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FINAL REPORT

**Submitted By:
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**RESEARCH AND DEVELOPMENT OF
IMPROVED SEED PRODUCTION AND UTILIZATION**

Project Number 936-4143

DAN-4143-B-01-7001-00

Contractor:

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Washington, DC 20523-1809**

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**NATIONAL AGRICULTURAL RESEARCH PROJECT (NARP)
SEED TECHNOLOGY COMPONENT (263-D152.04)**

February, 1995

Final Training Report

The objective of Mississippi State University's Seed Training Component of the National Agriculture Research Project (NARP) was simple--to provide academic training at the Master's and Ph.D. level for a select group of participants in Seed Technology. The first six participants began in January, 1990 and completed their degree programs in December of 1991. The last participant began his program in August of 1992 and completed his degree in August of 1994. There were 10 Master's degree candidates and one Ph.D. candidate. Only one participant required a one-semester extension of his program in order to complete all the requirements of the degree program, and one participant was required to take Intensive English concurrent with his first academic class to complete his English requirements for full admission. No participants were unsuccessful in completing their degree objectives, although one participant changed his program from the thesis-option Master of Science to the non-thesis option of Master of Agriculture. While the original program called for eleven Master's candidates and two Ph.D. candidates, no other applications which were submitted were accepted by the Graduate School at Mississippi State University. The participants who completed this program were:

Name:	Samia Aba Yzeed
Citizenship:	Egyptian
Sex:	Female
Training Site:	Mississippi State University
Beginning Date:	January, 1990
Ending Date:	December, 1991
Purpose of Training:	To prepare participant for work in seed quality control, able to teach techniques, diagnose and analyze problems in seeds and seed quality, and develop solutions. Degree program is the non-thesis option of the Master of Agriculture in Agronomy-Seed Technology.
Type of Training Activities:	Long-term, academic degree program
Source of Funding:	National Agricultural Research Project (NARP) Seed Technology Component (263-D452.04)

Name: Gamal Attya
Citizenship: Egyptian
Sex: Male
Training Site: Mississippi State University
Beginning Date: January, 1990
Ending Date: December, 1991
Purpose of Training: To prepare participant for work in seed quality control, able to teach techniques, diagnose and analyze problems in seeds and seed quality, and develop solutions. Degree program is the thesis option of the Master of Science in Agronomy-Seed Technology.
Type of Training Activities: Long-term, academic degree program
Source of Funding: National Agricultural Research Project (NARP)
Seed Technology Component (263-D452.04)

Name: Mohamed El Hawary
Citizenship: Egyptian
Sex: Male
Training Site: Mississippi State University
Beginning Date: August, 1990
Ending Date: August, 1993
Purpose of Training: To prepare participant for work in seed quality control, to be able to teach techniques, diagnose and analyze problems in seeds and seed quality, and develop solutions. Degree program is the Ph.D. in Agronomy-Seed Technology.
Type of Training Activities: Long-term, academic degree program
Source of Funding: National Agricultural Research Project (NARP)
Seed Technology Component (263-D452.04)

Name: Emil F. S. Henain Fanous
Citizenship: Egyptian
Sex: Male
Training Site: Mississippi State University
Beginning Date: August, 1990
Ending Date: December, 1992

Purpose of Training: To prepare participant for work in seed quality control, to be able to teach techniques, diagnose and analyze problems in seeds and seed quality, and develop solutions. Degree program is the thesis option of Master of Science in Agronomy-Seed Technology.

Type of Training Activities: Long-term, academic degree program

Source of Funding: National Agricultural Research Project (NARP)
Seed Technology Component (263-D452.04)

Name: **Sayed Mahmoud**

Citizenship: Egyptian

Sex: Male

Training Site: Mississippi State University

Beginning Date: January, 1990

Ending Date: December, 1991

Purpose of Training: To prepare participant for work in seed quality control, able to teach techniques, diagnose and analyze problems in seeds and seed quality, and develop solutions. Degree program is the thesis option of the Master of Science in Agronomy-Seed Technology.

Type of Training Activities: Long-term, academic degree program

Source of Funding: National Agricultural Research Project (NARP)
Seed Technology Component (263-D452.04)

Name: **Adel Midany**

Citizenship: Egyptian

Sex: Male

Training Site: Mississippi State University

Beginning Date: January, 1990

Ending Date: December, 1991

Purpose of Training: To prepare participant for work in seed quality control, able to teach techniques, diagnose and analyze problems in seeds and seed quality, and develop solutions. Degree program is the thesis option of the Master of Science in Agronomy-Seed Technology.

Type of Training Activities: Long-term, academic degree program

Source of Funding: National Agricultural Research Project (NARP)
Seed Technology Component (263-D452.04)

Name: Mohamed Abdel-Moneim Mohamed Morsy
Citizenship: Egyptian
Sex: Male
Training Site: Mississippi State University
Beginning Date: August, 1992
Ending Date: August, 1994
Purpose of Training: To prepare participant for work in seed quality control, to be able to teach techniques, diagnose and analyze problems in seeds and seed quality, and develop solutions. Degree program is the thesis option of Master of Science in Agronomy-Seed Technology.
Type of Training Activities: Long-term, academic degree program
Source of Funding: National Agricultural Research Project (NARP)
Seed Technology Component (263-D452.04)

Name: Hussein Mourad
Citizenship: Egyptian
Sex: Male
Training Site: Mississippi State University
Beginning Date: January, 1990
Ending Date: December, 1991
Purpose of Training: To prepare participant for work in seed quality control, able to teach techniques, diagnose and analyze problems in seeds and seed quality, and develop solutions. Degree program is the thesis option of the Master of Science in Agronomy-Seed Technology.
Type of Training Activities: Long-term, academic degree program
Source of Funding: National Agricultural Research Project (NARP)
Seed Technology Component (263-D452.04)

Name: Moustafa Saad
Citizenship: Egyptian
Sex: Male
Training Site: Mississippi State University
Beginning Date: January, 1991
Ending Date: December, 1992

Purpose of Training: To prepare participant for work in seed quality control, to be able to teach techniques, diagnose and analyze problems in seeds and seed quality, and develop solutions. Degree program is the thesis option of Master of Science in Agronomy-Seed Technology.

Type of Training Activities: Long-term, academic degree program

Source of Funding: National Agricultural Research Project (NARP)
Seed Technology Component (263-D452.04)

Name: **Salah Sorour**

Citizenship: Egyptian

Sex: Male

Training Site: Mississippi State University

Beginning Date: January, 1991

Ending Date: December, 1992

Purpose of Training: To prepare participant for work in seed quality control, to be able to teach techniques, diagnose and analyze problems in seeds and seed quality, and develop solutions. Degree program is the thesis option of Master of Science.

Type of Training Activities: Long-term, academic degree program

Source of Funding: National Agricultural Research Project (NARP)
Seed Technology Component (263-D452.04)

Name: **Maher Yoakim**

Citizenship: Egyptian

Sex: Male

Training Site: Mississippi State University

Beginning Date: January, 1990

Ending Date: December, 1991

Purpose of Training: To prepare participant for work in seed quality control, able to teach techniques, diagnose and analyze problems in seeds and seed quality, and develop solutions. Degree program is the thesis option of the Master of Science in Agronomy-Seed Technology.

Type of Training Activities: Long-term, academic degree program

Source of Funding: National Agricultural Research Project (NARP)
Seed Technology Component (263-D452.04)

Enrichment Activities:

Enrichment activities for the participants included two Seed Industry Tours. The first was conducted in summer 1991, led by Dr. Charles Vaughan, and included visits in Arkansas and Mississippi. Those participating were Mrs. AbaYzeed, Mr. Attya, Mr. Mahmoud, Mr. Mourad, and Mr. Yoakim. Dr. Bennie Keith conducted a tour in August of 1992. This tour over four south-eastern states provided Mr. El Hawary, Mr. Fanous, Mr. Saad, and Mr. Sorour with exposure to the seed industry, public and private, as practiced in that area. The four NARP participants were accompanied by four other international students from Pakistan, Yemen, and Haiti. Both tours had full schedules allowing participants an opportunity to see the seed industry at work, and all returned with enthusiastic praise for the broad extent of the industry they had seen. One of the participants chose not to take part in the tours, due in part to research activities.

There was no Seed Industry Tour during the summer of 1993. As an alternative, Mr. Morsy attended the 1994 Beltwide Cotton Conference meetings in San Diego, California. Other NARP participants in post-doctorate research here at Mississippi State also attended. Attendance at these meetings was a valuable experience for Mr. Morsy and a satisfactory substitute for the tours.

Conclusions:

This program was very successful. All participants completed their programs and none had any significant medical problems while in the United States. While Mr. Morsy experienced a certain degree of loneliness when all the other participants had completed and returned to Egypt, he was able to develop relations with other students in the Seed Technology Lab to offset this comparative disadvantage. Four of the participants were able to have their families join them and share the American experience. The separation was difficult for those whose families remained in Egypt, but those families who came to Mississippi State had a positive experience. The participants have maintained contact with the university since their return.