Contents

- Preface | xi
- Introduction | 1
- 1. The Challenge for Agriculture and the Emergence of Agricultural Research | 9
- 2. Birth of the Land-Grant College and Its Impact on Agricultural Research | 18
- 3. Institutionalization of Agricultural Research | 26
- 4. Changing Paradigms in Agriculture | 55
- 5. Recent Paradigm Changes in Agriculture | 80
- 6. Success of Agricultural Research | 99
- 7. Beneficiaries of Agricultural Research | 125
- 8. Return on Investment in Agricultural Research | 134
- 9. Challenges in Agricultural Research | 148
- 10. Federal Funding for Research: Agricultural versus Other Research Programs | 172
- 11. Responsibilities and Expectations of Selected Groups for Agricultural Research | 209
- 12. Publicly and Privately Funded Agricultural Research | 232
- 13. An International Perspective on Agricultural Research | 247
- 14. A gricultural Research and the Future of Our Civilization $\parallel 257$
- Notes | 289
- Bibliography | 295
- Index | 309