

NORMAN E. BORLAUG

A Bibliography of Papers and Publications

BEST AVAILABLE COPY

The International Maize and Wheat Improvement Center (CIMMYT) is an internationally funded, nonprofit scientific research and training organization. Headquartered in Mexico, the Center is engaged in a worldwide research program for maize, wheat, and triticale, with emphasis on food production in developing countries. It is one of 13 nonprofit international agricultural research and training centers supported by the Consultative Group on International Agricultural Research (CGIAR), which is sponsored by the Food and Agriculture Organization (FAO) of the United Nations, the International Bank for Reconstruction and Development (World Bank), and the United Nations Development Programme (UNDP). Donors to the CGIAR system are a combined group of 40 donor countries, international and regional organizations, and private foundations.

CIMMYT receives core support through the CGIAR from a number of sources, including the international aid agencies of Australia, Austria, Brazil, Canada, China, Denmark, Federal Republic of Germany, Finland, France, India, Ireland, Italy, Japan, Mexico, the Netherlands, Norway, the Philippines, Spain, Switzerland, the United Kingdom, and the USA, and from the European Economic Commission, Ford Foundation, Inter-American Development Bank, OPEC Fund for International Development, UNDP, and World Bank. CIMMYT also receives non-CGIAR extra-core support from Belgium, the International Development Research Centre, the Rockefeller Foundation, and many of the core donors listed above.

Responsibility for this publication rests solely with CIMMYT.

Correct Citation: Borlaug, N.E. 1988. Norman E. Borlaug: A Bibliography of Papers and Publications. Mexico, D.F.: CIMMYT.

ISBN 968-6127-27-5

Contents

Contenido

- v **Acknowledgements**
Agradecimientos
- 1 **Introduction**
Introducción
- 3 **Agriculture -- General Aspects**
Agricultura -- Aspectos Generales
- 7 **Agricultural Research**
Investigación Agrícola
- 7 **Education**
Educación
- 8 **Agricultural Economics,
Development, and Rural Sociology**
Economía, Desarrollo Agrícola y Sociología Rural
- 20 **Trade, Marketing, and Distribution**
Comercio, Mercadeo y Distribución
- 22 **Plant Science and Production**
Ciencia y Producción Vegetal
- 32 **Seed Production**
Producción de Semillas

- 32 Fertilizing**
Fertilización
- 33 Plant Genetics and Breeding**
Genética Vegetal y Fitomejoramiento
- 42 Plant Taxonomy and Geography**
Taxonomía Vegetal y Distribución Geográfica de las Plantas
- 42 Pests of Plants**
Plagas de las Plantas
- 43 Plant Diseases**
Enfermedades de las Plantas
- 50 Miscellaneous Plant Disorders**
Trastornos Misceláneos de las Plantas
- 50 Agricultural Machinery and Engineering**
Maquinaria e Ingeniería Agrícola
- 51 Nature Conservation and Land Resources**
Recursos Naturales y Medio Ambiente
- 51 Food Science and Technology**
Ciencia y Tecnología de los Alimentos
- 52 Pollution**
Contaminación

Acknowledgements

The staff of CIMMYT's Scientific Information Unit prepared this bibliography for publication under the direction of Edith Hesse de Polanco. The project was coordinated by Laura Villarreal. Margarita Perez cataloged the entries, and Kelly Cassaday of Information Services formatted the text. Miguel Mellado and his staff in Design took charge of graphics and production.

Agradecimiento

Esta publicación fue preparada por el personal de la Unidad de Información Científica. El trabajo fue dirigido por Edith Hesse de Polanco y coordinado por Laura Villarreal. La catalogación fue efectuada por Margarita Pérez y la edición final por Kelly Cassaday, Servicios de Información. Miguel Mellado y el personal del Departamento de Diseño se encargaron de las gráficas y la producción.

Introduction

Dr. Norman E. Borlaug arrived in Mexico in 1943 to begin the research that was to be recognized with the Nobel Peace Prize in 1970. Borlaug's work in wheat improvement offered the possibility that the cycle of hunger and poverty characteristic of so many parts of the Third World could be broken. His lifelong concern for agricultural development and human welfare is reflected in the publications listed in this bibliography of his collected papers.

The Norman E. Borlaug Collection is available at the library of the International Maize and Wheat Improvement Center (CIMMYT). The first compilation of Borlaug's papers was made by Mrs. Catharina D.J. Kingma-Felius, who carried out the tremendous task of gathering together numerous widely dispersed publications. Her bibliographic endeavor has made a significant contribution to this publication. Staff of CIMMYT's Scientific Information Unit finished assembling the publications and developed this bibliography, which is arranged by subject and year using the classification of the International Information System for the Agricultural Sciences and Technology (AGRIS). It is hoped that the bibliography will provide the reader with a greater understanding of Borlaug's role in agricultural development worldwide.

Scientific Information Unit
Mexico 1988

Introducción

El Dr. Norman E. Borlaug llegó a México en 1943 para iniciar una investigación que más tarde se reconocería con el Premio Nobel de la Paz en 1970. El trabajo del Dr. Borlaug sobre el mejoramiento del trigo ofreció la posibilidad de romper el ciclo de hambre y pobreza característico en muchas partes del Tercer Mundo. Su preocupación por el desarrollo agrícola y el bienestar humano se refleja en las publicaciones enlistadas en esta bibliografía de sus obras completas.

Es posible obtener la Colección Norman E. Borlaug en la biblioteca del Centro Internacional de Mejoramiento de Maíz y Trigo (CIMMYT). La Sra. Catharina D.J. Kingma-Felius realizó la primera compilación de las obras del Dr. Borlaug, y llevó a cabo la difícil tarea de reunir un extenso número de publicaciones dispersas. Su esfuerzo ha constituido una importante contribución a esta publicación. El personal de la Unidad de Información Científica del CIMMYT terminó de recopilar las publicaciones y elaboró esta bibliografía, que está organizada por tema y año utilizando la clasificación del Sistema Internacional de Información sobre Ciencias y Tecnología Agrícolas (AGRIS). Se espera que la bibliografía proporcione al lector un mejor entendimiento del papel que desempeñó el Dr. Borlaug en el desarrollo agrícola mundial.

Unidad de Información Científica
México 1988

Agriculture -- General Aspects

Agricultura -- Aspectos Generales

1. Borlaug, N.E. 1965. Talk given by Dr. Norman E. Borlaug to commemorate the Gregor Mendel centennial. Mexico: Universidad Nacional Autónoma de México. 33 pp. (B5644-R).
2. Borlaug, N.E. 1967. The world protein requirements and the improvement of the nutritional properties of cereal proteins through genetic manipulation. Paper presented at the Joint Malnutrition Panel Conference, 5-7 Feb., 1967, Tokyo, Japan. 1 p. (B5652-R).
3. Borlaug, N.E. 1971. Advancement in wheat production through international cooperation. Theme of convocation address to be delivered at the 8th convocation of the U.P. Agricultural University on 16 Mar. 1971. Pantnagar, India: University of Agriculture and Technology. 11 pp. (B5709-R).
4. Borlaug, N.E. 1970. The green revolution, peace and humanity. Speech delivered at the presentation of the Nobel Peace Prize at Oslo University, 1970. 28 pp. (B5703-R).
5. Borlaug, N.E. 1970. *Den grønne revolusjon: korneteforedlingen og dens betydning for verdens matforsyning*. Oslo: Cappelen's Forlag. 70 pp. (B5704-R).
6. Borlaug, N.E. 1971. The green revolution: For bread and peace. *Bulletin of the Atomic Scientists* Jun. 6-9: 42-48. (B5711-R).

7. Borlaug, N.E. 1971. *La humanidad y la civilización en otra emergencia*. Disertación de 1971 en memoria de McDougall. Rome: Food and Agricultural Organization of the United Nations. 30 pp. (B5712-R).
8. Borlaug, N.E. 1971. *L'humanité et la civilisation devant une nouvelle croisée de chemins*. Conférence McDougall. Rome: Food and Agricultural Organization of the United Nations. 28 pp. (B5713-R).
9. Borlaug, N.E. 1971. *Mankind and civilization at another crossroad*. 1971 McDougall Memorial Lecture. Rome: Food and Agricultural Organization of the United Nations. 73 pp. (B5714-R).
10. Borlaug, N.E. 1971. *No time to relax*. Coromandel Lecture. New Delhi: Coromandel Fertilizer. 18 pp. (B5715-R).
11. Borlaug, N.E. 1972. *Aceptación del premio Nobel de la Paz 1970*. CIMMYT Serie de Reimpresos y Traducciones No. 3. Mexico: CIMMYT. (B5726-R).
12. Borlaug, N.E. 1972. *The green revolution, peace and humanity*. Speech delivered upon receipt of the 1970 Nobel Prize. Oslo, Norway, 1970. CIMMYT Reprint and Translation Series No. 3. Mexico: CIMMYT. 37 pp. (B5732-R).
13. Borlaug, N.E. 1972. *Nobel Peace Prize acceptance, 1970*. CIMMYT Reprint and Translation Series No. 3. Mexico: CIMMYT. (B5735-R).

14. Borlaug, N.E. 1972. *En conmemoración por el paz y la humanidad.* Conferencia pronunciada en ocasión de la recepción del Premio Nobel de la Paz. Oslo, Noruega, 1970. CIMMYT Reprint and Translation Series No. 3, Mexico: CIMMYT. 34 pp. (B5738-R).
15. Borlaug, N.E. 1972. World hunger and world order. Paper presented at the Symposium held at the University of Iowa, Ames, IA. 66 pp. (B5744-R).
16. Borlaug, N.E. 1973. Challenges remain. The naked ape is far from finished. Commencement address. New Mexico State University, Las Cruces, NM. 21 pp. (B5746-R).
17. Borlaug, N.E. 1975. Conferencia del Dr. Norman E. Borlaug. Exposición Internacional del Campo. Confederación Europea de la Agricultura, Zaragoza, Spain. 12 pp. (B5771-R).
18. Borlaug, N.E. 1977. Acceptation speech by Norman E. Borlaug upon being awarded America's Third Century Achievers Award in the field of agriculture. Society of American Foresters Convention, Albuquerque, NM. 5 pp. (B5783-R).
19. Borlaug, N.E. 1979. Fifty years of progress in Indian agricultural research and production. ICAR Golden Jubilee International Symposium on Agricultural Research and Education Systems, New Delhi, India. 18 pp. (B5794-R).
20. Borlaug, N.E. 1979. Role of agricultural research in conquest of hunger. In *Proceedings of the ICAR Golden Jubilee International Symposium on Agricultural Research and Education Systems*, New Delhi, India. Pp. 41-55. (B5795-R).

21. Borlaug, N.E. 1980. Acceptance of the 1980 Jefferson Award in the category of greatest public service performed by a private citizen. Washington, D.C.: American Institute for Public Service. 5 pp. (B5798-R).
22. Borlaug, N.E. 1980. Testimony of Dr. Norman E. Borlaug before the House of Representatives Committee on Agriculture. 15 Sep. Unpublished draft. 5 pp. (B5804-R).
23. Borlaug, N.E. 1981. Commencement address by Dr. Norman E. Borlaug. State University Graduate Ceremonies, Columbus, OH. 24 pp. (B5808-R).
24. Borlaug, N.E. 1982. Food in the West. Paper presented before the Western Governors Association, 2-5 Jun., 1982. Glendon Beach, OR. 31 pp. (B5815-R).
25. Borlaug, N.E. 1982. Land use, food, energy and recreation. Public lecture given at the Aspen Institute for Humanistic Studies, 7 July 1982, Aspen, CO. 15 pp. (B5816-R).
26. Borlaug, N.E. 1985. Agriculture in the Third World: Views. *Illinois Research*, Winter 1985: 25-27. (B5822-R).
27. Borlaug, N.E. 1985. Making institutions work: A scientist's viewpoint. Paper presented at the Conference on Water and Water Policy, 27-30 May, 1985, Texas A & M University, College Station, TX. 80 pp. (B5823-R).

28. Borlaug, N.E. 1985. Accelerating agricultural research and production in the Third World: A scientist's viewpoint. York Distinguished Lecturer Series, 10-12 Sep., 1985. University of Florida, Gainesville, FL. 27 pp. (B5824-R).
29. Borlaug, N.E., and C.R. Dowsell. 1986. World revolution in agriculture. Unpublished draft. 47 pp. (B5831-R).

Agricultural Research

Investigación Agrícola

30. Borlaug, N.E. 1977. The need for agricultural research. Paper presented at the Agricultural Research Conference, Virginia Polytechnic Institute and State University, 19-21 Oct., Richmond, VA. 26 pp. (B5785-R).
31. Borlaug, N.E. 1987. Accomplishments in maize and wheat productivity. In *The Future Development of Maize and Wheat in the Third World*. Mexico: CIMMYT. Pp. 2-26. (B5826-R).

Education

Educación

32. Borlaug, N.E. 1962. United States scientists abroad in a world of turmoil. Talk given at Minneapolis, MN. Unpublished draft. 18 pp. (B5625-R).

Agricultural Economics, Development, and Rural Sociology

Economía, Desarrollo Agrícola y Sociología Rural

33. Borlaug, N.E. 1966. Food production in a fertile world. Unpublished draft. 34 pp. (B5681-R).
34. Borlaug, N.E. 1968. The agricultural revolution and its administration. Unpublished draft. 24 pp. (B5677-R).
35. Borlaug, N.E., and the Instituto Nacional de Tecnología Agropecuaria [INTA, Argentina]. 1968. The INTA coordinated wheat research and production program. Mexico: CIMMYT. 36 pp. (B5683-R).
36. Borlaug, N.E. 1968. National production campaigns. In *Strategy for the Conquest of Hunger: Proceedings of a Symposium Convened by the Rockefeller Foundation*. New York: Rockefeller Foundation. Pp. 98-101. (B5684-R).
37. Borlaug, N.E., and I. Narváez M. 1969. The green revolution in Pakistan is not dead. Unpublished draft. 15 pp. (B5694-R).
38. Borlaug, N.E., I. Narváez M., O. Aresvik, and R.G. Anderson. 1969. A green revolution yields a golden harvest. *Columbiana Journal of World Business* 4(5): 9-19. (B5695-R).
39. Borlaug, N.E. 1969. *Mejoramiento del trigo: su impacto en el aumento sustancial de alimentos*. CIMMYT Serie de Traducciones y Sobretiros No. 2. Mexico, CIMMYT. 40 pp. (B5696-R).

40. Borlaug, N. E., and I. Narváez M. 1969. The Wheat Improvement Program of West Pakistan: A progress report. Lahore: Ford Foundation. 21 pp. (B5699-R).
41. Aresvik, O. H., and N. E. Borlaug. 1970. The approach for agricultural development that initiated the "Green Revolution" and some of its economic implications. Beirut: Ford Foundation. 38 pp. (B5701-R).
42. Borlaug, N. E. 1970. El futuro de la agricultura comercial en México. *México Científico* 12(153): 13-17. (B5702-R).
43. Borlaug, N. E. 1971. *The population explosion and the green revolution*. Hearings before a Subcommittee of the Committee on Appropriations, Washington, D.C.: U.S. Government Printing Office. 22 pp. (B5716-R).
44. Borlaug, N. E. 1971. Alguns conceitos sobre o sucesso da revolução verde. *Boletim Agrícola de Angola* 16(1): 3,5,7,8. (B5720-R).
45. Borlaug, N. E. 1971. Some thoughts of a Nobel winner. *War on Hunger: A Report from the Agency for International Development* 5(2): 1,19. (B5721-R).
46. Borlaug, N. E. 1971. Sustaining and advancing the green revolution. Pakistan Wheat Improvement Seminar, Punjab Agricultural Research Institute, Lyallpur, Pakistan. 10 pp. (B5722-R).

47. Borlaug, N.E. 1971. The world food problem -- present and future. In *Shaping the Future: A discussion of the 1971 Nobel Conference*. Gustavus Adolphus College, St. Peter, MN. Pp. 19-38. (B5723-R)
48. Borlaug, N.E. 1971. World food production for the future. Paper presented at the 25th Anniversary of the Hospital de la Nutrición, 1971, Mexico. 20 pp. (B5724-R).
49. Borlaug, N.E. 1971. Y el desierto florecerá como la rosa. *Agro-Síntesis* 1(1): 5. (B5725-R).
50. Borlaug, N.E. 1971. Genetic improvement of cereal grains. In *Selection of Alternative Strategies for Meeting Protein Needs. Proceedings of the Third Western Hemisphere Nutrition Congress*, 1971, Miami Beach, FL. Pp. 28-32. (B5730-R).
51. Borlaug, N.E. 1972. Evolve or perish -- the challenge of change. *War on Hunger: A Report from the Agency for International Development* 4(2): 2-4, 17-18. (B5729-R).
52. Borlaug, N.E. 1972. Human population, food demands and wildlife needs. North American Wild Life and Natural Resources Conference, 12-15 Mar., 1972, Washington, D.C. (B5733-R).
53. Borlaug, N.E. 1972. Man and nature. *The New York Times*, 20 Apr. 1972. P. 25. (B5734-R).

54. Borlaug, N.E. 1972. Pakistan's unexploited agricultural potential: Report for the Honorable Malik Khuda Baksh Bucha, Special Assistant for Agricultural Affairs to the President of Pakistan, Mexico: CIMMYT. 32 pp. (B5736-R).
55. Borlaug, N.E. 1972. Population -- a world crisis. *The New York Times*, 30 Apr. 1972. P. 4. (B5737-R).
56. Borlaug, N.E. 1972. La "Revolución Verde" y después. *Facetas* 5(1): 22-31. (B5739-R).
57. Borlaug, N.E. 1972. Scientific facts versus emotional fancy on the clean environment and food production fronts: Publish or perish. Paper presented at the International Meeting of the American Phytopathological Society, 1972, Mexico. 63 pp. (B5740-R).
58. Borlaug, N.E. 1973. Agricultural science and the public. Ames, IA: Council for Agricultural Science and Technology. 14 pp. (B5745-R).
59. Borlaug, N.E. 1973. CIMMYT's past role, present position and future challenges. In *Proceedings of the Wheat, Triticale and Barley Seminar*, Mexico: CIMMYT. Pp. 89-98. (B5747-R).
60. Borlaug, N.E. 1973. Norman E. Borlaug: Civilization's future--a call for international granaries. *Science and Public Affairs* Oct. 1973: 7-15. (B5748-R).

61. Borlaug, N.E. 1973. Civilization's future -- Was Malthus correct? Paper presented at the AAAS-CONACYT Meeting. Science and Man in the Americas. 1973. Mexico. 57 pp. (B5749-R).
62. Borlaug, N.E. 1973. Food and population growth. In *Proceedings of the International Mineral Corporation Conference*. 8 Nov., San Salvador, El Salvador. Pp. 95-97. (B5750-R).
63. Borlaug, N.E. 1973. The green revolution -- an approach to agricultural development and some of its economic implications. *International Journal of Agrarian Affairs* 5(6): 385-403. (B5751-R).
64. Borlaug, N.E. 1973. International agriculture's progress -- everyone's responsibility. In *Proceedings of the O.A. Vogel Honorary Symposium on Wheat in this Changing World*. Pullman, WA: Washington State University. Pp. 31-42. (B5752-R).
65. Borlaug, N.E. 1973. El papel de la agricultura y la ganadería en el desarrollo de la economía interna y de exportación de Argentina. Mexico: CIMMYT. 43 pp. (B5753-R).
66. Borlaug, N.E. 1973. Testimony before the U.S. Senate. 93rd Congress Senate Committee on Food and Agriculture Joint Hearings of the Subcommittee on Forest Agricultural Policy and Subcommittee on Agricultural Production, Marketing, and Stabilization of Prices. 17 Oct. 41 pp. (B5755-R).

67. Borlaug, N.E. 1974. Can we stave off world disaster by feeding the hungry -- until we can tame the population monster? Governor Winthrop Rockefeller Distinguished Lecture Series. Little Rock, AR: University of Arkansas. 45 pp. (B5756-R).
68. Borlaug, N.E. 1974. The destiny of man and world civilization. Governor Winthrop Rockefeller Distinguished Lecture Series. Little Rock, AR: University of Arkansas. 45 pp. (B5757-R).
69. Borlaug, N.E. 1974. *Evolucionar o perecer*. CIMMYT Traducciones y Sobretiros No. 5. Mexico: CIMMYT. 30 pp. (B5759-R).
70. Borlaug, N.E. 1974. *National nutrition policy study -- 1974. Part 1. Famine and the world situation*. Hearings before the Select Committee on Nutrition and Human Needs. U.S. Senate 93rd Congress, 2nd Session. Washington, D.C.: GPO. Pp. 21-42. (B5760-R).
71. Borlaug, N.E. 1974. *Población humana, demanda alimentaria y necesidades de la fauna y la flora*. CIMMYT Traducciones y Sobretiros No. 6. Mexico: CIMMYT. 10 pp. (B5761-R).
72. Borlaug, N.E. 1974. *La producción de alimentos a nivel mundial para el futuro*. CIMMYT Traducciones y Sobretiros No. 9. Mexico: CIMMYT. 9 pp. (B5763-R).
73. Borlaug, N.E. 1974. La revolución verde: Paz y humanidad. I parte. *Boletín ANDSA* 4(38): 3-5. (B6840-R).

74. Borlaug, N.E. 1974. Los catalizadores de la revolución verde. II parte. *Boletín ANDSA* 4(39): 5-7. (B5765-R).
75. Borlaug, N.E. 1974. La investigación: Base de la revolución verde. III parte. *Boletín ANDSA* 4(41): 4-5. (B5766-R).
76. Borlaug, N.E. 1974. Los institutos internacionales y la revolución verde. IV parte. *Boletín ANDSA* 4(41): 4-5. (B5767-R).
77. Borlaug, N.E. 1974. La revolución verde. V parte. *Boletín ANDSA* 4(42): 6. (B6841-R).
78. Borlaug, N.E. 1974. La revolución verde. VI parte. *Boletín ANDSA* 4(43): 6. (B6842-R).
79. Borlaug, N.E. 1974. La revolución verde. VII parte. *Boletín ANDSA* 4(44): 6-7. (B6843-R).
80. Borlaug, N.E. 1975. Food and our future: A conversation with Dr. Norman E. Borlaug. Minneapolis, MN: Inter-Regional Financial Group. 11 pp. (B5773-R).
81. Borlaug, N.E. 1975. A review by N.E. Borlaug of the report. "The social and economic implications of large scale introductions of new varieties of food grain, country report: Mexico". by Cynthia Hewitt de Alcántara. Mexico: CIMMYT. 18 pp. (B5775-R).

82. Borlaug, N.E. 1975. The role of food in the destiny of civilization. Paper presented at the Atlanta Symposium of the Albert Schweitzer Centenary, 7 Apr., Atlanta, GA. 32 pp. (B-5777-R).
83. Borlaug, N.E. 1975. The urgency for developing coordinated programs to mobilize the world land resources to meet the rapidly growing needs for food, fiber, forest products, watershed production, wildlife, and recreation. Mexico: CIMMYT. 46 pp. (B5778-R).
84. Borlaug, N.E. 1976. The fight against hunger. H.K. Hayes Memorial Lecture, 19-20 Jan., 1976. University of Minnesota, St. Paul, MN. 36 pp. (B5779-R).
85. Borlaug, N.E. 1976. Food production for a growing population of four billion. *Vorträge auf dem Hohenheimer Universitätstag 1976, Heft 89 (Sonderdruck)*. Pp. 53-69. (B5780-R).
86. Borlaug, N.E. 1976. The green revolution: Can we make it meet expectations? In *Proceedings of the American Phytopathological Society* 3:6-31. (B5781-R).
87. Borlaug, N.E. 1977. Forests for people: A challenge in world affairs, why the challenge? In *Proceedings of the National Convention of The Society of American Foresters, 1977*, Albuquerque, NM. Pp. 1-14. (B5784-R).
88. Borlaug, N.E. 1977. Striving for peace in our time. Norwegian Nobel Committee Peace in Our Time, Mar., 1977, Oslo, Norway. 24 pp. (B5786-R).

89. Borlaug, N.E. 1978. Food production in a fertile, unstable world. Third World Food Institute Lecture. Iowa State University, Ames, IA. 11 pp. (B5787-R).
90. Borlaug, N.E. 1978. The magnitude and complexities of producing and distributing equitably the food required for a population of four billion which continues to grow at a frightening rate. Keynote address presented at the Fifth International Wheat Genetics Symposium, New Delhi, India. 59 pp. (B5788-R).
91. Borlaug, N.E. 1978. Pakistan's wheat: An enigma. *Progressive Farming* 1:7-14. (B5789-R).
92. Borlaug, N.E. 1979. Civilization will depend more upon flourishing crops than on flowery rhetoric. Paper presented at the Symposium on History of Agricultural Science and Technology, Kansas State University, 20 Mar., Manhattan, KS. 13 pp. (B5791-R).
93. Borlaug, N.E. 1979. Exploiting plants to meet world food needs. Mexico: CIMMYT. 52 pp. (B5792-R).
94. Borlaug, N.E. 1979. Increasing food production is essential but providing greater stability to production is equally important. Paper presented at the banquet of the Second Plant Breeding Symposium, Iowa State University, 14 Mar., Ames, IA. 26 pp. (B5796-R).

95. Borlaug, N.E. 1979. The magnitude and challenge of the problem of providing food for a world population of eight billion by the year 2015 or 2035. Paper presented at the World Food and Population Congressional Round Table, Washington D.C. 11 pp. (B5797-R).
96. Borlaug, N.E. 1980. Agricultura y población. 9o Congreso de Consorcios Regionales de Experimentación Agrícola, Mar del Plata, Argentina. 64 pp. (B5799-R).
97. Borlaug, N.E. 1980. Agriculture and population. 9o Congreso de Consorcios Regionales de Experimentación Agrícola, Mar del Plata, Argentina. (B5800-R).
98. Borlaug, N.E. 1980. Breaking production barriers. Keynote address presented at the 16th International Minerals and Chemicals Latin American Food Production Conference, 19-24 Oct., Haines, FL. 74 pp. (B5801-R).
99. Borlaug, N.E., R.G. Anderson, and E. W. Sprague. 1980. The human population monster. Mexico: CIMMYT. 3 pp. (B5802-R).
100. Borlaug, N.E. 1980. La participación de los productores en el apoyo a la investigación agrícola: El modelo Sonora. Paper presented at the Centro de Investigaciones Agrícolas del Noroeste 25 Aniversario, Cd. Obregón, Mexico. 14 pp. (B5803-R).

101. Borlaug, N.E. 1981. A choice for mankind: Adequate food production with equitable distribution, or hunger and poverty for millions with growing world wide social, economic and political chaos. Tokyo University of Agriculture Special Lecture. Tokyo, Japan. 47 pp. (B5806-R).
102. Borlaug, N.E. 1981. A choice for mankind: Adequate food production with equitable distribution, or hunger and poverty for millions. First Sterling B. Hendricks Lecture. American Chemical Society Meeting, 24 Aug. 1981, New York City. 29 pp. (B5807-R).
103. Borlaug, N.E. 1981. Increasing and stabilizing food production. In *Plant Breeding II*. Pp. 467-492. (B5809-R).
104. Borlaug, N.E. 1982. Agricultural high-yield technology and human progress. Paper presented at the Controversial Topics Symposium, sponsored by Agricultural and Food Chemistry, a division of the American Chemical Society, 13-17 Sep. 1982. Kansas City, KS. 28 pp. (B5812-R).
105. Borlaug, N.E. 1982. *Feeding mankind in the 1980s: The role of international agricultural research*. Paper presented at the Third Annual Agricultural Sector Symposium, The World Bank, 5 Jan., Washington, D.C. CIMMYT Reprint. Mexico: CIMMYT. 33 pp. (B5813-R).

106. Borlaug, N.E. 1982. Feeding the world during the next doubling of the world population. In *Chemistry and World Food Supplies: The New Frontiers CHEMRAWN II. Perspectives and Recommendations*. Ed. G. Bixler and L.W. Shemilt. Los Baños: International Rice Research Institute. Pp. 133-158. (B5814-R).
107. Borlaug, N.E. 1982. The status of the Polish agricultural and food situations during early April, 1982. México: CIMMYT. 45 pp. (B5818-R).
108. Hanson, H., N.E. Borlaug, and R.G. Anderson. 1982. *Wheat in the Third World*. IADS Development-Oriented Literature Series. Boulder: Westview Press. 174 pp. (B338.131 HAN).
109. Borlaug, N.E. 1983. Science and the conquest of hunger. Bharat Vidya Bhawan Fourth Lecture in the Prestigious Memorial Bajaj Endowed Lecture Series. 7-18 Nov., Bombay, India. 45 pp. (B5820-R).
110. Borlaug, N.E., and M.A. McMahon. 1984. The role of the agricultural sector in the economic recovery of Argentina. Unpublished draft. 31 pp. (B5821-R).
111. Borlaug, N.E., and M.A. McMahon. 1985. El papel del sector agropecuario en la reactivación de la economía Argentina. Buenos Aires: Instituto Nacional de Tecnología Agropecuaria. 19 pp. (B5821-R).
112. Borlaug, N.E. 1985. Talk given at the University of Arizona 100th Anniversary Ceremonies. 22 Sep. 1985. Tucson, AZ. 20 pp. (B5877-R).

113. Borlaug, N.E. 1985. The magnitude and complexities of world food problems during the next doubling of population. The Nathaniel H. Grace Lectureship in Agriculture. University of Alberta, Edmonton, Canada. 14 pp. (B5878-R).
114. Borlaug, N.E. 1985. The magnitude and complexities of world food problems during the next doubling of population. Edmonton: University of Alberta. 28 pp. (B5764-R).
115. Borlaug, N.E. 1986. Plant breeding goals and strategies for the 1980s. In *Handbook of Plant Cell Culture*, v. 4. Pp. 3-11. (B6295-R).

Trade, Marketing, and Distribution *Comercio, Mercadeo, y Distribución*

116. Aresvik, O.H., I. Narváez M., and N.E. Borlaug. 1969. Comments on J. Wallace Madill report, "Wheat marketing in Pakistan, an appraisal of prospects and requirements." Lahore: The Planning Cell, Agriculture Department. 24 pp. (B5692-R).
117. Borlaug, N.E., and O.H. Aresvik. 1969. Exports and foreign exchange implications of the new grain varieties. Unpublished draft. 26 pp. (B5693-R).
118. Borlaug, N.E. 1982. Search of marketing technology to fit the green revolution. Paper presented at the Workshop on the Role of Marketing as a Tool of Socio-economic Development. Society for International Development, 18-22 Jul. 1982. Baltimore, MD. 25 pp. (B5817-R).

Plant Science and Production

Ciencia y Producción Vegetal

119. Borlaug, N.E., and J.A. Rupert. 1949. *Métodos que pueden aumentar la producción de trigo en México*. Folleto de Divulgación No. 4. Mexico: Oficina de Estudios Especiales. (B5547-R).
120. Borlaug, N.E., J.A. Rupert, C. Ortega B., A. Marino A., and C. Cavazos G., 1950. *El trigo como cultivo de verano en los Valles Altos de México*. Folleto de Divulgación No. 10. Mexico: Oficina de Estudios Especiales. (B5553-R).
121. Borlaug, N.E. 1952. Research on wheat and other small grains in South America. Unpublished draft. 24 pp. (B5556-R).
122. Borlaug, N.E., J. Rodríguez V., A. Acosta C., and J. Loredó G. 1955. *Recomendaciones para el cultivo del trigo en la región del Bajío ciclo 1955-56*. Boletín de Extensión Agrícola E-T3. Mexico: Secretaría de Agricultura y Ganadería. Dirección General de Agricultura. Oficina de Estudios Especiales. 7 pp. (B5570-R).
123. Borlaug, N.E., J. Rodríguez V., A. Acosta C., and J. Loredó G. 1955. *Recomendaciones para el cultivo del trigo ciclo 1955-56, región de la Laguna*. Boletín de Extensión Agrícola Et 4. Mexico: Secretaría de Agricultura y Ganadería. Dirección General de Agricultura. Oficina de Estudios Especiales. 8 pp. (B5571-R).

124. Borlaug, N.E., A. Acosta C., and J. Rodríguez V. 1955. *Recomendaciones para el cultivo del trigo ciclo 1955-56 en los Valles Altos de la Mesa Central y del Norte de México*. Boletín de Extensión Agrícola Et 5. Mexico: Secretaría de Agricultura y Ganadería, Dirección General de Agricultura, Oficina de Estudios Especiales. 7 pp. (B5572-R).
125. Borlaug, N.E., J. Rodríguez V., A. Acosta C., and J. Loredó G. 1955. *Trigo. Recomendaciones para su cultivo en el Noroeste ciclo 1955-56*. Boletín de Extensión Agrícola E-T2. Mexico: Secretaría de Agricultura y Ganadería, Dirección General de Agricultura, Oficina de Estudios Especiales. 1 p. (B5573-R).
126. Borlaug, N.E., R.J. Laird, N. Sánchez D., J. Ortega C., J. Rodríguez V., J. Salazar T., and D. Barnes. 1956. *Recomendaciones para el cultivo del trigo en la región del Bajío ciclo 1956-57*. Boletín de Extensión Agrícola No. 326. Mexico: Secretaría de Agricultura y Ganadería, Dirección General de Agricultura, Oficina de Estudios Especiales. 18 pp. (B5581-R).
127. Ortega C., B., J. Rodríguez V., J. Salazar T., N.E. Borlaug, and J. Ortega C. 1956. *Recomendaciones para el cultivo del trigo en la Comarca Laguna ciclo 1955-57*. Boletín de Extensión Agrícola No. 328. Mexico: Secretaría de Agricultura y Ganadería, Dirección General de Agricultura, Oficina de Estudios Especiales. 12 pp. (B5582-R).

128. Acosta C., A., J. Ortega C., N.E. Borlaug, L. Gleason, F. Pacheco, J. Rodríguez V., and J. Salazar T. 1956. *Recomendaciones para el cultivo del trigo en la Costa Noroeste del Pacífico ciclo 1956-57*. Boletín de Extensión Agrícola No. 327. Mexico: Secretaría de Agricultura y Ganadería, Dirección General de Agricultura, Oficina de Estudios Especiales. 22 pp. (B5583-R).
129. Borlaug, N.E. 1956. Recomendaciones para el cultivo del trigo, región del Bajío. *El Campo* 23:62-66, 69-70, 72-74. (B6839-R).
130. Borlaug, N.E., R. Laird, N. Sánchez D., J. Ortega C., J. Rodríguez V., J. Salazar T., and D. Barnes. 1956. *Recomendaciones para el cultivo del trigo región del Bajío ciclo 1956-57*. Boletín de Extensión Agrícola. Mexico: Secretaría de Agricultura y Ganadería, Dirección General de Agricultura, Oficina de Estudios Especiales. 18 pp. (B5584-R).
131. Borlaug, N.E., R.J. Laird, and N. Sánchez D. 1956. *Recomendaciones para el cultivo del trigo ciclo 1956-57 en los Valles Altos de la Mesa Central y el Norte de México*. *Tierra* 11(10): 865-67, 914-16. (B5585-R).
132. Ortega C., B., J. Rodríguez V., J. Salazar T., N.E. Borlaug, and J. Ortega C. 1957. *Recomendaciones para el cultivo del trigo en la Comarca Lagunera ciclo 1957-58*. Boletín de Extensión Agrícola. Mexico: Oficina de Estudios Especiales. 13 pp. (B5592-R).

133. Campos T., A., A. García S., E. Garza F., F. Curiel V., I. Narváez M., J. Rodríguez V., J. Salazar T., N.E. Borlaug, N. Sánchez D., R.J. Laird, and S. Aguilar. 1957. *Recomendaciones para el cultivo del trigo en la Costa Noroeste del Pacífico ciclo 1957-58*. Boletín de Extensión Agrícola. Mexico: Oficina de Estudios Especiales. 22 pp. (B5593-R).
134. Borlaug, N.E., A. Campos T., S. Chávez R., F. Curiel V., S. Espino T., R. Hernández S., R.J. Laird, I. Narváez M., F. Puente F., J. Ramírez C., R. Rodríguez R., J. Rodríguez V., J. Salazar T., and E. Sobral de Goes. 1957. *Recomendaciones para el cultivo del trigo en la Región del Bajío ciclo 1957-58*. Mexico: Oficina de Estudios Especiales. 19 pp. (B5594-R).
135. Borlaug, N.E., A. Campos T., S. Chávez R., F. Curiel V., S. Espino T., E. Garza F., R. Hernández S., R.J. Laird, I. Narváez M., M. Navarro F., R. Nuñez E., F. Puente F., J. Rodríguez V., R. Rodríguez R., M. Rendón, J. Salazar T., and W.R. Young. 1957. *Recomendaciones para el cultivo del trigo en los Valles Altos de la Mesa Central y del Norte de México ciclo 1957-58*. Boletín de Extensión Agrícola. Mexico: Oficina de Estudios Especiales. 18 pp. (B5595-R).
136. Borlaug, N.E. 1958. The impact of agricultural research on Mexican wheat production. *Transactions of the New York Academy of Sciences*. Series II 20(3): 278-95. (B5598-R).
137. Borlaug, N.E. 1958. Programa de labores en el campo agrícola experimental "El Horno", Chapingo, México. Unpublished draft. 10 pp. (B5601-R).

138. Borlaug, N.E., C. Acosta A., and J. Ortega C. 1958. *Recomendaciones para el cultivo del trigo en la Costa Noroeste del Pacífico ciclo 1958-59*. CIANO. Boletín de Extensión Agrícola No. 327. Mexico: Oficina de Estudios Especiales. 22 pp. (B5602-R).
139. Acosta A., C., J. Ortega C., N.E. Borlaug, L. Gleason, F. Pacheco, J. Rodríguez V., and J. Salazar T. 1958. *Recomendaciones para el cultivo del trigo en la región del Bajío ciclo 1958-59*. Boletín de Extensión Agrícola No. 326. Mexico: Oficina de Estudios Especiales. 21 pp. (B5603-R).
140. Borlaug, N.E., A. Campos T., and S. Chávez R. 1958. *Recomendaciones para el cultivo del trigo en los Valles Altos de la Mesa Central y del Norte de México ciclo 1957-58*. Boletín de Extensión Agrícola. Mexico: Oficina de Estudios Especiales. 18 pp. (B5604-R).
141. Borlaug, N.E., I. Narváez M., G. Vázquez G., J. Rodríguez V., H. Porras H., and A. Fernández S. 1959. *Recomendaciones para el cultivo del trigo en la Comarca Lagunera ciclo 1959-60*. Servicio de Extensión Agrícola Boletín No. 328. Mexico: Oficina de Estudios Especiales. 12 pp. (B5609-R).
142. García A., S., N. Sánchez D., N.E. Borlaug, I. Narváez M., J.A. Sifuentes, J. Rodríguez V., and A. Fernández S. 1959. *Recomendaciones para el cultivo del trigo en la Costa Noroeste del Pacífico ciclo 1959-60*. CIANO. Boletín de Extensión Agrícola No. 327. Mexico: Oficina de Estudios Especiales. 22 pp. (B5610-R).

- 20
143. Borlaug, N.E., I. Narváez M., G. Vázquez G., R.J. Laird, W.R. Young, J. Rodríguez V., and A. Fernández S. 1959. *Recomendaciones para el cultivo del trigo en la región del Bajío ciclo 1959-60*. Servicio de Extensión Agrícola Boletín No. 326. Mexico: Oficina de Estudios Especiales. 21 pp. (B5611-R).
 144. Borlaug, N.E., I. Narváez M., M. García A., R.J. Laird, W.R. Young, J. Rodríguez V., and A. Fernández S. 1960. *Recomendaciones para el cultivo del trigo en los Valles Altos de la Mesa Central y del Norte de México ciclo 1959-60*. Servicio de Extensión Agrícola Boletín No. 325. Mexico: Oficina de Estudios Especiales. 18 pp. (B5612-R).
 145. Borlaug, N.E., I. Narváez M., G. Vázquez G., J. Morales A., H. Porras H., and A. Fernández S. 1960. *Recomendaciones para el cultivo del trigo en la Comarca Lagunera ciclo 1960-61*. Servicio de Extensión Agrícola Boletín No. 328. Mexico: Oficina de Estudios Especiales. 12 pp. (B5615-R).
 146. Borlaug, N.E., I. Narváez M., G. Vázquez G., R.J. Laird, W.R. Young, J. Morales A., and J. del Toro G. 1960. *Recomendaciones para el cultivo del trigo en la región del Bajío ciclo 1960-61*. Servicio de Extensión Agrícola Boletín No. 326. Mexico: Oficina de Estudios Especiales. 21 pp. (B5616-R).
 147. Borlaug, N.E., I. Narváez M., G. Vázquez G., R.J. Laird, W.R. Young, J. Morales A., and A. Fernández S. 1960. *Recomendaciones para el cultivo del trigo en los Valles Altos de la Mesa Central y del Norte de México ciclo 1960-61*. Servicio de Extensión Agrícola Boletín No. 325. Mexico: Oficina de Estudios Especiales. 18 pp. (B5617-R).

148. Borlaug, N.E. 1961. Present status of wheat research in Latin America. Mexico: Rockefeller Foundation. 10 pp. (B5620-R).
149. Borlaug, N.E., and W.Q. Loegering. 1963. Analysis of wheat production problems in Brazil. Mexico: Rockefeller Foundation. 27 pp. (B5626-R).
150. Borlaug, N.E. 1963. Argentina wheat production and wheat research problems. Unpublished draft. 42 pp. (B5627-R).
151. Borlaug, N.E. 1963. Durum research possibilities. *The Macaroni Journal* 45(8): 30, 32. (B5629-R).
152. Borlaug, N.E., and R.J. Laird. 1963. Informe sobre el progreso de la investigación para solucionar problemas en la producción triguera de Argentina en 1962. Mexico: The Rockefeller Foundation. 21 pp. (B5630-R).
153. Borlaug, N.E. 1963. Wheat production problems in India. Unpublished draft. 27 pp. (B5631-R).
154. Borlaug, N.E. 1963. Supplement to India report: Supplementary information from the diary notes of N.E. Borlaug made during the March, 1963 trip to India, Pakistan, and Egypt. Unpublished draft. 57 pp. (B5632-R).
155. Borlaug, N.E. 1964. Reporte del progreso logrado en la investigación para solucionar los problemas inherentes a la producción de trigo en Argentina. Mexico: Rockefeller Foundation. 28 pp. (B5637-R).

156. Borlaug, N.E. 1964. Report covering research progress designed toward solving problems related to Argentina wheat production. Mexico: Rockefeller Foundation. 27 pp. (B5636-R).
157. Borlaug, N.E., and J.W. Gibler. 1964. *Progresos logrados en investigaciones en trigo en la Argentina durante 1964*. Paper presented at the Reunión Programación Trigo-Cebada Cervecera. Buenos Aires, Argentina. CIMMYT Informe Especial No. 16. Mexico: CIMMYT. 38 pp. (B5635-R).
158. Borlaug, N.E. 1964. Indian wheat research designed to increase wheat production. Mexico: Rockefeller Foundation. 24 pp. (B5634-R).
159. Borlaug, N.E. 1964. *Preliminary report of the Second Cooperative Near East-American Wheat Yield Nursery grown during 1962-63*. CIMMYT Miscellaneous Report No. 5. Mexico: CIMMYT. 33 pp. (B5828-R).
160. Borlaug, N.E. 1966. Meeting future world wheat needs. In *Proceedings of the Wheat Quality Conference*. 26 Jan., Minneapolis, MN. Pp. 15-22. (B5654-R).
161. Borlaug, N.E. 1966. *Preliminary report of the first three Inter-American and the first two Near East-American Spring Wheat Yield Nurseries*. CIMMYT Miscellaneous Report No. 1-5. Mexico: CIMMYT. 130 pp. (B5656-R).
162. Borlaug, N.E. 1966. *Preliminary report of the results of the First (1) Cooperative Inter-American Spring Wheat Yield Nursery grown during 1960-61*. Mexico: CIMMYT. 12 pp. (B5659-R).

163. Borlaug, N.E. 1966. *Preliminary reports of the Second (1961-62) and Third (1962-63) Inter-American Spring Wheat Yield Nurseries*. CIMMYT Miscellaneous Report No. 2-3. 35 pp. (B5658-R).
164. Borlaug, N.E. 1966. *Preliminary report of the Second Inter-American Spring Wheat Yield Nursery grown during 1961-62*. Mexico: CIMMYT. 12 pp. (B5659-R).
165. Borlaug, N.E. 1966. *Preliminary report of the Third Inter-American Spring Wheat Yield Nursery grown during 1962-63*. Mexico: CIMMYT. 23 pp. (B5660-R).
166. Krull, C.F., I. Narváez M., N.E. Borlaug, J. Ortega C., G. Vázquez G., R. Rodríguez R., and C. Meza. 1966. *Results of the Third Near East-American Spring Wheat Yield Nursery, 1963-1965*. CIMMYT Research Bulletin No. 5. Mexico: CIMMYT. 24 pp. (B5661-R).
167. Borlaug, N.E. 1967. New horizons in wheat production. *Progressive Farming* Mar.: 3-6. (B5673-R).
168. Borlaug, N.E., and J.W. Gibler. 1967. Progresos en investigaciones sobre trigo durante 1964. *Idia* 233-235: 195-218. (B5675-R).
169. Krull, C.F., I. Narváez M., N.E. Borlaug, J. Ortega C., G. Vázquez G., R. Rodríguez R., and C. Meza. 1967. *Results of the Fourth Inter-American Spring Wheat Yield Nursery 1963-1964*. CIMMYT Research Bulletin No. 7. Mexico: CIMMYT. 26 pp. (B5677-R).

170. Borlaug, N.E., E.C. Stakman, D.G. Baird, and A.A. Johnson. 1968. A brief report on the All-India coordinated wheat scheme. New York: Rockefeller Foundation. 8 pp. (B5680-R).
171. Borlaug, N.E., and F.F. Hill. 1968. Report on agricultural revolution to His Excellency Field Marshall Mohammed Ayub Khan, President of Pakistan. Islamabad: Ford Foundation. 12 pp. (B5686-R).
172. Krull, C.F., N.E. Borlaug, C. Meza, and I. Narváez M. 1968. *Results of the First International Spring Wheat Yield Nursery 1964-65*. CIMMYT Research Bulletin No. 8. Mexico: CIMMYT. 27 pp. (B5687-R).
173. Borlaug, N.E. 1968. *Results of the Second International Spring Wheat Yield Nursery, 1965-66*. CIMMYT Research Bulletin No. 11. Mexico: CIMMYT. 30 pp. (B5688-R).
174. Borlaug, N.E. 1968. A target reached: A report to the Government of West Pakistan on the progress achieved by the accelerated wheat improvement and production program during the 1967-68 *rabi* season. Lahore: Ford Foundation. (B5689-R).
175. Rajaram, S., B. Devecioglu, N.E. Borlaug, K.W. Finlay, G. Varughese, and E. Rodríguez. 1970. *A survey on stem rust resistance in the USDA world durum collection and in CIMMYT durum breeding lines*. CIMMYT Research Bulletin No. 14. Mexico: CIMMYT. 25 pp. (B5707-R).

176. Finlay, K.W., C.F. Krull, N.E. Borlaug, and A. Cabrera. 1970. *Results of the Third International Spring Wheat Yield Nursery, 1966-67*. CIMMYT Research Bulletin No. 15. Mexico: CIMMYT. 11 pp. (B5705-R)
177. Borlaug, N.E. 1970. Algerian wheat problems. Trip report. 10 pp. (B5700-R).
178. Zillinsky, F.J. and N.E. Borlaug. 1971. *Progress in developing triticale as an economic crop*. CIMMYT Research Bulletin No. 17. Mexico: CIMMYT. 27 pp. (B5717-R).
179. MacKenzie, D.R., A.G. Mexas, and K.W. Finlay. 1971. *Results of the Fourth International Spring Wheat Yield Nursery, 1967-1968*. CIMMYT Research Bulletin No. 18. Mexico: CIMMYT. 70 pp. (B6837-R).
180. MacKenzie, D.R., A.G. Mexas, N.E. Borlaug, and K.W. Finlay. 1971. *Results of the Fifth International Spring Wheat Yield Nursery, 1968-1969*. CIMMYT Research Bulletin No. 19. Mexico: CIMMYT. 13 pp. (B5718-R).
181. Borlaug, N.E., and F.J. Zillinsky. 1971. Search for a new food source for men: Triticale research in Mexico. *Agricultural Science Review* 9(4): 28-35. (B5719-R).
182. Borlaug, N.E. 1978. Tomorrow's green revolution: Triticale, a new food crop. In *Proceedings of the 14th Asia Pacific Food Production Conference*. Singapore. Pp. 17-33. (B5790-R).

Seed Production

Producción de Semillas

183. Borlaug, N.E. 1981. Seed: A key component in increasing food production. Paper presented at the Seed Production Symposium, 22-26 Mar., 1981, ICARDA, Aleppo, Syria. 8 pp. (B5811-R).

Fertilizing

Fertilización

184. Borlaug, N.E. 1975. Food and fertilizer are needed now. In *Proceedings of the Pre-World Food Conferences Eminent Committee Discussions*, Rome, Italy. Pp. 15-20. (B5772-R).
185. Borlaug, N.E.. 1975. El papel de los fertilizantes--especialmente nitrogenados--en el incremento de la producción mundial de alimentos. Paper presented at the 3a Reunión Regional de Trigo, Tunis, Algeria. 35 pp. (B5774-R).
186. Borlaug, N.E. 1975. The role of fertilizers--especially nitrogenous--in increasing world food production. Paper presented at the 3rd Regional Wheat Workshop, Tunis. 19 pp. (B5776-R).
187. Borlaug, N.E. 1987. La revolución verde no hubiera sido posible sin los fertilizantes. *Fertimundo* 55 (May-Jun.). (B5768-R).

Plant Genetics and Breeding
Genética Vegetal y Fitomejoramiento

188. Borlaug, N.E. 1945. El mejoramiento del trigo en México. Unpublished draft. 25 pp. (B5529-R).
189. Borlaug, N.E. 1945. *Wheat improvement program of the Oficina de Estudios Especiales*. Conferencia de la Oficina de Estudios Especiales No. 20. Mexico: Secretaría de Agricultura y Ganadería. 20 pp. (B5534-R).
190. Borlaug, N.E. 1946. Wheat improvement program. Unpublished draft. 7 pp. (B5538-R).
191. Wellhausen, E.J. 1947. *Datos sobre la mejora del trigo y del maíz en México*. Memorandum Técnico No. 10. Mexico: Secretaría de Agricultura y Ganadería, Dirección General de Distritos de Riego, División de Planeación. 17 pp. (B5539-R).
192. Borlaug, N.E. 1947. *Programa para el mejoramiento del trigo*. Conferencia de la Oficina de Estudios Especiales No. 21. Mexico: Secretaría de Agricultura y Ganadería, Oficina de Estudios Especiales. 4 pp. (B5540-R).
193. Borlaug, N.E. 1948. Programa para la mejora del trigo en México. *El Agricultor Lagunero* 2(21): 2-3, 30-31. (B5543-R).
194. Borlaug, N.E. 1948. Wheat improvement program of the Oficina de Estudios Especiales. Unpublished draft. 10 pp. (B5827-R).

195. Borlaug, N.E. and J.A. Rupert. 1949. The development of new wheat varieties for Mexico. Abstract of paper presented at the American Society of Agronomy Annual Meeting, 24-28 Oct., Milwaukee, WI. (B5545-R).
196. Borlaug, N.E., J.G. Harrar, and J.A. Rupert. 1949. *Nuevos trigos para México*. Folleto de Divulgación No. 4. Mexico: Oficina de Estudios Especiales. (B5549-R).
197. Borlaug, N.E. 1950. *Métodos empleados y resultados obtenidos en el mejoramiento del trigo en México. VI. Métodos de mejoramiento y resultados obtenidos en el mejoramiento de cultivos generalmente auto-polinizados y de propagación asexual*. Folleto Misceláneo No. 3. Mexico: Oficina de Estudios Especiales. (B5550-R).
198. Borlaug, N.E. 1950. Summary of sources of stem rust resistance found in Rockefeller Foundation Wheat Breeding Program in Mexico. In *Proceedings of the Wheat Stem Rust Conference*, 17-18 Nov., University Farm, St. Paul, MN. Pp. 31-34. (B5552-R).
199. Borlaug, N.E., and J.W. Gibler. 1953. The use of flexible composite wheat varieties to control the constantly changing stem rust pathogen. Abstract of paper presented at the Annual Meeting of the American Society of Agronomy, Dallas, TX. 1 p. (B5563-R).
200. Borlaug, N.E. 1955. *Métodos empleados actualmente en el mejoramiento del trigo*. Unpublished draft. 7 pp. (B5569-R).

201. Borlaug, N.E. 1956. El desarrollo y uso de variedades compuestas, basado en la mezcla de líneas fenotípicamente similares desarrolladas a través de cruza regresivas. In *Actas de la 3a Conferencia Internacional sobre la Rova de Trigo*. 3-4 Mar. 1956, Mexico. Pp. 14-20. (B5575-R).
202. Pérez R., R., M. García A., and N.E. Borlaug. 1956. Los mejores trigos para 1956-57. *Agricultura en México* 3: 3-5, 32-33. (B5579-R).
203. Borlaug, N.E. 1958. Factores que influyen en la elección de los métodos de mejora genética del trigo. Paper presented at the 3a Reunión Interamericana de Fitogenetistas, Fitopatólogos, Entomólogos y Edafólogos, 20 Jun.-1 Jul. 1955, Bogotá, Colombia. 6 pp. (B5597-R).
204. Borlaug, N.E. 1958. Methods currently being used in wheat improvement. Mexico: Rockefeller Foundation. 6 pp. (B5599-R).
205. Borlaug, N.E. 1959. Current trends in control of cereal rusts by plant breeding. Paper presented at the Conference of the Chemical Control of Cereal Rusts, Jan., St. Paul, MN. 5 pp. (B5606-R).
206. Borlaug, N.E. 1959. Present status and future needs for research on wheat in Latin America. Mexico: Rockefeller Foundation. 23 pp. (B5608-R).
207. Borlaug, N.E., I. Narváez M., and G. Vazquez G. 1959. Wheat breeding in Mexico. In *Proceedings of the Ninth Spring Wheat Conference*, 22-24 Jan., Fargo, ND. P. 37. (B5614-R).

208. Borlaug, N.E., A. Campos T., and A. García S., 1960. Selección de variedades de garbanzo en tres regiones de México. *Agricultura Técnica en México* 11: 16-18. (B5618-R).
209. Borlaug, N.E., 1961. Interrelación del mejoramiento de plantas, fitopatología, entomología y suelos y su influencia sobre la producción de cultivos. In *Actas de la 5a Reunión Latinoamericana de Fitopatología*, 5-18 Nov., Buenos Aires, Argentina. Pp. 527-37. (B5619-R).
210. Borlaug, N.E., 1962. Inter-American wheat improvement program. Mexico: The Rockefeller Foundation. 24 pp. (B5623-R).
211. Narváez M., I., J. Ortega C., E. Villegas M., F. Castilla Ch., R. Rodríguez R., and N.E. Borlaug, 1964. The use of early generation quality evaluations in the development of successful hybrid wheat varieties. Unpublished draft. 21 pp. (B5638-R).
212. Borlaug, N.E., J. Ortega C., I. Narváez M., A. García S., and R. Rodríguez R., 1964. Hybrid wheat in perspective. Draft of paper presented at the Annual Wheat Quality Conference. Minneapolis, MN. 27 pp. (B5633-R).
213. Borlaug, N.E., 1965. Accelerated wheat improvement in West Pakistan, and the revolution in agriculture. Karachi: Ford Foundation. 29 pp. (B5639-R).
214. Borlaug, N.E., 1965. Influencia de México en el Programa Internacional de Mejoramiento de Trigo. *Noroeste Agropecuario* 3: 14-17. (B5640-R).

215. Borlaug, N.E. 1965. Progress report on the accelerated wheat improvement program in West Pakistan. Karachi: Ford Foundation. 21 pp. (B5641-R).
216. Borlaug, N.E. 1965. Research progress in hybrid wheat. Report presented at the Wheat Quality Council, 27 Jan., Minneapolis, MN. Pp. 47-8. (B5645-R).
217. Borlaug, N.E. 1965. Wheat, rust, and people. *Phytopathology* 55(10): 1088-90. (B5646-R).
218. Borlaug, N.E. 1966. *Trigo híbrido: Su potencial para alimentar una creciente población en el Ind.* CIMMYT Folleto de Investigación No. 3. Mexico: CIMMYT. 48 pp. (B5668-R).
219. Borlaug, N.E., and I. Narváez M. 1966. Accelerated wheat improvement in West Pakistan, and the revolution in agriculture. Lahore: Ford Foundation. 60 pp. (B5647-R).
220. Borlaug, N.E. 1966. Basic concepts which influence the choice of methods for use in breeding for disease resistance in cross-pollinated and self-pollinated crop plants. In *Breeding Pest-Resistant Trees. Proceedings of the NATO and NSF Symposium*, 30 Aug.-11 Sep., 1964, Pennsylvania State University. Pp. 327-48. (B5648-R).
221. Borlaug, N.E. 1966. *Blé, rouille et hommes*. Documents Techniques No. 19. Ariana, Tunisia: Institut National de la Recherche Agronomique. 46 pp. (B5649-R).

222. Borlaug, N.E. 1966. A brief report on progress being made by the Indian Coordinated Wheat Improvement Program. Mexico: Rockefeller Foundation. 15 pp. (B5650-R).
223. Borlaug, N.E. 1966. The improvement of the nutritional properties of cereal proteins through genetic manipulation. Unpublished draft. 4 pp. (B5653-R).
224. Rodríguez R., R., M.A. Quiñones, I. Narváez M., and N.E. Borlaug. 1966. Trigo híbrido: poderosa arma contra el hambre mundial. Parte I: El problema. *Agricultura de las Américas* 15(1): 12-14, 41, 46, 48. (B5662-R).
225. Borlaug, N.E., and R. Rodríguez R. 1966. Trigo híbrido: poderosa arma contra el hambre mundial. Parte II: Investigación. *Agricultura de las Américas* 15(2): 16-18, 45, 54. (B5663-R).
226. Borlaug, N.E., and R. Rodríguez R. 1966. Trigo híbrido: poderosa arma contra el hambre mundial. Parte III: Estudios de heterosis. *Agricultura de las Américas* 15(3): 26-27, 30-31, 52-53. (B5664-R).
227. Borlaug, N.E., and R. Rodríguez R. 1966. Trigo híbrido: poderosa arma contra el hambre mundial. Parte IV: Estudios de heterosis. *Agricultura de las Américas* 15(4): 28, 30, 62. (B5665-R).
228. Borlaug, N.E. and R. Rodríguez R. 1966. Trigo híbrido: poderosa arma contra el hambre mundial. Parte V: Consideraciones agronómicas. *Agricultura de las Américas* 15(5): 18, 21, 52. (B5666-R).

229. Borlaug, N.E., and R. Rodríguez R. 1966. Trigo híbrido: poderosa arma contra el hambre mundial. Parte VI: Conclusión. *Agricultura de las Américas* 15(6): 30-32, 37, 56. (B5667-R).
230. Borlaug, N.E. 1967. *Hybrid wheats: Their development and food potential*. CIMMYT Research Bulletin No. 3. Mexico: CIMMYT. 37 pp. (B5671-R).
231. Borlaug, N.E., and D.S. Athwal. 1967. Genetic male sterility in wheat breeding. *Indian Journal of Genetics and Plant Breeding* 27(1): 136-42. (B5670-R).
232. Borlaug, N.E. 1967. Notes on wheat improvement for Minister Khuda Bakhsh. Unpublished draft. 11 pp. (B5674-R).
233. Borlaug, N.E. 1967. Report to President Ayub Khan on wheat improvement. Lahore: Ford Foundation. 6 pp. (B5676-R).
234. Borlaug, N.E. 1968. Wheat breeding and its impact on world food supply. In *Proceedings of the Third International Wheat Genetics Symposium*, 5-9 Aug., Canberra, Australia. Pp. 1-36. (B5690-R).
235. Borlaug, N.E., and O.H. Aresvik. 1968. The accelerated crop improvement and production programs and the agricultural revolution: Suggestions for future development. Lahore: The Planning Cell, Agricultural Department. 42 pp. (B5678-R).
236. Borlaug, N.E., and C.F. Krull. 1968. Does our lack of knowledge on genotype-environmental relations hinder wheat improvement? Mexico: CIMMYT. 2 pp. (B5681-R).

237. Borlaug, N.E. 1968. How should breeding systems be revised so as to develop varieties with maximum grain yields? Paper presented at the 11th Hard Red Winter and 11th Hard Red Spring Joint Wheat Workers Conference, Kansas State University. 5 pp. (B5682-R).
238. Borlaug, N.E. 1968. *El programa coordinado de investigación y producción de trigo del INTA*. Instituto Nacional de Tecnología Agropecuaria Informe Técnico No. 104. Buenos Aires: INTA. 20 pp. (B5685-R).
239. Borlaug, N.E., and F.J. Zillinsky. 1969. Overcoming sterility and associated problems in triticales. Paper presented at the Meeting of the American Society of Agronomy, 9-14 Nov., Detroit, MI. 1 p. (B5697-R).
240. Borlaug, N.E. 1969. Seeds for the future. Paper presented at the International Conference on Mechanized Dryland Farming, Moline, IL. 34 pp. (B5698-R).
241. Borlaug, N.E., and C.F. Krull. 1970. The utilization of collections in plant breeding and production. In *Genetic Resources in Plants: Their Exploration and Conservation*. Ed. O.H. Frankel and E. Bennett. Oxford: Blackwell Scientific Publications. Pp. 427-39. (B5708-R).
242. Borlaug, N.E. 1971. A cereal breeder and ex-forester's evaluation of the progress and problems involved in breeding rust resistant forest trees. Paper presented at the NATO-IUFRO Study Institute Symposium, Canberra, Australia. 53 pp. (B5710-R).

243. Borlaug, N.E. 1972. Breeding wheat for high yield, wide adaptation, and disease resistance. In *Rice Breeding*. Los Baños, Philippines: International Rice Research Institute. Pp. 581-592. (B5727-R).
244. Borlaug, N.E. 1972. Genetic improvement of crop foods. *Nutrition Today* 7(1): 20-21, 24-25. (B5731-R).
245. Borlaug, N.E. 1972. Las Semillas del Futuro No. 1: Decisivo papel del mejorador. *Agro-Sintesis* 16:10-11. (B5741-R).
246. Borlaug, N.E., and R. Rodríguez R. 1972. Las Semillas del Futuro No. 2: Avances en el trigo y arroz. *Agro-Sintesis* 17:11-12. (B5829-R).
247. Borlaug, N.E. 1973. Las Semillas del Futuro No. 3: Avances en maíz y sorgo. *Agro-Sintesis* 18(4): 29. (B5830-R).
248. Borlaug, N.E. 1974. Present status of world wheat and barley breeding and its direction. Commemorative Speech. Seoul: Office of Rural Development. 48 pp. (B5672-R).
249. Borlaug, N.E. 1975. Building a protein revolution on grain legumes. In *Nutritional Improvement of Food Legumes by Breeding*. Ed. M. Milner. New York: John Wiley. Pp. 7-11. (B5770-R).
250. Borlaug, N.E. 1979. Exploratory genetic research undertaken by CIMMYT in maize, wheat, barley, and triticale. Mexico: CIMMYT. 22 pp. (B5793-R).

251. Borlaug, N.E. 1981. Breeding methods employed and the contributions of Norin 10 derivatives to the development of the high yielding, broadly adapted Mexican wheat varieties. Paper delivered at the 30th Anniversary of the Japanese Society of Breeding, Tokyo, Japan. 57 pp. (B5805-R).
252. Borlaug, N.E. 1981. The phenomenal contributions of the Japanese Norin dwarfing genes toward increasing the genetic yield potential of wheat and rice varieties and cereal production worldwide. Paper delivered at the 30th Anniversary of the Japanese Society of Breeding, Tokyo, Japan. 22 pp. (B5810-R).
253. Borlaug, N.E., 1983. Contributions of conventional plant breeding to food production. *Science* 219:689-93. (B5819-R).

Plant Taxonomy and Geography

Taxonomía Vegetal y Distribución Geográfica de las Plantas

254. Villegas M., E., S. Espino T., N.E. Borlaug, and S. Aguilar Y. 1961. Recomendaciones para la clasificación de trigos comerciales. Unpublished draft. 5 pp. (B5621-R).

Pests of Plants

Plagas de las Plantas

255. Borlaug, N.E., and J.A. Rupert. 1948. Leaf rust of wheat in Mexico. *Phytopathology* 38:3. (B5541-R).

256. Miller, J.M., J.P. Perry, and N.E. Borlaug. 1957. Control of sunscald and subsequent buprestid damage in Spanish cedar plantations in Yucatán. *Journal of Forestry* 55(3): 185-88. (B5591-R).

Plant Diseases

Enfermedades de las Plantas

257. Borlaug, N.E. 1941. Red stain of box elder trees. Saint Paul: University of Minnesota. 44 pp. (B040.08 BOR 1941).
258. Borlaug, N.E., and J.J. Christensen. 1941. Variations in fusarium lini. *Phytopathology* 31:4. (B5526-R).
259. Borlaug, N.E. 1943. Resistance of various textile fibers to mildew. *Rayon Textile Monthly* Aug.-Sep.:5. (B5527-R).
260. Borlaug, N.E. 1945. Annual survey of wheat growing areas of Mexico for determination of severity of damage caused by diseases. Mexico: Rockefeller Foundation. 3 pp. (B5528-R).
261. Borlaug, N.E. 1945. Outline of the diseases of wheat. Conferencia de la Oficina de Estudios Especiales No. 1. Mexico: Secretaría de Agricultura y Ganadería. Oficina de Estudios Especiales. 3 pp. (B5530-R).
262. Borlaug, N.E. 1945. Summary of recent tests and proposed future studies with agricultural chemicals. Draft memorandum to Dr. J.G. Harrar, 24 Mar., 1945. 15 pp. (B5531-R).

263. Borlaug, N.E. 1945. Variation and variability of fusarium lini. University of Minnesota Agricultural Experiment Station Bulletin No. 168. Saint Paul: University of Minnesota. 40 pp. (B5532-R).
264. Borlaug, N.E. 1945. Wheat improvement in Mexico. Unpublished draft. 19 pp. (B5533-R).
265. Borlaug, N.E. 1946. Diseases of teosinte in Mexico. *Phytopathology* 36:395. (B5535-R).
266. Borlaug, N.E. 1946. Flag smut of wheat in Mexico. Abstract. *Phytopathology* 36: 749. (B5536-R).
267. Borlaug, N.E. 1946. *Puccinia sorghi* on corn in Mexico. Abstract. *Phytopathology* 36:395. (B5537-R).
268. Borlaug, N.E. 1948. *Present status of wheat improvement program for Mexico*. Conferencia de la Oficina de Estudios Especiales No. 31. Mexico: Secretaría de Agricultura y Ganadería. Oficina de Estudios Especiales. 10 pp. (B5542-R).
269. Harrar, J.G., and N.E. Borlaug. 1948. Stem rust of wheat in Mexico. *Phytopathology* 38:12. (B5544-R).
270. Rupert, J.A., and N.E. Borlaug. 1949. Downy mildew of wheat in Mexico. *Plant Disease Reporter* 33(10): 382-383. (B5546-R).
271. Stakman, E.C., J.G. Harrar, W.Q. Loegering, and N.E. Borlaug. 1949. Recent changes in prevalence of physiologic races of *Puccinia graminis tritici* in south-central Mexico. *Phytopathology* 39:23. (B5548-R).

272. Stakman, E.C., W.Q. Loegering, J.G. Harrar, and N.E. Borlaug. 1950. Razas fisiológicas de *Puccinia graminis tritici* en México. *Folleto Técnico No. 3*. Mexico: Oficina de Estudios Especiales. 20 pp. (B5551-R).
273. Borlaug, N.E., A. Campos, and B.B. Bayles. 1952. Mexican varieties of wheat resistant to race 15b of stem rust. *Plant Disease Reporter* 36(4): 147-50. (B5554-R).
274. Borlaug, N.E., B.B. Bayles, C.V. Lowther, and D.J. Ward. 1952. Reaction of wheat varieties to stem and leaf rust in the United States and Mexico in 1950-51. Beltsville, MD: USDA Plant Industry Station. 22 pp. (B5555-R).
275. Bayles, B.B., D.J. Ward, and N.E. Borlaug. 1952. Wheats from world collection resistant to rusts. Beltsville, MD: USDA Plant Industry Station. 9 pp. (B5557-R).
276. Campos A., T., J.W. Gibler, and N.E. Borlaug. 1953. Correlation of seedling and adult plant reaction to stem rust of wheat. *Phytopathology* 43:468. (B5558-R).
277. Bayles, B.B., N.E. Borlaug, and C.H. Kingsolver. 1953. International wheat and oat rust nursery report for 1952-53. Beltsville, MD: USDA Plant Industry Station. 78 pp. (B5559-R).
278. Borlaug, N.E. 1953. New approach to the breeding of wheat varieties resistant to *Puccinia graminis tritici*. *Phytopathology* 43:467. (B5560-R).

279. Borlaug, N.E., T. Enciso, and I. Narváez M. 1953. The rapid increase and distribution of stem rust race 49 further complicates the program of developing stem rust resistant wheat for Mexico. In *Proceedings of the International Wheat Stem Rust Conference*, Winnepeg, Canada. Pp. 10-11. (B5561-R).
280. Borlaug, N.E., J.W. Gibler, D.J. Ward, and E.R. Ausemus. 1953. Rust reaction of wheat species grown in Mexico, summer of 1952. Beltsville, MD: USDA Plant Industry Station. 10 pp. (B5562-R).
281. Borlaug, N.E., J.W. Gibler, E.R. Ausemus, and I. Narváez M. 1953. Stem and leaf rust reaction of wheats in the 1951 international wheat nursery when grown at Mexe, Hidalgo, Mexico, in the summer of 1952. Beltsville, MD: USDA Plant Industry Station. 31 pp. (B5564-R).
282. Gibler, J. and N.E. Borlaug. 1953. Wheat breeding program further complicated by increase in prevalence of races 49 and 139. Abstract of paper presented at the Annual Meeting of the American Society of Agronomy, Dallas, TX. 3 pp. (B5565-R).
283. Borlaug, N.E., J. Gibler, E. Duarte, and E. R. Ausemus. 1953. Wheat varieties and selections of special interest to breeders grown in rust nurseries in Mexico in the summer of 1952. Beltsville, MD: USDA Plant Industry Station. 15 pp. (B5566-R).
284. Borlaug, N.E. 1954. Mexican wheat production and its role in the epidemiology of stem rust in North America. *Phytopathology* 44:398-404. (B5567-R)

285. Johnston, C.O., H.R. Hewlett, and N.E. Borlaug. 1954. Physiologic races of the leaf rust of wheat, *Puccinia rubigo-vera tritici*, in Mexico. *Phytopathology* 44:494. (B5568-R).
286. Ortega J., C., N.E. Borlaug, F. Garza E., and S. Espino. 1956. Brown necrosis, a disease of wheat which sometimes becomes very destructive under conditions of heavy rainfall at high elevations. In *Proceedings of the Third International Wheat Rust Conference*, 18-24 Mar., Mexico City, Mexico. Pp. 144-47. (B5574-R).
287. Borlaug, N.E. 1956. The development and use of composite varieties based upon the mechanical mixing of phenotypically similar lines developed through backcrossing. In *Proceedings of the Third International Wheat Rust Conference*, 18-24 Mar., Mexico City, Mexico. Pp. 12-18. (B5576-R).
288. Ortega J., C., N.E. Borlaug, F. Garza E., and S. Espino. 1956. Estudio sobre la mancha café del trigo. In *Actas de la 3a Conferencia Internacional sobre la Roya del Trigo*, 18-24 Mar., Mexico City, Mexico. Pp. 157-60. (B5577-R).
289. Borlaug, N.E., J. Rodríguez V., and F. Curiel V. 1956. Field resistance and tolerance of certain varieties to stem rust and the difficulties of adequately evaluating this very useful type of resistance. In *Proceedings of the Third International Wheat Rust Conference*, 18-24 Mar., Mexico City, Mexico. Pp. 64-65. (B5578-R).
290. Johnston, C.O., H.R. Hewlett, and N.E. Borlaug. 1956. Physiologic races of *Puccinia rubigo-vera* f. sp. *tritici* in Mexico. *Phytopathology* 46:137-39. (B5580-R).

291. Borlaug, N.E., J. Rodríguez V., and F. Curiel V. 1956. Resistencia en estado adulto y tolerancia de ciertas variedades a la roya del tallo y las dificultades para valorizar apropiadamente este tipo de resistencia tan útil. In *Actas de la 3a Conferencia Internacional sobre la Roya del Trigo*. 18-24 Mar., Mexico City, Mexico. Pp. 68-69. (B5586-R).
292. Konzak, C.F., N.E. Borlaug, A. Acosta, and J. Gibler. 1956. Stripe rust resistant mutants obtained from irradiation of Gabo wheat. *Phytopathology* 9:525-26. (B5587-R).
293. Pérez, R., A. Campos T., and N.E. Borlaug. 1956. A technique which has been useful in classification of seedling and adult plants for resistance to stem rust under field conditions. In *Proceedings of the Third International Wheat Rust Conference*, 18-24 Mar., Mexico City, Mexico. Pp. 88-89. (B5588-R).
294. Pérez, R., A. Campos T., and N.E. Borlaug. 1956. Una técnica que ha sido útil en la clasificación de plántulas y plantas adultas por su resistencia a la roya del tallo, bajo condiciones de campo. In *Actas de la 3a Conferencia Internacional sobre la Roya del Trigo*, 18-24 Mar., Mexico City, Mexico. Pp. 95-96. (B5589-R).
295. Campos T., A. and N.E. Borlaug. 1956. Wetting and penetrating agents combined with fungicides as protectants and eradicants for wheat stem rust. *Phytopathology* 46(1): 8-9. (B5590-R).

296. Borlaug, N.E. 1958. The use of multilineal or composite varieties to control airborne epidemic diseases of self-pollinated crop plants. In *Proceedings of the First International Wheat Genetics Symposium*. University of Manitoba, Aug. 1958. Winnipeg, Canada. Pp. 12-27. (B5605-R).
297. Borlaug, N.E., A. Campos, and M. Navarro. 1959. Diseases of wheat in Mexico. In *Proceedings of the Ninth Spring Wheat Conference*, 22-24 Jan., Fargo, ND. Pp. 55-59. (B5607-R).
298. Yerkes, W.D., J.S. Niederhauser, N.E. Borlaug, S. Martinez E., and A. Galindo J. 1959. Some plant diseases observed in Mexico in 1958. *Plant Disease Reporter* 43(4): 500-503. (B5613-R).
299. Loegering, W.Q. and N.E. Borlaug. 1962. The direct and indirect contribution of the International Wheat Rust Nursery to human progress and international good will. Unpublished draft. 13 pp. (B5622-R).
300. Borlaug, N.E., C. Ortega, and C. Castilla F. 1962. La punta negra y su efecto en la calidad del trigo. Unpublished draft. 6 pp. (B5624-R).
301. Loegering, W.Q. and N.E. Borlaug. 1963. Contribution of International Spring Wheat Rust Nursery to human progress and international good will. In *Crops Research*. Washington, D.C.: USDA Agricultural Research Service 34-46. 8 pp. (B5628-R).
302. Borlaug, N.E. 1972. Defensa del DDT y otros plaguicidas: Contra el hambre y las enfermedades del mundo. *Correo de la UNESCO* 25:4-8, 10-12. (B5728-R).

303. Borlaug, N.E. 1972. Sources of adult leaf rust resistance in triticale. *Indian Phytopathology* 25(3): 442-48. (B5742-R).
304. Borlaug, N.E. 1974. *Evaluación de avances y problemas en la obtención de especies forestales resistentes a la roya: Puntos de vista de un ex-forestal que actualmente trabaja en el mejoramiento de cereales*. CIMMYT Traducciones y Sobretiros No. 4. Mexico: CIMMYT. 50 pp. (B5758-R).

Miscellaneous Plant Disorders

Trastornos Misceláneos de la Plantas

305. Puente F., F., and N.E. Borlaug. 1950. Acame del trigo. *Agricultura Técnica en México* 7:40. (B5596-R).

Agricultural Machinery and Engineering

Maquinaria e Ingeniería Agrícola

306. Borlaug, N.E. 1965. Recommendations to Ford Foundation on next steps in the Pakistan Wheat Improvement Program. Unpublished draft. 17 pp. (B5642-R).
307. Borlaug, N.E. 1967. Machinery demonstration unit at Yusefwala. Karachi: Ford Foundation. 6 pp. (B5672-R).

Nature Conservation and Land Resources

Recursos Naturales y Medio Ambiente

308. Borlaug, N.E. 1976. Mobilizing world land resources to meet the growing needs for food, fiber, forest products, wildlife and recreation. In Proceedings of the 16th World Congress of the International Union of Forestry Research Organizations, Oslo, Norway, 245 pp. (B5782-R).

Food Science and Technology

Ciencia y Tecnología de los Alimentos

309. Borlaug, N.E., E.J. Wellhausen, A.M. Altschul, R.H. Barker, K.A. Gilles, E.T. Mertz, S. Moore, Y. Pomeranz, G.F. Sprague, and C.G. King. 1966. Meeting with biochemists to determine the best method for amino acid analysis of grains. New York: Rockefeller Foundation. 5 pp. (B5655-R).
310. Borlaug, N.E. 1966. Weak spots in the Rockefeller Foundation's agricultural programs considering the great need for expansion of plant protein production to meet human needs. Draft report submitted to Dr. E.J. Wellhausen. 9 pp. (B5669-R).

311. Villegas, E., N.E. Borlaug, and C.F. Krull. 1968. Wheat quality considerations in breeding programs and the use of early generation screening tests to improve program efficiency. Mexico: CIMMYT. 11 pp. (B5691-R).

Pollution
Contaminación

312. Borlaug, N.E. 1972. Statement on agricultural chemicals. *Clinical Toxicology* 5(2): 295-97. (B5743-R).