

CONTENTS

| Papers | Page |
|---|------|
| PLANNING CONSTRUCTION OF FOUR-RIVER BASIN PROJECT by Edwin W. Eden, Jr. | 1 |
| EVALUATION OF PIPE ELBOWS AS FLOW METERS by John A. Replogle, Lloyd E. Myers, and Kenneth J. Brust | 17 |
| ONE-DIMENSIONAL INFILTRATION INTO HOMOGENEOUS SOIL by Yu-Si Fok and Vaughn E. Hansen. | 35 |

DISCUSSION

Proc. Paper 4892

| | |
|--|----|
| FUTURE QUANTITY AND QUALITY OF COLORADO RIVER WATER, by Raymond A. Hill (Mar., 1965. Prior Discussion: Dec., 1965). closure. | 51 |
| EFFECTS OF COMPETITION ON EFFICIENCY OF WATER USE, by Jay M. Bagley (Mar., 1965. Prior Discussion: Sept., Dec., 1965). closure. | 53 |

(over)

This Journal is published quarterly by the American Society of Civil Engineers. Publications office is at 2500 South State Street, Ann Arbor, Michigan, 48104. Editorial and General Offices are at 345 East 47th Street, New York, N. Y. 10017. Subscription price is \$6.00 per year with discounts to members and libraries. Second-class postage paid at Ann Arbor, Michigan. IR, WW.

| | Page |
|---|------|
| ANALYSIS OF WATER ADVANCE IN SURFACE IRRIGATION, by Yu-Si Fok and Alvin Bishop (Mar., 1965. Prior discussion: Sept., Dec., 1965). closure. | 55 |
| EVAPORATION REDUCTION ON LARGE RESERVOIRS, by C. Earl Israelsen and Vaughn E. Hansen (Mar., 1965. Prior Discussion: Dec., 1965). closure. | 56 |
| OPERATING A SEA WATER BARRIER PROJECT, by Arthur E. Bruington and Frederick D. Seares (Mar., 1965. Prior Discussion: Sept., Dec., 1965). closure. | 60 |
| DETERMINING BANK STORAGE OF LAKE MEAD, by Paul A. Rechard (Mar., 1965. Prior Discussion: Sept., Dec., 1965). closure. | 62 |
| IRRIGATION WATER REQUIREMENTS OF LAWNS, by Tyler H. Quackenbush and John T. Phelan (June, 1965. Prior Discussion: Mar., 1966). closure. | 65 |
| INFLOW HYDROGRAPHS FROM LARGE UNCONFINED AQUIFERS, by Hassan Ali Ibrahim and Wilfried H. Brutsaert (June, 1965. Prior Discussion: Dec., 1965, Mar., 1966). closure. | 68 |
| DOUBLE-SLOPE METHOD FOR PUMPING TEST ANALYSIS, by Kamal F. Saad, Ahmed Shukry, and Aly Baligh (June, 1965. Prior Discussion: Dec., 1965, Mar., 1966). closure. | 69 |
| EFFECT OF IRRIGATION METHOD ON WATER CONSERVATION, by Jack Keller (June, 1965. Prior Discussion: Mar., 1966). closure. | 71 |
| FOREST DRAINAGE RESEARCH IN THE COASTAL PLAIN, by Ralph A. Klawitter and Cortland E. Young, Jr. (Sept., 1965. Prior Discussion: Mar., 1966). closure. | 72 |
| RICE IRRIGATION, by Lee Chow (Sept. 1965. Prior Discussion: Mar., 1966). closure. | 72 |
| IRRIGATION PLANNING USING CLIMATOLOGICAL DATA ^a , by Edward H. Wiser (Dec., 1965). by Albert E. Gibbs | 73 |

^a Discussion period closed for this paper. Any other discussion received during this period will be published in subsequent Journals.

| | Page |
|--|------|
| ROLE OF GOVERNMENT IN WATER RESOURCE DEVELOPMENT^a, by Ayers Brinser (Dec., 1965). | |
| by Asit K. Biswas. | 74 |
| by Robert L. McFall. | 75 |
| WATER MANAGEMENT ON RICELANDS IN LOUISIANA AND TEXAS^a, by Lester F. Lawhon and Louis W. Herndon (Dec., 1965). | |
| by Clyde E. Houston | 76 |
| ENGINEERING ASPECTS OF THE RECLAMATION OF SODIC SOILS WITH HIGH-SALT WATERS^a, by E. J. Doering and R. C. Reeve (Dec., 1965). | |
| by Jerald E. Christiansen | 78 |
| RAPID ASSESSMENT OF SPRINKLER PERFORMANCE^a, by R. Culver and R. F. Sinker (Mar., 1966). | |
| by Jerald E. Christiansen | 80 |
| STEADY-STATE THEORIES FOR DRAINAGE^a, by Don Kirkham (Mar., 1966). | |
| by Mostafa M. Soliman | 81 |
| RELATIONSHIPS AMONG SPRINKLER UNIFORMITY MEASURES^a, by Jack G. Beale and David T. Howell (Mar., 1966). | |
| by Jerald E. Christiansen | 83 |
| SALINITY PROBLEMS AND MANAGEMENT IN RIVER SYSTEMS^a, by Arthur F. Pillsbury and Harry F. Blaney (Mar., 1966). | |
| by Jerald E. Christiansen and James P. Thorne. | 84 |
| by Raymond A. Hill. | 86 |

^a Discussion period closed for this paper. Any other discussion received during this period will be published in subsequent Journals.