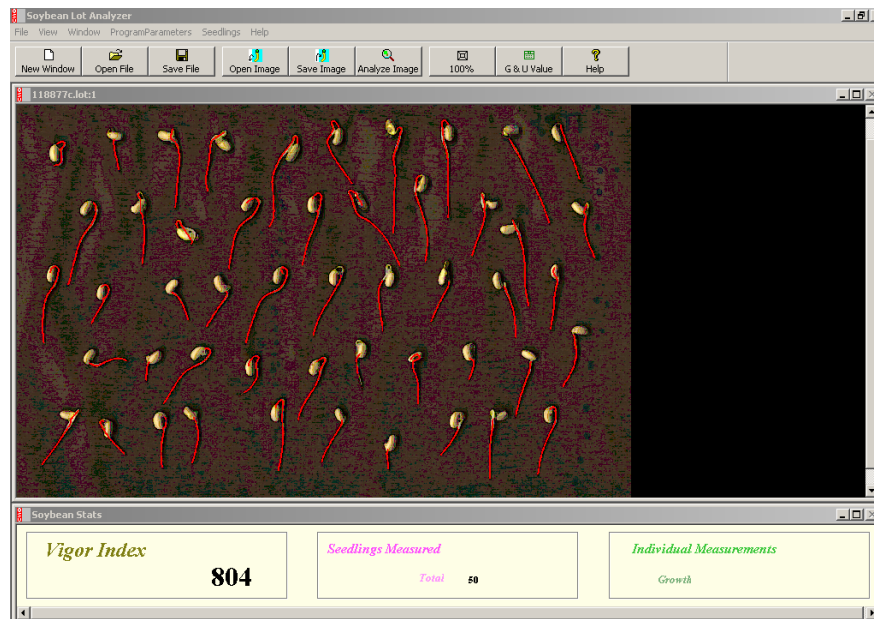




SEED VIGOR IMAGING SYSTEM (SVIS) FOR SOYBEANS

A new and faster vigor test system utilizing computer-imaging techniques from The Ohio State University to assess soybean seeds for vigor is now available from OSIA. The advantage of computerized seed vigor assessment over that done by humans is that results can be obtained much faster in an objective manner. The current system operates in the following way. Seeds are either germinated under recommended standardized conditions for three days or following an Accelerated Aging test at high temperature and relative humidity for three days and the seeds germinated for an additional three days. After this period, an image is taken of the seedlings using a scanner in a special enclosure and the digitized image is fed into the computer. The computer software then analyzes and computes objective parameters such as overall seedling length and determines total seedling length and uniformity. Once the measurements of individual seedlings are computed, the seed vigor of the sample is calculated by considering individual seed development as well as sample population statistics such as uniformity.



Interpreting Results:

Exceptional Vigor
Outstanding Vigor
Good Vigor
Poor Vigor
Not For Seed

3-Day Germination Growth Scan

800-1000
600-799
400-599
200-399
<200

3-Day AA Growth Scan

500-1000
400-499
300-399
200-299
<200

COST PER SAMPLE: \$35

RESULTS WILL BE PUBLISHED ON LAB REPORTS AND SEEDLING IMAGES WILL BE AVAILABLE FOR DOWNLOADING AT THE OSIA WEB PAGE MEMBER/CUSTOMER DATA ACCESS SITE

For sample packets contact:

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