

*Dove River Bridge.*—A suspension footbridge of 133 ft. span was erected by the Dovedale Road Board, under a Government grant.

*Mapua Roads.*—For the purpose of connecting sundry orchard settlements with the port of Mapua, 16 ft. formation has been carried out for a distance of about 6 miles on the Mapua—Upper Moutere, Mapua—Motueka (via Moutere Bluffs), and Mapua—Motueka to Upper Moutere Roads.

*Moutere Mud-flat Road.*—The original formation, which was not sufficiently above high-water mark, has been raised throughout, a distance of over 3 miles, to improve the drainage, and the road has been lightly gravelled for a distance of nearly 5 miles.

*Anatoki River Bridge.*—This bridge, comprising two 20 ft. spans and two 52 ft. truss spans, on ironbark piles, has been completed according to contract, but it has been found advisable to add two 25 ft. spans, and the material is being obtained.

*Gowan Block.*—During the year  $3\frac{1}{2}$  miles of bushwork and about  $3\frac{1}{2}$  miles of 12 ft. road-formation, including numerous culverts, were completed.

*Cobden Bridge.*—A contract has been let for the construction of a new superstructure on the existing piers of this bridge. One of the old spans has been dismantled, and the new span is practically completed.

*Maintenance, Nelson and Westland Districts.*—The Department maintains a considerable length of main roads in the Nelson and Westland Districts, notably the Kohatu—Westport—Reefton Road, connecting Nelson and Westland; the road over Arthur's Pass, between Canterbury and Westland; and the Main South Road from Kumara southward. The expenditure during the year shows a slight increase over that for the previous year. The work comprises metalling and metal patching; grading; cleaning out water-tables, culverts, and drains; clearing scrub; repairs to bridges and other structures; maintenance and improvement of fords, ferries, &c. Some new formation and minor improvements have been carried out at various places.

*Leader River Bridge.*—This bridge was completed last year, but as an abnormal flood damaged the new work on the right approach bank before it became consolidated, three additional spans are being erected. Material is at the site and erection in progress.

*Ashley River Gorge Bridge.*—A structure, consisting of eight 25 ft. spans, on pile piers, was completed during the year.

*Hurunui River Bridge (Lower).*—This bridge, which consists of three 52 ft., one 51 ft., one 25 ft., and one 11 ft. spans, has been completed by the Waipara County Council.

*Makerikeri River Bridge.*—The Department has completed the erection of this bridge, of eight 25 ft. spans, with road approaches and protective works.

*Okuku River Bridge.*—The new bridge, comprising thirty-seven 25 ft. spans, has been completed under contract, and the old bridge has been dismantled. Approaches and protective works have been constructed by the Ashley County Council.

*Greta River Bridges.*—The Waipara County Council is carrying out extensive improvements on the Waipara—Cheviot Road at the crossings of the Greta River and Cobold's Creek, comprising three bridges and a stream-diversion, with gabion protective works and a considerable length of new road. Two bridges are completed, also approaches and protective works.

*Jollie River Bridge.*—A bridge, consisting of twelve 20 ft. spans, having 9 ft. roadway, has been completed. The approach banks, with gabion protection and fencing, are nearing completion.

*North Kowai River Bridge.*—This bridge, comprising three 25 ft. spans, with 12 ft. roadway, has been practically completed. The Kowai County Council has let a contract for the construction of the approaches and protective works.

*Orari River Bridge.*—A contract was in progress at date of last report for the erection of a bridge of fourteen 25 ft. spans. This has since been completed, including approach banks and fencing.

*Arthur's Point Bridge.*—The bridge over the Shotover River at Arthur's Point, which had become unsafe, is being replaced by a concrete arch structure. The arch span is 108 ft., and the height above water-level is 90 ft. The total length of the bridge, including abutment spans, is 140 ft., and the width of roadway 14 ft. The main-arch ribs have been completed, and the walings, studs, and bracing are well in hand. The old bridge is being removed.

*Taiari River Bridge (Linnburn Ford).*—A traffic-bridge, 150 ft. in length, was constructed by the Maniototo County Council, under Government subsidy.

*Kakanui River Bridge.*—A light-traffic bridge, 200 ft. in length, was erected by the Waitaki County Council, with the assistance of a Government grant.

*Flood Damage, Otago and Southland.*—Extensive flood damage occurred in various parts of this district. In this connection the Department has carried out a considerable amount of survey-work, and plans, estimates, and reports have been prepared. The Department is erecting a new flood-gate and bridge at Kaitangata, and reinstating a flood-gate at Puerua. Protective works at Barnego and Lunsden were repaired, and assistance was rendered to the Gore Borough Council in connection with a scheme for extensive protective works along the Mataura River in and near the town. The Western Taiari Drainage Board has carried out sundry new protective works, as well as repairs to existing works, with the assistance of a Government grant.

## IRRIGATION.

### IDA VALLEY SCHEME.

Two spillways were constructed on the Alexandra Bonanza Water-race. The Syndicate Race was enlarged to carry 10 heads from 0 m. to 2 m., and for 5 heads from 3 m. 42 ch. to 7 m. 77 ch. All private crossings over the race were completed, and twenty gauge-boxes were placed in position. This race is now in order for use in irrigation. A concrete culvert, five spillways, and two private crossings were constructed on the Moa Creek to Black's No. 3 Race. Temporary arrangements have been made to supply water from the Manorburn Dam to sundry settlers on the Galloway