

the 17th when, a depression formed in the Bay of Bengal off the Orissa coast. This depression temporarily strengthened the monsoon in the Peninsula till about 20th after which period it became again weakened and remained so during the rest of the month. Three depressions caused the Bay of Bengal branch of the monsoon to remain fairly active and vigorous. A depression off the Orissa coast on the 23th caused a strong monsoon in the North Madras coast but this was not able to influence weather conditions in the rest of the Peninsula.

Rainfall was normal or in moderate excess in Circars and was generally in defect in West Coast, Ceded districts, South Madras and Mysore.

#### Weather Report for the Research Institute Observatory.

Report No. 8/36.

Absolute maximum in shade	...	90.0 F.
Absolute minimum in shade	...	66.5 F.
Mean maximum in shade	...	85.8 F.
Departure from normal	...	-2.1 F.
Mean minimum in shade	...	71.2 F.
Departure from normal	...	-0.5 F.
Total rainfall for the month	...	1.93"
Departure from normal	...	+0.94"
Heaviest fall in 24 hours (Recorded on 6-8-36)	...	1.25"
Total number of rainy days	...	4 days.
Mean daily wind velocity	...	5.3 M. P. H.
Mean humidity at 8 hours	...	73.9%
Departure from normal	...	+0.6%

**Summary.** The maximum and minimum temperatures were below normal. Rainfall was in excess by 0.94". The skies were moderately to heavily clouded. Humidity was slightly above normal. Dry weather conditions prevailed in the last week of the month.

P. V. R. & D. V. K.

## ADDITIONS TO THE LIBRARY

JULY 1936

### A. Books.

1. Soya bean. *Kale, F. S.* (1935).
2. The World Sugar Problem, 1926-1936. *Gutierrez, V.* (1935).
3. Garden Science. *Grainger, J.* (1935).
4. Your Flower Garden. *Day, H. A.* (1935).
5. Gardening in Towns. *Thomas, H. H.* (1936).
6. Modern Fruit Growing. *Seabrook, W. P.* (1933).
7. Back to the Land. *Orwin, C. S. & Darke, W. F.* (1935).
8. A Course of Study in Managing a Farm. *Lwark, A. T.* (1931).
9. Agrarianism: A Program for Farmers. *Cauley, T. J.* (1935).
10. Modern Production among Backward Peoples. *Graves, I. G.* (1935).
11. Labour in Agriculture. *Howard, L. E.* (1935).
12. Co-operation and the New Agricultural Policy. *Horace Plunkett Foundation Pub.* (1935).
13. Agricultural Education in Europe. *Int. Inst. Pub.* (1935).
14. Transactions of the Third International Congress of Soil Science, Vol. 3. (1936).
15. Humus. *Waksman, S. A.* (1936).
16. Milk Production and Control. *Harvey, W. C. & Hill, H.* (1936).
17. The World's Hand Book of Dairying. *Murray, A. H.* (1936).
18. Dairy Cow Testing Throughout the World. *Int. Inst. Pub.* (1935).
19. The Poultry Keepers' Text Book. *Brown, E. T.* (1934).
20. Elementary Veterinary Science for Agricultural Students. *Thompson, H. & Duncan, A. C.* (1935).
21. The Beginnings of Plant Hybridization. *Zirkle, C.* (1935).
22. The Cultivated Races of Sorghum. *Snowden, J. D.* (1936).
23. Die Fusarien. *Wollenweber, H. W. & Reinking, O. A.* (1935).
24. Plant Viruses. *Smith, K. M.* (1935).
25. Essentials of Physiological Chemistry. *Anderson, A. K.* (1935).
26. Bee Keeping (I. C. A. R. Misc. Bull. 6). *C. C. Ghosh.* (1936).
27. Embryology and Genetics. *Morgan, T. H.* (1934).
28. Practical Zoology. *Hewar, H. R.* (1935).
29. Flour Milling Processes. *Scott, J. H.* (1936).



**B. Annual Publications and Reports.**

1. Symposia on Quantitative Biology, Vol. 3. (1935).
2. Annual Review of Biochemistry, Vol. 5. (1936).
3. Scientific Reports of the Imperial Institute of Agricultural Research, Pusa for 1933-34.
4. Report of the Agricultural Department, Bihar and Orissa for the Period from the 1st April 1934 to the 31st March 1935.
5. Annual Administration Report of the Department of Agriculture H. E. H. the Nizam's Government for the Year 1342 Fasli (6th June 1932 to 5th June 1933).
6. Report of the Fifth Horticultural and Poultry Show, 1935.
7. Report on the Administration of the Department of Agriculture and Fisheries, Travancore for the Year 1110 M. E. (1934-1935 A. D.).
8. British South Africa Mazoe Citrus Experimental Station Annual Report for 1934, Vol. I.
9. Kenya Colony and Protectorate Department of Agriculture Annual Report, 1934, Vol. I.
10. Kenya Colony and Protectorate Department of Agriculture Annual Report, 1934, Vol. II.
11. British Cotton Growing Association 31st Annual Report for 1935.
12. Transactions of the Highland and Agricultural Society of Scotland Fifth Series, Vol. 48.
13. Massachusetts Agri. Experiment Station Annual Report for the Year ending November 30, 1935.
14. Annual Report of Director of New Hampshire Agricultural Experiment Station for the Year 1935.
15. Annual Report of the Director of Extension Service for 1935. New Hampshire.
16. United States Agri. Dept. Bureau of Plant Industry Annual Report 1935.
17. United States Agri. Dept. Soil Conservation Service Annual Report, 1935.
18. United States Agri. Dept. Bur. of Agri. Economic Annual Report, 1935.
19. United States Agri. Dept. Bur. of Agri. Engineering Annual Report, 1935.
20. United States Agri. Dept. Bur. of Animal Industry Annual Report, 1935.

**C. Special Reports and Publications.**

21. Conference on Co-ordination of Agricultural Research in the East African Territories, 1936.
22. Guide Book for the Excursion around Britain of the Third International Congress of Soil Science, 1935.
23. Soil Research in the British Empire published during 1935. Imperial Bur. of Soil Science Pub.
24. Studies and Methods of Malt Analysis for Commercial Purposes, 1933.
25. Investigations for the Improvement of Hill Grazings. Welsh Plant Breeding Station Series No. 14.
26. The Calculus of Plenty by Josiah Stamp. The Norman Lectures, Lecture, 1935.
27. Financing Agriculture in 1935. (U. S. A. Farm Credit Admin. Pub.).

**D. Bulletins, Memoirs, Etc.**

28. Hints on the Improvement of Cultivated Crops. Assam Agri. Dep. Bull. 8.
29. Quality of Lint in Relation to Ginning Factors.
30. The Effect of Employing Different Roller Settings and Twists on the Spinning Performance of Three Indian Cottons. I. C. C. C. Tech. Bull. Nos. 31, 32, Ser. A.
31. The Culture of Fish in Ponds. 32. Rotation of Crops.
33. Chrysanthemums. Eng. Min. of Agri. Bull. Nos. 12, 85, 92.
34. Studies on the Wastage of Export Grapes. Union of S. Africa Scie. Bull. 151.
35. Studies on Contagious Pleuro-Pneumonia of Cattle.
36. Cercospora Leaf-spot (Erogeye) of Tobacco in Queensland. Com. Australia C. S. I. R. Bull. 9.
37. The Common Black Field Cricket a Serious Pest in South Dakota. 38. Vitamin D in Milk. S. Dakota A. E. S. Bull. 29.
39. Crop Adjustment Oklahoma's Opportunity for Soil Improvement. Oklahoma Coop. Ext. Cir. 30.
40. Soil Erosion Control by Engineering Methods. Minnesota A. E. D. Sp. Bull. 171.
41. Hitches for Field Machinery. S. Dakota A. B. S. Bull. 297.
42. Poultry Flock Improvement.
43. Heavy Mulching in Bearing Apple Orchards.
44. Winter Pause in Rhode Island Reds. Massachusetts A. E. S. Bull. Nos. 325, 328, 329.
45. Growth and Survival of Deciduous Trees in Shelter-belt Experiments at Mandan, N. Dak. 1915-34.
46. The Cooking Quality, Palatability, and Carbohydrate Composition of Potatoes as Influenced by Storage Temperature. U. S. Agri. Dep. Tech. Bull. Nos. 496, 507.
47. Bacterial Diseases of Plants Occurring in



Taiwan (Formosa) VI. 48. Sclerotium Rolfsh Sacc in Perfect State III. Variation in the Cultures Originated from Basidiospores. 49. Immunological Studies of Mosaic Diseases V. Micro-serological Tests as Means of Detecting the Virus in a Small Area of Mosaic Tobacco Plants. *Taihoku Ump. Uni. Cont. Nos. 35, 36, 37.*

### E. Circulars, Pamphlets Etc.

50. Peppermint: Its Cultivation and Distillation. *Eng. Min. Agri. Leaf. 98.* 51. The Chemistry of Australian Timbers. 52. Studies of Five Introduced Grasses. *Com. Australia C. S. I. R. Pam. 62, 63.* 53. Some Results of Seed Treatment of Grain Crops. *Alberta A. E. S. Leaf. 17.* 54. Propagating Trees and Shrubs from Seed. *Alberta A. E. S. Cir. 21.*

## AUGUST 1936.

### A. Books.

1. The Application of Electricity to Fruit Farming. *Nehru, S. S. (1936).* 2. Gardening for Egypt and Allied climates. *Stout, M. (1935).* 3. The Agricultural Fair. *Neely, W. C. (1935).* 4. Self-Subsistence for the Unemployed. *Scott, J. W. (1936).* 5. Economics of Farm Organisation and Management. *Holmes, C. L. (1928).* 6. An Economic Survey of Bhadaa (A Village in the Punjab). *Brayne, F. L. & Dyal, S. (1936).* 7. Theoretical Basis of Jarovisation (In Russian). *Lyssenko, T. D. (1935).* 8. The Genus-Diaperthe Nitschke and Its Segregates. *Wehmeyer, L. I. (1933).* 9. Nematoda—I. Ascaroidea and Strongyloider. *Baylis, H. A. (1936).* 10. Procedure in Taxonomy (Zoological). *Schenk, A. T. & McMasters, J. H. (1936).*

### B. Annual Reports and Publications.

1. Annual Report of the Agri-Horticultural Society of Madras 1934—35. 2. Annual Report of the Imperial Council of Agricultural Research, India, 1935—36. 3. Triennial Report of the Experiments carried out on the Various Agricultural Stations in the United Provinces during 1932—35. 4. Proceedings of the Indian Central Cotton Committee, 32nd Meeting 1935. 5. Farm Accounts of the Punjab, 1933-34. 6. Annual Report of the East Malling Research Station, 1935. 7. Annual Report of the Imperial Bureau of Soil Science, 1935—36. 8. Annual Survey of American Chemistry, Vol. X, 1935. 9. Proceedings of the American Society of Horticultural Science, 1934, Volume, 31. 10. Annual Report of the Kenya Coffee Board for 1935—36. 11. Annual Report of the Antigua Agricultural Department for 1935. 12. Annual Report of the Uganda Agricultural Department for 1935.

### C. Special Reports and Publications.

13. & 14. Proceedings of the 6th International Botanical Congress, 1935—in two volumes. 15. Poultry Farming. 16. Beekeeping in Victoria. *Victoria Agri. Dept. Pubn.* 17. A Comparative Study of the Utility of the Milks and Ghees of the Indian Cow and Buffalo, as human food. *Godbole, N. N. & Sedgepal (1936).* 18. Ceylon Coconut Commission Report, 1933. 19. Proceedings of the 1st Meeting of the Crops and Soils Wing of the Board of Agriculture and Animal Husbandry in India, 1935. 20. The Cattle Census Report of the United Provinces of Agra & Oudh, 1933. 21. A Summary of the Results of the Phytalus Investigations, 1933—1936. *Mauritius Imp. Inst. Ent. Publication.* 22. Course of Study in Making a Living on the Farm. *Mont. Vocation. Edn. Pubn.* 23. Soil Conservation: Its Place in National Agricultural Policy, 1936. *U. S. Agri. Dep. A. A. A. Pubn.* 24. Formaldehyde for Seed and Soil Treatment: A Bibliography, 1936.

### D. Bulletins, &c.

25. Improvement of Rice in the Bombay-Karnatik: Part 1. Selections in the Mugad and Antersal Varieties of Paddy. *Bombay Agri. Dept. Bull. No. 178, 1935.* 26. Economics of Lac Industry in the Punjab. *Punjab Bd. Econ. Inq. Pubn. No. 47,*



1936. 27. A Study of the Soils in the Hill Areas of the Kulu Forest Division, Punjab: Part 1. An Investigation of Soil-Profiles under Deodar, Spruce, Blue Pine, and Chir. 28. The Distribution of Sesquioxides, Silica and Organic Matter in Forest Soil Profiles of the Kulu Hill Area. *Ind. Forest Records, (Silvi.)*, Vol. I, Nos. 2, 3, 1936. 29. Spotted Boll-Worms in South Gujarat. *I. C. C. C. Pubn.*, 1935. 30. The "Heat Curing of Shellac", Part 1. The 'Life under Heat' (Rev. Edn). *Ind. Lac. Res. Inst. Bull. No. 14*. 31. Domestic Preservation of Fruits and Vegetables. 32. Methods of Hedge and Tree Stump Clearing. *Eng. Min. Agri. & Fish. Bull. Nos. 21, 101*. 33. Medicinal Plants and Their Cultivation in Canada. *Canada Agri. Dep. Pubn. 484*. 34. A Survey of the Pastures of Australia. *Aust. Sci. & Ind. Res. Bull. No. 99*. 35. The Witches' Broom Disease of the Lucerne. *N. S. Wales Agri. Dep. Sci. Bull. 52*. 36. Acidity Determination in Cheese Making and Butter Making. *N. Z. Dairy Res. Int. Pubn. 79*. 37. Positions of Seeds and Motes in Locks and Lengths of Cotton Fibers from Bolls Borne at Different Position on Plants at Greenville, Texas. 38. Irrigated Crop Rotation in Western Nebraska. 1912-34. 39. Transit and Storage Diseases of Fruits and Vegetables as affected by initial Carbon Dioxide Treatments. *U. S. Agri. Dept. Tech. Bull. Nos. 509, 519*. 40. On the Control of Tapeworm Infestation in Chickens with Notes on the Pathology of the Intestines of the Hosts. *Mich. Agri. Exp. Stn. Tech. Bull. 148*. 41. A Study of the Uniformity of Soil Types and of the Fundamental Differences between the Different Soil Series. *Alabama Agri. Exp. Stn. Bull. No. 244*. 42. The Quality of Arizona Cotton. *Arizona Agri. Exp. Stn. Bull. No. 150*. 43. Soil and Fertilizer Studies by means of the Neubauer Method. *Indiana Agri. Exp. Stn. Bull. No. 399*. 44. Part-Time Farming in Oregon. *Oregon Agri. Exp. Stn. Bull. No. 340*. 45. The Relation of Colloids in Soil to its Favourable Use in Pise or Rammed Earth Walls. 46. Hybrid Corn. *S. Dakota Agri. Exp. Stn. Bull. Nos. 298, 299*. 47. A Study of the Organization and Management of Potato Farms in Central Maine. *Maine Agri. Exp. Stn. Bull. No. 379*. 48. Efficiency of Single and Double Restrictions in Randomized Field Trials with Cotton When Treated by the Analysis of Variance. *Arkansas Agri. Exp. Stn. Bull. No. 326*. 49. Forces Affecting Wisconsin Agriculture with Resulting Types of Farming. *Wisconsin Agri. Exp. Stn. Res. Bull. 131*. 50. The Importance of Phosphoric Acid Supply for Egyptian Crops as Illustrated by the Results of the Bantim Permanent Experiments and Others. *Egypt Roy. Agri. Soc. (Chem. Bull.)*, 19. 51. The Influence of Size and Weight of Seed Upon the Course of Subsequent Growth and Upon Yield of Wheat. *Egypt Roy. Agri. Soc. (Plant Breed.)*, Bull. 23. 52. Experiments in Egypt on the Interaction of Factors in Crop Growth. (2A). Residual Effects of Nitrogenous Manuring of the Cotton Crop on the Following Wheat Crop. (2B). Inter-relation of Nitrogenous Manuring, Variety and Spacing for the Wheat Crop. 53. (3). The Effects of Variety, Spacing, Nitrogen and Water Supply on the Development of the Cotton Plant and the Rate of its Absorption of Nitrogenous Fertilizer. *Egypt Roy. Agri. Soc. (Tech. Ser.)*, Bull. Nos. 19, 23, 24, 25. 54. Growth Fluctuations during the Development of Seed Cotton. *Egypt. Min. Agri. Tech. Sci. Ser. Bull. 101*. 55. The Storage of Trinidad Citrus Fruits. *Tri. Low. Temp. Res. Ser. Mem. No. 2*.

### E. Circulars, Leaflets &c.

56. Improved Ploughs Designed and Locally constructed to suit the Bengalee Cultivator. *Beng. Agri. Dept. Leaf. No. 201936*. 57. Sweet Potato (Ipomoea batatas). *S. S. & F. M. S. Agri. Leaf. 14*. 58. Potato Blight. *Eng. Min. Agri. Adv. Leaf. 271*. 59. Methods for controlling insect Pests in the Home. *Alberta Exten. Leaf. 19*. 60. The Wax Moth and Its Control. 61. Distribution of the Argentine Ant in the United States and Suggestions for its control or Eradication. 62. Variety Tests of Sugarcanes in Louisiana during the Crop Year 1933-34 and Summary of Annual Results 1926-1934. *U. S. Cir. Nos. 386, 387, 395*.