

The rainfall at Kerepechi in 1938 was 58.43 in. The average annual rainfall over a period of twenty-two years is 43.85 in. The wettest month was February, with a fall of 9.42 in., and the driest, October, with a fall of 0.84 in. Rainfall records for Kerepechi are as follows:

RECORDS OF DAILY PRECIPITATIONS, KEREPECHI, HAURAKI PLAINS.

Year.	Number of Days, with given Daily Precipitation in Inches.												Total Days.	Total Fall.	Wettest Month.	Driest Month.
	0.00 to 0.49.	0.50 to 0.74.	0.75 to 0.99.	1.00 to 1.24.	1.25 to 1.49.	1.50 to 1.74.	1.75 to 1.99.	2.00 to 2.49.	2.50 to 2.99.	3.00 to 3.99.	4.00 to 4.99.	5.00 to 5.99.	6.00 to 7.00.			
1917 ..	131	11	4	4	3	..	1	1	1	..	..	..	156	45.61	Feb. 6.26	Jan. 0.65
1918 ..	145	14	6	4	..	1	..	..	1	..	..	..	171	44.06	Oct. 7.47	May 2.24
1919 ..	122	9	1	3	2	..	..	..	..	..	..	..	137	27.36	July 4.52	Dec. 0.89
1920 ..	85	7	10	3	1	1	3	2	..	..	..	..	112	43.16	Feb. 6.10	July 1.73
1921 ..	93	12	5	3	2	..	..	1	..	..	..	..	116	34.43	Oct. 5.89	Feb. 0.72
1922 ..	101	17	9	3	..	1	1	..	1	..	..	..	133	42.81	Feb. 6.62	April 1.73
1923 ..	151	6	5	4	..	1	1	..	..	..	..	1	169	47.04	April 9.76	March 1.72
1924 ..	132	8	10	5	2	5	1	1	..	2	..	..	166	60.37	April 8.55	July 1.87
1925 ..	142	15	4	2	..	..	..	1	..	..	..	..	164	37.64	June 6.67	April 0.84
1926 ..	149	15	6	1	5	2	2	..	..	..	..	..	183	55.53	May 8.86	Feb. 1.79
1927 ..	159	10	6	5	..	4	..	..	..	..	..	..	184	45.33	July 6.29	April 2.01
1928 ..	125	7	9	2	3	2	2	1	..	..	..	..	151	47.30	May 7.52	Jan. 0.01
1929 ..	124	19	8	3	1	..	..	..	..	..	..	..	155	41.05	April 5.09	Feb. 0.74
1930 ..	131	4	2	2	3	..	2	2	..	..	..	..	146	37.72	Jan. 6.87	Dec. 0.80
1931 ..	144	10	7	..	4	..	..	..	..	2	..	..	167	43.23	July 7.80	March 0.98
1932 ..	126	7	5	4	..	1	..	..	..	..	..	..	143	32.05	Feb. 4.95	Nov. 0.93
1933 ..	152	13	1	4	3	..	..	1	..	..	..	..	174	38.93	Feb. 6.54	March 1.20
1934 ..	138	11	6	5	2	2	..	1	..	1	..	..	166	43.23	June 6.15	Oct. 2.05
1935 ..	163	15	6	4	2	2	..	1	..	1	..	..	194	53.42	July 9.56	Jan. 0.93
1936 ..	127	11	6	3	..	1	..	..	..	2	..	..	150	40.62	Feb. 5.83	May 1.63
1937 ..	76	21	8	5	1	1	1	1	..	..	..	..	114	45.51	May 5.89	Feb. 0.51
1938 ..	54	19	13	6	4	2	1	2	..	..	..	..	101	58.43	Feb. 9.42	Oct. 0.84
1939* ..	9	..	..	..	2	..	..	1	..	..	..	..	12	6.07	Jan. 3.98	March 0.46

* First three months of year only.
Average rainfall over twenty-two years is 43.85 in.

In May the stop-banks on the foreshore of the Hauraki Gulf and mouths of the Waihou and Piako Rivers were topped by an extraordinary high tide. An area of over 10,000 acres of Hauraki Plains land was flooded by sea-water, and also a considerable area at Miranda and on the banks of the Waihou River where there are no stop-banks. Extensive damage was caused to the stop-banks and drains under the control of the Hauraki United and Hauraki Plains West Drainage Boards. The settlers on the flooded areas suffered loss and inconvenience through having to remove their stock, but it is pleasing and surprising to be able to record that the land that had been flooded with salt or brackish water produced the best pastures in the district the following summer.

The following is a general review of the works carried out during the year:

DREDGES.

Three bank-operating excavators and one floating dredge have been in commission during the year. The total quantity of material excavated by this plant was 206,412 cubic yards.

No. 15 Bucyrus excavator completed the Reservoir Canal in June, and after essential repairs had been carried out resumed work widening and deepening the Piako River between 12 miles 40 chains and 13 miles 10 chains. The spoil was used to strengthen the stop-banks on the right bank of the river. At the end of March the river-improvement work on this reach had been completed with the exception of about 5 chains. On completion of this section the plant will be laid up for a much-needed overhaul. Using a ½ cubic yard Page bucket, and operating with a 50 ft. boom, this machine handled 57,204 cubic yards in 184 working-days at a unit cost of 7.95d.

No. 16 Bucyrus excavator has been continuously employed widening the Waitakaruru-Maukoro Canal and constructing a road embankment on the right side of the canal. To avoid as far as possible double handling of spoil, two operations are necessary to enlarge the canal to the prescribed cross-section. Working down-stream from the 2 mile 23 chain peg, the canal was partially enlarged to 1 mile 73 chains and the spoil was placed to form a track for the machine. In the final operation it will complete the canal and place the spoil to form a road embankment. Between peg O at the bridge on the Pokeroo Thames Highway to 1 mile 73 chains, the road was formed with spoil excavated from the canal. The total quantity of material excavated using a ½ cubic yard bucket on 50 ft. boom was 72,873 cubic yards in 235 working-days, and the cost was 6.31d. per cubic yard.

No. 29 Bay City drag-line excavator is a light machine which operates on caterpillar crawlers and is equipped with a pneumatic-tired trailer for long-distance transportation. The number of jobs on which this machine has been engaged during the year serves to illustrate the usefulness and adaptability of this type of machine for general construction work. During April it was employed raising the Waihou River and foreshore stop-banks in the Orongo Settlement; from May to July it was employed on emergency work at Orongo, Turua, Shelly Beach, and Hopai, repairing breaks in the stop-banks caused by tidal overflow. Access to this work would have been impossible for a heavier