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PRODUCTIONBotany

1394. Clarke, S.H. Fine structure of the plant cell wall. *Nature* [London] 142(3603):899-904. Nov. 19, 1938. (Published by Macmillan & Co., Ltd., St. Martin's St., London, W.C.2, England) 472 N21  
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"A useful summary is given of modern conceptions of the fine structure of cell walls under the main headings (1) the cellulosic or micellar system, (2) the inter-micellar system, and (3) microscopic structure.-C."-*Textile Inst. Jour.* 89(2):A132. February 1939.
1395. [Hutchinson, J.B.] The classification and evolution of cotton. *Trop. Agr.* [Trinidad] 16(4): 82-83. April 1939. (Published by the Imperial College of Tropical Agriculture, St. Augustine, Trinidad, B.W.I.) 26 T754
1396. Kearney, Thomas H., and Webber, Irma E. Morphology of two American wild species of cotton and of their hybrid. *Jour. Agr. Research* 58(6):445-459. Mar.15, 1939. (Published by the United States Department of Agriculture, Washington, D.C.) 1 Ag84J  
Literature cited, p.459.
1397. Rodriguez, S.J. La soca del algodouero. *Boletin Platanero y Agricola* 1(2):12-13, 36. Oct.15, 1938. (Published at no.104, Despacho 18, Juárez, Mexico, D.F.) 8 B633  
The stalk of the cotton plant.

See also Items nos. 1614, 1633, 1761.

Genetics and Plant Breeding

1398. Balsac, Heim de, Miège, E., and Roehrich, O. L'hérédité de la villosité des graines de cotonnier (Pima du Maroc). Relation entre ce caractère et la qualité des fibres. *Coton et Culture Cotonnière* 12(3):101-107. October 1938. (Pub-

lished at 34, Rue Hamelin, Paris (XVI<sup>e</sup>) France)  
72.8 C821

Heredity and villosity of cottonseed (Pima of Morocco). Relation between this character and the quality of the fibers.

1399. Brown, C.H. Cotton-breeding technique as evolved at Giza. Egypt, Min. Agr., Tech. & Sci. Serv. Bot. Sec., Bull. 218, 13pp. Cairo, Govt. press. 1939. 24 Eg93
1400. Brown, C.H. Selection and hybridization. Empire Cotton Growing Rev. 16(2):111-114. April 1939. (Published by P.S. King & Son, Ltd., 14, Great Smith St., London, S.W.1, England). 72.8 Em7
1401. D., F. Gleanings from Giza. How a new Egyptian cotton is born. Textile Weekly 23(579):451. Apr.7, 1939. (Published at 49, Deansgate, Manchester, 3, England) 304.8 T3127

See also Items nos. 1396, 1760, 1761, 1779.

#### Agronomy

1402. Cotton variety tests, 1932-1938, conducted by the U.S. Cotton field station, Greenville, Texas, in cooperation with the Texas agricultural experiment station. 7pp., processed. [Greenville, Tex., 1939]
1403. Fertilizacion de la tierra. Algodon. Boletin Platanero y Agricola 1(1):25. Sept.15, 1938. (Published at no.104, Despacho 18, Juárez, Mexico, D.F.) 8 B633  
Fertilization of the soil. Cotton.
1404. Garthwaite, E.L. Treatment of cotton planting seed advocated by many planters. Pacific Rural Press 137(14):333. Apr.8, 1939. (Published at 83 Stevenson St., San Francisco, Calif.) 6 P112
1405. Gravina, Boaventura. Cultura de algodao nas zonas velhas. Revista do Algodao 8(44):2546-2548. January 1939. (Published at Rua de S. Bento, 389, Sao Paulo, Brazil)  
Cultivation of cotton in the old zones.

1406. Heath, O.V.S. Water-logging and soil aeration in relation to the growth of cotton and other plants. Empire Cotton Growing Rev. 16(2):104-110. April 1939. (Published by P.S. King & Son, Ltd., 14, Great Smith St., London, S.W.1, England)  
72.8 Em7  
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1407. Killinger, G.B. The importance of potash to Southern agriculture. Better Crops with Plant Food 23(3):18-19,39-40. March 1939. (Published at Investment Bldg., Washington, D.C.) 6 B46  
The effect of potash in cotton production is described.
1408. Kreibohm de la Vega, G.A. Como se fomenta el cultivo del algodón en Tucumán. Tucumán Revista Industrial y Agrícola 28(7-9):193. July-September 1938. (Published by the Agricultural Experiment Station, Tucumán, Argentina)  
9 T79  
How cotton cultivation is encouraged in Tucumán.
1409. Kreibohm de la Vega, G.A. Ventajas que ofrece Tucumán para el cultivo del algodón. Tucumán Revista Industrial y Agrícola 28(7-9):191-192. July-September 1938. (Published by the Agricultural Experiment Station, Tucumán, Argentina)  
9 T79  
Advantages which Tucumán offers for the cultivation of cotton.
1410. More about lintless cotton. Co-op Cotton Weekly News 5(37):2. Apr. 5, 1939. (Published at Bakersfield, Calif.)  
The author figures that cotton produced for seed only would not be profitable on high-priced land.
1411. Okada, S. The cotton industry in North China. Contemporary Manchuria 3(1):45-56. January 1939. (Published by the South Manchuria Railway Company, Dairen, Manchuria. New York office: 60 E. 42nd St., New York, N.Y.)  
The five parts of this article tell of cotton cultivation and exportation, advantages of cotton cultivation, natural conditions for cotton cultivation, varieties cultivated, and cotton policy, encouragement and experimental facilities in North China. Illustrated by statistical tables and reproductions of photographs.

1412. Pick the good kinds. Farm and Ranch 58(4):21.  
April 1939. (Published at 3306 Main St., Dallas, Tex.) 6 T31  
Report of cotton variety tests at the Cotton Branch Experiment Station at Marianna, Arkansas.
1413. Prichard, B.E.G. Essentials of cotton production. Practical suggestions from five thousand five-acre cotton contest records. Clemson Agr. Col. S.C. Ext. Serv. Circ.169, 3pp. Clemson. 1939.
1414. Rogers acala leads all varieties in seven-year test at federal station. Sixteen varieties tested at Greenville Station to determine best varieties of cotton for Blackland section. Tex. Co-op. News 19(4):4. Apr.15,1939. (Published by Texas Co-operative Publishing Co., Inc., 1100 South Ervay St., Dallas, Tex.) 72.9 T315F
1415. Should we change our staple? Revista do Algodao 8(43):2479-2493. December 1938. (Published at Rua de S. Bento, 389, Sao Paulo, Brazil)  
Replies to this question which was asked of the leading exporting firms of Sao Paulo, Brazil, are given.
1416. Stroman, C.N. New Mexico works on staple. Amer. Cotton Grower 5(11):10. April 1939. (Published at 535 Gravier St., New Orleans, La.) 72.8 Am32  
"The New Mexico Agricultural Experiment Station has been working since 1928 on new strains of Acala cotton which will combine earliness and high quality of fiber."
1417. Treated cotton seed make a convert. South. Seedsman 2(4):9. April 1939. (Published by L. Komper Wilson, 225 College Blvd., San Antonio, Tex.)  
61.8 So8  
The experiences of one farmer with untreated cottonseed are given.
1418. [Vines, C.A.] Do you know difference between certified and registered seed? Mid-So. Cotton News 16(10):6. April 1939. (Published at 822 Falls Bldg., Memphis, Tenn.) 72.8 C8295

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1419. Costenoble, H.V. Estudio sobre siembra, cultivo y control de las plagas del algodón. Republica Dominicana, Revista de Agricultura 30(113):73-76. February 1939. (Published at San Cristóbal, Trujillo, Dominican Republic) 8 R323  
Study on sowing, cultivation and control of diseases of cotton.
1420. Cotton wilt hits some varieties more. Ark. Farmer 41(4):13. April 1939. (Published by T.H. Barton, Little Rock, Ark.) 6 Ar42  
The susceptibility of some varieties to cotton wilt is described.
1421. Kokine, A.J. Influence de bore, cuivre et manganèse sur la susceptibilité du cotonnier à l'infection par Verticillium dahliae Kleb. et le rendement de coton. Sovietskaia Botanika no.4-5, pp.148-156. 1938. (Published at Moscow, U.S.S.R.) 450 So8  
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Influence of boron, copper and manganese on the susceptibility of cotton to infection by Verticillium dahliae Kleb. and the development of cotton.
1422. Meerson, G.M. On the water distribution in the fields of cotton plant infested with wilt. Chemisation of Socialistic Agr. no.12, pp.86-91. December 1938. (Published at Akademicheskii pr.1, Moscow, 8, U.S.S.R.) 385 C424  
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1423. Oknina, E.Z. The verticillium disease of cotton. Empire Cotton Growing Rev. 16(2):151. April 1939. (Published by P.S. King & Son, Ltd., 14, Great Smith St., London, S.W.1, England) 72.8 Em7  
From Trans. Timiryazeff Inst. Plant Physiol., 2, 1, 1937. (In Russian)  
"Although Verticillium albo-atrum has not been recorded during recent years as an agent of cotton wilt in the U.S.S.R., the author found both this species and V. dahliae in the diseased tissue of cotton plants in Ferghana (Uzbekistan, Asiatic Russia). The two fungi proved to be clearly distinct in most of their morphological and physiological characters."

1424. Sarejanni, J.A. La verticilliose du coton en Grèce. Empire Cotton Growing Rev. 16(2):151. April 1939. (Published by P.S. King & Son, Ltd., 14, Great Smith St., London, S.W.1, England) 72.8 Em7

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1425. Shaw, Luther. Control of fusarium wilt of cotton. N.C. Agr. Extension Serv. Ext. Circ. 233, 6pp. State College Station, Raleigh, 1939.

1426. Sukhorukoff, K.T. A study of the characters indicating resistance of cotton varieties to wilt and gummosis. Empire Cotton Growing Rev. 16(2):150. April 1939. (Published by P.S. King & Son, Ltd., 14, Great Smith St., London, S.W.1, England) 72.8 Em7

From Trans. Timiryazeff Inst. Pl. Physiol., 2, 1, 1937.

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See also Items nos. 1761, 1777, 1779, 1787.

### Insects

1427. American association of economic entomologists. Cotton states branch [meeting Feb. 3, 4, 5, 1938, New Orleans, La.] Jour. Econ. Ent. 32(1):163. February 1939. (Published at Amherst, Mass.) 421 J822

1428. [Cassidy, Thomas P.] [Cotton insects.] Pacific Rural Press 137(12):292. Mar. 25, 1939. (Published at 560 Howard St., San Francisco, Calif.) 6 P112



1429. Chinchas del algodón en Arizona. Naturaleza de su dano y medidas de control. Vide Agricola 16 (183):141,143,145-146. Feb.10,1939. (Published at Casilla no.1159, Núñez 26-A, Lima, Peru) 9.8 V66  
Cotton bugs in Arizona. Nature of their damage and methods of control.
1430. Do you want to make \$100? Farm and Ranch 58(4):6. April 1939. (Published at 3306 Main St., Dallas, Tex.) 6 T31  
Methods for controlling insect pests are noted.
1431. Face to face with the cotton pests. Tex. Farming and Citricult. 15(10):4,11. April 1939. (Published by E.C. Watson Publishing Co., 210 East Van Buren St., Harlingen, Tex.) 80 T31
1432. Fife, L. Courtney. Alternate host plants of the pink bollworm, *Pectinophora Gossypiella* (Saund.), in Puerto Rico. Puerto Rico Univ. Jour. Agr. 22(4):483-492. February 1939. (Published by the Agricultural Experiment Station, Rio Piedras, P.R.) 8 P832J  
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Report of the grove inspection department, July 1,1936 to June 30,1938, by A.C. Brown-- White-fringed beetle, pp.18-25 and Pink bollworm, pp.31-33.
1434. Henrard, P. Le cycle vital de la teigne du cotonnier au Congo Belge. Revue de Zoologie et de Botanique Africaines 32(1):19-20. Feb.25,1939. (Published by Dr. H. Schouteden, Torvuren, Belgium) 410 R326  
The life cycle of the cotton moth.
1435. Husain, M. Afzal, Trehan, Kidar Nath, and Verma, Piare Mohan. Economics of field-scale spraying against the white-fly of cotton (*Bemisia Gossypiperda* M. & L.) Indian Jour. Agr. Sci. 9(1):109-126. February 1939. (Published by the Manager of Publications, Delhi, India) 22 Ag83I

1436. Johnson, Ethelbert. A community weed cleanup program for control of cotton pests in the Palo Verde valley. Calif. Dept. Agr., Bull. 28(2): 136-141. February 1939. (Published at Sacramento, Calif.) 2 C12M  
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1437. Kreibohm de la Vega, G.A. *Astylus atromaculatus* Blanch. Insecto cuyas larvas y adultos son daninos para el algodouero. Tucumán, Revista Industrial y Agrícola 27(10-12):203-208. October-December 1937. (Published at Tucumán, Argentine Republic) 9 T79  
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*Astylus atromaculatus* Blanch. Insect whose larvas and adults are injurious to the cotton plant.  
"Descriptions are given of the adult and larva of the Melyrid, *Astylus atromaculatus*, Blanch., which has caused considerable injury to cotton in Argentina in recent years."-Empire Cotton Growing Rev. 16(2):145. April 1939.
1438. Kreibohm de la Vega, G.A. Métodos sencillos para combatir la oruga del algodouero y otros insectos masticadores. Tucumán, Revista Industrial y Agrícola 28(7-9):189-190. July-September 1938. (Published by the Estación Experimental Agrícola, Tucumán, Argentina) 9 T79  
Simple methods for fighting the cotton worm and other chewing insects.
1439. Mallo, Roberto G. La mosquilla, *Gargaphia Torresi*, Costa Lima. Contribucion al conocimiento de su biología. Argentine Republic, Junta Nacional del Algodón [Pub.] 40, 31pp. Buenos Aires. 1938. 281.3729 Ar3  
The mosquilla, *Gargaphia Torresi*, Costa Lima. Contribution to the knowledge of its biology.
1440. Mallo, Roberto G. Las plagas del algodouero en la republica Argentina. Argentine Republic, Junta Nacional del Algodon [Pub.] 38, 86pp. Buenos Aires. 1938. 281.3729 Ar3  
Pests of the cotton plant in the Argentine Republic.
1441. Ousley, Clarence. The worst enemy of cotton [pink bollworm]. Cotton and Cotton Oil Press 40(11): 22. Apr.1,1939. (Published at 3116-18 Commerce St., Dallas, Tex.) 304.8 C822

1442. Richardson, T.C. A cooperative campaign for the control of cotton insect pests. Acco Press 17(3):16. March 1939. (Published by Anderson, Clayton & Co., Houston, Tex.) 6 Ac2
1443. Richardson, T.C. Do you want to make \$100? Acco Press 17(4):6-7. April 1939. (Published by Anderson, Clayton & Co., Houston, Tex.) 6 Ac2  
 Suggestions for controlling cotton insects are given.  
 Also in Cotton and Cotton Oil Press 40(13):25-27. Apr. 29, 1939.
1444. State-wide cotton committee of Texas. Report on the pink bollworm. Acco Press 17(4):1-5. April 1939. (Published by Anderson, Clayton & Co., Houston, Tex.) 6 Ac2
1445. Stop paying \$173,000,000 a year blood money to insects. Cotton and Cotton Oil Press 40(11):28. Apr. 1, 1939. (Published at 3116-18 Commerce St., Dallas, Tex.) 304.8 C822  
 Recommendations of the Special Pink Bollworm Sub-Committee to the Statewide Cotton Committee regarding pink bollworm control in Texas.
- See also Items nos. 1698, 1700, 1723, 1732, 1733, 1734, 1761, 1768, 1777, 1778, 1779, 1787.

### Farm Engineering

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 "The Rust Cotton Picker Company, of Memphis, is ready to begin quantity production of a mechanical cotton picker by means of which three men can do the work of 100."

See also Items nos. 1778, 1779.

Farm Management

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Reference books, pp.121-122.  
Cotton as a source of agricultural income, pp.44-49.
1449. Fuggles-Couchman, N.R. Some production-cost figures for native crops in the Eastern Province of Tanganyika Territory. East African Agr. Jour. 4(5):393-398. March 1939. (Published by Government Printer, Nairobi, Kenya Colony)  
24 Ea74  
Cotton is one of the crops noted.
1450. Kyle, E.J. Texas' shrunken cotton income threat to state. More than 1/4 billion annual loss direst problem Texas ever faced, asserts Kyle. Cotton Trade Jour. 19(13):1,4. Apr.1,1939. (Published at 810 Union St., New Orleans, La.)  
72.8 C8214  
Also in Tex. Weekly 15(14):8-9. Apr.8,1939.
1451. [Mississippi. Agricultural extension service] "How can I get the most from cotton?" Prog. Farmer (Miss. Valley ed.) 54(3):7,59. March 1939. (Published at Cotton Exchange Bldg., Memphis, Tenn.) 6 So81  
Methods for obtaining the highest income from cotton in 1939 are suggested.
1452. Uchoa, José Leopoldo. Qualidade e custo de produçao. Factores decisivos de nossa victoria. Revista do Algodao 8(43):2525-2530. December 1938. (Published at Rua de S. Bento, 389, Sao Paulo, Brazil)  
Quality and cost of production. Decisive factors of our victory.

See also Items nos. 1446, 1558, 1716, 1741.

Cooperation in Production (One-Variety Communities)

1453. Jolly, A.B. Farmers of Dallas county unite in cotton improvement projects. Extensive educational programs conducted in fourteen communities. Tex. Co-op. News 19(4):4. Apr.15,1939. (Published by Texas Co-operative Publishing Co., Inc., 1100 South Ervay St., Dallas, Tex.)  
72.9 T315F

1454. Ludrick, Jack. Jackson county [Oklahoma] adopts one-variety idea. Farm and Ranch 58(3):31. March 1939. (Published at 3306 Main St., Dallas, Tex.) 6 T31
1455. One-variety contest cotton averages 1 inch. Cotton Trade Jour. 19(13):13. Apr. 1, 1939. (Published at 810 Union St., New Orleans, La.) 72.8 C8214
1456. One-variety cotton. Tex. Co-op. News 19(4):4. Apr. 15, 1939. (Published by Texas Co-operative Publishing Co., Inc., 1100 South Ervay St., Dallas, Tex.) 72.9. T315F  
Editorial on communities in Texas.
1457. One-variety cotton community makes money for growers. Farm and Ranch 58(4):27. April 1939. (Published at 3306 Main St., Dallas, Tex.) 6 T31  
The one-variety community at Lookeba, Oklahoma, is described.
1458. Stuckey, H.P. Must continue to push one-variety program. Prog. Farmer (Ga.-Ala.-Fla. ed.) 54(4):33. April 1939. (Published at 821 North Nineteenth St., Birmingham, Ala.) 6 P945G  
"Improvement in per cent of cotton 1 inch and over in staple length" from 1928 to 1938 in Georgia is shown.
1459. Torn, Elmore R. Results of East Texas single-variety-cotton community contest for 1938-39. Acco Press 17(4):9. April 1939. (Published by Anderson, Clayton & Co., Houston, Tex.) 6 Ac2
1460. Torn, Elmore R. Single-variety cotton community contest is sponsored by Chamber. East Tex. 13(7):24. April 1939. (Published by East Texas Chamber of Commerce, Dallas, Tex.) 6 Ea73
1461. Westbrook, E.C. One-variety communities pay Georgia farmers big profits. Georgia 1-variety cotton communities pay farmers handsome extra profits, projects increasing by leaps and bounds, declares university agronomist. Cotton Trade Jour. 19(17):9. Apr. 29, 1939. (Published at 810 Union St., New Orleans, La.) 72.8 C8214

See also Item no. 1464.

PREPARATIONGinning

1462. Adams, Orville. Relation of volume to total costs. Cost per bale varies directly with volume and investment in the gin plant. Cotton and Cotton Oil Press 40(11):54,58. Apr.1,1939. (Published at 3116-18 Commerce St., Dallas, Tex.)  
304.8 C822
1463. Bennett, Charles A., and Gerdes, Francis L. Cotton gin operating and testing equipment. Cotton Ginners' Jour. 10(7):9,20-22,24,38,40-41. April 1939. (Published by Texas Cotton Ginners' Association, Inc., 109 North Second Ave., Dallas, Tex.) 304.8 C824  
Instruments developed at the U.S. Cotton Ginning Laboratory, Stoneville, Miss. are described.
1464. Co-op. gins. Co-op Cotton Weekly News 5(38):1. Apr.12,1939. (Published at Bakersfield, Calif.)  
"So inspiring have been the reports of business of these [California] co-op. gins that some of them actually have a waiting list of growers requesting membership in organizations filled to capacity of their gin plant facilities."
1465. Cotton drying: new ginning service to farmers. Amer. Cotton Grower 5(11):11. April 1939. (Published at 535 Gravier St., New Orleans, La.)  
72.8 Am32
1466. Eldon, K. Butane gas for cotton gins. Cotton and Cotton Oil Press 40(11):46. Apr.1,1939. (Published at 3116-18 Commerce St., Dallas, Tex.) 304.8 C822
1467. Gerdes, Francis L., and Bennett, Charles A. Ginning-research developments made during 1938. Cotton and Cotton Oil Press 40(11):30-31,34-35,38. Apr.1,1939. (Published at 3116-18 Commerce St., Dallas, Tex.) 304.8 C822  
"Some of the results and progress of the ginning experiments at the U.S. Cotton Ginning Laboratories" at Stoneville, Miss.
1468. Gerdes, Francis L., Johnson, Arvid J., and Bennett, Charles A. Effect of cleaning seed cotton on

lint quality and ginning efficiency. U.S. Dept.  
Agr. Tech. Bull. 663, 63pp. Washington, D.C.  
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Appendix: Detailed description of the cottons,  
equipment, and methods used, pp.43-63.

1469. Gerdes, G.A. Cleaning facilities in a modern  
cotton gin. Okla. Cotton Grower 19(7):2. Mar.  
15, 1939. (Published at 10 West Sixth St.,  
Oklahoma City, Okla.) 72.8 Ok4
1470. Gerdes, G.A. Factors affecting quality ginning.  
Mid-So. Cotton News 16(10):3. April 1939.  
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72.8 C8295
1471. Graf, Dorothy W., comp. Artificial drying of farm  
crops in the United States, a selected biblio-  
graphy, 46pp., processed. Washington, U.S.  
Department of agriculture, Bureau of agricul-  
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Cotton, pp.12-14.
1472. Hickman, Ervin. World's smallest cotton gin.  
Amer. Cotton Grower 5(11):18. April 1939. (Pub-  
lished at 535 Gravier St., New Orleans, La.)  
72.8 Am32
1473. Lint grade affected by cleaning. Cotton Digest  
11(27):10. Apr. 8, 1939. (Published at 710  
Cotton Exchange Bldg., Houston, Tex.)  
286.82 C822
1474. Sanders, S.D. Cotton goes the coop way. Amer.  
Cotton Grower 5(11):10. April 1939. (Pub-  
lished at 535 Gravier St., New Orleans, La.)  
72.8 Am32  
The increase in the number of cooperative  
gins in Oklahoma and Texas is noted.
1475. [Texas cooperative ginners association] Co-op  
ginners opposed to export cotton subsidy plan.  
Tex. Co-op. News 19(4):6. Apr. 15, 1939. (Pub-  
lished by Texas Co-operative Publishing Co.,  
Inc., 1100 South Ervay St., Dallas, Tex.)  
72.9 T315F  
Report of sixth annual meeting, April 11,  
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1476. [Texas cotton ginners association] Cotton problems discussed before ginners meeting. Tex. Co-op. News 19(4):6. Apr. 15, 1939. (Published by Texas Co-operative Publishing Co., Inc., 1100 South Ervay St., Dallas, Tex.) 72.9 T315F  
Report of thirtieth annual convention at Dallas, Tex., April 12-14, 1939.
1477. Thomas, T.R. Proper lighting necessary to health and efficiency. Cotton Ginners' Jour. 10(7): 10, 18-19. April 1939. (Published by Texas Cotton Ginners' Association, Inc., 109 North Second Ave., Dallas, Tex.) 304.8 C824  
Lighting for gins is discussed.
1478. Weaver, Otis T., and Prickett, U.H. Earmarks of co-op cotton gins. News for Farmer Coops. 6(1):10-12, 20. April 1939. (Published by Farm Credit Administration, Washington, D.C.)
1479. Weaver, Otis T. Revolving-fund financing for cooperative gins. Okla. Agr. Expt. Sta. Current Farm Econ. 11(4):76-81. August 1938. (Published by the Department of Agricultural Economics, Oklahoma A. & M. College, Stillwater, Okla.) 100 Ok4

See also Items nos. 1693, 1702, 1773, 1782.

### Baling

1480. Cotton bagging bale in museum. Amer. Cotton Grower 5(11):16. April 1939. (Published at 535 Gravier St., New Orleans, La.) 72.8 Am32  
"Commissioner Harry D. Wilson, of Louisiana, has placed in the Agricultural Museum, State Capitol, a bale of cotton--grown on his farm--wrapped with cotton bagging and tied with cotton rope."
1481. O emprego da tela de algodao no enfardamento e reprensagem. These apresentada no 2.º Congresso dos cooperadores de algodao. Revista do Algodao 8(43):2512-2517. December 1938. (Published at Rua de S. Bento, 389, Sao Paulo, Brazil)  
The use of cotton cloth in packaging and compressing. Thesis presented at the 2nd Congress of Cotton Cooperatives.



1482. Franke, Louis. "Bale weevil" costs cotton industry millions. Cotton Ginners' Jour. 10(7):11, 25, 36. April 1939. (Published by Texas Cotton Ginners' Association, Inc., 109 North Second Ave., Dallas, Tex.) 304.8 C824  
Efforts to improve the appearance of the American cotton bale are noted.
1483. Jewell to head council's net weight group. Oscar Johnston names committee to make exhaustive study. Cotton Trade Jour. 19(16):1, 5. Apr. 22, 1939. (Published at 810 Union St., New Orleans, La.) 72.8 C8214  
A committee of the National Cotton Council of America and plans for their study of net weight trading are announced.
1484. McCrory, S.H. American cotton abroad. Better packaging needed. Foreign bales are superior to American. Cotton Digest 11(26):7, 31-32. Apr. 1, 1939. (Published at 710 Cotton Exchange Bldg., Houston, Tex.) 286.82 C822
1485. McCrory, S.H. European observations on American cotton packaging. 5pp., processed. [Washington, United States Department of Agriculture, Bureau of agricultural engineering, 1939]  
Address delivered before the twenty-eighth annual convention of the Texas Cotton Association, Houston, Texas, March 31, 1939.
1486. Uso da tela de algodao no enfiamento no Est. de S. Paulo. Revista do Algodao 8(43):2518-2523. December 1938. (Published at Rua de S. Bento, 389, Sao Paulo, Brazil)  
Use of cotton cloth in packaging in the State of Sao Paulo.

See also Item no. 1745.

#### MARKETING

##### General

1487. The cotton muddle. Manfrs. Rec. 108(4):24. April 1939. (Published at Commerce and Water Sts., Baltimore, Md.) 297.8 M31  
Editorial on the present situation.

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The situation in the United States cotton industry is described.
1489. Hohenberg, A.E. Farmers losing birth right. Higher prices desirable. Prejudices unmasked. Cotton Digest 11(24):5. Mar.18,1939. (Published at 710 Cotton Exchange Bldg., Houston, Tex.) 286.82 C822  
The present cotton situation is discussed.
1490. Jackson, Burris C. Free cotton is essential. Prosperity of nation is based on thought. Cotton Digest 11(26):3-5,32-33. Apr.1,1939. (Published at 710 Cotton Exchange Bldg., Houston, Tex.) 286.82 C822  
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1491. [Kyle, E.J.] Immediate action urged. Cotton Digest 11(24):8. Mar.18,1939. (Published at 710 Cotton Exchange Bldg., Houston, Tex.) 286.82 C822  
The cotton situation in Texas is discussed.
1492. Todd, John A. The cotton market during 1938. The Agricultural adjustment act and the Smith-Bankhead amending bill. Textile Recorder 56(672):18,20-21. Mar.6,1939. (Published at Old Colony House, Manchester, 2, England) 304.8 T311
1493. [Towles, L.R.C.] Turning point seen by Towles. Cotton Digest 11(27):8. Apr.8,1939. (Published at 710 Cotton Exchange Bldg., Houston, Tex.) 286.82 C822  
The situation in the cotton industry is commented upon.

#### Demand and Competition

1494. Ashmore, William G. Labor picture quiet on surface in South, but union continues organizing campaign. Textile World 89(5):64. April 1939. (Published by McGraw-Hill Publishing Co., Inc., 330 West 42nd St., New York, N.Y.) 304.8 T315

1495. Blumenthal, Grete. L'industrie Italienne des textiles. *Chimie & Industrie* 40(6):1248-1251. December 1938. (Published at 28, Rue Saint-Dominique, Paris, 7<sup>e</sup> France) 383 C42  
The Italian textile industry.
1496. The Bombay textile labour inquiry committee. Further evidence of millowners and labour. *Indian Textile Jour.* 49(581):185-186. Feb. 15, 1939. (Published at Military Square, Fort, Bombay, India) 304.8 In2
1497. British association for the advancement of science. Economic science and statistics section. Britain in recovery, prepared by a research committee... 474pp. London, Sir Isaac Pitman & Sons, Ltd., 1938. 280.171 B77B  
Includes bibliographies.  
A sequel to "Britain in depression" prepared by the same research committee.  
The cotton industry, by H.G. Hughes and C.T. Saunders, pp.439-459; The wool textile industry, by A.N. Shimmin, pp.461-474.
1498. British India--United Kingdom. Revised trade agreement providing for reduced duties on British cotton goods and modification of preferential tariff treatment provisionally effective. *Com. Repts.* no.16, pp.376-377. Apr. 22, 1939. (Published by U.S. Bureau of Foreign and Domestic Commerce, Washington, D.C.) 157 C76D
1499. Campolongo, Alberto. Il commercio dell'Italia con l'estero e le industrie tessili. *Revista di Politica Economica* 28(12):1135-1138. December 1938. (Published at Piazza Venezia, 11, Rome, Italy)  
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A table shows the imports and exports of cotton, wool, silk, artificial fibers, hemp, linen and jute and the total textile exports and imports of Italy and colonies 1932 to 1937, annually, and January to August 1937 and 1938.
1500. Cheatham, J.H. Problems of manufacturers. Cotton's many ills can be cured. *Cotton Digest* 11(30): 9, 28-30. Apr. 29, 1939. (Published at 710 Cotton Exchange Bldg., Houston, Tex.) 286.82 C822  
Address at the annual convention of the American Cotton Manufacturers' Association in New Orleans, La., April 13-15, 1939.

1501. The cost of curtailment. One mill man's suggestion for cutting costs. Graph shows exact percentage increase in costs as output is curtailed. Weekly costs of curtailment. Amer. Wool & Cotton Reprtr. 53(12):17-18. Mar.23,1939. (Published by Frank P. Bennett & Co., Inc., 530 Atlantic Ave., Boston, Mass.) 304.8 W88
1502. Cotton in crisis. Labour Research 28(2):29-31. February 1939. (Published at 60 Doughty St., W.C.1, London, England)  
The situation in the British cotton textile industry is considered from the point of view of labor and it is concluded that "what is needed is a plan to raise wages and increase production and consumption, not a plan to increase monopoly power and profits."
1503. Cotton piece goods--Record quantity imported into Philippines in 1938. Com. Repts. no.16, pp.372-373. Apr.22,1939. (Published by U.S. Bureau of Foreign and Domestic Commerce, Washington, D.C.) 157 C76D
1504. [Douglas, George.] The cotton trade. Statist 133(3185):298-299. Mar.11,1939. (Published at 51 Cannon St., London, E.C.4, England) 286.8 St2  
Address at the annual meeting of the Bradford Dyers' Association.  
The situation in the British cotton textile industry is noted briefly.
1505. Failure of Japan's plans to increase export trade. Textiles being sold at below production costs. Manchester Guardian Com. 38(979):255,256. Mar. 24,1939. (Published at Guardian Bldg., 3 Cross St., Manchester, 2, England) 286.8 M315
1506. [Gossett, B.B.] Cotton mill control demanded through group action, machinery cut and two shifts. Daily News Rec. no.88, p.9. Apr.15, 1939. (Published at 8 East 13th St., New York, N.Y.) 286.8 N48  
Address at meeting of American Cotton Manufacturers Association, New Orleans, April 14,1939.  
Also in Jour. Com. 180(13905):5A. Apr.17, 1939.

1507. Hand to mouth cloth buying hurting mills. Industry faces dilemma of present low prices, coming production cost rise. Continued losses feared. Mills said to want free market but those heavily stocked oppose loan cotton dumping. Cotton Trade Jour. 19(15):1,10. Apr.15,1939. (Published at 810 Union St., New Orleans, La.)  
72.8 C8214

1508. India agreement rejected. Manchester Guardian Com. 38(980):293. Mar.31,1939. (Published at Guardian Bldg., 3 Cross St., Manchester, 2, England) 286.8 M315

"The Indian Legislative Assembly this week refused... approval to the trade agreement between Britain and India signed on March 20."

1509. India expected to rival Japan in world cloth export markets. Indian mills second largest consumers of cotton fiber; Russia makes striking gains. Jour. Com. 180(13905):13A. Apr.17,1939. (Published at 63 Park Row, New York, N.Y.)  
286.8 J82

1510. Indian cotton and Lancashire's threat. Indian Textile Jour. 49(581):172. Feb.15,1939. (Published at Military Square, Fort, Bombay, India)  
304.8 In2

Editorial on the efforts to negotiate a trade agreement between the United Kingdom and India relating to "the U. K.'s exports of cotton piecegoods to India and the latter's exports of raw cotton to U.K."

1511. [Indian textile engineers, ltd.] A textile map of India. Indian Textile Jour. 49(581):198-199. Feb.15,1939. (Published at Military Square, Fort, Bombay, India) 304.8 In2

The map shows the cities and towns in India where cotton mills are situated. A list of the number of spindles and looms in each city is also given.

1512. Iyengar, A.S. Indo-British agreement at last? Indian Textile Jour. 49(581):173. Feb.15,1939. (Published at Military Square, Fort, Bombay, India) 304.8 In2

The proposed trade agreement between the United Kingdom and India is discussed.

1513. [Joint committee of cotton trade organisations]  
The cotton trade of greater Germany. How Lancashire may be affected. Textile Weekly 23(580): 485,487. Apr.14,1939. (Published at 49, Deansgate, Manchester, 3, England) 304.8 T3127
1514. [Joint committee of cotton trade organisations]  
Greater Germany's cotton industry. Textile Weekly 23(579):448. Apr.7,1939. (Published at 49, Deansgate, Manchester, 3, England) 304.8 T3127  
The present size of the German textile industry is reported.
1515. Joint committee of cotton trade organisations.  
Economic service. Production and trade in 1938. 4pp., processed. [Manchester] 1939. 281.372 [J]  
The situation in the British textile industry in 1938 is reviewed.  
Summary in Manchester Chamber of Com. Monthly Rec. 50(3):133-134. Mar.31,1939.
1516. Kehrl, Hans. Die grossdeutsche textilwirtschaft in gegenwart und zukunft. Vierjahresplan 3(1-2):94-97. January 1939. (Published at Zentralverlag der NSDAP, Berlin, S.W. 68, Germany)  
Present conditions and future possibilities of the Greater German textile industry.  
A table shows the imports in 1932 of cotton, wool, jute, hemp, flax and other fibres, and a graph shows the greatly increased German production of artificial wool (Zellwolle) since 1933. It is said in conclusion that not only in quantity, but in quality as well, lie still unsuspected possibilities for development.
1517. Mauersberger, H.R. Survey of leading American rayon staple fibers, giving deniers, lengths, makers, processes and brandnames. Rayon Textile Monthly 20(4):199-200. April 1939. (Published at 303 Fifth Ave., New York, N.Y.) 304.8 R21
1518. Mexico. Industrial trend. Com. Repts. no.15, p.342. Apr.15,1939. (Published by U.S. Bureau of Foreign and Domestic Commerce, Washington, D.C.) 157 C76D  
The situation in the cotton textile industry in Mexico is noted.

1519. Myers, Lawrence. Problem of consumption. New uses are essential. Domestic outlets must be developed. Cotton Digest 11(27):3,14. Apr.8,1939. (Published at 710 Cotton Exchange Bldg., Houston, Tex.) 286.82 C822  
Excerpts of address at meeting of Texas Cotton Association, Houston, Texas, March 31-April 1, 1939.
1520. New Indian tariff detrimental to Japanese textile exports. Com. Repts. no.15, p.343. Apr.15,1939. (Published by U.S. Bureau of Foreign and Domestic Commerce, Washington, D.C.) 157 C76D
1521. O'Daniel, W. Lee. O'Daniel envisions a thousand cotton mills for Texas. Governor sees development of textile industry in state as solution of Texas' cotton problem; speaks of future 10 million-bale production. Cotton Trade Jour. 19(13):9. Apr.1,1939. (Published at 810 Union St., New Orleans, La.) 72.8 C8214
1522. Palmer, Arthur W. British cotton textile industry and demand for raw cotton. Foreign Agr. 3(4): 141-154. April 1939. (Published by U.S. Department of Agriculture, Bureau of Agricultural Economics, Washington, D.C.)  
"Exports of British cotton piece goods in 1913 totaled about 7 billion square yards and averaged around 4 billion from 1922 to 1929. During the period 1930-1937, however, exports ranged from only 1.7 to 2.4 billion square yards, and in 1938 dropped to 1.4 billion, the lowest export level since 1850. Much study has been devoted to alleviating the critical state of the British cotton-goods industry centered in Lancashire, and the Government has recently presented to Parliament proposals in the form of a draft bill for reorganization of the cotton industry. This, with the recently enacted Export Guarantees Act and the new Anglo-India trade agreement, has a very important bearing on the future of the British cotton-textile industry and, in turn, on the prospective British demand for American cotton. During the 10-year period 1928-1937, approximately 17 percent of the total United States cotton production was exported to the United Kingdom."

1523. Proposals to help cotton. Modern Miller 66(14): 16-17. Apr.8,1939. (Published at A1510 Insurance Exchange, Chicago, Ill.) 298.8 M72  
A letter to flour millers from the Cotton Promotion Council of the Textile Bag Manufacturers' Association is quoted as is also Congressional debate on the disposition of the cotton surplus.
1524. Quarendon, R. Progress in glass textiles. A review of the evolution of methods of producing glass fibres and of the latest manufacturing processes. Textile Recorder 56(672):35-36. Mar.6,1939. (Published at Old Colony House, Manchester, 2, England) 304.8 T311
1525. Robinson, Carl H. Cotton's synthetic rivals. Agr. Situation 23(4):18-20. April 1939. (Published by U.S. Department of Agriculture, Bureau of Agricultural Economics, Washington, D.C.) 1 Ec7Ag  
The author concludes that "with the exception of rayon,...synthetic textile materials have not displaced a significant quantity of cotton, whatever their potentialities may be."
1526. Rumania to grow cotton. Cotton Ginners' Jour. 10(7):56. April 1939. (Published by Texas Cotton Ginners' Association, Inc., 109 North Second Ave., Dallas, Tex.) 304.8 C824  
A review of the development of the cotton textile industry in Rumania is given.
1527. Rumanian textile industry grows, lint imports rise. Fast becoming independent of former suppliers of cotton cloth, yarn. Cotton Trade Jour. 19(16):6. Apr.22,1939. (Published at 810 Union St., New Orleans, La.) 72.8 C8214
1528. The Russian textile industry. Production aims under third five-year plan. Textile Weekly 23(579): 449. Apr.7,1939. (Published at 49, Deansgate, Manchester, 3, England) 304.8 T3127
1529. Sato, Ken. Japan must continue to depend on U.S. for cotton, says writer. Sato names factors to prevent large-scale cotton growing in China. Cotton Trade Jour. 19(13):5. Apr.1,1939. (Published at 810 Union St., New Orleans, La.) 72.8 C8214



1530. Senn, Edouard. Le marché mondial du coton. Comité Cotonnier Congolais, Bulletin Trimestriel 4(13): 34-47. April 1939. (Published at 27, rue du Trône, Bruxelles, Belgium)  
The world cotton market.
1531. Sharp, F.I. Towards recovery in textiles. Greater measure of co-operation--or dictatorship? Textile Weekly 23(580):488. Apr.14,1939. (Published at 49, Deansgate, Manchester, 3, England) 304.8 T3127  
Lecture to the Preston and District Textile Managers' Association, March 3,1939.
1532. Uncle Sam can't get back world marts, asserted. India won't cut acreage; Bombay trade loses faith in U.S. cotton policy. Cotton Trade Jour. 19(13):11. Apr.1,1939. (Published at 810 Union St., New Orleans, La.) 72.8 C8214
1533. United Kingdom-India trade agreement. Reduced Indian duties on cotton piece goods. Manchester Chamber of Com. Monthly Rec. 50(3):113-117. Mar.31, 1939. (Published at Ship Canal House, King St., Manchester, 2, England) 287 M31  
The terms of the agreement announced March 20, 1939, are explained with reference to cotton and cotton piecegoods.
1534. U.S. to lose Czech market for cotton, Bremen control board will take over. Cotton Trade Jour. 19 (14):6. Apr.8,1939. (Published at 810 Union St., New Orleans, La.) 72.8 C8214
1535. Wadsworth, H.E. Current trends in the use of cotton. Empire Cotton Growing Rev. 16(2):91-98. April 1939. (Published by P.S. King & Son, Ltd., 14, Great Smith St., London, S.W.1, England) 72.8 Em7  
"The world consumption of cotton increased by over 6 million bales, or 25 per cent., in the seven seasons ending 1936-37, a quantitative gain far exceeding that of all other fibres combined."
1536. Will buy in cotton containers. Farm and Ranch 58(3):3. March 1939. (Published at 3306 Main St., Dallas, Tex.) 6 T31  
"Farmers in Dallas country, Texas, have organized to insist on their purchases being wrapped in cotton containers."

See also Items nos. 1570, 1673, 1678, 1681, 1685, 1691, 1705, 1722, 1724, 1729, 1736, 1737, 1741, 1742, 1747, 1752, 1778.

Supply and Movement

1537. [Barringer, L.T.] Arkansas trade notes staples. Cotton Digest 11(30):12. Apr. 29, 1939. (Published at 710 Cotton Exchange Bldg., Houston, Tex.) 286.82 C822  
 Extracts from address at meeting of Arkansas Cotton Trade Association.  
 The author urges production of longer staple lengths.
1538. Blanchard, J. George. Stocks of American cotton show big decrease in Havre market. Cotton Digest 11(26):25. Apr. 1, 1939. (Published at 710 Cotton Exchange Bldg., Houston, Tex.) 286.82 C822
1539. Brazilian cotton crop reduced. Foreign Crops and Markets 38(15):250-252. Apr. 15, 1939. (Published by Bureau of Agricultural Economics, U.S. Department of Agriculture, Washington, D.C.) 1.9 St2F  
 Tables show: Estimates of cotton acreage, production and yield per acre, 1938-39, with comparisons; and Exports of raw cotton to principal countries, 1938, with comparisons.
1540. Brazilian cotton exports to Germany for "compensation" marks suspended. Com. & Financ. Chron. 148(3848):1723. Mar. 25, 1939. (Published by William B. Dana Co., 25 Spruce St., New York, N.Y.) 286.8 C73
1541. Brazilian crop late, ' Middling ' reported scarce. Japan still "star buyer," explosive politics retards Europeans. Cotton Trade Jour. 19(17):8. Apr. 29, 1939. (Published at 810 Union St., New Orleans, La.) 72.8 C8214  
 Percentages of each type classed in Brazil in 1938 and to March 31, 1939 are given.
1542. Caterson, Herbert. American exporters turned to South America only when forced. Cotton Digest 11(27):9. Apr. 8, 1939. (Published at 710 Cotton Exchange Bldg., Houston, Tex.) 286.82 C822

1543. Caterson, Herbert. Cotton area off to 25,765,000 acres. Drop from 1938 now indicated by Fairchild publications data. Planting started in many sections of Belt and computations to April 1 appear to show area smaller than last year's 26,144,000 acres and revised allotment of 27,525,000 acres. Daily News Rec. no.79, p.19. Apr.5,1939. (Published at 8 East 13th St., New York, N.Y.) 286.8 N48
1544. Caterson, Herbert. Further discussion of acute situation in Chinese cotton. Daily News Rec. no.85, p.17. Apr.12,1939. (Published at 8 East 13th St., New York, N.Y.) 286.8 N48  
The author thinks that there will be no imports of Tientsin rough cotton for blanket manufacture in 1939.
1545. Chosen 1938 cotton production reduced. Foreign Crops and Markets 38(14):222. Apr.8,1939. (Published by Bureau of Agricultural Economics, United States Department of Agriculture, Washington, D.C.) 1.9 St2F  
Table gives acreage, production and yield per acre, 1934-1938.
1546. Cotton. West India Com. Circ. 54(1051):14. Jan.12, 1939. (Published at 14, Trinity Square, London, E.C.3, England) 8 W524  
"The whole of the stocks of St. Vincent cotton in Liverpool was sold early in November at 1/8 per lb. This includes practically the whole of the 1937/38 crop as only very small quantities of lint were held in St. Vincent. The 1938-39 crop does not compare favourably with that of the 1937-38 crop, bolling especially not being very satisfactory. Dry weather is needed to mature the crop and to restrict losses from boll rotting."-Entire item.
1547. Cox, A.B. Cotton export situation. Tex. Business Rev. 13(2):9. Mar.28,1939. (Published by Bureau of Business Research, University of Texas, Austin, Tex.) 280.8 T312  
Also in Cotton Digest 11(26):26. Apr.1,1939.
1548. Crouchley, A.E. The economic development of modern Egypt. 286pp. London, Longmans, Green & co., 1938. 277.192 C88  
Bibliography, pp.279-286.  
The place of cotton in Egyptian economy is

considered at length. Statistics of exports and prices, 1821-1879, and acreage, yield, production, exports and prices 1879/80-1937/38 are given.

1549. Exportacao de algodao em marcos compensados. Revista do Algodao 8(44):2565. January 1939. (Published at Rua de S. Bento, 389, Sao Paulo, Brazil)  
Exportation of cotton in compensated marks.
1550. Final estimate Indian cotton production. Foreign Crops and Markets 38(17):286-287. Apr.29,1939. (Published by U.S. Department of Agriculture, Bureau of Agricultural Economics, Washington, D.C.) 1.9 St2F  
Table shows Indian cotton acreage, production, and yield, 1938-39 with comparisons.
1551. Fracassou o algodao na China do Norte. Revista do Algodao 8(44):2554-2555. January 1939. (Published at Rua de S. Bento, 389, Sao Paulo, Brazil)  
Destroying cotton in North China.  
The effects of the Japanese invasion in China are described.
1552. Germans to grow their own cotton in foreign lands. Cotton Trade Jour. 19(14):6. Apr.8,1939. (Published at 810 Union St., New Orleans, La.)  
72.8 C8214  
"The German cotton trade has formed a syndicate to promote the growth of cotton in foreign countries to insure that nation's supply of the raw material."
1553. Germany imported more cotton in 1938. Cotton Digest 11(27):9. Apr.8,1939. (Published at 710 Cotton Exchange Bldg., Houston, Tex.)  
286.82 C822
1554. Hunnicutt, Benjamin H. Neither myth nor menace. Country Gentleman 109(3):12-13, 48-49. March 1939. (Published at Independence Square, Philadelphia, Pa.) 6 C833  
Describes cotton production in Brazil.
1555. India--Final general memorandum on the cotton crop of 1938-39, All-India. Cotton [Manchester] 44(2156):9. Apr.1,1939. (Published by the

Manchester Cotton Assoc., Ltd., 411 Fourth Floor, Royal Exchange, Manchester, 2, England)  
304.8 C826

Tables show acreage, production and yield by provinces and states and by commercial varieties of cotton.

1556. Lanham, W.B. Buyers demand improved grade and staple of cotton from Texas. East Tex. 13(7): 34,53. April 1939. (Published by East Texas Chamber of Commerce, Dallas, Tex.) 6 Ea73
1557. MacKinnon, E. Cotton growing in the Tokar Delta. Sudan, Dept. Econ. & Trade, Bull.4, 32pp. Khartoum. 1938. 281.9 Su2
1558. Magri, Francesco. L'industria cotoniera nell'Iran. Bollettino della Cotoniera 33(11):771-776. November 1938. (Published at Via Borgonuovo, 11, Milano, Italy) 304.8 B63  
The Iranian cotton industry.  
"Figures are given to show the (1) production and area under cultivation of cotton in Iran (Persia) for the years 1924 to 1937; (2) the imports, exports and home consumption from 1931 to 1937; (3) the value of the exported raw cotton for 1935-36 and 1936-37; (4) the division of manual work among men, women and children from 1935-37; (5) imports and exports between Italy and Iran, 1934-37 and (6) imports of woven cotton and wool and hats from Italy for 1935-36, 1936-37. The area under cultivation of cotton in Iran from 1924-37 and the production and exportation of raw cotton from 1924-37 are illustrated by graphs.-C."-Textile Inst. Jour. 30(3): A219. March 1939.
1559. [New York cotton exchange] Foreign acreage may decrease. Cotton Digest 11(30):15. Apr.29, 1939. (Published at 710 Cotton Exchange Bldg., Houston, Tex.) 286.82 C822  
Reasons why foreign acreage may decrease are noted.
1560. Nicaragua's cotton crop purchased by Germany. Cotton Trade Jour. 19(14):5. Apr.8,1939. (Published at 810 Union St., New Orleans, La.) 72.8 C8214  
The crop was purchased on a barter basis.

1561. North China's cotton supply. *Oriental Econ.* 6(1): 27-29. January 1939. (Published at 2 Sanchoime Hongokucho, Nihonbashi, Tokyo, Japan) 280.8 Or4  
The present situation and plans for future development are discussed.
1562. Record crop for Argentina. *Cotton Digest* 11(27):10. Apr. 8, 1939. (Published at 710 Cotton Exchange Bldg., Houston, Tex.) 286.82 C822  
Estimate of the 1938/39 crop.
1563. Relations commerciales Turco-Soviétiques. *Turkofis, Bulletin Economique* 2(28-29):22-32. June-July 1938. (Published at Ankara, Turkey) 280.8 T842  
Turko-Soviet commercial relations.  
"Figures of cotton imports from the U.S.S.R. since 1930 shows a gradual increase; exports, on the other hand, show a gradual decrease to a mere 147 tons."-*Empire Cotton Growing Rev.* 16(2): 139. April 1939.
1564. Sao Paulo must not decrease its cotton area. *Revista do Algodao* 8(45):2581-2585. February 1939. (Published at Rua de S. Bento, 389, Sao Paulo, Brazil)
1565. Sao Paulo's cotton exports mark a new record. *Revista do Algodao* 8(44):2543-2545. January 1939. (Published at Rua de S. Bento, 389, Sao Paulo, Brazil)
1566. Schoffelmayer, Victor. Texas drives for cotton quality. *Amer. Cotton Grower* 5(11):8-9. April 1939. (Published at 535 Gravier St., New Orleans, La.) 72.8 Am32
1567. Stewart, John R. Shortage of Chinese raw cotton for U.S. blanket mills. *Far East. Survey* 8(7):83-84. Mar. 29, 1939. (Published by American Council, Institute of Pacific Relations, 129 E. 52nd St., New York, N.Y.) 280.9 In782

See also Items nos. 1408, 1409, 1411, 1415, 1452, 1453, 1458, 1468, 1499, 1516, 1526, 1529, 1532, 1571, 1666, 1667, 1670, 1681, 1683, 1684, 1686, 1689, 1713, 1714, 1716, 1720, 1721, 1727, 1737, 1741, 1747, 1751, 1760, 1771, 1774, 1776, 1778, 1782, 1787.

Prices

1568. British spinners fix minimum prices for yarns produced from United States cotton. Com. & Financ. Chron. 143(3848):1723. Mar. 25, 1939. (Published by William B. Dana Co., 25 Spruce St., New York, N.Y.) 286.8 C73
1569. Cotton prices and Egypt's trade. Gt. Brit. and the East 52(1447):190. Feb. 16, 1939. (Published at 133/136, High Holborn, London, W.C.1, England) 286.8 N27
1570. Cotton yarn prices. Proposed comprehensive agreement for American section. Textile Weekly 23(580):483,487. Apr. 14, 1939. (Published at 49, Deansgate, Manchester, 3, England) 304.8 T3127  
 "A comprehensive yarn price agreement for the American section of the cotton spinning industry has been issued to spinners this week in Great Britain"
1571. A dinamica dos precos e a producao algodoeira. Ouro Branco 4(10):13-14. February 1939. (Published at R. Quintino Bocayuva, 54, Sao Paulo, Brazil)  
 The dynamics of the prices and the production of cotton.
1572. The "inverted" cotton price market--The evidence thereof. Payon Organon 10(4):49-50. Mar. 8, 1939. (Published by Textile Economics Bureau, Inc., 21 East 40th St., New York, N.Y.) 304.8 T3128
1573. Spinners margin. Tex. Business Rev. 13(2):10. Mar. 28, 1939. (Published by Bureau of Business Research, University of Texas, Austin, Tex.) 280.8 T312  
 "Spinners ratio margin on 32's twist yarn in Manchester to middling 7/8-inch American cotton in Liverpool" is given for February with comparisons.

See also Items nos. 1489, 1548, 1594, 1689, 1714, 1741.

Marketing and Handling Methods and Practices

1574. Bradley, Kenneth. A cotton market in Northern Rhodesia. Empire Cotton Growing Rev. 16(2): 99-103. April 1939. (Published by P.S. King & Son, Ltd., 14, Great Smith St., London, S.W.1, England) 72.8 Em7
1575. Cook, Everett R. Futures contract needs 4 changes, E. Cook believes. Cotton Trade Jour. 19(16):1. Apr.22,1939. (Published at 810 Union St., New Orleans, La.) 72.8 C8214
1576. Hill, Marjorie, and Nelson, Peter. Cotton sold in the seed in Oklahoma. Okla. Agr. Expt. Sta. Current Farm Econ. 12(1):19-27. February 1939. (Published by the Department of Agricultural Economics, Oklahoma A. & M. College, Stillwater, Okla.) 100 Ok4  
 "An increase in the proportion of cotton sold in the seed in Oklahoma during the seasons 1932-33 through 1936-37 is revealed by an examination of gin reports. The occurrence of this increase at the same time when decreases in the percentage of cotton sold in the seed are occurring in most other cotton states can be explained partly by (1) the sale of remnants, (2) production of low turnout, long staple cotton, (3) existence of many small farms following a system of somewhat mixed farming, (4) small total cotton production in some areas, and (5) local marketing customs."
1577. McCampbell [Leavelle] again hits cotton futures contract. Jour. Com. 180(13893):10. Apr.3, 1939. (Published at 63 Park Row, New York, N.Y.) 286.8 J82  
 Also in Cotton Trade Jour. 19(15):3. Apr.15, 1939.
1578. McCampbell, Leavelle. "Spinnable lots" urged by McCampbell, proposing wide cotton contract changes. Daily News Rec. no.77, p.10. Apr.3, 1939. (Published at 8 East 13th St., New York, N.Y.) 286.8 N48  
 The author describes the present stock of "certificated" cotton. He proposes six amendments to cotton exchange rules and offers a definition of the "true value" of cotton.  
 Also in Textile Bull.56(4):11-12,39-40. Apr.15,1939.



1579. [New York cotton exchange] Futures changes may be made. Cotton Digest 11(26):25. Apr.1,1939. (Published at 710 Cotton Exchange Bldg., Houston, Tex.) 286.82 C822  
Proposed changes in rules are noted.
1580. Plauche, Henry. Plauche sees big benefit in operation of futures market. Cotton Digest 11(26):22,34. Apr.1,1939. (Published at 710 Cotton Exchange Bldg., Houston, Tex.) 286.82 C822
1581. U.S. Department of agriculture. Commodity exchange administration. Total of 31,341 bales of cotton delivered on the 1939 March future on the New York and New Orleans cotton exchanges. 6pp., processed. Washington, 1939.

See also Items nos. 1483, 1549, 1560, 1755, 1760, 1773, 1782.

#### Marketing Services and Facilities

1582. American cotton--Universal cotton standards conference, Washington, D.C., March 13th to 17th, 1939. Cotton [Manchester] 44(2156):4. Apr.1,1939. (Published by the Manchester Cotton Assoc., Ltd., 411 Fourth Floor, Royal Exchange, Manchester, 2, England) 304.8 C826  
Brief comment on the conference.
1583. Brownsville called outlet for Rio Grande. Three-year-old port has to double its storage capacity. Cotton Trade Jour. 19(13):13. Apr.1,1939. (Published at 810 Union St., New Orleans, La.) 72.8 C8214
1584. Butler, Eugene. What's new in agriculture? How eliminate loan cotton? Prog. Farmer (Tex. ed.) 54(5):16. May 1939. (Published at 1105 Southland Life Annex, Dallas, Tex.) 6 T311
1585. Classificação de algodão do Estado de São Paulo. (Safrã de 1937/38) Ouro Branco 4(9):35-36. January 1939. (Published at R. Quintino Bocayuva, 54, São Paulo, Brazil)  
Cotton classification in the State of São Paulo. (Harvest of 1937/38)

1586. Cotton standards delegates agree on descriptions and government standards for next three years. Amer. Cotton Grower 5(11):6-7. April 1939. (Published at 535 Gravier St., New Orleans, La.) 72.8 Am32  
An account of the International Universal Cotton Standards meeting in Washington, March 13, 1939.
1587. Cotton yarn exchange in Tokyo closed. Com. Repts. no.15, p.343. Apr.15, 1939. (Published by U.S. Bureau of Foreign and Domestic Commerce, Washington, D.C.) 157 C76D  
"After 22 years of existence, the Tokyo Cotton Yarn Exchange closed its doors on March 29 as a result of inactivity arising from state control over the domestic cotton industry."-Entire item.
1588. Evans, J.W. Houston has to bring sea inland to produce port. Cotton Trade Jour. 19(13):1,3. Apr.1, 1939. (Published at 810 Union St., New Orleans, La.) 72.8 C8214
1589. Facchina, Delphino. O exito da safra 1937-38, sugestoes para o financiamento e exportacao. Revista do Algodao 8(43):2531-2534. December 1938. (Published at Rua de S. Bento, 389, Sao Paulo, Brazil)  
The result of the harvest 1937-38, suggestions for financing and exporting.
1590. Farley, Miriam S. Japan and America's cotton loan policy. Far East. Survey 8(7):85-86. Mar.29, 1939. (Published by American Council, Institute of Pacific Relations, 129 E. 52nd St., New York, N.Y.) 280.9 In782
1591. Heard, M.E. The importance of cotton classing to the ginner and farmer. Cotton Ginners' Jour. 10(7):35,43,46. April 1939. (Published by Texas Cotton Ginners' Association, Inc., 109 North Second Ave., Dallas, Tex.) 304.8 C824
1592. Jones, J. Roy. Claims against cotton producers. Cong. Rec. 84(68):5354. Apr.5, 1939. (Published by United States Congress, Washington, D.C.) 148.2 R24  
Address before Carolinas Cotton Warehouse Association, March 30, 1939, Columbia, S.C.

1593. Jonkmans, V. Les organismes et l'histoire de la standardisation agricole aux États Unis d'Amérique. Annales des Sciences Commerciales & Économiques 2(6):377-411. [1938?] (Published at 2, rue des Doyens, Louvain, Belgium) 280.3 J73  
Bibliography, pp.410-411.  
Organization and history of agricultural standardization in the United States of America.
1594. Newburger, E. Kirby. 'Free market would bring higher prices.' Newburger explains why loan leaves U.S. holding the bag. Cotton Trade Jour. 19(15):2. Apr.15,1939. (Published at 810 Union St., New Orleans, La.) 72.8 C8214
1595. Pell, A.H. Two changes urged. Pell says loan killed cotton. Cotton Digest 11(29):3,13-14. Apr.22,1939. (Published at 710 Cotton Exchange Bldg., Houston, Tex.) 286.82 C822  
Address at the convention of the Atlantic Cotton Association in Greenville, S.C., April 14 and 15,1939.
1596. [Rathell, G.E.] Rathell replies to w'housemen of Carolinas. Assures them 1937 loan cotton is being sold as they recommended. Cotton Trade Jour. 19(17):3. Apr.29,1939. (Published at 810 Union St., New Orleans, La.) 72.8 C8214  
The resolution of the Carolinas Cotton Warehouse Association protesting sale by the Commodity Credit Corporation of certain 1937 loan cotton and the reply are given.
1597. San Francisco exports most of Western crop. Cotton Digest 11(26):19. Apr.1,1939. (Published at 710 Cotton Exchange Bldg., Houston, Tex.) 286.82 C822
1598. [Southern cotton shippers association] Faulty weighing is reported by shippers group. Cotton Trade Jour. 19(17):3. Apr.29,1939. (Published at 810 Union St., New Orleans, La.) 72.8 C8214  
"A recommendation that compresses and warehouses judge the ability of their weighers by the way their weights stand up rather than by the amount they weigh each day was contained in a committee report at the annual convention of the Southern Cotton Shippers Association at Memphis, Tenn., April 22,1939."

1599. Texans urge long credits for Spaniards. Resolution adopted opposing 25 per cent duty on German imports. Cotton Trade Jour. 19(14):1,8. Apr. 8, 1939. (Published at 810 Union St., New Orleans, La.) 72.8 C8214

Two resolutions adopted at the meeting of the Texas Cotton Association, Houston, Texas, April 1, 1939 are given.

1600. Towles, L.R.C. Leading cotton port. Houston goes forward. Cotton Digest 11(26):20,22. Apr. 1, 1939. (Published at 710 Cotton Exchange Bldg., Houston, Tex.) 286.82 C822

Also in Cotton Trade Jour. 19(13):1,2. Apr. 1, 1939.

See also Items nos. 1615, 1670, 1674, 1678, 1689, 1690, 1708, 1710, 1720, 1753, 1754, 1755, 1765, 1769, 1781.

### Marketing Costs

1601. War risk being studied. Cotton Digest 11(26): 28-29. Apr. 1, 1939. (Published at 710 Cotton Exchange Bldg., Houston, Tex.) 286.82 C822

"Proposals are under consideration whereby the federal government will take over the war risk insurance on cotton."

1602. War risk rates changed April 18. Cotton Digest 11(29):8. Apr. 22, 1939. (Published at 710 Cotton Exchange Bldg., Houston, Tex.) 286.82 C822

1603. War risk rates rise quickly on war fears. Cotton Trade Jour. 19(13):1. Apr. 1, 1939. (Published at 810 Union St., New Orleans, La.) 72.8 C8214  
Insurance rates to European ports are given.

### Cooperation in Marketing

1604. Primer congreso de cooperativas algodonerías. Se inauguró el 29 de Enero en Resistencia. Argentine Republic, Junta Nacional del Algodón, Boletín Mensual no. 47, pp. 125-154. March 1939. (Published at Buenos Aires, Argentina) 72.9 Ar3  
First Congress of Cotton Cooperatives (Argentina). Inaugurated January 29, 1939 in Resistencia.

1605. Thompson, José Bastos. Uniao dos lavradores de algodao. Ouro Branco 4(9):18-22,36. January 1939. (Published at R. Quintino Bocayuva, 54, Sao Paulo, Brazil)  
 Union of cotton farmers.  
 Also in Revista do Algodao 8(45):2586-2593. February 1939.

See also Item no. 1464.

### UTILIZATION

#### Fiber, Yarn and Fabric Quality

1606. Average yarn counts. Cotton [Atlanta] 103(4): 142,144. April 1939. (Published by W.R.C. Smith Publishing Co., Grant Bldg., Atlanta, Ga.) 304.8 C823  
 Methods of calculating average yarn counts are discussed.
1607. Futler, R.A. Keeping quality control on a practical basis. Cotton [Atlanta] 103(4):86-88. April 1939. (Published by W.R.C. Smith Publishing Co., Grant Bldg., Atlanta, Ga.) 304.8 C823  
 A laboratory at a cotton yarn mill is described.
1608. Champetier, G., and Viillard, R. Réaction d'échange de la cellulose et de l'eau lourde. Hydratation de la cellulose. Société Chimique de France, Bulletin 5(7):1042-1048. July 1938. (Published at 120, boulevard Saint-Germain, Paris (6<sup>e</sup>) France) 385 P21B  
 Footnote references.  
 Exchange reaction of cellulose and heavy water. Hydration of cellulose.  
 "Samples of ashless filter paper and of ordinary and mercerized cotton linters were dried at 120 in vacuo over P<sub>2</sub>O<sub>5</sub> and immersed under D<sub>2</sub>O in one leg of an inverted U-tube. At intervals the liquid was distd. into the second leg and its H<sub>2</sub>O content detd. densimetrically. The exchange reaction corresponds to C<sub>6</sub>H<sub>7</sub>O<sub>2</sub>(OH)<sub>3</sub> + 3D<sub>2</sub>O = C<sub>6</sub>H<sub>7</sub>O<sub>2</sub>(OD)<sub>3</sub> + 3DOH. Measured at 30° it is complete in 18 to 36 hrs., at 100° in 13 hrs. Conclusion: D<sub>2</sub>O, and hence H<sub>2</sub>O, penetrate throughout the mass of cellulose, including the cryst. micelles, and are not restricted to areas of surface adsorption.-L.W. Elder."-Chem. Abs. 32(21):8767. Nov.10,1938.

1609. Collins, G.E. Fundamental principles that govern the shrinkage of cotton goods by washing. Textile Inst. Jour. 30(3):P46-P61. March 1939. (Published at 16 St. Mary's Parsonage, Manchester, 3, England) 73.9 T31
1610. Duplicating cotton yarn twists. Textile World 89(5):99-100. April 1939. (Published by McGraw-Hill Publishing Co., Inc., 330 West 42nd St., New York, N.Y.) 304.8 T315  
Reply to a letter to the editor.
1611. Establishment of a testing house at the technological laboratory of the Indian central cotton committee at Matunga. Indian Trade Jour. 132 (1704):842. Feb. 16, 1939. (Published by the Department of Commercial Intelligence and Statistics, 1, Council House St., Calcutta, India) 286.8 In24  
The purpose is to undertake "tests on cotton lint, yarn and cloths and in cases of disputes, for issuing authoritative reports on samples sent for tests."
1612. Frey-Wyssling, A. Die micellarlehre erl utert am beispiel des faserfeinbaues. Kolloid-Zeitschrift 85(2/3):148-158. November/December 1938. (Published at Residenzstrasse 32, Dresden-Bl., Germany) 384 Z315  
Literature, p.157.  
The micellar theory as illustrated by the fine fiber structure.  
"A review is given of the fine reticulate structure of fibres as revealed by the polarising microscope and by x-rays, which structure is explained by a further extension of N geli's original micellar theory.-C."-Textile Inst. Jour. 30(3):A186. March 1939.
1613. Gee, Percy H. Twist in yarns. Part V--The relation of counts, turns per inch, and diameters per inch of cotton yarns. Textile Weekly 23(578):427,429. Mar. 31, 1939. (Published at 49, Deansgate, Manchester, 3, England) 304.8 T3127
1614. Goncharev, S.V., and Burvasser, F.G. Microstructure of cotton fibers. Chem. Abs. 32(22):9508. Nov. 20, 1938. (Published by American Chemical

Society, Mills Bldg., Washington, D.C.)  
381 Am33C

From Mem. Inst. Chem. Tech., Acad. Sci.  
Ukrain. S.S.R. no.9, 77-97 (in Russian 98-9, in  
English 100) (1938).

"Along with pure cellulose there are very  
thin films surrounding every structural element  
of the fiber. Their percentage of the fiber is  
very small but they greatly affect its proper-  
ties.-B.Z. Kamich."-Entire item.

1615. Goncharov, S.V. Raw cotton: grade determination  
by chemical analysis. Brit. Cotton Indus.  
Research Assoc., Summary of Current Lit. 19(6):  
169. Apr.1,1939. (Published at Didsbury, England)  
From Sbirnik Inst. Chem. Tech. Akad. Nauk.  
U.S.S.R. no.2, pp.53-73. 1937.

"The cotton 1.5 gm., is wetted with 5 c.c. of  
pyridine, and then stirred with 20 c.c. of 78  
per cent. sulphuric acid at 40°C. until 10 drops  
of the solution fail to give a turbidity with 10  
c.c. of water. The mixture is then diluted with  
250 c.c. of water, boiled for 5-10 minutes and  
filtered. The residue is washed, dried at 100-  
105° C. and weighed. -C."

1616. Gupte, V.V., and Ahmad, Nazir. The effect of  
employing different speeds in the draw-frame on  
the quality of yarn. Indian Cent. Cotton Com.  
Tech. Lab., Tech. Bull. Ser. A, no.47, 18pp.  
Bombay, British India press, 1939.  
References, p.9.

1617. Hauser, E.A., and Le Beau, D.S. Zur kenntnis der  
allgemeinen funktion zwischen viskosität und  
teilchengrösse. Kolloid-Zeitschrift 86(1):105-  
107. January 1939. (Published at Residenz-  
strasse 32, Dresden-Bl., Germany) 384 Z315  
Information concerning the general function  
between viscosity and particle size.

"Viscosity measurements were undertaken in  
dilute Bentonite sols of known particle size  
(10-200 $\mu$ ). The viscosity decreases with in-  
creasing particle size to a constant value.  
There appears here, therefore, a further example  
for the still little investigated descending  
branch of the maximum curve of the general func-  
tion between viscosity and particle size, postu-  
lated by Wo. Ostwald. The exceptional rise of  
the viscosity in the region of the fractions

with smallest particle diameter, as well as the still relatively high viscosity of the grosser fraction, in comparison to the pure dispersion medium, is to be ascribed to the high degree of hydration of the dispersed particles."-Author summary translated by C.M. Conrad.

1618. Herzog, Alois. Vergleichsmikroskopie. Kunstseide und Zellwolle 20(11):382-389. November 1938. (Published at Drakestrasse 45, Berlin-Lichterfelde-W., Germany)

Comparison microscopy.

"Methods and apparatus used in comparison microscopy and applications for the comparison of yarns and fibres, the examination of raw materials, fibre mixtures, paper and paper pulps, the determination of fibre fineness, widths, etc., and for other purposes are discussed. The value of photo-micrographs for comparison purposes is pointed out but the use of comparison microscopes for the direct preparation of photo-micrographs is not recommended.-C."-Textile Inst. Jour. 30(2):A124. February 1939.

1619. Hess, Kurt. Die endgruppenbestimmung bei cellulose und starke. Papier-Fabrikant 36(30):Tech.-Wiss. Tl. 333-339. July 22, 1938. (Published by Otto Elsner Verlagsgesellschaft, Berlin, SW 68, Germany) 302.8 P197

Footnote references.

Determination of end groups in cellulose and starch.

"The micromethod for detg. tetramethylglucose (I) among the hydrolysis products of the polysaccharides has been refined, so that 1 part of I can be detd. in the presence of 9300 parts of trimethylglucose with an accuracy of 7.7%. This furnished a precision method suitable for 'end-group' and mol.-wt. detns. of polysaccharides... Louis E. Wise."-Chem. Abs. 32(21):8767. Nov. 10, 1938.

1620. Johannsen, Otto, and Köb, Helmut. Der band- und lunttenprüfer mit tastdüse von E. Toenniessen. Klepzig's Textil-Zeitschrift 41(43):603-610. Oct. 26, 1938. (Published at Täubchenweg 23, Leipzig C 1, Germany)

The sliver and roving tester with feeler nozzle of E. Toenniessen.

"The importance of regular slivers is emphasised and methods of determining sliver regularity



are briefly discussed. The Toennicassen apparatus is described and shown in diagrams and photographs. In this device the sliver or roving passes from the delivery rollers through a feeder nozzle or funnel to a pair of grooved rollers. The nozzle or funnel in its narrowest part has a rectangular cross-section of 2mm. width which can be changed to one or 1mm. width for the testing of fine roving. One side of the funnel consists of a movable tongue, sliding in a block, which closes the opening completely in the absence of sliver or roving. The movements of the tongue during the passage of the sliver or roving are transmitted to a pen which makes a trace on travelling paper strip. Arrangements are made for applying loads to vary the compressing force which the moving tongue exerts on the sliver. Means for varying the sensitivity of the apparatus are also provided. The evaluation of the records is explained. Typical results are given and discussed and the value of the method for control and research purposes is pointed out. -C.-  
Textile Inst. Jour. 30(2):A93. February 1939.

1621. Koritzki, K.I. Cotton fibre: strength utilization coefficient in yarn. Empire Cotton Growing Rev. 16(2):158. April 1939. (Published by P.S. King & Son, Ltd., 14, Great Smith St., London, S.W.1, England) 72.8 Em7

From Chloptschatobumashnaja Prom., 8, 1, 1938.

"The per cent. fibre-strength utilization coefficient of cotton when spun into yarn is given by  $B = 0.22n + 0.26a = 4.2p + 23.0$ , where  $n$  is the number of fibres in the cross-section of the yarn,  $a$  is the twist factor, and  $p$  is the strength of the fibre. In mixing cottons, not only should the staple lengths be considered but their B coefficients should not differ by more than 3 per cent."

1622. Koshal, R.S., and Ahmad, N. The determination of the swollen diameter of cotton fibres--Effect of size of sample on the significance and reliability of the results. Textile Inst. Jour. 30(3): T63-T72. March 1939. (Published at 16 St. Mary's Parsonage, Manchester, 3, England)  
73.9 T31

References, p.T72.

1623. Kubo, Teruichiro. Studies on the transition of hydrate cellulose into native cellulose. (III) On the transition of hydrate cellulose into native cellulose through the molecular compounds of cellulose. Cellulose Indus. 15(3):Abs. from Trans. 13-19. March 1939. (Published by Cellulose Institute, Tokyo Imperial University, Tokyo, Japan) 309.8 C332  
References, p.19.
1624. Kumichel, W. Die fraktionierte Lösung von Cellulose in Kupferoxydammoniak. Papier-Fabrikant 36(49): Tech.-Wiss. Tl. 497-508. Dec.2, 1938. (Published by Otto Elsner Verlagsgesellschaft, Berlin SW 68, Germany) 302.8 P197  
Fractional dissolution of cellulose in cuprammonium.  
"By gradually raising the copper content of cuprammonium solution all degrees of 'solubility' can be obtained. Chemical and colloidal chemical investigation of the fractions obtained by means of such controlled dissolution shows that a concentration threshold divides two regions of solubility, one in which there is separation of cellulose from accompanying substances and the other in which there is colloid-chemical separation according to particle size. The solubility of cellulose in cuprammonium varies according to its origin and pre-treatment. The solubility curves are chiefly characterized by the above solvation threshold, and especially by the minimum concentration of copper for complete dispersion. The utilisation of the curves and histograms constructed from them for describing the properties and composition of a pulp is illustrated by several examples.-C."-Brit. Cotton Indus. Research Assoc., Summary of Current Lit. 19(6):175. Apr.1, 1939.
1625. Mease, Ralph T. Measurement of the apparent fluidity of dispersions of cellulose in cuprammonium solution. Natl. Bur. Standards, Jour. Research 22(3):271-284. March 1939. (Published by the National Bureau of Standards, United States Department of Commerce, Washington, D.C.) 157.88 J82  
Footnote references.

1626. Perkins, H.F. What instruments do for the textile industry. *Instruments* 12(1):39-41. January 1939. (Published at 1117 Wolfendale St., Pittsburgh, Pa.) 297.8 In72
1627. Polosov, A.P. Fabric thermal conductivity testing apparatus. *Brit. Cotton Indus. Research Assoc., Summary of Current Lit.* 19(6):171. Apr.1,1939. (Published at Didsbury, England)  
From *Shirnik Inst. Chem. Tech. Akad. Nauk. U.S.R.R. no.2*, pp.119-129. 1937.  
"An electrically heated case is surrounded by an insulating chamber and a wooden box. The cloth or garment under test is placed in the case, surrounding a water-cooled plate. A test takes 5 or 6 hours.-C."
1628. Schroeder, F. Modern photo-microscopy. Its importance in the textile industry. *Textile Recorder* 56(672):22-23. Mar.6,1939. (Published at Old Colony House, Manchester, 2, England) 304.8 T311
1629. Schwarz, E.R. Technical evaluation of textile finishing treatments. *Textile Research* 9(6):216-230. April 1939. (Published by United States Institute for Textile Research, 65 Franklin St., Boston, Mass.) 304.8 T293  
Bibliography, pp.224-230.  
"This is the first of a series of research progress reports... A general idea of the scope of the work and a more specific approach to the question of stiffness in fabrics is discussed here, together with a bibliography covering important work by others in this field."
1630. Stamm, Alfred J., and Cohen, Wilby E. The viscosity of cellulose in phosphoric acid solutions. *Jour. Phys. Chem.* 42(7):921-933. October 1938. (Published by the Williams & Wilkins Co., Mount Royal and Guilford Aves., Baltimore, Md.) 381 J822  
References, pp.932-933.  
"Viscosity measurements were made with a Bingham viscometer on solutions of  $\alpha$ -cellulose from cotton linters, a normal spruce sulphite pulp, and the same after beating for 20 hours in a rod mill, in concentrated phosphoric acid solutions...-C."-*Textile Inst. Jour.* 30(2):A130-A131. February 1939.

1631. Staudinger, H., and Reinecke, F. Ueber die charakterisierung von zellstoffen durch viskositätsmessungen. 204. Mitteilung. Ueber makromolekulare verbindungen. Papier-Fabrikant 36 (49): Tech.-Wiss. Tl. 489-495. Dec.2,1938. (Published by Otto Elsner Verlagsgesellschaft, Berlin SW68, Germany) 302.8 P197

Footnote references.

The characterization of cellulose through viscosity measurements. Part 204, Macromolecular relationships.

"The authors first point out that the relationship between viscosity and degree of polymerization in sol solutions is  $n = K_m \cdot P \cdot C$  in which  $n$  is specific viscosity,  $P$  is degree of polymerization,  $C$  is concentration of solution in g. per liter, and  $K_m$  is a constant. They then show that this relationship does not apply in more concentrated, or gel solutions. A formula applicable to the gel solutions of nitro-cellulose is given, as follows:  $N/C_{gm} = K_m \cdot M \cdot 10K_{st}$ .  $C_{gm}$  in which  $C_{gm}$  is the concentration in unit moles (glucose) per liter,  $M$  is molecular weight,  $K_{st}$  is the slope constant, and the other symbols have the same significance as above. It is strongly emphasized that the methods used in various technical laboratories, in which the viscosity of equally concentrated cellulose solutions is used, gives erroneous comparisons since viscosity varies exponentially with degree of polymerization. They point out further that strength and other tensile properties of celluloses do not vary linearly with degree of polymerization, but functionally. Furthermore it is shown that the tensile properties are greatly affected by change in degree of polymerization between 300 and 700 glucose units but scarcely at all above this range. Applications of these results in the textile and paper industries are discussed."-  
C.M. Conrad.

1632. Tepnin, W.I. Cotton fabrics: wear testing. Brit. Cotton Indus. Research Assoc., Summary of Current Lit. 19(6):170. Apr.1,1939. (Published at Didsbury, England)

From Legkije Metally 7(3):85-92. 1938.

"The author proposes to submit fabrics to chemical treatment before mechanical testing; for example, hypochlorite, drying in the air, after-treatment with sulphuric acid, or steeping

in 'perspiration' composed of salt (0.5), urea (1.5) and lactic acid (0.5 per cent.). Bending, ironing and extension tests are recommended. A paper by Posdnjakow is criticised.-C."

1633. Vadimovich, I.I. Investigation into the chemical and physicommechanical properties of Ukrainian cotton of the 1936 crop. Chem. Abs. 32(22): 9508. Nov.20,1938. (Published by American Chemical Society, Mills Bldg., Washington, D.C.) 381 Am33C

From Mem. Inst. Chem. Tech., Acad. Sci. Ukrain. S.S.R. no.9, pp.3-14 (in Russian 14-15, in English 16-17) (1938).

"Chem. tests on 23 specimens of cotton taken from Nikolayev, Kherson, Skadovsk, Kakhovka, Genichesk and Kerch showed cellulose 95.7, pentosans 2.7, nitrogenous material 1.2, fats and wax 0.9 and ash 1.2%. The strength varied from 4.0 to 5.8 g., elongation was 3.0-4.6%, and metric no. was 5200-6200.-B.Z. Kamich."-Entire item.

1634. Young, George F. Why cotton fabrics shrink, Textile Mercury and Argus 100(2607):295. Mar. 10,1939. (Published at 41, Spring Gardens, Manchester, England) 304.8 T318

See also Items nos. 1394, 1398, 1517, 1744, 1748, 1750, 1758, 1770, 1779, 1785.

### Technology of Manufacture

1635. "Beats per inch" or "beats per pound". Cotton [Atlanta] 103(4):141. April 1939. (Published by W.R.C. Smith Publishing Co., Grant Bldg., Atlanta, Ga.) 304.8 C823  
Uses of the terms in describing the opening process in a mill are discussed.
1636. Brockleman, T.L. Value of end breakage tests on roving frames. Textile Bull. 56(3):10. Apr.1, 1939. (Published by Clark Publishing Co., 218 West Morehead St., Charlotte, N.C.) 304.8 So82
1637. Card grinder's micrometer setting gauge. This instrument has been redesigned so that it can be used without any degree of skilled manipulation. Textile Recorder 56(672):46. Mar.6,1939. (Published at Old Colony House, Manchester, 2, England) 304.8 T311

1638. Goodbrand and co., ltd. Constant load or constant traverse strength testing. Textile Manfr. 64(768):532. December 1938. (Published by Emmott & Co., Ltd., 31 King St., West, Manchester, 3, England) 304.8 T3126  
 "An illustration is given of a new model of the Goodbrand machine that can be arranged to give constant rate of loading or traverse.-C."- Brit. Cotton Indus. Research Assoc., Summary of Current Lit. 19(3):76. Feb.15,1939.
1639. How to prevent uneven yarn. Textile Bull. 56(2): 28,83-86. Mar.15,1939. (Published by Clark Publishing Co., 218 West Morehead St., Charlotte, N.C.) 304.8 So82  
 Number six, by Leon Smith; number seven, by "Experience", and number eight, by C.A. Butterworth.
1640. How to prevent uneven yarn. Textile Bull. 56(3): 12,14-15. Apr.1,1939. (Published by Clark Publishing Co., 218 West Morehead St., Charlotte, N.C.) 304.8 So82  
 Number 8 by R.L.M.; number 9 by "Major."
1641. Landau, A.K. The trend in modern cotton manufacturing. Textile Age 3(3):37-38,40-41. March 1939. (Published at 381 Fourth Ave., New York, N.Y.) 304.8 T3132
1642. Mixed rovings in spinning. Practical methods of eliminating errors. Textile Weekly 23(580): 491-492. Apr.14,1939. (Published at 49, Deansgate, Manchester, 3, England) 304.8 T3127
1643. [Saco-Lowell shops] Better piccings. How the graphic sliver tester teaches operatives to improve their work. Saco-Lowell Bull. 11(1): 23-24. February 1939. (Published at 60 Battery-march St., Boston, Mass.) 304.8 Sal
1644. [Saco-Lowell shops] The cushion bearing bobbin and sleeve spindle. Two distinct factors contributing to the solution of the problems created by high speed and large packages. Saco-Lowell Bull. 11(1):1-5. February 1939. (Published at 60 Battery-march St., Boston, Mass.) 304.8 Sal

1645. [Saco-Lowell shops] Structural improvements on spinning frames and light twisters. Saco-Lowell Bull. 11(1):11-12. February 1939. (Published at 60 Batterymarch St., Boston, Mass.) 304.8 S61
1646. Vacuum cleaning for spinning rollers. New system for ring frames, high draft spinning, etc. Textile Weekly 23(579):454. Apr. 7, 1939. (Published at 49, Deansgate, Manchester, 3, England) 304.8 T3127

See also Items nos. 1616, 1620.

### Technology of Consumption

1647. Anderson, William D. Cotton maintains its tire cord supremacy. Rayon threat to cotton in manufacture of tire cord repulsed by Georgia mill research workers, Deltas are still king where duty is heaviest. Cotton Trade Jour. 19(15):8. Apr. 15, 1939. (Published at 810 Union St., New Orleans, La.) 72.8 C8214
1648. [Association of cotton textile merchants of New York] Drive planned to extend use of cotton bags. Cotton Trade Jour. 19(13):14. Apr. 1, 1939. (Published at 810 Union St., New Orleans, La.) 72.8 C8214
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See also Items nos. 1480, 1519, 1536, 1611, 1748, 1789.

#### COTTONSEED AND COTTONSEED PRODUCTS

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1656. Fats and oils--Factory consumption by classes of products compared with apparent disappearance. Fats and Oils Situation no.26, pp.9-41. Apr.14, 1939. (Published by U.S. Department of Agriculture, Bureau of Agricultural Economics, Washington, D.C.)  
References, pp.40-41.  
Includes cottonseed oil, 1931-1938.
1657. Holly, A.P. Recent developments in oil milling. Cotton and Cotton Oil Press 40(12):9,20. Apr. 15,1939. (Published at 3116-18 Commerce St., Dallas, Tex.) 304.8 C822  
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1658. Kozin, N.I., and Azarkh, B.I. The destearinization of cottonseed oil. *Voprosy Pitaniia* 7(2):23-36. 1938. (Published at Moscow, U.S.S.R.)  
 In Russian. English summary, p.36.  
 Literature, p.36.  
 "A temp. of 2.5-5° is most satisfactory for freeing cottonseed oil of triglycerides (I) by crystn. without solvent. The oil fraction thus obtained showed no turbidity when kept at 0° for 44 hours. Preliminary cooling to 5° followed by crystn. at 1.5-2.5° reduced crystn. time from 18 to 10 hrs. This preliminary cooling favors the formation of large crystals which are easily removed by filtration. When no solvent is used temps. of 0° to -7° are unsatisfactory, since the minute crystals which form and the high viscosity of the oil make filtration difficult. For the complete sepn. of I by means of solvents the ratio of solvent (benzine) to oil of 0.5:1 was found most satisfactory, with a crystg. temp. of -10° to -15° for 12 hrs.-S.A. Karjala."-Chem. Abs. 32(19):7757. Oct.10,1938.
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The development of cottonseed processing research at the University of Tennessee from 1929 to date is given.

See also Items nos. 1410, 1753, 1778, 1779.

#### LEGISLATION, REGULATION, AND ADJUDICATION

##### Legislation

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1697. Murchison, Claudius T. Industry takes a hand in the cotton crisis. 11pp., processed. Washington, Cotton-textile institute, inc., 1939.  
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The provisions of the bill are summarized.
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251pp. Washington, Govt. print. off., 1939.  
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persons: J.C. Dowling, H.M. Dubose, Alston H.  
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N.C. Williamson.
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ment administration. Annotated compilation of  
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Govt. print. off., 1938.
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Department of agriculture, 1939.  
Statement before the Agricultural Sub-Com-  
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Tex.) 286.82 C822  
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tion convention in Memphis, Tenn., April 28,1939.

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Includes brief report of the meeting of the International Universal Cotton Standards Conference in Washington, March 13-16, 1939.
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The author advocates the increase of cotton exports.

See also Items nos. 1475, 1492, 1523, 1532, 1740, 1748, 1764, 1773, 1780, 1781.

### Regulation

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1723. Cotton areas quarantined. Ariz. Stockman 3(9):8. November 1938. (Published at 140 South Central Ave., Phoenix, Ariz.) 49 Ar4  
Quarantine against boll weevil and pink bollworm was recently ordered in Arizona.
1724. Egypt. Quota for cotton piecegoods (from India). Indian Trade Jour. 132(1704):862. Feb. 16, 1939. (Published by the Department of Commercial Intelligence and Statistics, 1, Council House St., Calcutta, India) 286.8 In24
1725. Exchange control--origin of textiles. Rev. River Plate 86(2463):19. Feb. 24, 1939. (Published in Buenos Aires, Argentina. May be obtained from

S.S. Koppe & Co., Inc., 630 Fifth Avenue, New York, N.Y.)

Translation of a decree of the president of the Argentine Republic regarding the certification of origin of textiles from the United Kingdom imported into Argentina.

1726. L'importation de tissus de coton sous licence. Brussels, Bourse aux Textiles, Bulletin Bimensuel 3(14):14-15. Apr. 15, 1939. (Published at place Rogier, 6, Brussels, Belgium) 304.9 B83B  
 Importation of cotton cloth under license (Belgium).
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 "The plan calls for increasing the area planted to 180,000 acres and the crop to 141,536,000 pounds of seed cotton, equivalent to about 780 pounds per acre by 1948."
1728. Japan moves to coordinate all cotton activity. Japan, Manchukuo, and Japan-possessed China under council control. Cotton Trade Jour. 19(14):6. Apr. 8, 1939. (Published at 810 Union St., New Orleans, La.) 72.8 C9214  
 The proposed establishment of a council called the Japan-Manchukuo-China Cotton Industrial Council is discussed.
1729. Stubblefield, Blaine. Wage hearings set for May. Minimums of 32 1/2 c. for cotton-rayon-silk and 36c. for wool, if approved, will be effective July 1. Textile World 89(5):62. April 1939. (Published by McGraw-Hill Publishing Co., Inc., 330 West 42d St., New York, N.Y.) 304.8 T315
1730. United States of America. Duties on countable cotton cloth. Gt. Brit. Bd. Trade Jour. 142(2205):381. Mar. 9, 1939. (Published by H.M. Stationery Office, York House, Kingsway, London, W.C.2, England) 265.03 T67J  
 Copy of the schedule prepared by the U.S. Tariff Commission and published by the U.S. Treasury Department under date of February 4, 1939.

1731. U.S. Department of agriculture. Agricultural adjustment administration. Part 701--1939 agricultural conservation program bulletin. Supplement no.13. Fed. Register 4(74):1627. Apr.18,1939. (Published by National Archives, Washington, D.C.) 169 F31  
ACP-1939-13.
1732. U.S. Department of agriculture. Bureau of entomology and plant quarantine. Sec. 301.52-4A--Administrative instructions. Modifying the pink bollworm quarantine regulations by suspending treatment requirements of designated articles from the counties of Brooks, Jim Wells, Kenedy, Kleberg, and Nueces, Texas. Fed. Register 4(65):1437. Apr.5,1939. (Published by National Archives, Washington, D.C.) 169 F31  
B.E.P.Q. 492.
1733. U.S. Department of agriculture. Bureau of entomology and plant quarantine. Sec. 301.52-4B--Administrative instructions. Modifying the pink bollworm quarantine regulations by lifting treatment requirements as to designated articles from certain lightly infested area in New Mexico and Texas. Fed. Register 4(65):1437-1438. Apr.5, 1939. (Published by National Archives, Washington, D.C.) 169 F31  
B.E.P.Q. 493.
1734. U.S. Department of agriculture. Bureau of entomology and plant quarantine. Sec. 301.52-4C--Administrative instructions. Modifying restrictions of the pink bollworm quarantine regulations by lifting certain requirements as to samples of lint cotton. Fed. Register 4(65):1438. Apr.5, 1939. (Published by National Archives, Washington, D.C.) 169 F31  
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1735. U.S. Department of agriculture. Commodity credit corporation. 1937 cotton circular letter no.9. Fed. Register 4(74):1625. Apr.18,1939. (Published by National Archives, Washington, D.C.) 169 F31
1736. Woolf, Douglas G. Some like it, some don't. North, in general, thinks 32 1/2c. swell; South uses another expression. Textile World 89(5):63. April 1939. (Published by McGraw-Hill Publish-

ing Co., Inc., 330 West 42nd St., New York, N.Y.)  
304.8 T315

The proposed minimum wage for the cotton textile industry is discussed.

See also Item no. 1755.

MISCELLANEOUS--GENERAL

1737. Alabama manufacturers meet. Discuss cotton market and overproduction. Textile World 39(5):68. April 1939. (Published by McGraw-Hill Publishing Co., Inc., 330 West 42nd St., New York, N.Y.)  
304.8 T315

Brief report of the annual convention of the Alabama Cotton Manufacturers Association held March 16 and 17 at Mobile, Ala.

1738. Alexander, Robert. "Fight to retain cotton industry," Alexander urges. Arkansan warns no substitute can replace cotton as money crop of South. Cotton Trade Jour. 19(16):1,8. Apr. 22, 1939. (Published at 810 Union St., New Orleans, La.) 72.8 C8214

To be continued.

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1739. [American cotton manufacturers association] Elect Kemp P. Lewis president of ACMA at closing session. Jour. Com. 160(13905):1A. Apr. 17, 1939. (Published at 63 Park Row, New York, N.Y.) 286.8 J82

Report of meeting at New Orleans, April 13-15, 1939.

1740. [American cotton shippers association] American shippers fear "socialized" cotton industry. Think bounty would result in complete govt. domination. Objections to Roosevelt's cotton export subsidy plan named. Barter plan is hit. Tariff increase seen; would effect further hardship for producer. Cotton Trade Jour. 19(17):1,14. Apr. 29, 1939. (Published at 810 Union St., New Orleans, La.)  
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Report of annual convention at Memphis, Tenn., April 28, 1939.

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1741. Argentine Republic. Junta nacional del algodón. Anuario algodónero, 1938, preparado bajo la dirección de los ingenieros agrónomos Rafael García Mata y René P. Delpech. Argentine Republic, Junta Nacional del Algodon [Pub.] 39, 242pp. Buenos Aires. 1938. 281.3729 Ar3  
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UNITED STATES GOVERNMENT DEPARTMENTS

U.S. Department of Agriculture, Bureau of Agricultural Economics

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1939.

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Semi-Monthly Cotton Grade and Staple Report: issued Sept. 8-Dec. 20, 1939;  
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Report on Cotton Ginnings: to/Aug. 8, 23, Sept. 8, 23, Oct. 9, 25, Nov. 8,  
21, Dec. 8, 20, 1939; Jan. 23, Mar. 20, 1940.

U.S. Department of Commerce, Bureau of Foreign and Domestic Commerce

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