

steadily downwards without eddy or back-stream, though there was a narrow belt of stationary water under the right bank. This bank was low, with marshes and tiny pools of a score or so meters to the south of it. The opposite bank, where the huts of the village stand in two rows, is more accentuated and higher, namely 1 1/2 m.

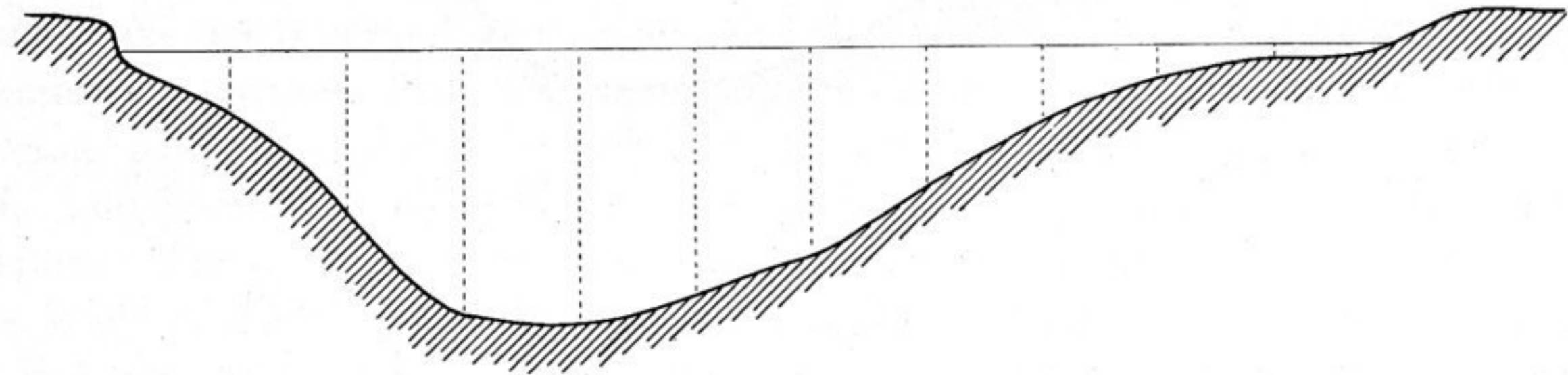


Fig. 99. Left. 

1.06	2.87	4.67	4.80	4.36	3.75	2.41	1.30	0.62	0.16	= depth. Right.
49	60	39	39	34	35	35	31	28	28	} velocity.
21	54	51	28	37	32	30	38	9		
	42	45	41	39	37	26				
		46	48	40	41					
			49	50	41					

Breadth = 22.0 m. Tusun-tschapghan branch, April 10. Scale 1 : 200.

With the view of controlling the results I have just given, as well as of ascertaining how much of the water went to the north and how much to the south, I took the following measurements immediately afterwards in the two riverarms separately, which in plan resemble a hay-fork (fig. 98). The Tusun-tschapghan arm had a breadth of 22.0 m.; a mean depth of 2.364 m.; a mean velocity of 0.3729 m.; and a volume of 19.39 cub.m. in the second. The left bank, against which the most powerful part of the stream was driven, is 1 m. high, and vertical, and farther down rises slowly up towards some old dunes, bound together with vegetation; consequently they are contained between the two river-arms, and thus serve as a memorial of the time when the drift-sand was able to spread freely westwards in this part of the country as well. The right bank rises into a low rampart, behind which, on the south, are marshes.

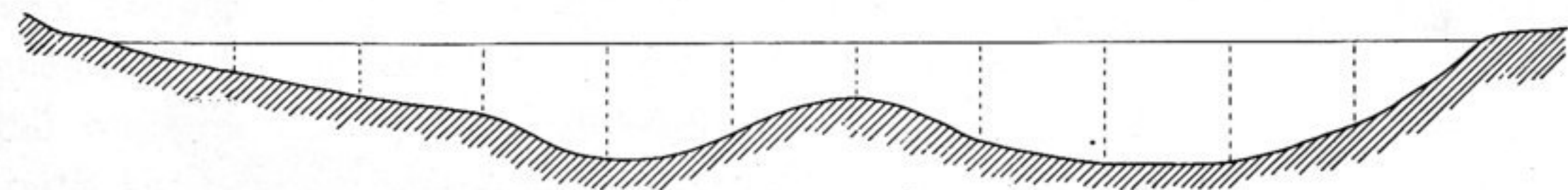


Fig. 100. Left. 

0.46	0.88	1.16	1.88	1.48	0.86	1.63	1.99	1.96	1.37	= depth. Right.
2	2	6	31	29	18	43	40	57	67	} velocity.
2	4	10	28	26	21	42	58	50	60	
			27	24		40	43	50	10	

Breadth = 22.6 m. Kum-tschapghan branch, April 10. Scale 1 : 200.

The Kum-tschapghan arm on the left had a breadth of 22.6 m.; a mean depth of 1.243 m.; a mean velocity of 0.3055 m.; and a volume of 8.58 m. in the second. Here the left bank ascends to the highest dune-hill, bound by vegetation, that there is in that region, its altitude being 10.24 m.; but the right side of the stream is occupied by a silt-deposit at the very verge of the water. This applies however