

RESEARCH PROPOSAL FOR 1986

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1. Continued studies on the effect of the use of Erwinia-contaminated irrigation water on current season losses and recontamination of seed tubers.
2. Long distance transport of Erwinia cells with storm systems and their deposition in surface water will be continued and hopefully completed by the end of the year. Studies on the replication of Erwinia in water will be continued.
3. The relationship between inoculum concentration and ringrot symptom expression will be studied for one more year.
4. The possibility of ringrot bacteria being present in stem cuttings or microplants without producing symptoms will be studied.
5. The ability of stem cutting/micro-propagation programs to eliminate ringrot bacteria from known infected tubers will be investigated.
6. Studies will be initiated on the possibility of other sources of ringrot bacteria other than infected tubers and contaminated equipment and storage.
7. Studies of factors other than inoculum levels affecting ringrot expression will be initiated.

BUDGET REQUEST

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|------------------------|----------------|
| Plot Maintenance | \$ 300.00 |
| Labor | 2600.00 |
| Travel | 1700.00 |
| Supplies and Equipment | <u>2000.00</u> |
| Total | \$6600.00 |